



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: 580-79055-5

Client Project/Site: Portland Harbor Pre-Remedial Design

Revision: 1

For:

AECOM 1111 Third Ave Suite 1600 Seattle, Washington 98101

Attn: Amy Dahl

M. Elaine Walker

Authorized for release by: 9/11/2018 5:19:15 PM

Elaine Walker, Project Manager II (253)248-4972 elaine.walker@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: AECOM

TestAmerica Job ID: 580-79055-5

Project/Site: Portland Harbor Pre-Remedial Design

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Case Narrative

Client: AECOM TestAmerica Job ID: 580-79055-5

Project/Site: Portland Harbor Pre-Remedial Design

Job ID: 580-79055-5

Laboratory: TestAmerica Seattle

Narrative

CASE NARRATIVE Client: AECOM

Project: Portland Harbor Pre-Remedial Design

Report Number: 580-79055-5

REVISION 1: SEPTEMBER 11, 2018

This revision was required because the Client initially requested the wrong sample to be activated for Atterberg Limits. Sample PDI-SG-B471 (580-79055-1) was added per client request.

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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

Two samples were received on 7/23/2018 2:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 5.3° C.

A container for Atterberg limits was received for sample PDI-SG-B471 (580-79055-1) and PDI-SG-B472 (580-79055-2) however this analysis was not requested on the COC. The client requested we add the analysis on hold.

The following samples were activated by the client for all on hold analysis on 8/16/18:PDI-SG-B471 (580-79055-1) and PDI-SG-B472 (580-79055-2).

Atterberg Limits were cancelled for sample PDI-SG-B471 (580-79055-1) per client on 8/29/2018.

The client indicated that the incorrect sample was requested for Atterberg Limits. Sample PDI-SG-B471 (580-79055-1) was added per client request on 9/5/2018.

This report contains results for Atterberg Limits for samples PDI-SG-B471 (580-79055-1) and PDI-SG-B472 (580-79055-2).

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.

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Samples PDI-SG-B471 (580-79055-1) and PDI-SG-B472 (580-79055-2) were analyzed for Liquid Limit, Plastic Limit and Plasticity Index of Soils in accordance with ASTM D4318. The samples were analyzed on 08/23/2018.

The following sample is not amenable to Liquid Limits, Plastic Limits, and Plasticity Index determination due to the physical properties of the sample: PDI-SG-B472 (580-79055-2). Values of zero, zero, and NP have been reported respectively for each determination.

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

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Definitions/Glossary

Client: AECOM TestAmerica Job ID: 580-79055-5

Project/Site: Portland Harbor Pre-Remedial Design

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**

Relative Error Ratio (Radiochemistry) **RER**

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 TestAmerica Job ID: 580-79055-5

Project/Site: Portland Harbor Pre-Remedial Design

Client Sample ID: PDI-SG-B471 Lab Sample ID: 580-79055-1

Date Collected: 07/21/18 10:45 Matrix: Solid

Date Received: 07/23/18 14:35

Method: D4318 - Liquid Limit, I	Plastic Lim	it and Plasti	city Index o	of Soils					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Liquid Limit	62				NONE			08/23/18 15:13	1
Plastic Limit	37				NONE			08/23/18 15:13	1
Plasticity Index	25				NONE			08/23/18 15:13	1

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Client Sample Results

Client: AECOM TestAmerica Job ID: 580-79055-5

Project/Site: Portland Harbor Pre-Remedial Design

Client Sample ID: PDI-SG-B472 Lab Sample ID: 580-79055-2

Date Collected: 07/21/18 12:20 Matrix: Solid

Date Received: 07/23/18 14:35

Method: D4318 - Liquid Limit, I	Plastic Limit	and Plastic	ity Index	of Soils					
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Liquid Limit	0				NONE			08/23/18 15:13	1
Plastic Limit	0				NONE			08/23/18 15:13	1
Plasticity Index	NP				NONE			08/23/18 15:13	1

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Lab Chronicle

Client: AECOM TestAmerica Job ID: 580-79055-5

Project/Site: Portland Harbor Pre-Remedial Design

Lab Sample ID: 580-79055-1

Matrix: Solid

Date Collected: 07/21/18 10:45

Date Received: 07/23/18 14:35

Client Sample ID: PDI-SG-B471

Batch Batch Dilution Batch Prepared Method Run **Factor** Number or Analyzed **Prep Type** Type Analyst Lab 133242 08/23/18 15:13 MAP TAL BUR Total/NA Analysis D4318

Client Sample ID: PDI-SG-B472 Lab Sample ID: 580-79055-2

Date Collected: 07/21/18 12:20 Matrix: Solid

Date Received: 07/23/18 14:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D4318		1	133242	08/23/18 15:13	MAP	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: AECOM TestAmerica Job ID: 580-79055-5

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

Laboratory: TestAmerica Burlington

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
ANAB	DoD ELAP		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18
New Hampshire	NELAP	1	2006	12-18-18
New Jersey	NELAP	2	VT972	06-30-19
New York	NELAP	2	10391	04-01-19
Pennsylvania	NELAP	3	68-00489	04-30-19
Rhode Island	State Program	1	LAO00298	12-30-18
US Fish & Wildlife	Federal		LE-058448-0	07-31-19
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18
Virginia	NELAP	3	460209	12-14-18

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Sample Summary

Client: AECOM

Project/Site: Portland Harbor Pre-Remedial Design

TestAmerica Job ID: 580-79055-5

Lab Sample ID	Client Sample ID	Matrix	Collected Received
580-79055-1	PDI-SG-B471	Solid	07/21/18 10:45 07/23/18 14:35
580-79055-2	PDI-SG-B472	Solid	07/21/18 12:20 07/23/18 14:35

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AECOM		Tel: (106) 438-22	Tel: (206) 438-2261 / (206) 438-2010	38-2010		Laboratory	tory Cont	lact: Ela	Contact: Elaine-Walker	ker			Carrier: Courier	ourier					l of	7	papes	
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Phone: (206) 438-2700 Fax: 1+(866) 495-5288									(09 °x)	., 09	1) 00	478	2				_						
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ample Type: - D/U							0771 33011		Metals, N			dirT, Tribu		-									
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PDI-SG-B472	7/21/2018	12:20	SS		ED	7	Н	Н	н	×	Н	н	7						-				
ontainer Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass,	PP=Polyprop	ylene, AG=	amber gla	ass, G=glas	ss, RC=Resi	RC=Resin Column										580-	580-79055 Chain of Custody	Chain of	Custod	>			
reservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid	oric Acid, HN	103 = Nitric	Acid														-		-				T
raction: $D = Dissobved$, $PRT = Particulate$, $T = Total$ (unfiltered)	d)						San	Sample Disposal Return To Client	osal To Clie	int	×	X pisposal By Lab	Lab	×	chive Fo	X Archive For 12 Months	nths						T
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Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's initials	Total No. of Cont.	raction	PCB Congo	PCDD/Fs 1613B	TPB Diesel, Metals, Mercury	Grain size ASTM D7928/D6913	Potal organic carbon. Total solids 9860 (184C, 70C)	Archive Archive -20 C	PAHs, BEHP, Tribuiyltin, 8279-SIM, 8279-U.L. KroniUnger	atterbeng								Samula	Specific No	atar.
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Client Information (Sub Contract Lab)	Sampler:			Lab PN Walke	Lab PM: Walker Flaine M) 	Jour / 9055 Chain of Custody	ain of C	rstody		;	
	Phone:			E-Mail:	1,1		1					-	
Shipping/Receiving				elaine	elaine.walker@testamericainc.com	estameric	ainc.com		Oregon			1 10 - oe 1	
ompany: FestAmerica Laboratories, Inc.					Accreditations Required (See note):	Required (See note):					Job #: 580-79055-5	
ddress: 80 Community Drive, Suite 11,	Due Date Requeste 8/8/2018	led:					Analy	Analysis Requested	Jested			Preservation Codes	ij.
South Burlington	TAT Requested (days):	ys):											M - Hexane N - None O - AsNaO2
itate, Zip: /T, 05403												cid 74	P - Na2O4S Q - Na2SO3
hone: 302-660-1990(Tel) 802-660-1919(Fax)	PO #:											F - MeOH G - Amchlor H - Ascorbic Acid	K - NaZSZO3 S - H2SO4 T - TSP Dodecahydrate
:mail:	WO #:				Charles and Armed							I - Ice J - DI Water	U - Acetone V - MCAA
শত্যিব Name: Portland Harbor Pre-Remedial Design	Project #: 58012120	ų									aenis)	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
ite:	SSOW#:								-		noolo	Other:	
		Sample	Sample Type	Matrix (w=water, S=solid,	1 Filtered. 0 11 (HSIV)	1					il Mumber		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	- 200	C C	iea 🗴						sioT X		Special Instructions/Note:
PDI-SG-B471 (580-79055-1)	7/21/18	10:45 Pacific		Solid	×								
PDI-SG-B472 (580-79055-2)	7/21/18	12:20 Pacific		Solid	×					3			
											A SHE		
	-												
											A-1-2		
											40		
Vote: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc., places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, inc.	ratories, Inc. places the essts/matrix being analyzent to date, return the si	ownership of m ed, the sample gned Chain of	nethod, analyte s must be shipl Custody attesti	& accreditation ped back to the ing to said comp	compliance u TestAmerica licance to Ter	pon out sub laboratory o stAmerica La	contract lab r other instru aboratories,	oratories. The retions will be Inc.	iis sample s e provided.	nipment is fo Any change:	rwarded unde to accreditat	er chain-of-custody. If i ion status should be br	ne laboratory does not ought to TestAmerica
Possible Hazard Identification					Sample	Disposa	I (A fee	nay be as	pesses	f samples	are retain	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	month)
Unconfirmed					֓֟֝֟֟֝֟֟֝֟֟֝֟֟֝֟֟֟֝֟֟֟֟֓֟֟֟֟֓֓֟֟֓֓֟֟֓֓֟	Return To Client	Client		Disposal By Lab	/ Lab	Arc	Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	able Rank: 2			Special	Instructio	ns/QC Re	Special Instructions/QC Requirements:					
Empty Kit Relipertshed by:		Date:			Time:				Metho	Method of Shipment:	ıt:		
Relinquished by:	5	26 8	10,	Je Mary Dr	Rece	Received by:				Date/Time:	ше:		Company
Aelinquished by: المراجعة الم	Date/Time: \			Company	Rece	Received by:				Date/Time:	me:		Company
l 1	Date/Time:			Company	Rece	Received by:	1/2			Date	Time: 782	0250	Company
Custody Seals Intact: Custody Seal No.: △ Yes △ No	\mathcal{H}				Cooler	ler Tempera $\int 0$	ture(s) °C ar	Temperature(s) °C and Other Remarks:	narks:				
													Ver: 09/20/2016

Do Not Lift Using This Tag

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

SHIP DATE: 26JUL18 ACTWGT: 13.65 LB CAD: 0996922/CAFE3210

BILL RECIPIENT

AMERICA LABORATORIES, INC. 30 COMMUNITY DRIVE

SOUTH BURLINGTON VT 05403



FedEx Express



TRK# 4423 0750 7546

FRI - 27 JUL 10:30A PRIORITY OVERNIGHT

XH BTVA

05403 BTV VT - US



Client: AECOM Job Number: 580-79055-5

Login Number: 79055 List Source: TestAmerica Seattle

List Number: 1

Creator: Antonson, Angeline D

Creator. Antonson, Angeline D		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: AECOM Job Number: 580-79055-5

List Source: TestAmerica Burlington
List Number: 4
List Creation: 07/28/18 11:52 AM

Creator: Mohn, Taylor J

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey neter.</td <td>N/A</td> <td>Lab does not accept radioactive samples</td>	N/A	Lab does not accept radioactive samples
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	10.3°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
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.	N/A	
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	