

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: 320-45444-2
Client Project/Site: 2018 PFAS Phase 2

For:
Shannon & Wilson, Inc
2355 Hill Rd.
Fairbanks, Alaska 99709-5244

Attn: Sheila Hinkley



Authorized for release by:
1/2/2019 1:33:31 PM

David Alltucker, Project Manager I
(916)374-4383
david.alltucker@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Case Narrative

Client: Shannon & Wilson, Inc
Project/Site: 2018 PFAS Phase 2

TestAmerica Job ID: 320-45444-2

Job ID: 320-45444-2

Laboratory: TestAmerica Sacramento

Narrative

See subcontract report

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Method Summary

Client: Shannon & Wilson, Inc
Project/Site: 2018 PFAS Phase 2

TestAmerica Job ID: 320-45444-2

Method	Method Description	Protocol	Laboratory
Subcontract	PFAS -537mod (12 analyte client list)	None	SC0103

Protocol References:

None = None

Laboratory References:

SC0103 = Eurofins Lancaster Laboratories Env LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Shannon & Wilson, Inc
Project/Site: 2018 PFAS Phase 2

TestAmerica Job ID: 320-45444-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-45444-3	[REDACTED]-2018 P2 Pre	Water	11/14/18 14:23	11/20/18 11:00
320-45444-4	[REDACTED]-2018 P2 Post	Water	11/14/18 14:25	11/20/18 11:00

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- 7



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

TestAmerica
4101 Shuffel Street NW
North Canton OH 44720

Report Date: December 05, 2018 17:36


Project: 2018 PFAS Phase 2

Account #: 01042
Group Number: 2012018
PO Number: 32007079
State of Sample Origin: AK

Electronic Copy To TestAmerica

Attn: David Alltucker

Respectfully Submitted,



Wendy A. Kozma
Principal Specialist Group Leader

(717) 556-7257

To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. Historical copies may be requested through your project manager.



SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
██████████ 2018 P2 Pre (320-45444-3) Water	11/14/2018 14:23	9911673
██████████ -2018 P2 Post (320-45444-4) Water	11/14/2018 14:25	9911674

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: ██████████-2018 P2 Pre (320-45444-3) Water

Project Name: 2018 PFAS Phase 2

TestAmerica
ELLE Sample #: WW 9911673
ELLE Group #: 2012018
Matrix: Water

Submittal Date/Time: 11/24/2018 09:15
Collection Date/Time: 11/14/2018 14:23

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified		ng/l	ng/l	ng/l	
14473	Perfluorobutanesulfonic Acid	375-73-5	0.99	0.28	0.95	1
14473	Perfluorodecanesulfonic Acid	335-77-3	N.D.	0.57	1.9	1
14473	Perfluorohexanesulfonic Acid	355-46-4	7.5	0.38	1.9	1
14473	Perfluorooctanesulfonic Acid	1763-23-1	0.40 J	0.38	1.9	1
14473	Pfda-Perfluorodecanoic Acid	335-76-2	N.D.	0.85	1.9	1
14473	Pfdoda-Perfluorododecanoic	307-55-1	N.D.	0.47	1.9	1
14473	Pfthpa-Perfluoroheptanoic Acid	375-85-9	1.8	0.38	0.95	1
14473	Pfthxa-Perfluorohexanoic Acid	307-24-4	9.0	0.38	1.9	1
14473	Pfna-Perfluorononanoic Acid	375-95-1	0.61 J	0.38	1.9	1
14473	Pfoa-Perfluorooctanoic Acid	335-67-1	3.2	0.28	0.95	1
14473	Pfteda-Perfluorotetradecanoic	376-06-7	N.D.	0.28	0.95	1
14473	Pftrda-Perfluorotridecanoic Ac	72629-94-8	N.D.	0.38	0.95	1
14473	Pfunda-Perfluoroundecanoic Aci	2058-94-8	N.D.	0.38	1.9	1

The sample injection internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

The recovery for labeled compound used as extraction standards is outside of QC acceptance limits as noted on the QC Summary.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	18330001	11/29/2018 05:26	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	18330001	11/26/2018 07:50	Courtney J Fatta	1

*=This limit was used in the evaluation of the final result



Sample Description: [REDACTED]-2018 P2 Post (320-45444-4) Water

Project Name: 2018 PFAS Phase 2

TestAmerica
ELLE Sample #: WW 9911674
ELLE Group #: 2012018
Matrix: Water

Submittal Date/Time: 11/24/2018 09:15
Collection Date/Time: 11/14/2018 14:25

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified		ng/l	ng/l	ng/l	
14473	Perfluorobutanesulfonic Acid	375-73-5	N.D.	0.26	0.87	1
14473	Perfluorodecanesulfonic Acid	335-77-3	N.D.	0.52	1.7	1
14473	Perfluorohexanesulfonic Acid	355-46-4	N.D.	0.35	1.7	1
14473	Perfluorooctanesulfonic Acid	1763-23-1	N.D.	0.35	1.7	1
14473	Pfda-Perfluorodecanoic Acid	335-76-2	N.D.	0.78	1.7	1
14473	Pfdoda-Perfluorododecanoic	307-55-1	N.D.	0.43	1.7	1
14473	Pfthpa-Perfluoroheptanoic Acid	375-85-9	N.D.	0.35	0.87	1
14473	Pfthxa-Perfluorohexanoic Acid	307-24-4	N.D.	0.35	1.7	1
14473	Pfna-Perfluorononanoic Acid	375-95-1	N.D.	0.35	1.7	1
14473	Pfoa-Perfluorooctanoic Acid	335-67-1	N.D.	0.26	0.87	1
14473	Pfteda-Perfluorotetradecanoic	376-06-7	N.D.	0.26	0.87	1
14473	Pftrda-Perfluorotridecanoic Ac	72629-94-8	N.D.	0.35	0.87	1
14473	Pfunda-Perfluoroundecanoic Aci	2058-94-8	N.D.	0.35	1.7	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	18330001	11/29/2018 05:35	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	18330001	11/26/2018 07:50	Courtney J Fatta	1

*=This limit was used in the evaluation of the final result



Quality Control Summary

Client Name: TestAmerica
Reported: 12/05/2018 17:36

Group Number: 2012018

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result ng/l	MDL** ng/l	LOQ ng/l
Batch number: 18330001	Sample number(s): 9911673-9911674		
Perfluorobutanesulfonic Acid	N.D.	0.30	1.0
Perfluorodecanesulfonic Acid	N.D.	0.60	2.0
Perfluorohexanesulfonic Acid	N.D.	0.40	2.0
Perfluorooctanesulfonic Acid	N.D.	0.40	2.0
Pfda-Perfluorodecanoic Acid	N.D.	0.90	2.0
Pfdoda-Perfluorododecanoic	N.D.	0.50	2.0
Pfhpa-Perfluoroheptanoic Acid	N.D.	0.40	1.0
Pfhxa-Perfluorohexanoic Acid	N.D.	0.40	2.0
Pfna-Perfluorononanoic Acid	N.D.	0.40	2.0
Pfoa-Perfluorooctanoic Acid	N.D.	0.30	1.0
Pfteda-Perfluorotetradecanoic	N.D.	0.30	1.0
Pftrda-Perfluorotridecanoic Ac	N.D.	0.40	1.0
Pfunda-Perfluoroundecanoic Aci	N.D.	0.40	2.0

LCS/LCSD

Analysis Name	LCS Spike Added ng/l	LCS Conc ng/l	LCSD Spike Added ng/l	LCSD Conc ng/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 18330001	Sample number(s): 9911673-9911674								
Perfluorobutanesulfonic Acid	4.81	4.54			94		73-128		
Perfluorodecanesulfonic Acid	5.24	4.96			95		60-135		
Perfluorohexanesulfonic Acid	5.14	4.90			95		71-131		
Perfluorooctanesulfonic Acid	5.20	4.68			90		67-138		
Pfda-Perfluorodecanoic Acid	5.44	4.38			81		69-148		
Pfdoda-Perfluorododecanoic	5.44	5.23			96		75-136		
Pfhpa-Perfluoroheptanoic Acid	5.44	4.97			91		76-140		
Pfhxa-Perfluorohexanoic Acid	5.44	5.28			97		75-135		
Pfna-Perfluorononanoic Acid	5.44	4.82			89		72-148		
Pfoa-Perfluorooctanoic Acid	5.44	4.80			88		72-138		
Pfteda-Perfluorotetradecanoic	5.44	5.21			96		74-135		
Pftrda-Perfluorotridecanoic Ac	5.44	5.27			97		61-145		
Pfunda-Perfluoroundecanoic Aci	5.44	4.85			89		75-146		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: TestAmerica
Reported: 12/05/2018 17:36

Group Number: 2012018

Labeled Isotope Quality Control

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: PFAS in Water by LC/MS/MS
Batch number: 18330001

	13C3-PFBS	13C5-PFHxA	13C3-PFHxS	13C4-PFHpA	13C8-PFOA	13C8-PFOS
9911673	218*	84	95	105	97	95
9911674	90	94	93	103	101	97
Blank	78	88	84	87	89	87
LCS	78	81	77	85	83	82
Limits:	26-148	35-138	34-126	35-126	48-122	50-121

	13C9-PFNA	13C6-PFDA	13C7-PFUnDA	13C2-PFDoDA	13C2-PFTeDA
9911673	104	100	95	91	73
9911674	101	102	100	95	83
Blank	90	87	85	82	79
LCS	89	91	83	81	78
Limits:	41-144	47-125	30-128	39-130	26-119

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

TestAmerica Sacramento
 880 Riverside Parkway
 West Sacramento, CA 95605
 Phone (916) 373-5600 Fax (916) 372-1059

A-1042
 G-2012018
 S-9911673-74

Chain of Custody Record



TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:			
Client Contact:		Phone:		E-Mail:		State of Origin:		Page:			
Shipping/Receiving				david.alltucker@testamericainc.com		Alaska		Page 1 of 1			
Company:				Accreditations Required (See note):				Job #:			
Eurofins Lancaster Laboratories Env LLC								320-45444-2			
Address:		Due Date Requested:		Analysis Requested						Preservation Codes:	
2425 New Holland Pike,		12/7/2018									
City:		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		SUB (PFAS -537mod (12 analyte client list)/PFAS -537mod (12 analyte client list))		Total Number of containers	
Lancaster											
State, Zip:		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		SUB (PFAS -537mod (12 analyte client list)/PFAS -537mod (12 analyte client list))		Total Number of containers	
PA, 17601											
Phone:		WO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		SUB (PFAS -537mod (12 analyte client list)/PFAS -537mod (12 analyte client list))		Total Number of containers	
717-656-2300(Tel)											
Email:		Project #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		SUB (PFAS -537mod (12 analyte client list)/PFAS -537mod (12 analyte client list))		Total Number of containers	
		32007079									
Project Name:		SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		SUB (PFAS -537mod (12 analyte client list)/PFAS -537mod (12 analyte client list))		Total Number of containers	
2018 PFAS Phase 2											
Site:		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:	
		11/14/18		14:23		Water		X		2	
		11/14/18		14:25		Water		X		2	

Note: 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 currently maintain 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 compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 11/23/18 1630		Company: TASAac		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by: <i>[Signature]</i>	
Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Custody Temperature (°C) and (°F):		0.3-2.9°C	

Shannon & Wilson
1st
320-45444-112

A-1042
6-2012018
5-9911673-74

Analyte Description	CAS Number
Perfluorohexanoic acid (PFHxA)	307-24-4
Perfluoroheptanoic acid (PFHpA)	375-85-9
Perfluorooctanoic acid (PFOA)	335-67-1
Perfluorononanoic acid (PFNA)	375-95-1
Perfluorodecanoic acid (PFDA)	335-76-2
Perfluoroundecanoic acid (PFUnA)	2058-94-8
Perfluorododecanoic acid (PFDoA)	307-55-1
Perfluorotridecanoic acid (PFTriA)	72629-94-8
Perfluorotetradecanoic acid (PFTeA)	376-06-7
Perfluorobutanesulfonic acid (PFBS)	375-73-5
Perfluorohexanesulfonic acid (PFHxS)	355-46-4
Perfluorooctanesulfonic acid (PFOS)	1763-23-1
Perfluorodecanesulfonic acid (PFDS)	335-77-3



Client: TestAmerica



Delivery and Receipt Information

Delivery Method: Fed Ex Arrival Timestamp: 11/24/2018 9:15
 Number of Packages: 2 Number of Projects: 1
 State/Province of Origin:

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Carolyn Cyms (964) at 10:34 on 11/24/2018

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-01	2.9	DT	Wet	Y	Loose	N
2	DT42-01	0.3	DT	Wet	Y	Loose	N

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
C	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	µg	microgram(s)
lb.	pound(s)	µL	microliter(s)
m³	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
P^	Concentration difference between the primary and confirmation column $>40\%$. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

2355 Hill Road
 Fairbanks, AK 99709
 (907) 479-0600
 www.shannonwilson.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1
 Laboratory Test America
 Attn: David

Analytical Methods (include preservative if used)

Turn Around Time:
 Normal Rush
 Please Specify

Quote No:

J-Flags: Yes No

Sample Identity	Lab No.	Time	Date Sampled	Analytical Methods (include preservative if used)					Total Number of Containers	Remarks/Matrix Composition/Grab? Sample Containers
[REDACTED]		1423	11/14/18	PFAS EPA 537 LA - Analytical Lab					2	GW
[REDACTED]		1425	↓						2	2

Project Information
 Number: 101965-005
 Name: 2018 PFAS Phase 2
 Contact: SMH
 Ongoing Project? Yes No
 Sampler: MDV

Sample Receipt
 Total No. of Containers: 2
 COC Seals/Intact? Y/N/NA
 Received Good Cond./Cold
 Temp:
 Delivery Method: FedEx

Relinquished By: 1.
 Signature: [Signature] Time: 14:45
 Printed Name: Cherissa Dufelov Date: 11/14/18
 Company: Shannon & Wilson, Inc.

Relinquished By: 2.
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

Relinquished By: 3.
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

Notes: Goldbreak
Bill to SWI

Received By: 1.
 Signature: [Signature] Time: 1100
 Printed Name: Eric Chung Date: 11/20/18
 Company: TA-SAC

Received By: 2.
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

Received By: 3.
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
 Yellow - w/shipment - for consignee files
 Pink - Shannon & Wilson - job file

Login Sample Receipt Checklist

Client: Shannon & Wilson, Inc

Job Number: 320-45444-2

Login Number: 45444
List Number: 1
Creator: Gooch, Mayce

List Source: TestAmerica Sacramento

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	SEALS
Sample custody seals, if present, are intact.	N/A	
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	



Sample Login Acknowledgement

Job 320-45444-2

Client Job Description: 2018 PFAS Phase 2
Purchase Order #: 101965-002
Work Order #:
Project Manager: David R Alltucker
Job Due Date: 12/12/2018
Job TAT: 15 Days
Max Deliverable Level: II

Earliest Deliverable Due: 12/12/2018

Report To: Shannon & Wilson, Inc
 Sheila Hinkley
 2355 Hill Rd.
 Fairbanks, AK 99709-5244

Bill To: Shannon & Wilson, Inc
 Fairbanks AP
 2355 Hill Rd.
 Fairbanks, AK 99709-5244

Login 320-45444

Sample Receipt: 11/20/2018 11:00:00 AM

Number of Coolers: 2

Method of Delivery: Goldstreak

Cooler Temperature(s) (C°): 4.7; 3.1;

Lab Sample #	Client Sample ID	Date Sampled	Matrix	Rpt Basis	Dry / Wet **
Method	Method Description / Work Location				
320-45444-3	[REDACTED]-2018 P2 Pre	11/14/2018 2:23:00 PM	Water		
SUBCONTRACT	PFAS -537mod (12 analyte client list) / Eurofins Lancaster Laboratories Env LLC	Total			Wet
320-45444-4	[REDACTED]-2018 P2 Post	11/14/2018 2:25:00 PM	Water		
SUBCONTRACT	PFAS -537mod (12 analyte client list) / Eurofins Lancaster Laboratories Env LLC	Total			Wet

* Method on-hold

** Wet/Dry indicates whether the reported results will be corrected for moisture content, and based on sample Wet weight or Dry weight.