

ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-190261-1

Client Project/Site: Ogeechee fish PFAs/Slater

For:

Ogeechee Riverkeeper
785 King George Blvd
Suite 102
Savannah, Georgia 31419

Attn: Damon Mullis



Authorized for release by:
11/3/2020 4:16:47 PM

Sheila Hoffman, Project Manager II
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LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

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

Method Summary

Client: Ogeechee Riverkeeper
Project/Site: Ogeechee fish PFAs/Slater

Job ID: 680-190261-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Definitions/Glossary

Client: Ogeechee Riverkeeper
Project/Site: Ogeechee fish PFAs/Slater

Job ID: 680-190261-1

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
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: Ogeechee Riverkeeper
Project/Site: Ogeechee fish PFAs/Slater

Job ID: 680-190261-1

Job ID: 680-190261-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: Ogeechee Riverkeeper

Project: Ogeechee fish PFAs/Slater

Report Number: 680-190261-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 10/20/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.9 C.

PFAS

Samples L. Bass 746g/71G (680-190261-1), L. Bass 658g/55G (680-190261-2), L. Bass 538g/45G (680-190261-3), Bluegill (680-190261-4), RedBreast (680-190261-5), RedBreast (680-190261-6) and RedBreast (680-190261-7) were analyzed for PFAS in accordance with 537. The samples were prepared on 10/27/2020 and analyzed on 11/01/2020.

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

Client Sample Results

Client: Ogeechee Riverkeeper
Project/Site: Ogeechee fish PFAs/Slater

Job ID: 680-190261-1

Client Sample ID: L. Bass 746g/71G

Lab Sample ID: 680-190261-1

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.88		0.88	0.38	ug/Kg		10/27/20 14:59	11/01/20 21:57	1
Perfluorooctane sulfonate (PFOS)	9.2		2.2	0.88	ug/Kg		10/27/20 14:59	11/01/20 21:57	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	89		25 - 150				10/27/20 14:59	11/01/20 21:57	1
13C4 PFOA	91		25 - 150				10/27/20 14:59	11/01/20 21:57	1

Client Sample ID: L. Bass 658g/55G

Lab Sample ID: 680-190261-2

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.94		0.94	0.41	ug/Kg		10/27/20 14:59	11/01/20 22:07	1
Perfluorooctane sulfonate (PFOS)	5.6		2.4	0.94	ug/Kg		10/27/20 14:59	11/01/20 22:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	89		25 - 150				10/27/20 14:59	11/01/20 22:07	1
13C4 PFOA	91		25 - 150				10/27/20 14:59	11/01/20 22:07	1

Client Sample ID: L. Bass 538g/45G

Lab Sample ID: 680-190261-3

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.97		0.97	0.42	ug/Kg		10/27/20 14:59	11/01/20 22:16	1
Perfluorooctane sulfonate (PFOS)	15		2.4	0.97	ug/Kg		10/27/20 14:59	11/01/20 22:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	88		25 - 150				10/27/20 14:59	11/01/20 22:16	1
13C4 PFOA	87		25 - 150				10/27/20 14:59	11/01/20 22:16	1

Client Sample ID: Bluegill

Lab Sample ID: 680-190261-4

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.93		0.93	0.40	ug/Kg		10/27/20 14:59	11/01/20 22:26	1
Perfluorooctane sulfonate (PFOS)	31		2.3	0.93	ug/Kg		10/27/20 14:59	11/01/20 22:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	84		25 - 150				10/27/20 14:59	11/01/20 22:26	1
13C4 PFOA	91		25 - 150				10/27/20 14:59	11/01/20 22:26	1

Client Sample ID: RedBreast

Lab Sample ID: 680-190261-5

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.93		0.93	0.40	ug/Kg		10/27/20 14:59	11/01/20 22:35	1
Perfluorooctane sulfonate (PFOS)	11		2.3	0.93	ug/Kg		10/27/20 14:59	11/01/20 22:35	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Ogeechee Riverkeeper
Project/Site: Ogeechee fish PFAs/Slater

Job ID: 680-190261-1

Client Sample ID: RedBreast

Date Collected: 10/14/20 14:00

Date Received: 10/20/20 15:45

Lab Sample ID: 680-190261-5

Matrix: Tissue

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	86		25 - 150	10/27/20 14:59	11/01/20 22:35	1
13C4 PFOA	87		25 - 150	10/27/20 14:59	11/01/20 22:35	1

Client Sample ID: RedBreast

Date Collected: 10/14/20 14:00

Date Received: 10/20/20 15:45

Lab Sample ID: 680-190261-6

Matrix: Tissue

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.78		0.78	0.34	ug/Kg		10/27/20 14:59	11/01/20 22:44	1
Perfluorooctane sulfonate (PFOS)	12		2.0	0.78	ug/Kg		10/27/20 14:59	11/01/20 22:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	82		25 - 150				10/27/20 14:59	11/01/20 22:44	1
13C4 PFOA	85		25 - 150				10/27/20 14:59	11/01/20 22:44	1

Client Sample ID: RedBreast

Date Collected: 10/14/20 14:00

Date Received: 10/20/20 15:45

Lab Sample ID: 680-190261-7

Matrix: Tissue

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.72		0.72	0.31	ug/Kg		10/27/20 14:59	11/01/20 22:54	1
Perfluorooctane sulfonate (PFOS)	11		1.8	0.72	ug/Kg		10/27/20 14:59	11/01/20 22:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	88		25 - 150				10/27/20 14:59	11/01/20 22:54	1
13C4 PFOA	89		25 - 150				10/27/20 14:59	11/01/20 22:54	1

Isotope Dilution Summary

Client: Ogeechee Riverkeeper
Project/Site: Ogeechee fish PFAs/Slater

Job ID: 680-190261-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Tissue

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOS	PFOA
		(25-150)	(25-150)
680-190261-1	L. Bass 746g/71G	89	91
680-190261-2	L. Bass 658g/55G	89	91
680-190261-3	L. Bass 538g/45G	88	87
680-190261-4	Bluegill	84	91
680-190261-5	RedBreast	86	87
680-190261-6	RedBreast	82	85
680-190261-7	RedBreast	88	89
LCS 320-425918/2-A	Lab Control Sample	86	89
LCSD 320-425918/3-A	Lab Control Sample Dup	83	90
MB 320-425918/1-A	Method Blank	89	91

Surrogate Legend

PFOS = 13C4 PFOS

PFOA = 13C4 PFOA

QC Sample Results

Client: Ogeechee Riverkeeper
Project/Site: Ogeechee fish PFAs/Slater

Job ID: 680-190261-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-425918/1-A

Matrix: Tissue

Analysis Batch: 427503

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 425918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<1.0		1.0	0.43	ug/Kg		10/27/20 14:59	11/01/20 21:29	1
Perfluorooctane sulfonate (PFOS)	<2.5		2.5	1.0	ug/Kg		10/27/20 14:59	11/01/20 21:29	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	89		25 - 150				10/27/20 14:59	11/01/20 21:29	1
13C4 PFOA	91		25 - 150				10/27/20 14:59	11/01/20 21:29	1

Lab Sample ID: LCS 320-425918/2-A

Matrix: Tissue

Analysis Batch: 427503

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 425918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	10.0	9.81		ug/Kg		98	72 - 132
Perfluorooctane sulfonate (PFOS)	9.28	9.24		ug/Kg		100	68 - 141
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C4 PFOS	86		25 - 150				
13C4 PFOA	89		25 - 150				

Lab Sample ID: LCSD 320-425918/3-A

Matrix: Tissue

Analysis Batch: 427503

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 425918

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	10.0	9.70		ug/Kg		97	72 - 132	1	30
Perfluorooctane sulfonate (PFOS)	9.28	9.45		ug/Kg		102	68 - 141	2	30
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits						
13C4 PFOS	83		25 - 150						
13C4 PFOA	90		25 - 150						

QC Association Summary

Client: Ogeechee Riverkeeper
Project/Site: Ogeechee fish PFAs/Slater

Job ID: 680-190261-1

LCMS

Prep Batch: 425918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190261-1	L. Bass 746g/71G	Total/NA	Tissue	SHAKE	
680-190261-2	L. Bass 658g/55G	Total/NA	Tissue	SHAKE	
680-190261-3	L. Bass 538g/45G	Total/NA	Tissue	SHAKE	
680-190261-4	Bluegill	Total/NA	Tissue	SHAKE	
680-190261-5	RedBreast	Total/NA	Tissue	SHAKE	
680-190261-6	RedBreast	Total/NA	Tissue	SHAKE	
680-190261-7	RedBreast	Total/NA	Tissue	SHAKE	
MB 320-425918/1-A	Method Blank	Total/NA	Tissue	SHAKE	
LCS 320-425918/2-A	Lab Control Sample	Total/NA	Tissue	SHAKE	
LCSD 320-425918/3-A	Lab Control Sample Dup	Total/NA	Tissue	SHAKE	

Analysis Batch: 427503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190261-1	L. Bass 746g/71G	Total/NA	Tissue	537 (modified)	425918
680-190261-2	L. Bass 658g/55G	Total/NA	Tissue	537 (modified)	425918
680-190261-3	L. Bass 538g/45G	Total/NA	Tissue	537 (modified)	425918
680-190261-4	Bluegill	Total/NA	Tissue	537 (modified)	425918
680-190261-5	RedBreast	Total/NA	Tissue	537 (modified)	425918
680-190261-6	RedBreast	Total/NA	Tissue	537 (modified)	425918
680-190261-7	RedBreast	Total/NA	Tissue	537 (modified)	425918
MB 320-425918/1-A	Method Blank	Total/NA	Tissue	537 (modified)	425918
LCS 320-425918/2-A	Lab Control Sample	Total/NA	Tissue	537 (modified)	425918
LCSD 320-425918/3-A	Lab Control Sample Dup	Total/NA	Tissue	537 (modified)	425918

Lab Chronicle

Client: Ogeechee Riverkeeper
Project/Site: Ogeechee fish PFAs/Slater

Job ID: 680-190261-1

Client Sample ID: L. Bass 746g/71G

Lab Sample ID: 680-190261-1

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			1.13 g	10.0 mL	425918	10/27/20 14:59	MC	TAL SAC
Total/NA	Analysis	537 (modified)		1			427503	11/01/20 21:57	MNV	TAL SAC
Instrument ID: A13										

Client Sample ID: L. Bass 658g/55G

Lab Sample ID: 680-190261-2

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			1.06 g	10.0 mL	425918	10/27/20 14:59	MC	TAL SAC
Total/NA	Analysis	537 (modified)		1			427503	11/01/20 22:07	MNV	TAL SAC
Instrument ID: A13										

Client Sample ID: L. Bass 538g/45G

Lab Sample ID: 680-190261-3

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			1.03 g	10.0 mL	425918	10/27/20 14:59	MC	TAL SAC
Total/NA	Analysis	537 (modified)		1			427503	11/01/20 22:16	MNV	TAL SAC
Instrument ID: A13										

Client Sample ID: Bluegill

Lab Sample ID: 680-190261-4

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			1.07 g	10.0 mL	425918	10/27/20 14:59	MC	TAL SAC
Total/NA	Analysis	537 (modified)		1			427503	11/01/20 22:26	MNV	TAL SAC
Instrument ID: A13										

Client Sample ID: RedBreast

Lab Sample ID: 680-190261-5

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			1.07 g	10.0 mL	425918	10/27/20 14:59	MC	TAL SAC
Total/NA	Analysis	537 (modified)		1			427503	11/01/20 22:35	MNV	TAL SAC
Instrument ID: A13										

Lab Chronicle

Client: Ogeechee Riverkeeper
Project/Site: Ogeechee fish PFAs/Slater

Job ID: 680-190261-1

Client Sample ID: RedBreast

Lab Sample ID: 680-190261-6

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			1.28 g	10.0 mL	425918	10/27/20 14:59	MC	TAL SAC
Total/NA	Analysis	537 (modified)		1			427503	11/01/20 22:44	MNV	TAL SAC
Instrument ID: A13										

Client Sample ID: RedBreast

Lab Sample ID: 680-190261-7

Date Collected: 10/14/20 14:00

Matrix: Tissue

Date Received: 10/20/20 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			1.38 g	10.0 mL	425918	10/27/20 14:59	MC	TAL SAC
Total/NA	Analysis	537 (modified)		1			427503	11/01/20 22:54	MNV	TAL SAC
Instrument ID: A13										

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Chain of Custody Record

Environment Testing
America

Client Information Client Contact: Damon Mullis Company: Ogechee Riverkeeper Address: 785 King George Blvd Suite 102 City: Savannah State Zip: GA, 31419 Phone: Email: damon@ogecheeriverkeeper.org Project Name: <i>Ogechee fish PFAs</i> Site: <i>Slater</i>		Sampler: Lab PM Hoffman, Sheila B Phone: E-Mail: Sheila.Hoffman@Eurofins.com		Carrier Tracking No(s): CQC No: 680-119167-45441.1 Page: Page 1 of 1 Job #:					
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Analysis Requested							
Sample Identification <i>L. Bass 746g / 171g</i> <i>L. Bass 658g / 55g</i> <i>L. Bass 538g / 45g</i> <i>Bluegill 236g / 11g</i> <i>Redbreast 287g / 15g</i> <i>Redbreast 214g / 9g</i> <i>Redbreast 208g / 11g</i>		Sample Date 10/14/20 10/14/20 10/14/20 10/14/20 10/14/20 10/14/20 10/14/20	Sample Time 14:00 14:00 14:00 14:00 14:00 14:00 14:00	Sample Type (C=Comp, G=Grab) G-Grab G-Grab G-Grab G-Grab G-Grab G-Grab	Matrix (W=Water, S=solid, O=soil, BT=Tissue, A=Air) S S S S S S S	Field Filtered Sample (Yes or No) 537 (Mod. Fred) (PFA/PFOs) X X X X X X X	Perform MS/MSD (Yes or No) X X X X X X X	Total Number of Containers X X X X X X X	Special Instructions/Note: 680-190261 Chain of Custody
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months							
Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> Relinquished by: Relinquished by:		Special Instructions/QC Requirements							
Date/Time: 10/20/20 15:45 Date/Time: Date/Time:		Method of Shipment:							
Company: ORR Company: Company:		Date/Time: 10/20/20 15:45 Date/Time: Date/Time:							
Custody Seal No.: Δ Yes Δ No		Cooler Temperature(s) and Other Remarks: 0.6 (0.90C)							

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact:		Hoffman, Sheila B		Hoffman, Sheila B		State of Origin:		680-629985.1	
Shipping/Receiving		Phone:		E-Mail:		Georgia		Page:	
Company:		TestAmerica Laboratories, Inc.		Sheila.Hoffman@Eurofinset.com		Accreditations Required (See note):		Page 1 of 1	
Address:		880 Riverside Parkway,		City:		West Sacramento		Job #:	
State, Zip:		CA, 95605		PO #:				680-190261-1	
Phone:		916-373-5600(Tel) 916-372-1059(Fax)		WO #:				Preservation Codes:	
Email:				Project #:		68024601		A - HCL	
Site:				SSOW#:				B - NaOH	
								C - Zn Acetate	
								D - Nitric Acid	
								E - NaHSO ₄	
								F - MeOH	
								G - Amchlor	
								H - Ascorbic Acid	
								I - Ice	
								J - DI Water	
								K - EDTA	
								L - EDA	
								M - Hexane	
								N - None	
								O - AsNaO ₂	
								P - Na ₂ OAS	
								Q - Na ₂ SO ₃	
								R - Na ₂ SO ₃	
								S - H ₂ SO ₄	
								T - TSP Dodecahydrate	
								U - Acetone	
								V - MCAA	
								W - pH 4-5	
								Z - other (specify)	
								Other:	

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PF ₆ IDA/Shake_Bath_14D PF ₆ OA/PFOS Only	Total Number of Containers	Special Instructions/Note:
L. Bass 746g/71G (680-190261-1)	10/14/20	14:00 Eastern		Tissue	X	X		1	
L. Bass 659g/55G (680-190261-2)	10/14/20	14:00 Eastern		Tissue		X		1	
L. Bass 538g/45G (680-190261-3)	10/14/20	14:00 Eastern		Tissue		X		1	
Bluegill (680-190261-4)	10/14/20	14:00 Eastern		Tissue		X		1	
RedBreast (680-190261-5)	10/14/20	14:00 Eastern		Tissue		X		1	
RedBreast (680-190261-6)	10/14/20	14:00 Eastern		Tissue		X		1	
RedBreast (680-190261-7)	10/14/20	14:00 Eastern		Tissue		X		1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our 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/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	
Unconfirmed	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2
Empty Kit Relinquished by:	
Relinquished by: <i>DR</i>	Date: 10-20-2020/1658
Relinquished by:	Date:
Relinquished by:	Date:
Custody Seal No: 1334282	Custody Seal Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Special Instructions/QC Requirements:	
Method of Shipment:	
Time:	
Relinquished by: <i>DR</i> Date: 10/21/20 10:00 Company: <i>ETA-SAE</i> Relinquished by: Date: Company: Relinquished by: Date: Company:	
Colder Temperature(s) °C and Other Remarks: <i>OB: 2.0</i> <i>corr: 1.5</i>	



Environment Testing
TestAmerica

Sacramento
Sample Receiving Notes



680-190261 Field Sheet

Tracking #: 132894107321

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Job: _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: AK-5 Corr. Factor: (+10)0.5 °C

Ice X Wet X Gel _____ Other _____

Cooler Custody Seal: 1334282

Cooler ID: _____

Temp Observed: 2.0 °C Corrected: 1.5 °C
From: Temp Blank ☐ Sample ☒

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Initials: AS Date: 10/21/20

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: AS Date: 10/21/20

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: AS Date: 10/21/20

Login Sample Receipt Checklist

Client: Ogeechee Riverkeeper

Job Number: 680-190261-1

Login Number: 190261

List Source: Eurofins TestAmerica, Savannah

List Number: 1

Creator: Tyler, Matthew M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
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?	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ogeechee Riverkeeper

Job Number: 680-190261-1

Login Number: 190261

List Source: Eurofins TestAmerica, Sacramento

List Number: 2

List Creation: 10/21/20 01:46 PM

Creator: Saephan, Kae C

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	1334282
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	ob: 2.0c corr: 1.5c
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?	False	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.	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	

Accreditation/Certification Summary

Client: Ogeechee Riverkeeper
Project/Site: Ogeechee fish PFAs/Slater

Job ID: 680-190261-1

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	Dept. of Energy	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	01-20-21
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-30-21
Hawaii	State	<cert No.>	01-29-21
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	10-31-20 *
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	08-03-23
Nevada	State	CA000442021-1	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Oregon	NELAP	4040	01-29-21
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-20
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

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

Eurofins TestAmerica, Savannah