

December 17, 2019

Tyler Baker
Tennessee Valley Authority
Chickamauga Power Service Cent
4601 North Access Road, Bld. B
Chattanooga, TN 374153825

RE: Project: 0779777 JOHN SEVIER FOSSIL PLA
Pace Project No.: 40197844

Dear Tyler Baker:

Enclosed are the analytical results for sample(s) received by the laboratory between October 23, 2019 and November 20, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jennifer Gable, Environmental Standards, Inc.
Roy Quinn, TVA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40197844001	JSF-FH-CC-HRD-F-20190619	Tissue	06/19/19 14:40	10/23/19 09:25
40197844002	JSF-FH-CC-HRU-F-20190430	Tissue	04/30/19 11:00	10/23/19 09:25
40197844003	JSF-FH-CC-F-DUP01-20190507	Tissue	05/07/19 00:00	10/23/19 09:25
40197844004	JSF-FH-CC-F-DUP02-20190430	Tissue	04/30/19 00:00	10/23/19 09:25
40197844005	JSF-FH-CC-HRA1-O-20190507	Tissue	05/07/19 18:57	10/23/19 09:25
40197844006	JSF-FH-CC-O-DUP02-20190430	Tissue	04/30/19 00:00	10/23/19 09:25
40197844007	JSF-FH-CC-HRA1-L-20190507	Tissue	05/07/19 18:57	10/23/19 09:25
40197844008	JSF-FH-CC-HRA2-L-20190611	Tissue	06/11/19 16:45	10/23/19 09:25
40197844009	JSF-FH-CC-HRD-L-20190619	Tissue	06/19/19 14:40	10/23/19 09:25
40197844010	JSF-FH-CC-HRU-L-20190430	Tissue	04/30/19 11:00	10/23/19 09:25
40197844011	JSF-FH-CC-L-DUP01-20190507	Tissue	05/07/19 00:00	10/23/19 09:25
40197844012	JSF-FH-CC-L-DUP02-20190430	Tissue	04/30/19 00:00	10/23/19 09:25
40197844013	JSF-FH-SB-HRA1-F-20190409	Tissue	04/09/19 13:45	10/23/19 09:25
40197844014	JSF-FH-LB-HRA2-F-20190409	Tissue	04/09/19 17:05	10/23/19 09:25
40197844015	JSF-FH-LB-HRD-F-20190410	Tissue	04/10/19 13:15	10/23/19 09:25
40197844016	JSF-FH-LB-HRU-F-20190409	Tissue	04/09/19 14:12	10/23/19 09:25
40197844017	JSF-FH-LB-F-DUP01-20190410	Tissue	04/10/19 00:00	10/23/19 09:25
40197844018	JSF-FH-LB-F-DUP02-20190409	Tissue	04/09/19 00:00	10/23/19 09:25
40197844019	JSF-FH-SB-HRA1-O-20190409	Tissue	04/09/19 13:45	10/23/19 09:25
40197844020	JSF-FH-LB-HRA2-O-20190409	Tissue	04/09/19 17:05	10/23/19 09:25
40197844021	RINSE BLANK-A 11-19-19	Tissue	11/19/19 00:00	11/20/19 11:09

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40197844001	JSF-FH-CC-HRD-F-20190619	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844002	JSF-FH-CC-HRU-F-20190430	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844003	JSF-FH-CC-F-DUP01-20190507	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844004	JSF-FH-CC-F-DUP02-20190430	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844005	JSF-FH-CC-HRA1-O-20190507	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844006	JSF-FH-CC-O-DUP02-20190430	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844007	JSF-FH-CC-HRA1-L-20190507	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844008	JSF-FH-CC-HRA2-L-20190611	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844009	JSF-FH-CC-HRD-L-20190619	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844010	JSF-FH-CC-HRU-L-20190430	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844011	JSF-FH-CC-L-DUP01-20190507	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844012	JSF-FH-CC-L-DUP02-20190430	EPA 6020	DS1	20
		EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
40197844013	JSF-FH-SB-HRA1-F-20190409	EPA 6020	DS1	20

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SAMPLE ANALYTE COUNT

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40197844014	JSF-FH-LB-HRA2-F-20190409	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40197844015	JSF-FH-LB-HRD-F-20190410	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40197844016	JSF-FH-LB-HRU-F-20190409	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40197844017	JSF-FH-LB-F-DUP01-20190410	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40197844018	JSF-FH-LB-F-DUP02-20190409	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40197844019	JSF-FH-SB-HRA1-O-20190409	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40197844020	JSF-FH-LB-HRA2-O-20190409	EPA 7473	AJT	1
		ASTM D2974-87	CWN	1
		EPA 6020	DS1	20
40197844021	RINSE BLANK-A 11-19-19	EPA 7473	AJT	1
		EPA 6020	DS1	20

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PROJECT NARRATIVE

Project: 0779777 JOHN SEVIER FOSSIL PLA
Pace Project No.: 40197844

Method: EPA 6020
Description: 6020 MET ICPMS
Client: TENNESSEE VALLEY AUTHORITY
Date: December 17, 2019

General Information:

21 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 342862

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40197844001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 1991169)
 - Calcium

R1: RPD value was outside control limits.

- MS (Lab ID: 1991168)
 - Calcium
- MSD (Lab ID: 1991169)
 - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Method: EPA 7473

Description: 7473 Mercury, Tissue

Client: TENNESSEE VALLEY AUTHORITY

Date: December 17, 2019

General Information:

21 samples were analyzed for EPA 7473. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 342142

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40197844001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1987222)
 - Mercury
- MSD (Lab ID: 1987223)
 - Mercury

Additional Comments:

Analyte Comments:

QC Batch: 342142

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- JSF-FH-CC-HRU-F-20190430 (Lab ID: 40197844002)
 - Mercury

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Method: ASTM D2974-87

Description: Percent Moisture Reportable

Client: TENNESSEE VALLEY AUTHORITY

Date: December 17, 2019

General Information:

20 samples were analyzed for ASTM D2974-87. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-HRD-F-20190619 **Lab ID:** 40197844001 **Collected:** 06/19/19 14:40 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.10	0.021	1	12/10/19 08:23	12/12/19 20:37	7440-36-0	
Arsenic	0.083J	mg/kg	0.10	0.030	1	12/10/19 08:23	12/12/19 20:37	7440-38-2	
Barium	<0.031	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 20:37	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 20:37	7440-41-7	
Boron	<0.70	mg/kg	2.3	0.70	1	12/10/19 08:23	12/12/19 20:37	7440-42-8	
Cadmium	0.039J	mg/kg	0.10	0.011	1	12/10/19 08:23	12/12/19 20:37	7440-43-9	
Calcium	96.3	mg/kg	84.5	25.3	1	12/10/19 08:23	12/12/19 20:37	7440-70-2	M0,R1
Chromium	<0.088	mg/kg	0.29	0.088	1	12/10/19 08:23	12/12/19 20:37	7440-47-3	
Cobalt	<0.019	mg/kg	0.10	0.019	1	12/10/19 08:23	12/12/19 20:37	7440-48-4	
Copper	0.72J	mg/kg	0.95	0.28	1	12/10/19 08:23	12/12/19 20:37	7440-50-8	
Lead	<0.030	mg/kg	0.10	0.030	1	12/10/19 08:23	12/12/19 20:37	7439-92-1	
Lithium	<0.021	mg/kg	0.10	0.021	1	12/10/19 08:23	12/12/19 20:37	7439-93-2	
Molybdenum	<0.036	mg/kg	0.12	0.036	1	12/10/19 08:23	12/12/19 20:37	7439-98-7	
Nickel	0.39	mg/kg	0.14	0.041	1	12/10/19 08:23	12/12/19 20:37	7440-02-0	
Selenium	0.17	mg/kg	0.17	0.051	1	12/10/19 08:23	12/12/19 20:37	7782-49-2	
Silver	<0.011	mg/kg	0.050	0.011	1	12/10/19 08:23	12/12/19 20:37	7440-22-4	
Strontium	<0.16	mg/kg	0.54	0.16	1	12/10/19 08:23	12/12/19 20:37	7440-24-6	
Thallium	<0.013	mg/kg	0.10	0.013	1	12/10/19 08:23	12/12/19 20:37	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 20:37	7440-62-2	
Zinc	6.3	mg/kg	4.7	1.4	1	12/10/19 08:23	12/12/19 20:37	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.070	mg/kg	0.024	0.0072	1		12/02/19 14:21	7439-97-6	M0
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	79.6	%	0.10	0.10	1		11/19/19 09:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-HRU-F-20190430 **Lab ID:** 40197844002 **Collected:** 04/30/19 11:00 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.099	0.021	1	12/10/19 08:23	12/12/19 21:20	7440-36-0	
Arsenic	0.048J	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 21:20	7440-38-2	
Barium	<0.030	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 21:20	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 21:20	7440-41-7	
Boron	<0.69	mg/kg	2.3	0.69	1	12/10/19 08:23	12/12/19 21:20	7440-42-8	
Cadmium	<0.011	mg/kg	0.099	0.011	1	12/10/19 08:23	12/12/19 21:20	7440-43-9	
Calcium	75.0J	mg/kg	83.6	25.1	1	12/10/19 08:23	12/12/19 21:20	7440-70-2	
Chromium	<0.087	mg/kg	0.29	0.087	1	12/10/19 08:23	12/12/19 21:20	7440-47-3	
Cobalt	0.042J	mg/kg	0.099	0.019	1	12/10/19 08:23	12/12/19 21:20	7440-48-4	
Copper	<0.28	mg/kg	0.94	0.28	1	12/10/19 08:23	12/12/19 21:20	7440-50-8	
Lead	<0.030	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 21:20	7439-92-1	
Lithium	<0.021	mg/kg	0.099	0.021	1	12/10/19 08:23	12/12/19 21:20	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	12/10/19 08:23	12/12/19 21:20	7439-98-7	
Nickel	<0.041	mg/kg	0.14	0.041	1	12/10/19 08:23	12/12/19 21:20	7440-02-0	
Selenium	0.18	mg/kg	0.17	0.050	1	12/10/19 08:23	12/12/19 21:20	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	12/10/19 08:23	12/12/19 21:20	7440-22-4	
Strontium	<0.16	mg/kg	0.53	0.16	1	12/10/19 08:23	12/12/19 21:20	7440-24-6	
Thallium	<0.013	mg/kg	0.099	0.013	1	12/10/19 08:23	12/12/19 21:20	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 21:20	7440-62-2	
Zinc	5.1	mg/kg	4.6	1.4	1	12/10/19 08:23	12/12/19 21:20	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.23	mg/kg	0.025	0.0074	1		12/02/19 14:53	7439-97-6	E
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	76.7	%	0.10	0.10	1		11/19/19 09:20		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-F-DUP01-20190507 Lab ID: 40197844003 Collected: 05/07/19 00:00 Received: 10/23/19 09:25 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.097	0.020	1	12/10/19 08:23	12/12/19 21:35	7440-36-0	
Arsenic	<0.029	mg/kg	0.097	0.029	1	12/10/19 08:23	12/12/19 21:35	7440-38-2	
Barium	<0.030	mg/kg	0.097	0.030	1	12/10/19 08:23	12/12/19 21:35	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 21:35	7440-41-7	
Boron	<0.68	mg/kg	2.3	0.68	1	12/10/19 08:23	12/12/19 21:35	7440-42-8	
Cadmium	<0.011	mg/kg	0.097	0.011	1	12/10/19 08:23	12/12/19 21:35	7440-43-9	
Calcium	77.5J	mg/kg	82.3	24.7	1	12/10/19 08:23	12/12/19 21:35	7440-70-2	
Chromium	<0.086	mg/kg	0.28	0.086	1	12/10/19 08:23	12/12/19 21:35	7440-47-3	
Cobalt	0.026J	mg/kg	0.097	0.018	1	12/10/19 08:23	12/12/19 21:35	7440-48-4	
Copper	0.34J	mg/kg	0.92	0.28	1	12/10/19 08:23	12/12/19 21:35	7440-50-8	
Lead	<0.029	mg/kg	0.097	0.029	1	12/10/19 08:23	12/12/19 21:35	7439-92-1	
Lithium	<0.021	mg/kg	0.097	0.021	1	12/10/19 08:23	12/12/19 21:35	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	12/10/19 08:23	12/12/19 21:35	7439-98-7	
Nickel	<0.040	mg/kg	0.14	0.040	1	12/10/19 08:23	12/12/19 21:35	7440-02-0	
Selenium	0.13J	mg/kg	0.17	0.049	1	12/10/19 08:23	12/12/19 21:35	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	12/10/19 08:23	12/12/19 21:35	7440-22-4	
Strontium	<0.16	mg/kg	0.53	0.16	1	12/10/19 08:23	12/12/19 21:35	7440-24-6	
Thallium	<0.013	mg/kg	0.097	0.013	1	12/10/19 08:23	12/12/19 21:35	7440-28-0	
Vanadium	<0.032	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 21:35	7440-62-2	
Zinc	5.7	mg/kg	4.5	1.4	1	12/10/19 08:23	12/12/19 21:35	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.25	mg/kg	0.025	0.0075	1		12/02/19 15:05	7439-97-6	J
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	80.4	%	0.10	0.10	1		11/19/19 09:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-F-DUP02-20190430 **Lab ID:** 40197844004 **Collected:** 04/30/19 00:00 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.095	0.020	1	12/10/19 08:23	12/12/19 21:42	7440-36-0	
Arsenic	<0.029	mg/kg	0.095	0.029	1	12/10/19 08:23	12/12/19 21:42	7440-38-2	
Barium	<0.029	mg/kg	0.095	0.029	1	12/10/19 08:23	12/12/19 21:42	7440-39-3	
Beryllium	<0.032	mg/kg	0.10	0.032	1	12/10/19 08:23	12/12/19 21:42	7440-41-7	
Boron	<0.66	mg/kg	2.2	0.66	1	12/10/19 08:23	12/12/19 21:42	7440-42-8	
Cadmium	<0.010	mg/kg	0.095	0.010	1	12/10/19 08:23	12/12/19 21:42	7440-43-9	
Calcium	67.5J	mg/kg	80.6	24.2	1	12/10/19 08:23	12/12/19 21:42	7440-70-2	
Chromium	<0.084	mg/kg	0.28	0.084	1	12/10/19 08:23	12/12/19 21:42	7440-47-3	
Cobalt	0.021J	mg/kg	0.095	0.018	1	12/10/19 08:23	12/12/19 21:42	7440-48-4	
Copper	0.32J	mg/kg	0.90	0.27	1	12/10/19 08:23	12/12/19 21:42	7440-50-8	
Lead	<0.029	mg/kg	0.095	0.029	1	12/10/19 08:23	12/12/19 21:42	7439-92-1	
Lithium	<0.020	mg/kg	0.095	0.020	1	12/10/19 08:23	12/12/19 21:42	7439-93-2	
Molybdenum	<0.034	mg/kg	0.11	0.034	1	12/10/19 08:23	12/12/19 21:42	7439-98-7	
Nickel	<0.039	mg/kg	0.13	0.039	1	12/10/19 08:23	12/12/19 21:42	7440-02-0	
Selenium	0.16J	mg/kg	0.16	0.048	1	12/10/19 08:23	12/12/19 21:42	7782-49-2	
Silver	<0.011	mg/kg	0.048	0.011	1	12/10/19 08:23	12/12/19 21:42	7440-22-4	
Strontium	<0.15	mg/kg	0.51	0.15	1	12/10/19 08:23	12/12/19 21:42	7440-24-6	
Thallium	<0.012	mg/kg	0.095	0.012	1	12/10/19 08:23	12/12/19 21:42	7440-28-0	
Vanadium	<0.032	mg/kg	0.10	0.032	1	12/10/19 08:23	12/12/19 21:42	7440-62-2	
Zinc	6.0	mg/kg	4.4	1.3	1	12/10/19 08:23	12/12/19 21:42	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.42	mg/kg	0.023	0.0070	1		12/02/19 15:16	7439-97-6	J
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	77.9	%	0.10	0.10	1		11/19/19 09:21		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-HRA1-O-20190507 **Lab ID:** 40197844005 **Collected:** 05/07/19 18:57 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.10	0.021	1	12/10/19 08:23	12/12/19 21:49	7440-36-0	
Arsenic	<0.030	mg/kg	0.10	0.030	1	12/10/19 08:23	12/12/19 21:49	7440-38-2	
Barium	0.13	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 21:49	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 21:49	7440-41-7	
Boron	<0.70	mg/kg	2.3	0.70	1	12/10/19 08:23	12/12/19 21:49	7440-42-8	
Cadmium	<0.011	mg/kg	0.10	0.011	1	12/10/19 08:23	12/12/19 21:49	7440-43-9	
Calcium	945	mg/kg	84.6	25.4	1	12/10/19 08:23	12/12/19 21:49	7440-70-2	
Chromium	<0.088	mg/kg	0.29	0.088	1	12/10/19 08:23	12/12/19 21:49	7440-47-3	
Cobalt	0.068J	mg/kg	0.10	0.019	1	12/10/19 08:23	12/12/19 21:49	7440-48-4	
Copper	1.0	mg/kg	0.95	0.28	1	12/10/19 08:23	12/12/19 21:49	7440-50-8	
Lead	<0.030	mg/kg	0.10	0.030	1	12/10/19 08:23	12/12/19 21:49	7439-92-1	
Lithium	<0.021	mg/kg	0.10	0.021	1	12/10/19 08:23	12/12/19 21:49	7439-93-2	
Molybdenum	<0.036	mg/kg	0.12	0.036	1	12/10/19 08:23	12/12/19 21:49	7439-98-7	
Nickel	<0.041	mg/kg	0.14	0.041	1	12/10/19 08:23	12/12/19 21:49	7440-02-0	
Selenium	0.89	mg/kg	0.17	0.051	1	12/10/19 08:23	12/12/19 21:49	7782-49-2	
Silver	<0.011	mg/kg	0.050	0.011	1	12/10/19 08:23	12/12/19 21:49	7440-22-4	
Strontium	1.6	mg/kg	0.54	0.16	1	12/10/19 08:23	12/12/19 21:49	7440-24-6	
Thallium	<0.013	mg/kg	0.10	0.013	1	12/10/19 08:23	12/12/19 21:49	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 21:49	7440-62-2	
Zinc	46.0	mg/kg	4.7	1.4	1	12/10/19 08:23	12/12/19 21:49	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.021J	mg/kg	0.024	0.0073	1		12/02/19 17:14	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	58.2	%	0.10	0.10	1		11/19/19 09:21		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-O-DUP02-20190430 Lab ID: 40197844006 Collected: 04/30/19 00:00 Received: 10/23/19 09:25 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.095	0.020	1	12/10/19 08:23	12/12/19 21:57	7440-36-0	
Arsenic	<0.029	mg/kg	0.095	0.029	1	12/10/19 08:23	12/12/19 21:57	7440-38-2	
Barium	0.19	mg/kg	0.095	0.029	1	12/10/19 08:23	12/12/19 21:57	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 21:57	7440-41-7	
Boron	<0.66	mg/kg	2.2	0.66	1	12/10/19 08:23	12/12/19 21:57	7440-42-8	
Cadmium	<0.010	mg/kg	0.095	0.010	1	12/10/19 08:23	12/12/19 21:57	7440-43-9	
Calcium	1060	mg/kg	80.2	24.0	1	12/10/19 08:23	12/12/19 21:57	7440-70-2	
Chromium	<0.084	mg/kg	0.27	0.084	1	12/10/19 08:23	12/12/19 21:57	7440-47-3	
Cobalt	0.065J	mg/kg	0.095	0.018	1	12/10/19 08:23	12/12/19 21:57	7440-48-4	
Copper	1.1	mg/kg	0.90	0.27	1	12/10/19 08:23	12/12/19 21:57	7440-50-8	
Lead	<0.028	mg/kg	0.095	0.028	1	12/10/19 08:23	12/12/19 21:57	7439-92-1	
Lithium	<0.020	mg/kg	0.095	0.020	1	12/10/19 08:23	12/12/19 21:57	7439-93-2	
Molybdenum	<0.034	mg/kg	0.11	0.034	1	12/10/19 08:23	12/12/19 21:57	7439-98-7	
Nickel	0.10J	mg/kg	0.13	0.039	1	12/10/19 08:23	12/12/19 21:57	7440-02-0	
Selenium	0.90	mg/kg	0.16	0.048	1	12/10/19 08:23	12/12/19 21:57	7782-49-2	
Silver	<0.011	mg/kg	0.047	0.011	1	12/10/19 08:23	12/12/19 21:57	7440-22-4	
Strontium	1.3	mg/kg	0.51	0.15	1	12/10/19 08:23	12/12/19 21:57	7440-24-6	
Thallium	<0.012	mg/kg	0.095	0.012	1	12/10/19 08:23	12/12/19 21:57	7440-28-0	
Vanadium	<0.032	mg/kg	0.10	0.032	1	12/10/19 08:23	12/12/19 21:57	7440-62-2	
Zinc	38.4	mg/kg	4.4	1.3	1	12/10/19 08:23	12/12/19 21:57	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.031	mg/kg	0.024	0.0071	1		12/02/19 17:25	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	59.9	%	0.10	0.10	1		11/19/19 09:21		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-HRA1-L-20190507 **Lab ID:** 40197844007 **Collected:** 05/07/19 18:57 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.095	0.020	1	12/10/19 08:23	12/12/19 22:04	7440-36-0	
Arsenic	<0.029	mg/kg	0.095	0.029	1	12/10/19 08:23	12/12/19 22:04	7440-38-2	
Barium	<0.029	mg/kg	0.095	0.029	1	12/10/19 08:23	12/12/19 22:04	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 22:04	7440-41-7	
Boron	<0.66	mg/kg	2.2	0.66	1	12/10/19 08:23	12/12/19 22:04	7440-42-8	
Cadmium	0.024J	mg/kg	0.095	0.010	1	12/10/19 08:23	12/12/19 22:04	7440-43-9	
Calcium	47.9J	mg/kg	80.0	24.0	1	12/10/19 08:23	12/12/19 22:04	7440-70-2	
Chromium	<0.084	mg/kg	0.27	0.084	1	12/10/19 08:23	12/12/19 22:04	7440-47-3	
Cobalt	0.12	mg/kg	0.095	0.018	1	12/10/19 08:23	12/12/19 22:04	7440-48-4	
Copper	1.6	mg/kg	0.90	0.27	1	12/10/19 08:23	12/12/19 22:04	7440-50-8	
Lead	0.053J	mg/kg	0.095	0.028	1	12/10/19 08:23	12/12/19 22:04	7439-92-1	
Lithium	<0.020	mg/kg	0.095	0.020	1	12/10/19 08:23	12/12/19 22:04	7439-93-2	
Molybdenum	0.13	mg/kg	0.11	0.034	1	12/10/19 08:23	12/12/19 22:04	7439-98-7	
Nickel	<0.039	mg/kg	0.13	0.039	1	12/10/19 08:23	12/12/19 22:04	7440-02-0	
Selenium	1.1	mg/kg	0.16	0.048	1	12/10/19 08:23	12/12/19 22:04	7782-49-2	
Silver	<0.011	mg/kg	0.047	0.011	1	12/10/19 08:23	12/12/19 22:04	7440-22-4	
Strontium	<0.15	mg/kg	0.51	0.15	1	12/10/19 08:23	12/12/19 22:04	7440-24-6	
Thallium	<0.012	mg/kg	0.095	0.012	1	12/10/19 08:23	12/12/19 22:04	7440-28-0	
Vanadium	0.21	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 22:04	7440-62-2	
Zinc	21.0	mg/kg	4.4	1.3	1	12/10/19 08:23	12/12/19 22:04	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.37	mg/kg	0.025	0.0074	1		12/02/19 17:37	7439-97-6	J
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	80.4	%	0.10	0.10	1		11/19/19 09:22		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-HRA2-L-20190611 **Lab ID:** 40197844008 **Collected:** 06/11/19 16:45 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.095	0.020	1	12/10/19 08:23	12/12/19 22:11	7440-36-0	
Arsenic	0.064J	mg/kg	0.095	0.029	1	12/10/19 08:23	12/12/19 22:11	7440-38-2	
Barium	<0.029	mg/kg	0.095	0.029	1	12/10/19 08:23	12/12/19 22:11	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 22:11	7440-41-7	
Boron	<0.66	mg/kg	2.2	0.66	1	12/10/19 08:23	12/12/19 22:11	7440-42-8	
Cadmium	0.077J	mg/kg	0.095	0.010	1	12/10/19 08:23	12/12/19 22:11	7440-43-9	
Calcium	48.4J	mg/kg	80.3	24.1	1	12/10/19 08:23	12/12/19 22:11	7440-70-2	
Chromium	<0.084	mg/kg	0.27	0.084	1	12/10/19 08:23	12/12/19 22:11	7440-47-3	
Cobalt	0.18	mg/kg	0.095	0.018	1	12/10/19 08:23	12/12/19 22:11	7440-48-4	
Copper	2.4	mg/kg	0.90	0.27	1	12/10/19 08:23	12/12/19 22:11	7440-50-8	
Lead	0.11	mg/kg	0.095	0.028	1	12/10/19 08:23	12/12/19 22:11	7439-92-1	
Lithium	<0.020	mg/kg	0.095	0.020	1	12/10/19 08:23	12/12/19 22:11	7439-93-2	
Molybdenum	0.19	mg/kg	0.11	0.034	1	12/10/19 08:23	12/12/19 22:11	7439-98-7	
Nickel	<0.039	mg/kg	0.13	0.039	1	12/10/19 08:23	12/12/19 22:11	7440-02-0	
Selenium	1.4	mg/kg	0.16	0.048	1	12/10/19 08:23	12/12/19 22:11	7782-49-2	
Silver	<0.011	mg/kg	0.047	0.011	1	12/10/19 08:23	12/12/19 22:11	7440-22-4	
Strontium	<0.15	mg/kg	0.51	0.15	1	12/10/19 08:23	12/12/19 22:11	7440-24-6	
Thallium	<0.012	mg/kg	0.095	0.012	1	12/10/19 08:23	12/12/19 22:11	7440-28-0	
Vanadium	0.62	mg/kg	0.10	0.032	1	12/10/19 08:23	12/12/19 22:11	7440-62-2	
Zinc	24.3	mg/kg	4.4	1.3	1	12/10/19 08:23	12/12/19 22:11	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.43	mg/kg	0.024	0.0073	1		12/02/19 17:48	7439-97-6	J
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	80.7	%	0.10	0.10	1		11/19/19 09:22		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-HRD-L-20190619 **Lab ID:** 40197844009 **Collected:** 06/19/19 14:40 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.098	0.021	1	12/10/19 08:23	12/12/19 22:18	7440-36-0	
Arsenic	0.079J	mg/kg	0.098	0.030	1	12/10/19 08:23	12/12/19 22:18	7440-38-2	
Barium	0.031J	mg/kg	0.098	0.030	1	12/10/19 08:23	12/12/19 22:18	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 22:18	7440-41-7	
Boron	<0.69	mg/kg	2.3	0.69	1	12/10/19 08:23	12/12/19 22:18	7440-42-8	
Cadmium	0.092J	mg/kg	0.098	0.011	1	12/10/19 08:23	12/12/19 22:18	7440-43-9	
Calcium	80.1J	mg/kg	83.3	25.0	1	12/10/19 08:23	12/12/19 22:18	7440-70-2	
Chromium	<0.087	mg/kg	0.29	0.087	1	12/10/19 08:23	12/12/19 22:18	7440-47-3	
Cobalt	0.20	mg/kg	0.098	0.019	1	12/10/19 08:23	12/12/19 22:18	7440-48-4	
Copper	2.9	mg/kg	0.94	0.28	1	12/10/19 08:23	12/12/19 22:18	7440-50-8	
Lead	0.20	mg/kg	0.098	0.030	1	12/10/19 08:23	12/12/19 22:18	7439-92-1	
Lithium	<0.021	mg/kg	0.098	0.021	1	12/10/19 08:23	12/12/19 22:18	7439-93-2	
Molybdenum	0.27	mg/kg	0.12	0.035	1	12/10/19 08:23	12/12/19 22:18	7439-98-7	
Nickel	<0.040	mg/kg	0.14	0.040	1	12/10/19 08:23	12/12/19 22:18	7440-02-0	
Selenium	1.4	mg/kg	0.17	0.050	1	12/10/19 08:23	12/12/19 22:18	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	12/10/19 08:23	12/12/19 22:18	7440-22-4	
Strontium	<0.16	mg/kg	0.53	0.16	1	12/10/19 08:23	12/12/19 22:18	7440-24-6	
Thallium	<0.013	mg/kg	0.098	0.013	1	12/10/19 08:23	12/12/19 22:18	7440-28-0	
Vanadium	0.73	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 22:18	7440-62-2	
Zinc	26.5	mg/kg	4.6	1.4	1	12/10/19 08:23	12/12/19 22:18	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.74	mg/kg	0.024	0.0070	1		12/02/19 17:59	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	78.8	%	0.10	0.10	1		11/19/19 09:22		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-HRU-L-20190430 **Lab ID:** 40197844010 **Collected:** 04/30/19 11:00 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.097	0.020	1	12/10/19 08:23	12/12/19 22:25	7440-36-0	
Arsenic	0.043J	mg/kg	0.097	0.029	1	12/10/19 08:23	12/12/19 22:25	7440-38-2	
Barium	<0.030	mg/kg	0.097	0.030	1	12/10/19 08:23	12/12/19 22:25	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 22:25	7440-41-7	
Boron	<0.68	mg/kg	2.3	0.68	1	12/10/19 08:23	12/12/19 22:25	7440-42-8	
Cadmium	0.027J	mg/kg	0.097	0.011	1	12/10/19 08:23	12/12/19 22:25	7440-43-9	
Calcium	51.2J	mg/kg	82.2	24.7	1	12/10/19 08:23	12/12/19 22:25	7440-70-2	
Chromium	<0.086	mg/kg	0.28	0.086	1	12/10/19 08:23	12/12/19 22:25	7440-47-3	
Cobalt	0.18	mg/kg	0.097	0.018	1	12/10/19 08:23	12/12/19 22:25	7440-48-4	
Copper	2.2	mg/kg	0.92	0.28	1	12/10/19 08:23	12/12/19 22:25	7440-50-8	
Lead	0.045J	mg/kg	0.097	0.029	1	12/10/19 08:23	12/12/19 22:25	7439-92-1	
Lithium	<0.021	mg/kg	0.097	0.021	1	12/10/19 08:23	12/12/19 22:25	7439-93-2	
Molybdenum	0.18	mg/kg	0.12	0.035	1	12/10/19 08:23	12/12/19 22:25	7439-98-7	
Nickel	<0.040	mg/kg	0.14	0.040	1	12/10/19 08:23	12/12/19 22:25	7440-02-0	
Selenium	1.5	mg/kg	0.17	0.049	1	12/10/19 08:23	12/12/19 22:25	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	12/10/19 08:23	12/12/19 22:25	7440-22-4	
Strontium	<0.16	mg/kg	0.52	0.16	1	12/10/19 08:23	12/12/19 22:25	7440-24-6	
Thallium	<0.013	mg/kg	0.097	0.013	1	12/10/19 08:23	12/12/19 22:25	7440-28-0	
Vanadium	0.20	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 22:25	7440-62-2	
Zinc	25.6	mg/kg	4.5	1.4	1	12/10/19 08:23	12/12/19 22:25	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.26	mg/kg	0.024	0.0073	1		12/02/19 18:11	7439-97-6	J
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	80.4	%	0.10	0.10	1		11/19/19 09:22		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-L-DUP01-20190507 **Lab ID:** 40197844011 **Collected:** 05/07/19 00:00 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.093	0.020	1	12/10/19 08:23	12/12/19 22:47	7440-36-0	
Arsenic	0.030J	mg/kg	0.093	0.028	1	12/10/19 08:23	12/12/19 22:47	7440-38-2	
Barium	<0.028	mg/kg	0.093	0.028	1	12/10/19 08:23	12/12/19 22:47	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 22:47	7440-41-7	
Boron	<0.65	mg/kg	2.2	0.65	1	12/10/19 08:23	12/12/19 22:47	7440-42-8	
Cadmium	0.053J	mg/kg	0.093	0.010	1	12/10/19 08:23	12/12/19 22:47	7440-43-9	
Calcium	35.1J	mg/kg	78.8	23.6	1	12/10/19 08:23	12/12/19 22:47	7440-70-2	
Chromium	<0.082	mg/kg	0.27	0.082	1	12/10/19 08:23	12/12/19 22:47	7440-47-3	
Cobalt	0.16	mg/kg	0.093	0.018	1	12/10/19 08:23	12/12/19 22:47	7440-48-4	
Copper	2.3	mg/kg	0.88	0.26	1	12/10/19 08:23	12/12/19 22:47	7440-50-8	
Lead	0.079J	mg/kg	0.093	0.028	1	12/10/19 08:23	12/12/19 22:47	7439-92-1	
Lithium	<0.020	mg/kg	0.093	0.020	1	12/10/19 08:23	12/12/19 22:47	7439-93-2	
Molybdenum	0.15	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 22:47	7439-98-7	
Nickel	<0.038	mg/kg	0.13	0.038	1	12/10/19 08:23	12/12/19 22:47	7440-02-0	
Selenium	1.3	mg/kg	0.16	0.047	1	12/10/19 08:23	12/12/19 22:47	7782-49-2	
Silver	<0.010	mg/kg	0.047	0.010	1	12/10/19 08:23	12/12/19 22:47	7440-22-4	
Strontium	<0.15	mg/kg	0.50	0.15	1	12/10/19 08:23	12/12/19 22:47	7440-24-6	
Thallium	0.012J	mg/kg	0.093	0.012	1	12/10/19 08:23	12/12/19 22:47	7440-28-0	
Vanadium	0.40	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 22:47	7440-62-2	
Zinc	22.4	mg/kg	4.3	1.3	1	12/10/19 08:23	12/12/19 22:47	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.44	mg/kg	0.025	0.0076	1		12/02/19 19:00	7439-97-6	J
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	79.9	%	0.10	0.10	1		11/19/19 09:22		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-CC-L-DUP02-20190430 Lab ID: 40197844012 Collected: 04/30/19 00:00 Received: 10/23/19 09:25 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.094	0.020	1	12/10/19 08:23	12/12/19 22:54	7440-36-0	
Arsenic	0.036J	mg/kg	0.094	0.028	1	12/10/19 08:23	12/12/19 22:54	7440-38-2	
Barium	<0.029	mg/kg	0.094	0.029	1	12/10/19 08:23	12/12/19 22:54	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 22:54	7440-41-7	
Boron	<0.65	mg/kg	2.2	0.65	1	12/10/19 08:23	12/12/19 22:54	7440-42-8	
Cadmium	0.029J	mg/kg	0.094	0.010	1	12/10/19 08:23	12/12/19 22:54	7440-43-9	
Calcium	49.0J	mg/kg	79.4	23.8	1	12/10/19 08:23	12/12/19 22:54	7440-70-2	
Chromium	<0.083	mg/kg	0.27	0.083	1	12/10/19 08:23	12/12/19 22:54	7440-47-3	
Cobalt	0.11	mg/kg	0.094	0.018	1	12/10/19 08:23	12/12/19 22:54	7440-48-4	
Copper	1.8	mg/kg	0.89	0.27	1	12/10/19 08:23	12/12/19 22:54	7440-50-8	
Lead	0.050J	mg/kg	0.094	0.028	1	12/10/19 08:23	12/12/19 22:54	7439-92-1	
Lithium	<0.020	mg/kg	0.094	0.020	1	12/10/19 08:23	12/12/19 22:54	7439-93-2	
Molybdenum	0.16	mg/kg	0.11	0.034	1	12/10/19 08:23	12/12/19 22:54	7439-98-7	
Nickel	<0.039	mg/kg	0.13	0.039	1	12/10/19 08:23	12/12/19 22:54	7440-02-0	
Selenium	1.3	mg/kg	0.16	0.048	1	12/10/19 08:23	12/12/19 22:54	7782-49-2	
Silver	<0.011	mg/kg	0.047	0.011	1	12/10/19 08:23	12/12/19 22:54	7440-22-4	
Strontium	<0.15	mg/kg	0.51	0.15	1	12/10/19 08:23	12/12/19 22:54	7440-24-6	
Thallium	<0.012	mg/kg	0.094	0.012	1	12/10/19 08:23	12/12/19 22:54	7440-28-0	
Vanadium	0.27	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 22:54	7440-62-2	
Zinc	21.2	mg/kg	4.4	1.3	1	12/10/19 08:23	12/12/19 22:54	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	1.0	mg/kg	0.025	0.0076	1		12/02/19 19:11	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	81.5	%	0.10	0.10	1		11/19/19 09:23		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-SB-HRA1-F-20190409 **Lab ID:** 40197844013 **Collected:** 04/09/19 13:45 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.099	0.021	1	12/10/19 08:23	12/12/19 23:02	7440-36-0	
Arsenic	0.24	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 23:02	7440-38-2	
Barium	<0.030	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 23:02	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 23:02	7440-41-7	
Boron	<0.69	mg/kg	2.3	0.69	1	12/10/19 08:23	12/12/19 23:02	7440-42-8	
Cadmium	<0.011	mg/kg	0.099	0.011	1	12/10/19 08:23	12/12/19 23:02	7440-43-9	
Calcium	146	mg/kg	83.5	25.0	1	12/10/19 08:23	12/12/19 23:02	7440-70-2	
Chromium	<0.087	mg/kg	0.29	0.087	1	12/10/19 08:23	12/12/19 23:02	7440-47-3	
Cobalt	<0.019	mg/kg	0.099	0.019	1	12/10/19 08:23	12/12/19 23:02	7440-48-4	
Copper	0.35J	mg/kg	0.94	0.28	1	12/10/19 08:23	12/12/19 23:02	7440-50-8	
Lead	<0.030	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 23:02	7439-92-1	
Lithium	<0.021	mg/kg	0.099	0.021	1	12/10/19 08:23	12/12/19 23:02	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	12/10/19 08:23	12/12/19 23:02	7439-98-7	
Nickel	0.050J	mg/kg	0.14	0.041	1	12/10/19 08:23	12/12/19 23:02	7440-02-0	
Selenium	0.26	mg/kg	0.17	0.050	1	12/10/19 08:23	12/12/19 23:02	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	12/10/19 08:23	12/12/19 23:02	7440-22-4	
Strontium	<0.16	mg/kg	0.53	0.16	1	12/10/19 08:23	12/12/19 23:02	7440-24-6	
Thallium	<0.013	mg/kg	0.099	0.013	1	12/10/19 08:23	12/12/19 23:02	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 23:02	7440-62-2	
Zinc	3.3J	mg/kg	4.6	1.4	1	12/10/19 08:23	12/12/19 23:02	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.59	mg/kg	0.024	0.0072	1		12/02/19 15:28	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	79.6	%	0.10	0.10	1		11/19/19 09:23		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-LB-HRA2-F-20190409 **Lab ID:** 40197844014 **Collected:** 04/09/19 17:05 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.096	0.020	1	12/10/19 08:23	12/12/19 23:09	7440-36-0	
Arsenic	0.14	mg/kg	0.096	0.029	1	12/10/19 08:23	12/12/19 23:09	7440-38-2	
Barium	<0.029	mg/kg	0.096	0.029	1	12/10/19 08:23	12/12/19 23:09	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 23:09	7440-41-7	
Boron	<0.67	mg/kg	2.2	0.67	1	12/10/19 08:23	12/12/19 23:09	7440-42-8	
Cadmium	<0.011	mg/kg	0.096	0.011	1	12/10/19 08:23	12/12/19 23:09	7440-43-9	
Calcium	91.4	mg/kg	81.4	24.4	1	12/10/19 08:23	12/12/19 23:09	7440-70-2	
Chromium	<0.085	mg/kg	0.28	0.085	1	12/10/19 08:23	12/12/19 23:09	7440-47-3	
Cobalt	<0.018	mg/kg	0.096	0.018	1	12/10/19 08:23	12/12/19 23:09	7440-48-4	
Copper	<0.27	mg/kg	0.91	0.27	1	12/10/19 08:23	12/12/19 23:09	7440-50-8	
Lead	<0.029	mg/kg	0.096	0.029	1	12/10/19 08:23	12/12/19 23:09	7439-92-1	
Lithium	<0.020	mg/kg	0.096	0.020	1	12/10/19 08:23	12/12/19 23:09	7439-93-2	
Molybdenum	<0.034	mg/kg	0.12	0.034	1	12/10/19 08:23	12/12/19 23:09	7439-98-7	
Nickel	0.12J	mg/kg	0.13	0.040	1	12/10/19 08:23	12/12/19 23:09	7440-02-0	
Selenium	0.18	mg/kg	0.16	0.049	1	12/10/19 08:23	12/12/19 23:09	7782-49-2	
Silver	<0.011	mg/kg	0.048	0.011	1	12/10/19 08:23	12/12/19 23:09	7440-22-4	
Strontium	<0.15	mg/kg	0.52	0.15	1	12/10/19 08:23	12/12/19 23:09	7440-24-6	
Thallium	<0.012	mg/kg	0.096	0.012	1	12/10/19 08:23	12/12/19 23:09	7440-28-0	
Vanadium	<0.032	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 23:09	7440-62-2	
Zinc	4.5	mg/kg	4.5	1.3	1	12/10/19 08:23	12/12/19 23:09	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.54	mg/kg	0.024	0.0072	1		12/02/19 15:39	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	81.2	%	0.10	0.10	1		11/19/19 09:23		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-LB-HRD-F-20190410 **Lab ID:** 40197844015 **Collected:** 04/10/19 13:15 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.099	0.021	1	12/10/19 08:23	12/12/19 23:16	7440-36-0	
Arsenic	0.13	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 23:16	7440-38-2	
Barium	<0.030	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 23:16	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 23:16	7440-41-7	
Boron	<0.69	mg/kg	2.3	0.69	1	12/10/19 08:23	12/12/19 23:16	7440-42-8	
Cadmium	<0.011	mg/kg	0.099	0.011	1	12/10/19 08:23	12/12/19 23:16	7440-43-9	
Calcium	155	mg/kg	84.2	25.3	1	12/10/19 08:23	12/12/19 23:16	7440-70-2	
Chromium	0.098J	mg/kg	0.29	0.088	1	12/10/19 08:23	12/12/19 23:16	7440-47-3	
Cobalt	<0.019	mg/kg	0.099	0.019	1	12/10/19 08:23	12/12/19 23:16	7440-48-4	
Copper	0.41J	mg/kg	0.94	0.28	1	12/10/19 08:23	12/12/19 23:16	7440-50-8	
Lead	<0.030	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 23:16	7439-92-1	
Lithium	<0.021	mg/kg	0.099	0.021	1	12/10/19 08:23	12/12/19 23:16	7439-93-2	
Molybdenum	<0.036	mg/kg	0.12	0.036	1	12/10/19 08:23	12/12/19 23:16	7439-98-7	
Nickel	0.058J	mg/kg	0.14	0.041	1	12/10/19 08:23	12/12/19 23:16	7440-02-0	
Selenium	0.23	mg/kg	0.17	0.050	1	12/10/19 08:23	12/12/19 23:16	7782-49-2	
Silver	<0.011	mg/kg	0.050	0.011	1	12/10/19 08:23	12/12/19 23:16	7440-22-4	
Strontium	<0.16	mg/kg	0.54	0.16	1	12/10/19 08:23	12/12/19 23:16	7440-24-6	
Thallium	<0.013	mg/kg	0.099	0.013	1	12/10/19 08:23	12/12/19 23:16	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 23:16	7440-62-2	
Zinc	3.9J	mg/kg	4.6	1.4	1	12/10/19 08:23	12/12/19 23:16	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.70	mg/kg	0.025	0.0076	1		12/02/19 16:28	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	81.4	%	0.10	0.10	1		11/19/19 09:23		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-LB-HRU-F-20190409 **Lab ID:** 40197844016 **Collected:** 04/09/19 14:12 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.097	0.020	1	12/10/19 08:23	12/12/19 23:23	7440-36-0	
Arsenic	<0.029	mg/kg	0.097	0.029	1	12/10/19 08:23	12/12/19 23:23	7440-38-2	
Barium	<0.030	mg/kg	0.097	0.030	1	12/10/19 08:23	12/12/19 23:23	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 23:23	7440-41-7	
Boron	<0.68	mg/kg	2.3	0.68	1	12/10/19 08:23	12/12/19 23:23	7440-42-8	
Cadmium	<0.011	mg/kg	0.097	0.011	1	12/10/19 08:23	12/12/19 23:23	7440-43-9	
Calcium	245	mg/kg	82.3	24.7	1	12/10/19 08:23	12/12/19 23:23	7440-70-2	
Chromium	<0.086	mg/kg	0.28	0.086	1	12/10/19 08:23	12/12/19 23:23	7440-47-3	
Cobalt	<0.018	mg/kg	0.097	0.018	1	12/10/19 08:23	12/12/19 23:23	7440-48-4	
Copper	0.28J	mg/kg	0.92	0.28	1	12/10/19 08:23	12/12/19 23:23	7440-50-8	
Lead	<0.029	mg/kg	0.097	0.029	1	12/10/19 08:23	12/12/19 23:23	7439-92-1	
Lithium	<0.021	mg/kg	0.097	0.021	1	12/10/19 08:23	12/12/19 23:23	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	12/10/19 08:23	12/12/19 23:23	7439-98-7	
Nickel	0.047J	mg/kg	0.14	0.040	1	12/10/19 08:23	12/12/19 23:23	7440-02-0	
Selenium	0.24	mg/kg	0.17	0.049	1	12/10/19 08:23	12/12/19 23:23	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	12/10/19 08:23	12/12/19 23:23	7440-22-4	
Strontium	0.20J	mg/kg	0.52	0.16	1	12/10/19 08:23	12/12/19 23:23	7440-24-6	
Thallium	<0.013	mg/kg	0.097	0.013	1	12/10/19 08:23	12/12/19 23:23	7440-28-0	
Vanadium	<0.032	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 23:23	7440-62-2	
Zinc	4.1J	mg/kg	4.5	1.4	1	12/10/19 08:23	12/12/19 23:23	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.79	mg/kg	0.024	0.0073	1		12/02/19 16:39	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	81.0	%	0.10	0.10	1		11/19/19 09:23		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-LB-F-DUP01-20190410 Lab ID: 40197844017 Collected: 04/10/19 00:00 Received: 10/23/19 09:25 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.097	0.020	1	12/10/19 08:23	12/12/19 23:31	7440-36-0	
Arsenic	0.17	mg/kg	0.097	0.029	1	12/10/19 08:23	12/12/19 23:31	7440-38-2	
Barium	<0.030	mg/kg	0.097	0.030	1	12/10/19 08:23	12/12/19 23:31	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 23:31	7440-41-7	
Boron	<0.67	mg/kg	2.2	0.67	1	12/10/19 08:23	12/12/19 23:31	7440-42-8	
Cadmium	<0.011	mg/kg	0.097	0.011	1	12/10/19 08:23	12/12/19 23:31	7440-43-9	
Calcium	178	mg/kg	81.7	24.5	1	12/10/19 08:23	12/12/19 23:31	7440-70-2	
Chromium	<0.085	mg/kg	0.28	0.085	1	12/10/19 08:23	12/12/19 23:31	7440-47-3	
Cobalt	<0.018	mg/kg	0.097	0.018	1	12/10/19 08:23	12/12/19 23:31	7440-48-4	
Copper	<0.27	mg/kg	0.92	0.27	1	12/10/19 08:23	12/12/19 23:31	7440-50-8	
Lead	<0.029	mg/kg	0.097	0.029	1	12/10/19 08:23	12/12/19 23:31	7439-92-1	
Lithium	<0.021	mg/kg	0.097	0.021	1	12/10/19 08:23	12/12/19 23:31	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	12/10/19 08:23	12/12/19 23:31	7439-98-7	
Nickel	<0.040	mg/kg	0.14	0.040	1	12/10/19 08:23	12/12/19 23:31	7440-02-0	
Selenium	0.23	mg/kg	0.16	0.049	1	12/10/19 08:23	12/12/19 23:31	7782-49-2	
Silver	<0.011	mg/kg	0.048	0.011	1	12/10/19 08:23	12/12/19 23:31	7440-22-4	
Strontium	<0.16	mg/kg	0.52	0.16	1	12/10/19 08:23	12/12/19 23:31	7440-24-6	
Thallium	<0.013	mg/kg	0.097	0.013	1	12/10/19 08:23	12/12/19 23:31	7440-28-0	
Vanadium	<0.032	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 23:31	7440-62-2	
Zinc	4.4J	mg/kg	4.5	1.3	1	12/10/19 08:23	12/12/19 23:31	7440-66-6	
7473 Mercury, Tissue Analytical Method: EPA 7473									
Mercury	0.58	mg/kg	0.023	0.0070	1		12/02/19 16:51	7439-97-6	
Percent Moisture Reportable Analytical Method: ASTM D2974-87									
Percent Moisture	80.6	%	0.10	0.10	1		11/19/19 09:24		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-LB-F-DUP02-20190409 **Lab ID:** 40197844018 **Collected:** 04/09/19 00:00 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.020	mg/kg	0.098	0.020	1	12/10/19 08:23	12/12/19 23:38	7440-36-0	
Arsenic	<0.029	mg/kg	0.098	0.029	1	12/10/19 08:23	12/12/19 23:38	7440-38-2	
Barium	<0.030	mg/kg	0.098	0.030	1	12/10/19 08:23	12/12/19 23:38	7440-39-3	
Beryllium	<0.032	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 23:38	7440-41-7	
Boron	<0.68	mg/kg	2.3	0.68	1	12/10/19 08:23	12/12/19 23:38	7440-42-8	
Cadmium	<0.011	mg/kg	0.098	0.011	1	12/10/19 08:23	12/12/19 23:38	7440-43-9	
Calcium	211	mg/kg	82.6	24.8	1	12/10/19 08:23	12/12/19 23:38	7440-70-2	
Chromium	<0.086	mg/kg	0.28	0.086	1	12/10/19 08:23	12/12/19 23:38	7440-47-3	
Cobalt	<0.019	mg/kg	0.098	0.019	1	12/10/19 08:23	12/12/19 23:38	7440-48-4	
Copper	<0.28	mg/kg	0.93	0.28	1	12/10/19 08:23	12/12/19 23:38	7440-50-8	
Lead	<0.029	mg/kg	0.098	0.029	1	12/10/19 08:23	12/12/19 23:38	7439-92-1	
Lithium	<0.021	mg/kg	0.098	0.021	1	12/10/19 08:23	12/12/19 23:38	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	12/10/19 08:23	12/12/19 23:38	7439-98-7	
Nickel	<0.040	mg/kg	0.14	0.040	1	12/10/19 08:23	12/12/19 23:38	7440-02-0	
Selenium	0.22	mg/kg	0.17	0.049	1	12/10/19 08:23	12/12/19 23:38	7782-49-2	
Silver	<0.011	mg/kg	0.049	0.011	1	12/10/19 08:23	12/12/19 23:38	7440-22-4	
Strontium	0.18J	mg/kg	0.53	0.16	1	12/10/19 08:23	12/12/19 23:38	7440-24-6	
Thallium	<0.013	mg/kg	0.098	0.013	1	12/10/19 08:23	12/12/19 23:38	7440-28-0	
Vanadium	<0.032	mg/kg	0.11	0.032	1	12/10/19 08:23	12/12/19 23:38	7440-62-2	
Zinc	4.3J	mg/kg	4.5	1.4	1	12/10/19 08:23	12/12/19 23:38	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.74	mg/kg	0.025	0.0074	1		12/02/19 17:02	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	81.7	%	0.10	0.10	1		11/19/19 09:24		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-SB-HRA1-O-20190409 **Lab ID:** 40197844019 **Collected:** 04/09/19 13:45 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.099	0.021	1	12/10/19 08:23	12/12/19 23:45	7440-36-0	
Arsenic	0.52	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 23:45	7440-38-2	
Barium	0.032J	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 23:45	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 23:45	7440-41-7	
Boron	<0.69	mg/kg	2.3	0.69	1	12/10/19 08:23	12/12/19 23:45	7440-42-8	
Cadmium	<0.011	mg/kg	0.099	0.011	1	12/10/19 08:23	12/12/19 23:45	7440-43-9	
Calcium	66.1J	mg/kg	83.9	25.2	1	12/10/19 08:23	12/12/19 23:45	7440-70-2	
Chromium	<0.088	mg/kg	0.29	0.088	1	12/10/19 08:23	12/12/19 23:45	7440-47-3	
Cobalt	0.021J	mg/kg	0.099	0.019	1	12/10/19 08:23	12/12/19 23:45	7440-48-4	
Copper	1.3	mg/kg	0.94	0.28	1	12/10/19 08:23	12/12/19 23:45	7440-50-8	
Lead	<0.030	mg/kg	0.099	0.030	1	12/10/19 08:23	12/12/19 23:45	7439-92-1	
Lithium	<0.021	mg/kg	0.099	0.021	1	12/10/19 08:23	12/12/19 23:45	7439-93-2	
Molybdenum	<0.035	mg/kg	0.12	0.035	1	12/10/19 08:23	12/12/19 23:45	7439-98-7	
Nickel	0.042J	mg/kg	0.14	0.041	1	12/10/19 08:23	12/12/19 23:45	7440-02-0	
Selenium	0.66	mg/kg	0.17	0.050	1	12/10/19 08:23	12/12/19 23:45	7782-49-2	
Silver	<0.011	mg/kg	0.050	0.011	1	12/10/19 08:23	12/12/19 23:45	7440-22-4	
Strontium	<0.16	mg/kg	0.54	0.16	1	12/10/19 08:23	12/12/19 23:45	7440-24-6	
Thallium	<0.013	mg/kg	0.099	0.013	1	12/10/19 08:23	12/12/19 23:45	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 23:45	7440-62-2	
Zinc	31.0	mg/kg	4.6	1.4	1	12/10/19 08:23	12/12/19 23:45	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.025J	mg/kg	0.025	0.0075	1		12/02/19 19:26	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	59.5	%	0.10	0.10	1		11/19/19 09:24		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: JSF-FH-LB-HRA2-O-20190409 **Lab ID:** 40197844020 **Collected:** 04/09/19 17:05 **Received:** 10/23/19 09:25 **Matrix:** Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.019	mg/kg	0.093	0.019	1	12/10/19 08:23	12/12/19 23:52	7440-36-0	
Arsenic	0.26	mg/kg	0.093	0.028	1	12/10/19 08:23	12/12/19 23:52	7440-38-2	
Barium	<0.028	mg/kg	0.093	0.028	1	12/10/19 08:23	12/12/19 23:52	7440-39-3	
Beryllium	<0.031	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 23:52	7440-41-7	
Boron	<0.65	mg/kg	2.2	0.65	1	12/10/19 08:23	12/12/19 23:52	7440-42-8	
Cadmium	<0.010	mg/kg	0.093	0.010	1	12/10/19 08:23	12/12/19 23:52	7440-43-9	
Calcium	97.1	mg/kg	78.4	23.5	1	12/10/19 08:23	12/12/19 23:52	7440-70-2	
Chromium	<0.082	mg/kg	0.27	0.082	1	12/10/19 08:23	12/12/19 23:52	7440-47-3	
Cobalt	0.057J	mg/kg	0.093	0.018	1	12/10/19 08:23	12/12/19 23:52	7440-48-4	
Copper	1.6	mg/kg	0.88	0.26	1	12/10/19 08:23	12/12/19 23:52	7440-50-8	
Lead	<0.028	mg/kg	0.093	0.028	1	12/10/19 08:23	12/12/19 23:52	7439-92-1	
Lithium	<0.020	mg/kg	0.093	0.020	1	12/10/19 08:23	12/12/19 23:52	7439-93-2	
Molybdenum	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 23:52	7439-98-7	
Nickel	0.040J	mg/kg	0.13	0.038	1	12/10/19 08:23	12/12/19 23:52	7440-02-0	
Selenium	0.68	mg/kg	0.16	0.047	1	12/10/19 08:23	12/12/19 23:52	7782-49-2	
Silver	<0.010	mg/kg	0.046	0.010	1	12/10/19 08:23	12/12/19 23:52	7440-22-4	
Strontium	0.16J	mg/kg	0.50	0.15	1	12/10/19 08:23	12/12/19 23:52	7440-24-6	
Thallium	<0.012	mg/kg	0.093	0.012	1	12/10/19 08:23	12/12/19 23:52	7440-28-0	
Vanadium	<0.031	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 23:52	7440-62-2	
Zinc	34.4	mg/kg	4.3	1.3	1	12/10/19 08:23	12/12/19 23:52	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	0.024	mg/kg	0.023	0.0070	1		12/02/19 19:37	7439-97-6	
Percent Moisture Reportable									
Analytical Method: ASTM D2974-87									
Percent Moisture	67.7	%	0.10	0.10	1		11/19/19 09:24		

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ANALYTICAL RESULTS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Sample: RINSE BLANK-A 11-19-19 Lab ID: 40197844021 Collected: 11/19/19 00:00 Received: 11/20/19 11:09 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050B									
Antimony	<0.021	mg/kg	0.10	0.021	1	12/10/19 08:23	12/12/19 20:01	7440-36-0	
Arsenic	<0.030	mg/kg	0.10	0.030	1	12/10/19 08:23	12/12/19 20:01	7440-38-2	
Barium	<0.031	mg/kg	0.10	0.031	1	12/10/19 08:23	12/12/19 20:01	7440-39-3	
Beryllium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 20:01	7440-41-7	
Boron	<0.70	mg/kg	2.3	0.70	1	12/10/19 08:23	12/12/19 20:01	7440-42-8	
Cadmium	<0.011	mg/kg	0.10	0.011	1	12/10/19 08:23	12/12/19 20:01	7440-43-9	
Calcium	<25.3	mg/kg	84.4	25.3	1	12/10/19 08:23	12/12/19 20:01	7440-70-2	
Chromium	<0.088	mg/kg	0.29	0.088	1	12/10/19 08:23	12/12/19 20:01	7440-47-3	
Cobalt	<0.019	mg/kg	0.10	0.019	1	12/10/19 08:23	12/12/19 20:01	7440-48-4	
Copper	<0.28	mg/kg	0.95	0.28	1	12/10/19 08:23	12/12/19 20:01	7440-50-8	
Lead	<0.030	mg/kg	0.10	0.030	1	12/10/19 08:23	12/12/19 20:01	7439-92-1	
Lithium	0.024J	mg/kg	0.10	0.021	1	12/10/19 08:23	12/12/19 20:01	7439-93-2	
Molybdenum	<0.036	mg/kg	0.12	0.036	1	12/10/19 08:23	12/12/19 20:01	7439-98-7	
Nickel	0.080J	mg/kg	0.14	0.041	1	12/10/19 08:23	12/12/19 20:01	7440-02-0	
Selenium	<0.051	mg/kg	0.17	0.051	1	12/10/19 08:23	12/12/19 20:01	7782-49-2	
Silver	<0.011	mg/kg	0.050	0.011	1	12/10/19 08:23	12/12/19 20:01	7440-22-4	
Strontium	<0.16	mg/kg	0.54	0.16	1	12/10/19 08:23	12/12/19 20:01	7440-24-6	
Thallium	<0.013	mg/kg	0.10	0.013	1	12/10/19 08:23	12/12/19 20:01	7440-28-0	
Vanadium	<0.033	mg/kg	0.11	0.033	1	12/10/19 08:23	12/12/19 20:01	7440-62-2	
Zinc	<1.4	mg/kg	4.6	1.4	1	12/10/19 08:23	12/12/19 20:01	7440-66-6	
7473 Mercury, Tissue									
Analytical Method: EPA 7473									
Mercury	<0.0076	mg/kg	0.025	0.0076	1		12/02/19 19:49	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

QC Batch:	342142	Analysis Method:	EPA 7473
QC Batch Method:	EPA 7473	Analysis Description:	7473 Mercury
Associated Lab Samples:	40197844001, 40197844002, 40197844003, 40197844004, 40197844005, 40197844006, 40197844007, 40197844008, 40197844009, 40197844010, 40197844011, 40197844012, 40197844013, 40197844014, 40197844015, 40197844016, 40197844017, 40197844018, 40197844019, 40197844020, 40197844021		

METHOD BLANK: 1987220

Matrix: Tissue

Associated Lab Samples: 40197844001, 40197844002, 40197844003, 40197844004, 40197844005, 40197844006, 40197844007, 40197844008, 40197844009, 40197844010, 40197844011, 40197844012, 40197844013, 40197844014, 40197844015, 40197844016, 40197844017, 40197844018, 40197844019, 40197844020, 40197844021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0076	0.025	0.0076	12/02/19 13:17	

LABORATORY CONTROL SAMPLE: 1987221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.25	0.29	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987222 1987223

Parameter	Units	40197844001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.070	0.14	0.14	0.44	0.44	257	260	80-120	1	20	M0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

QC Batch:	342862	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3050B	Analysis Description:	6020 MET TISSUE
Associated Lab Samples:	40197844001, 40197844002, 40197844003, 40197844004, 40197844005, 40197844006, 40197844007, 40197844008, 40197844009, 40197844010, 40197844011, 40197844012, 40197844013, 40197844014, 40197844015, 40197844016, 40197844017, 40197844018, 40197844019, 40197844020, 40197844021		

METHOD BLANK: 1991164

Matrix: Tissue

Associated Lab Samples: 40197844001, 40197844002, 40197844003, 40197844004, 40197844005, 40197844006, 40197844007, 40197844008, 40197844009, 40197844010, 40197844011, 40197844012, 40197844013, 40197844014, 40197844015, 40197844016, 40197844017, 40197844018, 40197844019, 40197844020, 40197844021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.021	0.10	0.021	12/12/19 19:54	
Arsenic	mg/kg	<0.030	0.10	0.030	12/12/19 19:54	
Barium	mg/kg	<0.031	0.10	0.031	12/12/19 19:54	
Beryllium	mg/kg	<0.033	0.11	0.033	12/12/19 19:54	
Boron	mg/kg	<0.70	2.3	0.70	12/12/19 19:54	
Cadmium	mg/kg	<0.011	0.10	0.011	12/12/19 19:54	
Calcium	mg/kg	<25.4	84.7	25.4	12/12/19 19:54	
Chromium	mg/kg	<0.088	0.29	0.088	12/12/19 19:54	
Cobalt	mg/kg	<0.019	0.10	0.019	12/12/19 19:54	
Copper	mg/kg	<0.28	0.95	0.28	12/12/19 19:54	
Lead	mg/kg	<0.030	0.10	0.030	12/12/19 19:54	
Lithium	mg/kg	<0.021	0.10	0.021	12/12/19 19:54	
Molybdenum	mg/kg	<0.036	0.12	0.036	12/12/19 19:54	
Nickel	mg/kg	<0.041	0.14	0.041	12/12/19 19:54	
Selenium	mg/kg	<0.051	0.17	0.051	12/12/19 19:54	
Silver	mg/kg	<0.011	0.050	0.011	12/12/19 19:54	
Strontium	mg/kg	<0.16	0.54	0.16	12/12/19 19:54	
Thallium	mg/kg	<0.013	0.10	0.013	12/12/19 19:54	
Vanadium	mg/kg	<0.033	0.11	0.033	12/12/19 19:54	
Zinc	mg/kg	<1.4	4.7	1.4	12/12/19 19:54	

LABORATORY CONTROL SAMPLE: 1991166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	5	5.4	108	80-120	
Arsenic	mg/kg	5	4.9	99	80-120	
Barium	mg/kg	5	4.9	99	80-120	
Beryllium	mg/kg	5	4.6	92	80-120	
Boron	mg/kg	10	9.6	96	80-120	
Cadmium	mg/kg	5	5.3	105	80-120	
Calcium	mg/kg	250	240	96	80-120	
Chromium	mg/kg	5	4.7	94	80-120	
Cobalt	mg/kg	5	4.8	97	80-120	
Copper	mg/kg	5	4.7	93	80-120	
Lead	mg/kg	5	5.0	99	80-120	
Lithium	mg/kg	5	4.6	91	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

LABORATORY CONTROL SAMPLE: 1991166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum	mg/kg	5	4.8	96	80-120	
Nickel	mg/kg	5	4.8	96	80-120	
Selenium	mg/kg	5	5.3	106	80-120	
Silver	mg/kg	2.5	2.7	107	80-120	
Strontium	mg/kg	5	5.0	100	80-120	
Thallium	mg/kg	5	5.0	99	80-120	
Vanadium	mg/kg	5	5.0	101	80-120	
Zinc	mg/kg	20	18.2	91	80-120	

LABORATORY CONTROL SAMPLE: 1991167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	59.5	68.5	115	80-126	
Cadmium	mg/kg	42.3	41.2	97	80-120	
Chromium	mg/kg	2	1.2	62	13-93	
Cobalt	mg/kg	1.1	0.99	93	80-120	
Copper	mg/kg	497	418	84	77-120	
Lead	mg/kg	0.22	0.21	93	79-120	
Molybdenum	mg/kg	3.4	3.0	88	80-120	
Nickel	mg/kg	5.3	4.4	83	76-120	
Selenium	mg/kg	10.9	11.9	109	80-130	
Strontium	mg/kg	36.5	31.0	85	79-120	
Vanadium	mg/kg	9.1	8.8	96	80-120	
Zinc	mg/kg	136	134	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1991168 1991169

Parameter	Units	40197844001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Conc.	% Rec	% Rec	% Rec	% Rec				
Antimony	mg/kg	<0.021		5	5	5.5	5.4	111	108	75-125	3	20			
Arsenic	mg/kg	0.083J		5	5	5.2	5.1	102	100	75-125	1	20			
Barium	mg/kg	<0.031		5	5	5.1	5.1	102	102	75-125	0	20			
Beryllium	mg/kg	<0.033		5	5	4.7	4.8	94	95	75-125	2	20			
Boron	mg/kg	<0.70		10	10	9.4	9.7	93	96	75-125	3	20			
Cadmium	mg/kg	0.039J		5	5	5.4	5.3	107	106	75-125	1	20			
Calcium	mg/kg	96.3		250	250	334	559	95	185	75-125	50	20	M0, R1		
Chromium	mg/kg	<0.088		5	5	5.0	5.0	99	99	75-125	0	20			
Cobalt	mg/kg	<0.019		5	5	5.0	5.0	99	100	75-125	0	20			
Copper	mg/kg	0.72J		5	5	5.2	5.4	90	93	75-125	2	20			
Lead	mg/kg	<0.030		5	5	5.1	5.1	102	103	75-125	1	20			
Lithium	mg/kg	<0.021		5	5	4.7	4.8	94	97	75-125	3	20			
Molybdenum	mg/kg	<0.036		5	5	4.8	4.8	95	96	75-125	0	20			
Nickel	mg/kg	0.39		5	5	5.0	5.2	93	97	75-125	4	20			
Selenium	mg/kg	0.17		5	5	5.7	5.5	111	107	75-125	4	20			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
1991168					1991169							
Parameter	Units	40197844001	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Silver	mg/kg	<0.011	2.5	2.5	2.7	2.7	109	109	75-125	1	20	
Strontium	mg/kg	<0.16	5	5	5.2	5.3	101	104	75-125	2	20	
Thallium	mg/kg	<0.013	5	5	5.1	5.1	102	102	75-125	1	20	
Vanadium	mg/kg	<0.033	5	5	5.1	5.1	101	102	75-125	1	20	
Zinc	mg/kg	6.3	20	20	25.6	25.9	97	98	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

QC Batch:	341138	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight Reporting Only
Associated Lab Samples:	40197844001, 40197844002, 40197844003, 40197844004, 40197844005, 40197844006, 40197844007, 40197844008, 40197844009, 40197844010, 40197844011, 40197844012, 40197844013, 40197844014, 40197844015, 40197844016, 40197844017, 40197844018, 40197844019, 40197844020		

SAMPLE DUPLICATE: 1980751

Parameter	Units	40197844001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	79.6	79.6	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

J Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40197844001	JSF-FH-CC-HRD-F-20190619	EPA 3050B	342862	EPA 6020	343056
40197844002	JSF-FH-CC-HRU-F-20190430	EPA 3050B	342862	EPA 6020	343056
40197844003	JSF-FH-CC-F-DUP01-20190507	EPA 3050B	342862	EPA 6020	343056
40197844004	JSF-FH-CC-F-DUP02-20190430	EPA 3050B	342862	EPA 6020	343056
40197844005	JSF-FH-CC-HRA1-O-20190507	EPA 3050B	342862	EPA 6020	343056
40197844006	JSF-FH-CC-O-DUP02-20190430	EPA 3050B	342862	EPA 6020	343056
40197844007	JSF-FH-CC-HRA1-L-20190507	EPA 3050B	342862	EPA 6020	343056
40197844008	JSF-FH-CC-HRA2-L-20190611	EPA 3050B	342862	EPA 6020	343056
40197844009	JSF-FH-CC-HRD-L-20190619	EPA 3050B	342862	EPA 6020	343056
40197844010	JSF-FH-CC-HRU-L-20190430	EPA 3050B	342862	EPA 6020	343056
40197844011	JSF-FH-CC-L-DUP01-20190507	EPA 3050B	342862	EPA 6020	343056
40197844012	JSF-FH-CC-L-DUP02-20190430	EPA 3050B	342862	EPA 6020	343056
40197844013	JSF-FH-SB-HRA1-F-20190409	EPA 3050B	342862	EPA 6020	343056
40197844014	JSF-FH-LB-HRA2-F-20190409	EPA 3050B	342862	EPA 6020	343056
40197844015	JSF-FH-LB-HRD-F-20190410	EPA 3050B	342862	EPA 6020	343056
40197844016	JSF-FH-LB-HRU-F-20190409	EPA 3050B	342862	EPA 6020	343056
40197844017	JSF-FH-LB-F-DUP01-20190410	EPA 3050B	342862	EPA 6020	343056
40197844018	JSF-FH-LB-F-DUP02-20190409	EPA 3050B	342862	EPA 6020	343056
40197844019	JSF-FH-SB-HRA1-O-20190409	EPA 3050B	342862	EPA 6020	343056
40197844020	JSF-FH-LB-HRA2-O-20190409	EPA 3050B	342862	EPA 6020	343056
40197844021	RINSE BLANK-A 11-19-19	EPA 3050B	342862	EPA 6020	343056
40197844001	JSF-FH-CC-HRD-F-20190619	EPA 7473	342142		
40197844002	JSF-FH-CC-HRU-F-20190430	EPA 7473	342142		
40197844003	JSF-FH-CC-F-DUP01-20190507	EPA 7473	342142		
40197844004	JSF-FH-CC-F-DUP02-20190430	EPA 7473	342142		
40197844005	JSF-FH-CC-HRA1-O-20190507	EPA 7473	342142		
40197844006	JSF-FH-CC-O-DUP02-20190430	EPA 7473	342142		
40197844007	JSF-FH-CC-HRA1-L-20190507	EPA 7473	342142		
40197844008	JSF-FH-CC-HRA2-L-20190611	EPA 7473	342142		
40197844009	JSF-FH-CC-HRD-L-20190619	EPA 7473	342142		
40197844010	JSF-FH-CC-HRU-L-20190430	EPA 7473	342142		
40197844011	JSF-FH-CC-L-DUP01-20190507	EPA 7473	342142		
40197844012	JSF-FH-CC-L-DUP02-20190430	EPA 7473	342142		
40197844013	JSF-FH-SB-HRA1-F-20190409	EPA 7473	342142		
40197844014	JSF-FH-LB-HRA2-F-20190409	EPA 7473	342142		
40197844015	JSF-FH-LB-HRD-F-20190410	EPA 7473	342142		
40197844016	JSF-FH-LB-HRU-F-20190409	EPA 7473	342142		
40197844017	JSF-FH-LB-F-DUP01-20190410	EPA 7473	342142		
40197844018	JSF-FH-LB-F-DUP02-20190409	EPA 7473	342142		
40197844019	JSF-FH-SB-HRA1-O-20190409	EPA 7473	342142		
40197844020	JSF-FH-LB-HRA2-O-20190409	EPA 7473	342142		
40197844021	RINSE BLANK-A 11-19-19	EPA 7473	342142		
40197844001	JSF-FH-CC-HRD-F-20190619	ASTM D2974-87	341138		
40197844002	JSF-FH-CC-HRU-F-20190430	ASTM D2974-87	341138		
40197844003	JSF-FH-CC-F-DUP01-20190507	ASTM D2974-87	341138		
40197844004	JSF-FH-CC-F-DUP02-20190430	ASTM D2974-87	341138		
40197844005	JSF-FH-CC-HRA1-O-20190507	ASTM D2974-87	341138		
40197844006	JSF-FH-CC-O-DUP02-20190430	ASTM D2974-87	341138		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0779777 JOHN SEVIER FOSSIL PLA

Pace Project No.: 40197844

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40197844007	JSF-FH-CC-HRA1-L-20190507	ASTM D2974-87	341138		
40197844008	JSF-FH-CC-HRA2-L-20190611	ASTM D2974-87	341138		
40197844009	JSF-FH-CC-HRD-L-20190619	ASTM D2974-87	341138		
40197844010	JSF-FH-CC-HRU-L-20190430	ASTM D2974-87	341138		
40197844011	JSF-FH-CC-L-DUP01-20190507	ASTM D2974-87	341138		
40197844012	JSF-FH-CC-L-DUP02-20190430	ASTM D2974-87	341138		
40197844013	JSF-FH-SB-HRA1-F-20190409	ASTM D2974-87	341138		
40197844014	JSF-FH-LB-HRA2-F-20190409	ASTM D2974-87	341138		
40197844015	JSF-FH-LB-HRD-F-20190410	ASTM D2974-87	341138		
40197844016	JSF-FH-LB-HRU-F-20190409	ASTM D2974-87	341138		
40197844017	JSF-FH-LB-F-DUP01-20190410	ASTM D2974-87	341138		
40197844018	JSF-FH-LB-F-DUP02-20190409	ASTM D2974-87	341138		
40197844019	JSF-FH-SB-HRA1-O-20190409	ASTM D2974-87	341138		
40197844020	JSF-FH-LB-HRA2-O-20190409	ASTM D2974-87	341138		

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Tennessee Valley Authority

TVA Environmental Investigations

Chain-of-Custody / Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate

COOLER No.:	1	of	1
COC No.:	JSF_FH 20190522_1A		
2 of 6 Pages			
Task Desc:	JSF_FH		

Required Ship to Lab:		Required Project Information:		Required Sampler Information:	
Lab Name:	Pace Analytical Green Bay	Site ID #:	JOHN SEVER FOSSIL PLANT	Sampler:	Tyler Baker
Lab Address:	1241 Bellevue Street	Project #:	079977	Sampling Company:	TVA
	Suite 9	Site Address:	611 Old Highway 70 S	Address:	TVA Chattanooga Power Service Center, 4801 N. Access Road
	Green Bay, WI 54302	City:	Rogersville	City/State:	Chattanooga, TN 37415
Lab Manager Contact Information		Site PM Name:	Roy Quinn	Phone:	423-976-6733
Lab Pk.:	Tod Noltemeyer	Phone/Fax:	423-751-3753	Sampling Team Number:	1
Phone/Fax:	920-469-2436	Site PM Email:	iqnoltem@tva.gov	Send EDD/Hard Copy to:	tyl-b@envsysd.com
Lab Email:	tolad@tva.gov	Analysis Turnaround Time			
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 3 Business Days <input type="checkbox"/> 5 Business Days <input checked="" type="checkbox"/> 10 Business Days (Standard)					

ITEMS #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	Sample Depth		MATRIX CODE	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/ Lab Sample I.D.	MS/MSD
			Start Depth	End Depth							
1	JSF-FH-BG-HRA1-L-20190522	FH-HRA1	NA	NA	FH C	N	5/22/2019	1310	1	018 C-1	X
2	JSF-FH-BG-HRA2-L-20190507	FH-HRA2	NA	NA	FH C	N	5/7/2019	1807	1	018 C-2	X
3	JSF-FH-BG-HRD-L-20190507	FH-HRD	NA	NA	FH C	N	5/7/2019	1530	1	018 C-3	X
4	JSF-FH-BG-HRU-L-20190507	FH-HRU	NA	NA	FH C	N	5/7/2019	1220	1	018 C-4	X
5	JSF-FH-BG-L-DUP01-20190507	NA	NA	NA	FH C	FD	5/7/2019	NA	1	018 C-5	X
6	JSF-FH-BG-L-DUP02-20190507	NA	NA	NA	FH C	FD	5/7/2019	NA	1	018 C-6	X
7	JSF-FH-CC-HRA1-F-20190507	FH-HRA1	NA	NA	FH C	N	5/7/2019	1857	1	018 C-7	X
8	JSF-FH-CC-HRA2-F-20190611	FH-HRA2	NA	NA	FH C	N	6/11/2019	1645	1	018 C-8	X
9	JSF-FH-CC-HRD-F-20190619	FH-HRD	NA	NA	FH C	N	6/19/2019	1440	1	018 C-9	X
10	JSF-FH-CC-HRU-F-20190430	FH-HRU	NA	NA	FH C	N	4/30/2019	1100	1	018 C-10	X
11	JSF-FH-CC-F-DUP01-20190507	NA	NA	NA	FH C	FD	5/7/2019	NA	1	018 C-11	X
12	JSF-FH-CC-F-DUP02-20190430	NA	NA	NA	FH C	FD	4/30/2019	NA	1	018 C-12	X
13											

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

Sample Receipt Conditions

Temperature in °C

Sample on Ice?

Sample Intact?

Trip Blank?

SHIPPING METHOD

SAMPLER NAME AND SIGNATURE

Temperature in °C

Sample on Ice?

Sample Intact?

Trip Blank?

Temperature in °C

Sample on Ice?

Sample Intact?

Trip Blank?

Temperature in °C

Sample on Ice?

Sample Intact?

Trip Blank?

Temperature in °C

Sample on Ice?

Sample Intact?

Trip Blank?

Temperature in °C

Sample on Ice?

Sample Intact?

Trip Blank?

Temperature in °C

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Temperature in °C

Sample on Ice?

Sample Intact?

Trip Blank?

Temperature in °C

Sample on Ice?

Sample Intact?

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Sample on Ice?

Sample Intact?

Trip Blank?

Temperature in °C

Sample on Ice?

Sample Intact?

Trip Blank?

Temperature in °C

Sample on Ice?

Sample Intact?



Tennessee Valley Authority

TVA Environmental Investigations

Chain-of-Custody / Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate

COOLER No.:	1	of	4
COC No.:	JSF_FH 20190522 1A		
3 of 6 Pages			
Task Desc.:	JSF_FH		

Required Ship to Lab:

Lab Name:	Peace Analytical Green Bay
Lab Address:	1241 Bellevue Street Suite 9 Green Bay, WI 54302
Lab P.H.:	Tod Noltemeyer
Phone/Fax:	920-469-2436
Lab Email:	tol.noltemeyer@pacelabs.com

Required Project Information:

Site ID #:	JOHN SEVIER FOSSIL PLANT
Project #:	0779777
Site Address:	611 Old Highway 70 S Rogersville
City:	TN 37857
State/zip:	
Site PM Name:	Roy Quinn
Phone/Fax:	423-751-3753
Site PM Email:	rqquinn@tva.gov

Required Sampler Information

Sampler:	Tyler Baker
Sampling Company:	TVA
Address:	TVA Chattanooga Power Service Center, 4801 N. Access Road Chattanooga, TN 37415
City/State:	Chattanooga, TN 37415
Phone:	423-876-6733
Sampling Team Number:	1
Send EDD/Hand Copy to:	tva-si@envsds.com

Analysis Turnaround Time

Analysis Turnaround Time	24 Hours
	3 Business Days
	5 Business Days
	10 Business Days (Standard)

ITEMS #

SAMPLE ID	SAMPLE LOCATION
SAMPLES IDS MUST BE UNIQUE	

Start Depth	End Depth	MATRIX CODE	SAMPLE TYPE
Depth Unit	Feet	G= GRAB C=COMP	

ITEMS #	SAMPLE ID	SAMPLE LOCATION	Start Depth	End Depth	MATRIX CODE	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/ Lab Sample I.D.	MS/MSD
1	JSF-FH-CC-HRA1-O-20190507	FH-HRA1	NA	NA	FH C	N	5/7/2019	1857	1	025 001	
2	JSF-FH-CC-O-DUP02-20190430	NA	NA	NA	FH C	FD	4/30/2019	NA	1	026 002	
3	JSF-FH-CC-HRA1-L-20190507	FH-HRA1	NA	NA	FH C	N	5/7/2019	1857	1	027 003	
4	JSF-FH-CC-HRA2-L-20190611	FH-HRA2	NA	NA	FH C	N	6/11/2019	1645	1	028 004	
5	JSF-FH-CC-HRD-L-20190619	FH-HRD	NA	NA	FH C	N	6/19/2019	1440	1	029 005	
6	JSF-FH-CC-HRU-L-20190430	FH-HRU	NA	NA	FH C	N	4/30/2019	1100	1	030 006	
7	JSF-FH-CC-L-DUP01-20190507	NA	NA	NA	FH C	FD	5/7/2019	NA	1	031 007	
8	JSF-FH-CC-L-DUP02-20190430	NA	NA	NA	FH C	FD	4/30/2019	NA	1	032 008	
9	JSF-FH-SB-HRA1-F-20190409	FH-HRA1	NA	NA	FH C	N	4/9/2019	1345	1	033 009	
10	JSF-FH-LB-HRA2-F-20190409	FH-HRA2	NA	NA	FH C	N	4/9/2019	1705	1	034 010	
11	JSF-FH-LB-HRD-F-20190410	FH-HRD	NA	NA	FH C	N	4/10/2019	1315	1	035 011	
12	JSF-FH-LB-HRU-F-20190409	FH-HRU	NA	NA	FH C	N	4/9/2019	1412	1	036 012	
13	JSF-FH-LB-F-DUP01-20190410	NA	NA	NA	FH C	FD	4/10/2019	NA	1	037 013	

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION

DATE	TIME	ACCEPTED BY / AFFILIATION
10/23	0925	

SHIPPING METHOD:

Fedex

SAMPLER NAME AND SIGNATURE

Tyler Baker



Tennessee Valley Authority

TVA Environmental Investigations

Chain-of-Custody / Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate

COOLER No.:	1	of	4
COC No.:	JSF_FH 20190522_1A		
4 of 6 Pages			
Task Desc:	JSF_FH		

Required Ship to Lab:

Lab Name:	Pace Analytical Green Bay
Lab Address:	1241 Bellevue Street Suite 9 Green Bay, WI 54302
Lab P.I.:	Tod Noltemeyer
Phone/Fax:	920-469-2436
Lab Email:	tod.noltemeyer@pacelabs.com

Required Project Information:

Site ID #:	JOHN SEVIER FOSSIL PLANT
Project #:	078777
Site Address:	611 Old Highway 70 S Rogersville, TN 37867
Site PM Name:	Roy Quinn
Phone/Fax:	423-751-3753
Site PM Email:	rqquinn@tva.gov

Required Sampler Information:

Sampler:	Tyler Baker
Sampling Company:	TVA
Address:	TVA Chickamauga Power Service Center, 4601 N. Access Road Chattanooga, TN 37415
City/State:	Chattanooga, TN 37415
Phone:	423-676-6733
Sampling Team Number:	1
Send EDD/Hard Copy to:	lvb-6@tvasd.com

Analysis Turnaround Time

<input type="checkbox"/> 24 Hours	<input type="checkbox"/> 10 Business Days
<input type="checkbox"/> 3 Business Days	<input type="checkbox"/> 10 Business Days (Standard)
<input type="checkbox"/> 5 Business Days	

ITEMS #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	Sample Depth		MATRIX CODE G= GRAB C=COMP	SAMPLE TYPE
			Start Depth	End Depth		

1	JSF-FH-LB-F-DUP02-20190409	NA	NA	NA	FH C	FD
2	JSF-FH-SB-HRA1-O-20190409	FH-HRA1	NA	NA	FH C	N
3	JSF-FH-LB-HRA2-O-20190409	FH-HRA2	NA	NA	FH C	N
4	JSF-FH-LB-HRD-O-20190410	FH-HRD	NA	NA	FH C	N
5	JSF-FH-LB-HRU-O-20190409	FH-HRU	NA	NA	FH C	N
6	JSF-FH-LB-O-DUP01-20190410	NA	NA	NA	FH C	FD
7	JSF-FH-LB-O-DUP02-20190409	NA	NA	NA	FH C	FD
8	JSF-FH-SB-HRA1-L-20190409	FH-HRA1	NA	NA	FH C	N
9	JSF-FH-LB-HRA2-L-20190409	FH-HRA2	NA	NA	FH C	N
10	JSF-FH-LB-HRD-L-20190410	FH-HRD	NA	NA	FH C	N
11	JSF-FH-LB-HRU-L-20190409	FH-HRU	NA	NA	FH C	N
12	JSF-FH-LB-L-DUP01-20190410	NA	NA	NA	FH C	FD
13	JSF-FH-LB-L-DUP02-20190409	NA	NA	NA	FH C	FD

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION

DATE TIME

DATE TIME

Sample Receipt Conditions

SHIPPING METHOD:		FEDTEX	
SAMPLER NAME AND SIGNATURE		Tyler Baker	
TEMPERATURE IN °C		10/25/2019	
SAMPLE ON ICE?		10/25/2019	
SAMPLE INTACT?		10/25/2019	
TRIP BLANK?		10/25/2019	

Client Name: Scha Sievier Power Plant

Project #

90197844

Sample Preservation Receipt Form

All containers needing preservation have been checked and noted below: ☐ Yes ☒ No ☐ N/A

Lab Lot# of pH paper:

Lab Std #/ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302


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Pace Lab #	Glass						Plastic						Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)	
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC
001																															2.5 / 5 / 10
002																															2.5 / 5 / 10
003																															2.5 / 5 / 10
004																															2.5 / 5 / 10
005																															2.5 / 5 / 10
006																															2.5 / 5 / 10
007																															2.5 / 5 / 10
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012																															2.5 / 5 / 10
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016																															2.5 / 5 / 10
017																															2.5 / 5 / 10
018																															2.5 / 5 / 10
019																															2.5 / 5 / 10
020																															2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm): ☐ Yes ☒ No ☐ N/A *If Yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascotbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH		
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	SP5T	120 mL plastic Na Thiosulfate
BP3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			ZPLC	ziploc bag
						GN:	

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

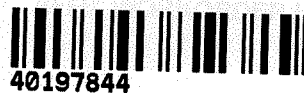
Client Name: John Sevier Fossil Plant

Project #:

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Walto
☐ Client ☐ Pace Other: _____

Tracking #: 7804 42526291

WO#: **40197844**



Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Thermometer Used SR - 40

Type of Ice: Wet Blue ☒ Dry ☐ None

Cooler Temperature Uncorr: 0.5 ICorr: 1

☒ Samples on ice, cooling process has begun

Temp Blank Present: ☐ yes ☒ no

Biological Tissue is Frozen: ☒ yes ☐ no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C.

Person examining contents:

Date: 10/23/19

Initials: JS

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>B</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

If checked, see attached form for additional comments ☐

Comments/ Resolution: _____

Project Manager Review: _____

ALG/TN 1

Date: _____

10/23/19