

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 680-126161-1
Client Project/Site: PCB

For:
Southern Earth Sciences
3642 Peddie Drive
Tallahassee, Florida 32303

Attn: Mr. Roy Russell



Authorized for release by:
6/10/2016 5:03:42 PM

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LINKS

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

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

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

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Definitions/Glossary

Client: Southern Earth Sciences
Project/Site: PCB

TestAmerica Job ID: 680-126161-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
J	Estimated value; value may not be accurate.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Sample Summary

Client: Southern Earth Sciences
Project/Site: PCB

TestAmerica Job ID: 680-126161-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-126161-1	BSMT Transformer Oil	Waste	06/08/16 15:20	06/09/16 07:15

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Case Narrative

Client: Southern Earth Sciences
Project/Site: PCB

TestAmerica Job ID: 680-126161-1

Job ID: 680-126161-1

Laboratory: TestAmerica Savannah

Narrative

**Job Narrative
680-126161-1**

Comments

No additional comments.

Receipt

The sample was received on 6/9/2016 7:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

GC Semi VOA

Method(s) 8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: BSMT Transformer Oil (680-126161-1). These results have been reported and qualified.

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

Organic Prep

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

Client Sample Results

Client: Southern Earth Sciences
Project/Site: PCB

TestAmerica Job ID: 680-126161-1

Client Sample ID: BSMT Transformer Oil

Lab Sample ID: 680-126161-1

Date Collected: 06/08/16 15:20

Matrix: Waste

Date Received: 06/09/16 07:15

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 02:08	1
PCB-1221	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 02:08	1
PCB-1232	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 02:08	1
PCB-1242	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 02:08	1
PCB-1248	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 02:08	1
PCB-1254	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 02:08	1
PCB-1260	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		30 - 130	06/09/16 11:15	06/10/16 02:08	1
DCB Decachlorobiphenyl	16	J	30 - 130	06/09/16 11:15	06/10/16 02:08	1

QC Sample Results

Client: Southern Earth Sciences
Project/Site: PCB

TestAmerica Job ID: 680-126161-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 680-436615/2-A

Matrix: Waste

Analysis Batch: 436749

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436615

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 00:27	1
PCB-1221	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 00:27	1
PCB-1232	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 00:27	1
PCB-1242	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 00:27	1
PCB-1248	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 00:27	1
PCB-1254	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 00:27	1
PCB-1260	1000	U	1000	1000	ug/Kg		06/09/16 11:15	06/10/16 00:27	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	102		30 - 130	06/09/16 11:15	06/10/16 00:27	1
DCB Decachlorobiphenyl	96		30 - 130	06/09/16 11:15	06/10/16 00:27	1

Lab Sample ID: LCS 680-436615/3-A

Matrix: Waste

Analysis Batch: 436749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436615

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
PCB-1016	10000	8400		ug/Kg		84	30 - 130
PCB-1260	10000	9120		ug/Kg		91	30 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	105		30 - 130
DCB Decachlorobiphenyl	99		30 - 130

Lab Sample ID: LCSD 680-436615/4-A

Matrix: Waste

Analysis Batch: 436749

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 436615

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
PCB-1016	10000	8190		ug/Kg		82	30 - 130	2	50
PCB-1260	10000	9070		ug/Kg		91	30 - 130	1	50

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	105		30 - 130
DCB Decachlorobiphenyl	100		30 - 130

QC Association Summary

Client: Southern Earth Sciences
Project/Site: PCB

TestAmerica Job ID: 680-126161-1

GC Semi VOA

Prep Batch: 436615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-126161-1	BSMT Transformer Oil	Total/NA	Waste	3580A	
LCS 680-436615/3-A	Lab Control Sample	Total/NA	Waste	3580A	
LCSD 680-436615/4-A	Lab Control Sample Dup	Total/NA	Waste	3580A	
MB 680-436615/2-A	Method Blank	Total/NA	Waste	3580A	

Analysis Batch: 436749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-126161-1	BSMT Transformer Oil	Total/NA	Waste	8082A	436615
LCS 680-436615/3-A	Lab Control Sample	Total/NA	Waste	8082A	436615
LCSD 680-436615/4-A	Lab Control Sample Dup	Total/NA	Waste	8082A	436615
MB 680-436615/2-A	Method Blank	Total/NA	Waste	8082A	436615

Lab Chronicle

Client: Southern Earth Sciences
Project/Site: PCB

TestAmerica Job ID: 680-126161-1

Client Sample ID: BSMT Transformer Oil

Lab Sample ID: 680-126161-1

Date Collected: 06/08/16 15:20

Matrix: Waste

Date Received: 06/09/16 07:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3580A			1.00 g	10 mL	436615	06/09/16 11:15	WRB	TAL SAV
Total/NA	Analysis	8082A		1	1.00 g	10 mL	436749	06/10/16 02:08	JCK	TAL SAV

Instrument ID: CSGAA

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Certification Summary

Client: Southern Earth Sciences
Project/Site: PCB

TestAmerica Job ID: 680-126161-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87052	06-30-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Savannah

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Method Summary

Client: Southern Earth Sciences
Project/Site: PCB

TestAmerica Job ID: 680-126161-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Login Sample Receipt Checklist

Client: Southern Earth Sciences

Job Number: 680-126161-1

Login Number: 126161

List Source: TestAmerica Savannah

List Number: 1

Creator: White, Menica R

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