

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Tel: (850)878-3994

TestAmerica Job ID: 640-48133-2
Client Project/Site: Curtis Park

For:
SCS ES Consultants
7700 N. Kendall Drive, Suite 300
Miami, Florida 33156

Attn: Mr. Bob Speed



Authorized for release by:
7/16/2014 10:07:05 AM

Chad Bechtold, Manager of Project Management
(850)878-3994
chad.bechtold@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions	3
Case Narrative	4
Toxicity Summary	5
Detection Summary	7
Client Sample Results	9
QC Sample Results	13
Isotope Dilution Summary	16
QC Association	17
Chronicle	18
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22

Definitions/Glossary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Qualifiers

Dioxin

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
M	Presence of material is verified but not quantified; the actual value is less than the value given.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

Case Narrative

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Job ID: 640-48133-2

Laboratory: TestAmerica Tallahassee

Narrative

**Job Narrative
640-48133-2**

Comments

Dioxin/Furan results only are included in the attached report. All other results are reported under TestAmerica job 640-48133-1.

The samples were extracted on June 26th, 2014. TestAmerica Sacramento's FL certification expired on June 30th, 2014 and was inadvertently not renewed. The samples were analyzed after the certification expired. Sacramento has current NELAP certification through Oregon. Sacramento is actively working on renewing their NELAP certification in Florida.

Receipt

The samples were received on 6/4/2014 at 4:30 PM. The samples arrived in good condition, properly preserved, and on ice. The temperature of the cooler at receipt was 1.4° C.

Except:

The samples were received in clear glass jars instead of amber glass containers. The containers were placed in dark refrigerated storage upon receipt.

Quality Control

Method 8290: The following sample exhibited elevated noise or matrix interferences requiring detection limits to be raised above the reporting limit: SB-83 (0-0.5) (640-48133-3).

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



Toxicity Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Client Sample ID: SB-83 (0-0.5)

Lab Sample ID: 640-48133-3

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005		Method
						TEF	TEQ	
Total Dioxin/Furan TEQ					mg/Kg		0.000010	TEQ
<hr/>								
Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005		Method
						TEF	TEQ	
2,3,7,8-TCDD	0.0000034	I M	0.0000011	0.0000000	mg/Kg	1	0.0000034	8290
1,2,3,7,8-PeCDD	0.0000015	I M	0.0000056	0.0000005	mg/Kg	1	0.0000015	8290
1,2,3,7,8-PeCDF	0.0000037	I	0.0000056	0.0000004	mg/Kg	0.03	0.0000011	8290
2,3,4,7,8-PeCDF	0.0000049	I	0.0000056	0.0000004	mg/Kg	0.3	0.0000015	8290
1,2,3,4,7,8-HxCDD	0.0000028	I	0.0000056	0.0000006	mg/Kg	0.1	0.0000028	8290
1,2,3,6,7,8-HxCDD	0.0000065		0.0000056	0.0000004	mg/Kg	0.1	0.0000065	8290
1,2,3,7,8,9-HxCDD	0.0000076		0.0000056	0.0000004	mg/Kg	0.1	0.0000076	8290
1,2,3,4,7,8-HxCDF	0.0000049	I	0.0000056	0.0000005	mg/Kg	0.1	0.0000049	8290
1,2,3,6,7,8-HxCDF	0.0000040	I	0.0000056	0.0000004	mg/Kg	0.1	0.0000040	8290
2,3,4,6,7,8-HxCDF	0.0000050	I	0.0000056	0.0000005	mg/Kg	0.1	0.0000050	8290
1,2,3,7,8,9-HxCDF	0.0000058	U	0.0000056	0.0000005	mg/Kg	0.1	0.00000029	8290
1,2,3,4,6,7,8-HpCDD	0.00024		0.000027	0.000027	mg/Kg	0.01	0.0000024	8290
1,2,3,4,6,7,8-HpCDF	0.000047		0.0000056	0.0000018	mg/Kg	0.01	0.0000047	8290
1,2,3,4,7,8,9-HpCDF	0.0000025	U	0.0000056	0.0000025	mg/Kg	0.01	0.00000013	8290
OCDD	0.0018		0.000011	0.000011	mg/Kg	0.0003	0.0000054	8290
OCDF	0.00019		0.000011	0.0000011	mg/Kg	0.0003	0.00000057	8290
2,3,7,8-TCDF - RA	0.0000044		0.0000011	0.0000007	mg/Kg	0.1	0.0000044	8290

Client Sample ID: SB-83 (0.5-2)

Lab Sample ID: 640-48133-4

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005		Method
						TEF	TEQ	
Total Dioxin/Furan TEQ					mg/Kg		0.0000069	TEQ
<hr/>								
Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005		Method
						TEF	TEQ	
2,3,7,8-TCDD	0.0000029	I M	0.0000011	0.0000000	mg/Kg	1	0.0000029	8290
1,2,3,7,8-PeCDD	0.0000017	I M	0.0000055	0.0000002	mg/Kg	1	0.0000017	8290

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Toxicity Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Client Sample ID: SB-83 (0.5-2) (Continued)

Lab Sample ID: 640-48133-4

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005		Method
						TEF	TEQ	
1,2,3,7,8-PeCDF	0.0000014	U	0.0000055	0.0000014	mg/Kg	0.03	0.000000021	8290
2,3,4,7,8-PeCDF	0.0000046	I	0.0000055	0.0000015	mg/Kg	0.3	0.0000014	8290
1,2,3,4,7,8-HxCDD	0.0000013	I	0.0000055	0.0000002	mg/Kg	0.1	0.00000013	8290
1,2,3,6,7,8-HxCDD	0.0000033	I	0.0000055	0.0000001	mg/Kg	0.1	0.00000033	8290
1,2,3,7,8,9-HxCDD	0.0000035	I	0.0000055	0.0000001	mg/Kg	0.1	0.00000035	8290
1,2,3,4,7,8-HxCDF	0.0000031	I	0.0000055	0.0000010	mg/Kg	0.1	0.00000031	8290
1,2,3,6,7,8-HxCDF	0.0000049	I	0.0000055	0.0000007	mg/Kg	0.1	0.00000049	8290
2,3,4,6,7,8-HxCDF	0.0000075		0.0000055	0.0000008	mg/Kg	0.1	0.00000075	8290
1,2,3,7,8,9-HxCDF	0.0000010	U	0.0000055	0.0000010	mg/Kg	0.1	0.000000050	8290
1,2,3,4,6,7,8-HpCDD	0.0000038		0.0000055	0.0000019	mg/Kg	0.01	0.00000038	8290
1,2,3,4,6,7,8-HpCDF	0.0000035		0.0000055	0.0000008	mg/Kg	0.01	0.00000035	8290
1,2,3,4,7,8,9-HpCDF	0.0000011	U	0.0000055	0.0000011	mg/Kg	0.01	0.000000006	8290
OCDD	0.000028		0.000011	0.0000020	mg/Kg	0.0003	0.00000084	8290
OCDF	0.000027		0.000011	0.0000003	mg/Kg	0.0003	0.00000008	8290
2,3,7,8-TCDF - RA	0.0000026	M	0.0000011	0.0000006	mg/Kg	0.1	0.00000026	8290

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Detection Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Client Sample ID: SB-83 (0-0.5)

Lab Sample ID: 640-48133-3

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000034	I M	0.000011	0.0000000	mg/Kg	1	☼	8290	Total/NA
				98					
1,2,3,7,8-PeCDD	0.0000015	I M	0.000056	0.0000005	mg/Kg	1	☼	8290	Total/NA
				5					
1,2,3,7,8-PeCDF	0.0000037	I	0.000056	0.0000004	mg/Kg	1	☼	8290	Total/NA
				1					
2,3,4,7,8-PeCDF	0.0000049	I	0.000056	0.0000004	mg/Kg	1	☼	8290	Total/NA
				2					
1,2,3,4,7,8-HxCDD	0.0000028	I	0.000056	0.0000006	mg/Kg	1	☼	8290	Total/NA
				6					
1,2,3,6,7,8-HxCDD	0.0000065		0.000056	0.0000004	mg/Kg	1	☼	8290	Total/NA
				6					
1,2,3,7,8,9-HxCDD	0.0000076		0.000056	0.0000004	mg/Kg	1	☼	8290	Total/NA
				6					
1,2,3,4,7,8-HxCDF	0.0000049	I	0.000056	0.0000005	mg/Kg	1	☼	8290	Total/NA
				8					
1,2,3,6,7,8-HxCDF	0.0000040	I	0.000056	0.0000004	mg/Kg	1	☼	8290	Total/NA
				1					
2,3,4,6,7,8-HxCDF	0.0000050	I	0.000056	0.0000005	mg/Kg	1	☼	8290	Total/NA
				0					
1,2,3,4,6,7,8-HpCDD	0.00024		0.000027	0.000027	mg/Kg	1	☼	8290	Total/NA
1,2,3,4,6,7,8-HpCDF	0.000047		0.000056	0.0000018	mg/Kg	1	☼	8290	Total/NA
OCDD	0.0018		0.000011	0.000011	mg/Kg	1	☼	8290	Total/NA
OCDF	0.00019		0.000011	0.0000011	mg/Kg	1	☼	8290	Total/NA
Total TCDD	0.000013	M	0.000011	0.0000000	mg/Kg	1	☼	8290	Total/NA
				98					
Total TCDF	0.000052	M	0.000011	0.0000001	mg/Kg	1	☼	8290	Total/NA
				8					
Total PeCDD	0.000027	M	0.000056	0.0000005	mg/Kg	1	☼	8290	Total/NA
				5					
Total PeCDF	0.000084		0.000056	0.0000004	mg/Kg	1	☼	8290	Total/NA
				2					
Total HxCDD	0.00015		0.000056	0.0000005	mg/Kg	1	☼	8290	Total/NA
				3					
Total HxCDF	0.000073		0.000056	0.0000005	mg/Kg	1	☼	8290	Total/NA
				2					
Total HpCDD	0.0020		0.000027	0.000027	mg/Kg	1	☼	8290	Total/NA
Total HpCDF	0.00014		0.000056	0.0000022	mg/Kg	1	☼	8290	Total/NA
2,3,7,8-TCDF - RA	0.0000044		0.000011	0.0000007	mg/Kg	1	☼	8290	Total/NA
				0					

Client Sample ID: SB-83 (0.5-2)

Lab Sample ID: 640-48133-4

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000029	I M	0.000011	0.0000000	mg/Kg	1	☼	8290	Total/NA
				55					
1,2,3,7,8-PeCDD	0.0000017	I M	0.000055	0.0000002	mg/Kg	1	☼	8290	Total/NA
				1					
2,3,4,7,8-PeCDF	0.0000046	I	0.000055	0.0000015	mg/Kg	1	☼	8290	Total/NA
1,2,3,4,7,8-HxCDD	0.0000013	I	0.000055	0.0000002	mg/Kg	1	☼	8290	Total/NA
				0					
1,2,3,6,7,8-HxCDD	0.0000033	I	0.000055	0.0000001	mg/Kg	1	☼	8290	Total/NA
				4					
1,2,3,7,8,9-HxCDD	0.0000035	I	0.000055	0.0000001	mg/Kg	1	☼	8290	Total/NA
				4					
1,2,3,4,7,8-HxCDF	0.0000031	I	0.000055	0.0000010	mg/Kg	1	☼	8290	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Client Sample ID: SB-83 (0.5-2) (Continued)

Lab Sample ID: 640-48133-4

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,6,7,8-HxCDF	0.0000049	I	0.0000055	0.0000007	mg/Kg	1	☼	8290	Total/NA
2,3,4,6,7,8-HxCDF	0.0000075		0.0000055	0.0000008	mg/Kg	1	☼	8290	Total/NA
1,2,3,4,6,7,8-HpCDD	0.000038		0.0000055	0.0000019	mg/Kg	1	☼	8290	Total/NA
1,2,3,4,6,7,8-HpCDF	0.000035		0.0000055	0.0000008	mg/Kg	1	☼	8290	Total/NA
OCDD	0.00028		0.000011	0.0000020	mg/Kg	1	☼	8290	Total/NA
OCDF	0.000027		0.000011	0.0000003	mg/Kg	1	☼	8290	Total/NA
Total TCDD	0.0000098	M	0.0000011	0.0000000	mg/Kg	1	☼	8290	Total/NA
Total TCDF	0.000061	M	0.0000011	0.0000002	mg/Kg	1	☼	8290	Total/NA
Total PeCDD	0.000017	M	0.0000055	0.0000002	mg/Kg	1	☼	8290	Total/NA
Total PeCDF	0.00018		0.0000055	0.0000014	mg/Kg	1	☼	8290	Total/NA
Total HxCDD	0.000038		0.0000055	0.0000001	mg/Kg	1	☼	8290	Total/NA
Total HxCDF	0.00014		0.0000055	0.0000009	mg/Kg	1	☼	8290	Total/NA
Total HpCDD	0.00012		0.0000055	0.0000019	mg/Kg	1	☼	8290	Total/NA
Total HpCDF	0.000067		0.0000055	0.0000009	mg/Kg	1	☼	8290	Total/NA
2,3,7,8-TCDF - RA	0.0000026	M	0.0000011	0.0000006	mg/Kg	1	☼	8290	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Client Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Client Sample ID: SB-83 (0-0.5)

Lab Sample ID: 640-48133-3

Date Collected: 06/03/14 09:42

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 89.3

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000034	M	0.0000011	0.0000000	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				98					
1,2,3,7,8-PeCDD	0.0000015	M	0.0000056	0.0000005	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				5					
1,2,3,7,8-PeCDF	0.0000037	I	0.0000056	0.0000004	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				1					
2,3,4,7,8-PeCDF	0.0000049	I	0.0000056	0.0000004	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				2					
1,2,3,4,7,8-HxCDD	0.0000028	I	0.0000056	0.0000006	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				6					
1,2,3,6,7,8-HxCDD	0.0000065		0.0000056	0.0000004	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				6					
1,2,3,7,8,9-HxCDD	0.0000076		0.0000056	0.0000004	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				6					
1,2,3,4,7,8-HxCDF	0.0000049	I	0.0000056	0.0000005	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				8					
1,2,3,6,7,8-HxCDF	0.0000040	I	0.0000056	0.0000004	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				1					
2,3,4,6,7,8-HxCDF	0.0000050	I	0.0000056	0.0000005	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				0					
1,2,3,7,8,9-HxCDF	0.00000058	U	0.0000056	0.0000005	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				8					
1,2,3,4,6,7,8-HpCDD	0.00024		0.000027	0.000027	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
1,2,3,4,6,7,8-HpCDF	0.000047		0.0000056	0.0000018	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
1,2,3,4,7,8,9-HpCDF	0.0000025	U	0.0000056	0.0000025	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
OCDD	0.0018		0.000011	0.000011	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
OCDF	0.00019		0.000011	0.0000011	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
Total TCDD	0.000013	M	0.0000011	0.0000000	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				98					
Total TCDF	0.000052	M	0.0000011	0.0000001	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				8					
Total PeCDD	0.000027	M	0.0000056	0.0000005	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				5					
Total PeCDF	0.000084		0.0000056	0.0000004	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				2					
Total HxCDD	0.00015		0.0000056	0.0000005	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				3					
Total HxCDF	0.000073		0.0000056	0.0000005	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
				2					
Total HpCDD	0.00020		0.000027	0.000027	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
Total HpCDF	0.00014		0.0000056	0.0000022	mg/Kg	☼	06/26/14 08:27	07/09/14 23:17	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	73		40 - 135				06/26/14 08:27	07/09/14 23:17	1
13C-2,3,7,8-TCDF	77		40 - 135				06/26/14 08:27	07/09/14 23:17	1
13C-1,2,3,7,8-PeCDD	71		40 - 135				06/26/14 08:27	07/09/14 23:17	1
13C-1,2,3,7,8-PeCDF	76		40 - 135				06/26/14 08:27	07/09/14 23:17	1
13C-1,2,3,6,7,8-HxCDD	75		40 - 135				06/26/14 08:27	07/09/14 23:17	1
13C-1,2,3,4,7,8-HxCDF	77		40 - 135				06/26/14 08:27	07/09/14 23:17	1
13C-1,2,3,4,6,7,8-HpCDD	80		40 - 135				06/26/14 08:27	07/09/14 23:17	1
13C-1,2,3,4,6,7,8-HpCDF	79		40 - 135				06/26/14 08:27	07/09/14 23:17	1
13C-OCDD	75		40 - 135				06/26/14 08:27	07/09/14 23:17	1

TestAmerica Tallahassee

Client Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Client Sample ID: SB-83 (0-0.5)

Lab Sample ID: 640-48133-3

Date Collected: 06/03/14 09:42

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 89.3

Method: 8290 - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.0000044		0.0000011	0.0000007	mg/Kg	☼	06/26/14 08:27	07/11/14 14:04	1
				0					
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	72		40 - 135				06/26/14 08:27	07/11/14 14:04	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Client Sample ID: SB-83 (0.5-2)

Lab Sample ID: 640-48133-4

Date Collected: 06/03/14 09:45

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 90.6

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000029	M	0.0000011	0.0000000	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				55					
1,2,3,7,8-PeCDD	0.0000017	M	0.0000055	0.0000002	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				1					
1,2,3,7,8-PeCDF	0.0000014	U	0.0000055	0.0000014	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
2,3,4,7,8-PeCDF	0.0000046	I	0.0000055	0.0000015	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
1,2,3,4,7,8-HxCDD	0.0000013	I	0.0000055	0.0000002	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				0					
1,2,3,6,7,8-HxCDD	0.0000033	I	0.0000055	0.0000001	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				4					
1,2,3,7,8,9-HxCDD	0.0000035	I	0.0000055	0.0000001	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				4					
1,2,3,4,7,8-HxCDF	0.0000031	I	0.0000055	0.0000010	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
1,2,3,6,7,8-HxCDF	0.0000049	I	0.0000055	0.0000007	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				3					
2,3,4,6,7,8-HxCDF	0.0000075		0.0000055	0.0000008	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				8					
1,2,3,7,8,9-HxCDF	0.0000010	U	0.0000055	0.0000010	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
1,2,3,4,6,7,8-HpCDD	0.0000038		0.0000055	0.0000019	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
1,2,3,4,6,7,8-HpCDF	0.0000035		0.0000055	0.0000008	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				4					
1,2,3,4,7,8,9-HpCDF	0.0000011	U	0.0000055	0.0000011	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
OCDD	0.000028		0.000011	0.0000020	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
OCDF	0.000027		0.000011	0.0000003	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				7					
Total TCDD	0.0000098	M	0.0000011	0.0000000	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				55					
Total TCDF	0.000061	M	0.0000011	0.0000002	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				2					
Total PeCDD	0.000017	M	0.0000055	0.0000002	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				1					
Total PeCDF	0.00018		0.0000055	0.0000014	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
Total HxCDD	0.000038		0.0000055	0.0000001	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				6					
Total HxCDF	0.00014		0.0000055	0.0000009	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				1					
Total HpCDD	0.00012		0.0000055	0.0000019	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
Total HpCDF	0.000067		0.0000055	0.0000009	mg/Kg	*	06/26/14 08:27	07/09/14 23:59	1
				8					
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	83		40 - 135				06/26/14 08:27	07/09/14 23:59	1
13C-2,3,7,8-TCDF	84		40 - 135				06/26/14 08:27	07/09/14 23:59	1
13C-1,2,3,7,8-PeCDD	79		40 - 135				06/26/14 08:27	07/09/14 23:59	1
13C-1,2,3,7,8-PeCDF	83		40 - 135				06/26/14 08:27	07/09/14 23:59	1
13C-1,2,3,6,7,8-HxCDD	87		40 - 135				06/26/14 08:27	07/09/14 23:59	1
13C-1,2,3,4,7,8-HxCDF	93		40 - 135				06/26/14 08:27	07/09/14 23:59	1
13C-1,2,3,4,6,7,8-HpCDD	92		40 - 135				06/26/14 08:27	07/09/14 23:59	1
13C-1,2,3,4,6,7,8-HpCDF	91		40 - 135				06/26/14 08:27	07/09/14 23:59	1
13C-OCDD	84		40 - 135				06/26/14 08:27	07/09/14 23:59	1

TestAmerica Tallahassee

Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Client Sample ID: SB-83 (0.5-2)

Lab Sample ID: 640-48133-4

Date Collected: 06/03/14 09:45

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 90.6

Method: 8290 - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.0000026	M	0.0000011	0.0000006	mg/Kg	☼	06/26/14 08:27	07/11/14 14:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	83		40 - 135	06/26/14 08:27	07/11/14 14:42	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-45711/1-A

Matrix: Solid

Analysis Batch: 46936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45711

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.000000086	I M	0.0000010	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
2,3,7,8-TCDF	0.000000017	U	0.0000010	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
1,2,3,7,8-PeCDD	0.000000041	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
1,2,3,7,8-PeCDF	0.000000024	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
2,3,4,7,8-PeCDF	0.000000025	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
1,2,3,4,7,8-HxCDD	0.000000034	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
1,2,3,6,7,8-HxCDD	0.000000024	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
1,2,3,7,8,9-HxCDD	0.000000040	I M	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
1,2,3,4,7,8-HxCDF	0.000000075	I	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
1,2,3,6,7,8-HxCDF	0.000000046	I M	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
2,3,4,6,7,8-HxCDF	0.000000019	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
1,2,3,7,8,9-HxCDF	0.000000022	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
1,2,3,4,6,7,8-HpCDD	0.000000098	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
1,2,3,4,6,7,8-HpCDF	0.000000234	I	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
1,2,3,4,7,8,9-HpCDF	0.000000046	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
OCDD	0.000000333	I	0.000010	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
OCDF	0.000000193	I	0.000010	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
Total TCDD	0.000000136	I M	0.0000010	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
Total TCDF	0.000000028	I	0.0000010	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
Total PeCDD	0.000000041	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
Total PeCDF	0.000000025	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
Total HxCDD	0.000000142	I M	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
Total HxCDF	0.000000121	I M	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
Total HpCDD	0.000000098	U	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
Total HpCDF	0.000000234	I	0.0000050	0.0000000	mg/Kg		06/26/14 08:27	07/09/14 08:52	1
				40					
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	91		40 - 135				06/26/14 08:27	07/09/14 08:52	1
13C-2,3,7,8-TCDF	95		40 - 135				06/26/14 08:27	07/09/14 08:52	1

TestAmerica Tallahassee

QC Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-45711/1-A
Matrix: Solid
Analysis Batch: 46936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45711

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C-1,2,3,7,8-PeCDD	88		40 - 135	06/26/14 08:27	07/09/14 08:52	1
13C-1,2,3,7,8-PeCDF	90		40 - 135	06/26/14 08:27	07/09/14 08:52	1
13C-1,2,3,6,7,8-HxCDD	102		40 - 135	06/26/14 08:27	07/09/14 08:52	1
13C-1,2,3,4,7,8-HxCDF	99		40 - 135	06/26/14 08:27	07/09/14 08:52	1
13C-1,2,3,4,6,7,8-HpCDD	100		40 - 135	06/26/14 08:27	07/09/14 08:52	1
13C-1,2,3,4,6,7,8-HpCDF	97		40 - 135	06/26/14 08:27	07/09/14 08:52	1
13C-OCDD	87		40 - 135	06/26/14 08:27	07/09/14 08:52	1

Lab Sample ID: LCS 320-45711/2-A
Matrix: Solid
Analysis Batch: 46936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
2,3,7,8-TCDD	0.0000200	0.0000204		mg/Kg		102	60 - 138	
2,3,7,8-TCDF	0.0000200	0.0000178		mg/Kg		89	56 - 158	
1,2,3,7,8-PeCDD	0.000100	0.000101		mg/Kg		101	70 - 122	
1,2,3,7,8-PeCDF	0.000100	0.0000960		mg/Kg		96	69 - 134	
2,3,4,7,8-PeCDF	0.000100	0.0000938		mg/Kg		94	70 - 131	
1,2,3,4,7,8-HxCDD	0.000100	0.0000934		mg/Kg		93	60 - 138	
1,2,3,6,7,8-HxCDD	0.000100	0.0000990		mg/Kg		99	68 - 136	
1,2,3,7,8,9-HxCDD	0.000100	0.0000992		mg/Kg		99	68 - 138	
1,2,3,4,7,8-HxCDF	0.000100	0.0000813		mg/Kg		81	74 - 128	
1,2,3,6,7,8-HxCDF	0.000100	0.0000767		mg/Kg		77	67 - 140	
2,3,4,6,7,8-HxCDF	0.000100	0.0000805		mg/Kg		80	71 - 137	
1,2,3,7,8,9-HxCDF	0.000100	0.0000838		mg/Kg		84	72 - 134	
1,2,3,4,6,7,8-HpCDD	0.000100	0.0000985		mg/Kg		98	71 - 128	
1,2,3,4,6,7,8-HpCDF	0.000100	0.0000948		mg/Kg		95	71 - 134	
1,2,3,4,7,8,9-HpCDF	0.000100	0.000104		mg/Kg		104	68 - 129	
OCDD	0.000200	0.000215		mg/Kg		107	70 - 128	
OCDF	0.000200	0.000228		mg/Kg		114	63 - 141	

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C-2,3,7,8-TCDD	66		40 - 135
13C-2,3,7,8-TCDF	69		40 - 135
13C-1,2,3,7,8-PeCDD	64		40 - 135
13C-1,2,3,7,8-PeCDF	69		40 - 135
13C-1,2,3,6,7,8-HxCDD	69		40 - 135
13C-1,2,3,4,7,8-HxCDF	73		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	73		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	72		40 - 135
13C-OCDD	64		40 - 135

Lab Sample ID: LCSD 320-45711/3-A
Matrix: Solid
Analysis Batch: 46936

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45711

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
2,3,7,8-TCDD	0.0000200	0.0000204		mg/Kg		102	60 - 138	0	20	
2,3,7,8-TCDF	0.0000200	0.0000180		mg/Kg		90	56 - 158	1	20	

TestAmerica Tallahassee

QC Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-45711/3-A

Matrix: Solid

Analysis Batch: 46936

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45711

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
1,2,3,7,8-PeCDD	0.000100	0.000104		mg/Kg		104	70 - 122	3	20
1,2,3,7,8-PeCDF	0.000100	0.0000971		mg/Kg		97	69 - 134	1	20
2,3,4,7,8-PeCDF	0.000100	0.0000972		mg/Kg		97	70 - 131	4	20
1,2,3,4,7,8-HxCDD	0.000100	0.000107		mg/Kg		107	60 - 138	13	20
1,2,3,6,7,8-HxCDD	0.000100	0.000103		mg/Kg		103	68 - 136	4	20
1,2,3,7,8,9-HxCDD	0.000100	0.000106		mg/Kg		106	68 - 138	7	20
1,2,3,4,7,8-HxCDF	0.000100	0.0000838		mg/Kg		84	74 - 128	3	20
1,2,3,6,7,8-HxCDF	0.000100	0.0000799		mg/Kg		80	67 - 140	4	20
2,3,4,6,7,8-HxCDF	0.000100	0.0000830		mg/Kg		83	71 - 137	3	20
1,2,3,7,8,9-HxCDF	0.000100	0.0000866		mg/Kg		87	72 - 134	3	20
1,2,3,4,6,7,8-HpCDD	0.000100	0.000102		mg/Kg		102	71 - 128	3	20
1,2,3,4,6,7,8-HpCDF	0.000100	0.0000970		mg/Kg		97	71 - 134	2	20
1,2,3,4,7,8,9-HpCDF	0.000100	0.000107		mg/Kg		107	68 - 129	2	20
OCDD	0.000200	0.000216		mg/Kg		108	70 - 128	1	20
OCDF	0.000200	0.000230		mg/Kg		115	63 - 141	1	20

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C-2,3,7,8-TCDD	65		40 - 135
13C-2,3,7,8-TCDF	67		40 - 135
13C-1,2,3,7,8-PeCDD	61		40 - 135
13C-1,2,3,7,8-PeCDF	66		40 - 135
13C-1,2,3,6,7,8-HxCDD	65		40 - 135
13C-1,2,3,4,7,8-HxCDF	72		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	71		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	71		40 - 135
13C-OCDD	64		40 - 135

Isotope Dilution Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
640-48133-3	SB-83 (0-0.5)	73	77	71	76	75	77	80	79
640-48133-3 - RA	SB-83 (0-0.5)		72						
640-48133-4	SB-83 (0.5-2)	83	84	79	83	87	93	92	91
640-48133-4 - RA	SB-83 (0.5-2)		83						
LCS 320-45711/2-A	Lab Control Sample	66	69	64	69	69	73	73	72
LCSD 320-45711/3-A	Lab Control Sample Dup	65	67	61	66	65	72	71	71
MB 320-45711/1-A	Method Blank	91	95	88	90	102	99	100	97

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OCDD (40-135)							
640-48133-3	SB-83 (0-0.5)	75							
640-48133-3 - RA	SB-83 (0-0.5)								
640-48133-4	SB-83 (0.5-2)	84							
640-48133-4 - RA	SB-83 (0.5-2)								
LCS 320-45711/2-A	Lab Control Sample	64							
LCSD 320-45711/3-A	Lab Control Sample Dup	64							
MB 320-45711/1-A	Method Blank	87							

Surrogate Legend

- TCDD = 13C-2,3,7,8-TCDD
- TCDF = 13C-2,3,7,8-TCDF
- PeCDD = 13C-1,2,3,7,8-PeCDD
- PeCDF1 = 13C-1,2,3,7,8-PeCDF
- HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
- HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
- HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
- HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
- OCDD = 13C-OCDD

QC Association Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Specialty Organics

Prep Batch: 45711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48133-3	SB-83 (0-0.5)	Total/NA	Solid	8290	
640-48133-3 - RA	SB-83 (0-0.5)	Total/NA	Solid	8290	
640-48133-4	SB-83 (0.5-2)	Total/NA	Solid	8290	
640-48133-4 - RA	SB-83 (0.5-2)	Total/NA	Solid	8290	
LCS 320-45711/2-A	Lab Control Sample	Total/NA	Solid	8290	
LCSD 320-45711/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	
MB 320-45711/1-A	Method Blank	Total/NA	Solid	8290	

Analysis Batch: 46936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-45711/2-A	Lab Control Sample	Total/NA	Solid	8290	45711
LCSD 320-45711/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	45711
MB 320-45711/1-A	Method Blank	Total/NA	Solid	8290	45711

Analysis Batch: 46939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48133-3	SB-83 (0-0.5)	Total/NA	Solid	8290	45711
640-48133-4	SB-83 (0.5-2)	Total/NA	Solid	8290	45711

Analysis Batch: 47239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48133-3 - RA	SB-83 (0-0.5)	Total/NA	Solid	8290	45711
640-48133-4 - RA	SB-83 (0.5-2)	Total/NA	Solid	8290	45711

Lab Chronicle

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Client Sample ID: SB-83 (0-0.5)

Date Collected: 06/03/14 09:42

Date Received: 06/04/14 16:30

Lab Sample ID: 640-48133-3

Matrix: Solid

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			45711	06/26/14 08:27	DXD	TAL SAC
Total/NA	Analysis	8290		1	46939	07/09/14 23:17	JRB	TAL SAC
Total/NA	Prep	8290	RA		45711	06/26/14 08:27	DXD	TAL SAC
Total/NA	Analysis	8290	RA	1	47239	07/11/14 14:04	KSS	TAL SAC

Client Sample ID: SB-83 (0.5-2)

Date Collected: 06/03/14 09:45

Date Received: 06/04/14 16:30

Lab Sample ID: 640-48133-4

Matrix: Solid

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			45711	06/26/14 08:27	DXD	TAL SAC
Total/NA	Analysis	8290		1	46939	07/09/14 23:59	JRB	TAL SAC
Total/NA	Prep	8290	RA		45711	06/26/14 08:27	DXD	TAL SAC
Total/NA	Analysis	8290	RA	1	47239	07/11/14 14:42	KSS	TAL SAC

Laboratory References:

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



Certification Summary

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Laboratory: TestAmerica Tallahassee

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-15
Georgia	State Program	4		06-30-15
Louisiana	NELAP	6	30663	06-30-15
New Jersey	NELAP	2	FL012	06-30-15
Texas	NELAP	6	T104704459-11-2	03-31-15
USDA	Federal		P330-08-00158	08-05-14

Laboratory: TestAmerica Sacramento

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-13 *
Arizona	State Program	9	AZ0708	08-11-15
Arkansas DEQ	State Program	6	88-0691	06-17-15
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Guam	State Program	9	N/A	08-31-14
Hawaii	State Program	9	N/A	01-29-15
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14
Michigan	State Program	5	9947	01-31-15
Nebraska	State Program	7	NE-OS-22-13	01-29-15
New Jersey	NELAP	2	CA005	06-30-15
Oregon	NELAP	10	CA200005	01-29-15
Pennsylvania	NELAP	3	9947	03-31-15
Texas	NELAP	6	T104704399-08-TX	05-31-15
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	02-28-15
Washington	State Program	10	C581	05-05-15
West Virginia (DW)	State Program	3	9930C	12-31-14
Wyoming	State Program	8	8TMS-Q	01-29-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Method	Method Description	Protocol	Laboratory
8290	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-48133-3	SB-83 (0-0.5)	Solid	06/03/14 09:42	06/04/14 16:30
640-48133-4	SB-83 (0.5-2)	Solid	06/03/14 09:45	06/04/14 16:30

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

2846 Industrial Plaza Drive

Tallahassee, FL 32301
phone 850.878.3994 fax

Regulatory Program: DW NPDES RCRA Other: *Maria Pages*

TestAmerica Laboratories, Inc.

Client Contact

Project Manager: Eddy Smith
Tel/Fax:

Site Contact: Britney Odum
Lab Contact: Amy Marks

Date: *6/14/14*
Carrier:

COC No. *1* of *2* COCs

SCS Engineers

7700 North Kendall Drive
Miami, Florida 33156
Phone 305.412.8185
FAX 305.412.8105

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS

TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sampler:
or Lab Use Only:
Talk-in Client:
Lab Sampling:

Project Name: Curtis Park
Site: 1901 NW 24th Ave, Miami, FL

P.O.#

Filtered Sample (Y/N)
Perform MS / MSD (Y/N)
Metals 6010 (Sb, As, Ba, Cu, Pb, Fe)
Metals 6010/7471 (Al, Cd, Cr, Hg, Se, Ag)
Dioxins (8290)
PCBs (8082)

640-48133 Chain of Custody

Lab / SDG No.:

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=Grab)

Matrix

of Cont.

Carrier

Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Carrier	Sample Specific Notes
SB-82 (0.0.5)	3/21/14	9:20	C	Soil	2		
SB-82 (0.5-2)		9:25	C	S	2		All metals and
SB-83 (0.0.5)		9:42	C	S	2		PAH's must be
SB-83 (0.5-2)		9:45	C	S	2		@ or below
SB-84 (0.0.5)		10:00	C	S	2		all governing
SB-84 (0.5-2)		10:03	C	S	2		SCF's. If this
SB-85 (0.0.5)		10:53	C	S	2		cannot be
SB-85 (0.5-2)		10:56	C	S	2		achieved please
SB-86 (0.0.5)		11:08	C	S	2		contact
SB-86 (0.5-2)		11:11	C	S	2		Maria Pages
SB-87 (0.0.5)		11:28	C	S	2		ASAP
SB-87 (0.5-2)		11:31	C	S	2		

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Non-Hazard Flammable Skin Irritant Poison B Unknown

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.42

Custody Seals Intact: Yes No

Custody Seal No.:

Coder Temp. (°C): Obs'd:

Corr'd:

Therm ID No.:

Relinquished by: *Maria Pages*

Company: *SCS*

Date/Time: *6/14/14*

Received by: *[Signature]*

Company: *TVA*

Date/Time: *6/13/14 1645*

Relinquished by:

Company:

Date/Time:

Received in Laboratory by:

Company:

Date/Time: *6/11/14 1630*

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
phone 850.878.3994 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: DW NPDES RCRA Other: *Varia Pages*

TestAmerica Laboratories, Inc.

Client Contact: SCS Engineers
7700 North Kendall Drive
Miami, Florida 33156
Phone: 305.412.8185 FAX: 305.412.8105
Project Name: Curtis Park
Site: 1901 NW 24th Ave, Miami, FL
P O #

Project Manager: Eddy Smith
Tel/Fax:
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grnd)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Metals 6010 (Sb, As, Ba, Cu, Pb, Fe)	Metals 6010/7471 (Al, Cd, Cr, Hg, Se, Ag)	Dioxins (8290)	PCBs (8082)	Carrier:	Date:	COC No.:	Sampler:	For Lab Use Only:	Walk-in Client:	Lab Sampling:	Job / SDG No.:	Sample Specific Notes:
<i>JB-88(0-0.5)</i>	<i>3/21/11</i>	<i>11:48</i>	<i>C</i>	<i>Soil</i>	<i>2</i>														<i>14D-48133</i>	
<i>SB-88(0.5-2)</i>	<i>4/11/11</i>	<i>11:51</i>	<i>C</i>	<i>S</i>	<i>2</i>															<i>All metals + PCBs must be at or below all governing SCLTS if this cannot be achieved contact Varia Pages ASAP</i>

Preservation Used: Ice High H2SO4 HNO3 H2O2 None Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Return to Client Disposal by Lab Archive for _____ Months

Custody Seal Intact: Yes No
Cooler Temp. (°C): Obs'd: _____ Cor'd: _____
Term ID No.: _____

Relinquished by: *W. P. Pags* Company: *SCS* Date/Time: *6/3/11 10:45*
Received by: *[Signature]* Company: *TA* Date/Time: *6/3/11 16:48*
Relinquished by: _____ Company: _____ Date/Time: _____
Received in Laboratory by: _____ Date/Time: _____