

PS Country Club, LLC  
1200 North Bundy Drive  
Los Angeles, California 90049

**Report of Phase II Investigation  
Former Palm Springs Country Club  
2500 North Whitewater Club Drive  
Palm Springs, California**

April 24, 2014

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File No. 10095-04  
Document No. 14-04-720



April 24, 2014

Project No.: 10095-04  
Document No. 14-04-720

PS Country Club, LLC  
1200 North Bundy Drive  
Los Angeles, California 90049

Attention: Mr. Eric Taylor

Subject: **Report of Phase II Investigation**

Project: Former Palm Springs Country Club  
2500 North Whitewater Club Drive  
Palm Springs, California

Reference: Earth Systems Southwest, *Report of Phase I Environmental Site Assessment, Former Palm Springs Country Club, APNs 669-480-010 and -027, 669-590-066 and 501-190-011, 2500 North Whitewater Club Drive, Palm Springs, Riverside County, California*, File No. 10095-03, Document No. 13-12-702, dated December 2, 2013.

Earth Systems Southwest [Earth Systems] is pleased to present this summary report concerning our Phase II subsurface investigation at the site referenced above. This report was prepared in accordance with our proposal dated December 30, 2013. Figures depicting the site location and layout are presented in Appendix A.

## **Background**

Earth Systems recently completed a Phase I Environmental Site Assessment [ESA] of the site. That ESA identified one issue as a "Recognized Environmental Conditions" [RECs], as summarized below.

1. A leak from a former UST was discovered when that UST was removed in 1989. The Riverside County Department of Environmental Health [RCDEH] required that the release from the UST be remediated, and a vacuum extraction system was used to reduce petroleum concentrations in the soil. A single confirmation boring in the center of the plume did not detect contamination in the soil in 1991, and the RCDEH issued a closure letter in March 1991. Note that some residual concentrations may still be present in the soil, which may pose an issue for the site if the land use changes and this location is transferred to another party. Further evaluation of the residual concentrations may be warranted, depending on the proposed land use for the former UST location.

## Purpose and Scope of Work

The purpose of this investigation was to evaluate whether residues of petroleum hydrocarbons are present in the former UST area at concentrations of concern. The scope of work is summarized below.

1. A site-specific health and safety plan was prepared in accordance with state and federal regulations and Earth Systems corporate policy.
2. The location of the former UST and remediation area was identified from prior reports prepared by others and obtained from the Riverside County Department of Environmental Health website. Five boring locations were selected within the footprint of the contaminated area and pre-marked, and Dig Alert was notified of our intention to drill at least 2 days before drilling began so they could mark the location of underground utilities. The boring locations are depicted in Figure 2.
3. The borings were drilled using a truck-mounted hollow-stem-auger drilling rig. Soil samples were collected at 5 foot intervals starting 5 feet below ground surface to a total depth of 25 feet. The samples were collected using a split-spoon sampler equipped with stainless steel rings. Upon retrieval, the rings were capped with Teflon tape and plastic end caps, labeled, logged onto a chain-of-custody form, placed in an ice-chest and transported to a chemical testing laboratory.
4. The soil was also examined in the field for soil type and evidence of contamination, including checking for the presence of hydrocarbon vapors using a portable photo-ionization detector. Logs of the borings are presented as Appendix B.
5. The samples were submitted to A and R Laboratories, a California-certified testing laboratory located in Ontario, California and analyzed for the following:
  - Total Petroleum Hydrocarbons as gasoline [TPHg] using Cal LUFT method
  - Total Petroleum Hydrocarbons as diesel [TPHd] using Cal LUFT method
  - Benzene, toluene, ethyl benzene and xylene [BTEX] using GCMS
6. This report has been prepared to summarize our activities, observations, and chemical testing results, and present our professional opinion regarding the presence or absence of contamination at the site.

## Findings

Soil encountered in the borings consisted of primarily dry, poorly graded sand and sand with gravel. Based on lower blow counts to drive the sampler into the soil and a lesser percentage of gravel than the other borings, it is presumed boring B-101 was located in fill from the removal of the former UST. A piece of concrete was encountered in the sampler tip at a depth

of 15 feet in boring B-103, also indicating that location was "fill" to a depth of at least 15 feet either before or after the UST was installed and removed.

Evidence of hydrocarbon staining or odors was not detected. PID readings were below 1 ppm except in Boring B-103, where a maximum PID reading of 19.2 ppm was recorded from the sample collected at 20 feet. Boring B-103 was also observed to contain minor rust discoloration and moderate odor similar to ammonia at 20 and 25 feet. The ammonia smell could be a residue of the remediation procedure, and is not considered significant.

Laboratory testing results are presented in Appendix C and summarized in Table 1 in Appendix A. As shown, petroleum hydrocarbons were not detected in the samples.

### Conclusions and Recommendations

Evidence of residual hydrocarbons at concentrations of concern were not detected during this investigation. The backfill of the UST area was not very dense, and this area will need to be over-excavated and re-compacted during development for engineering purposes. Special handling of the removed soil should not be needed.

Further investigations do not appear warranted.

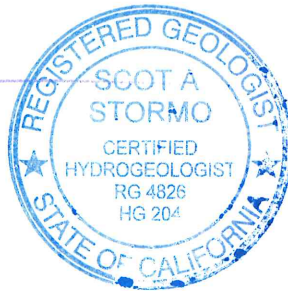
-oOo-

We trust this letter meets your needs at this time. If you have any questions or require additional information, please contact us at (760) 345-1588. Note that this report was prepared to address the concerns of the client and may not meet the needs of other users. Limitations on the use of this report are presented in Appendix D.

Respectfully submitted,  
**EARTH SYSTEMS SOUTHWEST**



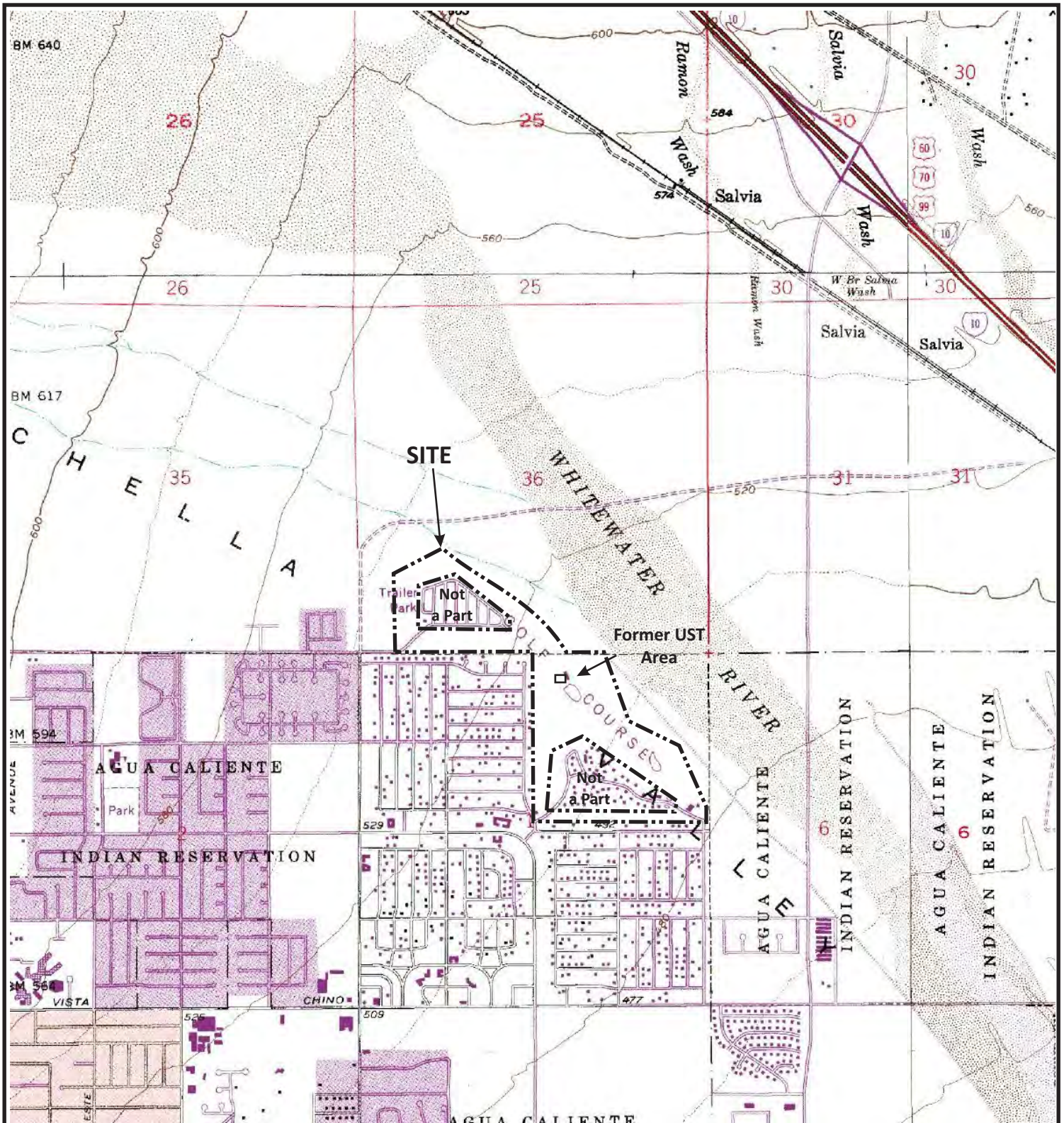
Scot A. Stormo, PG 4826, CHG 204  
President, Associate Hydrogeologist



Distribution: 6/Client  
1/BD File

Attachments: Appendix A – Figures and Tables  
Appendix B – Boring Logs  
Appendix C – Laboratory Report  
Appendix D – Limitations

**APPENDIX A**  
**Figures and Tables**



Base Map: USGS 7-1/2' Quadrangle, Palm Springs, Calif., 1957, photo-revised 1988.

--- Site Boundary

Scale: 1" = 2,000'



**Figure 1**  
**Site Location**

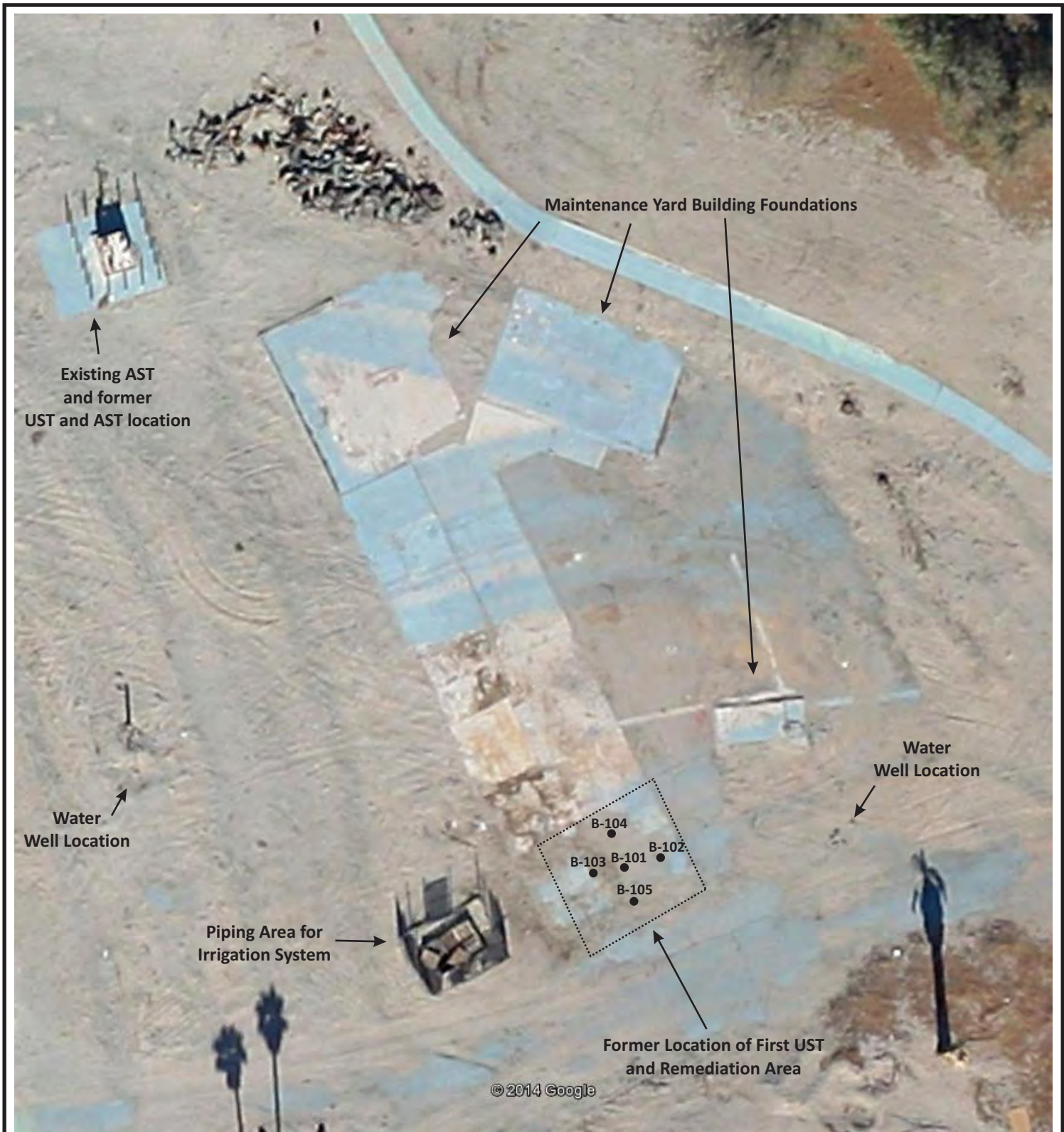
Former Palm Springs Country Club  
Palm Springs, Riverside County, California



**Earth Systems**  
**Southwest**

4/24/2014

File No.: 10095-04



Reference: Google Earth

**LEGEND**

Scale: 1" = 30'



**Figure 2  
Boring Locations**

Former Palm Springs Country Club  
Palm Springs, Riverside County, California



**Earth Systems  
Southwest**

4/24/2014

File No.: 10095-04

Table 1  
Summary of Laboratory Results

Sample ID	TPH-d	TPH-g*	BTEX**
B-101 @ 5'	<10	<0.50	ND < 0.0010
B-101 @ 10'	<10	<0.50	ND < 0.0010
B-101 @ 15'	<10	<0.50	ND < 0.0010
B-101 @ 20'	<10	<0.50	ND < 0.0010
B-101 @ 25'	<10	<0.50	ND < 0.0010
B-102 @ 5'	<10	<0.50	ND < 0.0010
B-102 @ 10'	<10	<0.50	ND < 0.0010
B-102 @ 15'	<10	<0.50	ND < 0.0010
B-102 @ 20'	<10	<0.50	ND < 0.0010
B-102 @ 25'	<10	<0.50	ND < 0.0010
B-103 @ 5'	<10	<0.50	ND < 0.0010
B-103 @ 10'	<10	<0.50	ND < 0.0010
B-103 @ 15'	<10	<0.50	ND < 0.0010
B-103 @ 20'	<10	<0.50	ND < 0.0010
B-103 @ 25'	<10	<0.50	ND < 0.0010
B-104 @ 5'	<10	<0.50	ND < 0.0010
B-104 @ 10'	<10	<0.50	ND < 0.0010
B-104 @ 15'	<10	<0.50	ND < 0.0010
B-104 @ 20'	<10	<0.50	ND < 0.0010
B-104 @ 25'	<10	<0.50	ND < 0.0010
B-105 @ 5'	<10	<0.50	ND < 0.0010
B-105 @ 10'	<10	<0.50	ND < 0.0010
B-105 @ 15'	<10	<0.50	ND < 0.0010
B-105 @ 20'	<10	<0.50	ND < 0.0010
B-105 @ 25'	<10	<0.50	ND < 0.0010

Notes:

All units mg/Kg unless otherwise noted

\* Total Petroleum Hydrocarbons as gasoline (C4-C12)

\*\* Benzene, Toluene, Ethylbenzene, Toluene



**APPENDIX B**  
**Boring Logs**



### Boring No: B-101

Project Name: Former Palm Springs Country Club

File Number: 10095-04

Boring Location: See Figure 2

Drilling Date: March 27, 2014

Drilling Method: 8" Hollow Stem Auger

Drill Type: Mobile B61 HDX w/Auto Hammer

Logged By: Rich Howe

Page 1 of 1

Depth (Ft.)	Sample Type 1.5 x 3" SS	Time	PID (ppm)	Lithology	USCS	DESCRIPTION OF UNITS
0					SP	POORLY GRADED SAND WITH GRAVEL: yellow brown, damp, fine grained sand, no odor or staining
						possible tank fill location
5		11:07	0.0			no odor or staining
10		11:16	0.0			no odor or staining
15		11:21	0.1			no odor or staining
20		11:28	0.1	no odor or staining		
25		11:35	0.0			no odor or staining
30						
35						
40						<p>Boring completed at 25 1/4 feet</p> <p>Backfilled with cuttings</p> <p>No groundwater encountered</p>

**Boring No: B-102**

Project Name: Former Palm Springs Country Club

File Number: 10095-04

Boring Location: See Figure 2

Drilling Date: March 27, 2014

Drilling Method: 8" Hollow Stem Auger

Drill Type: Mobile B61 HDX w/Auto Hammer

Logged By: Rich Howe

Page 1 of 1

Depth (Ft.)	Sample Type 1.5 x 3" SS	Time	PID (ppm)	Lithology	USCS	DESCRIPTION OF UNITS
0					SP	POORLY GRADED SAND WITH GRAVEL: light gray brown, moist, fine to medium grained sand, no odor or staining
5	█	10:32	0.0			no odor or staining
10	█	10:38	0.4			no odor or staining
15	█	10:43	0.4		SW	GRAVELLY SAND: gray to gray brown, moist, fine to coarse grained sand, no odor or staining
20	█	10:48	0.2		SP	POORLY GRADED SAND WITH GRAVEL: yellow brown, moist, fine grained sand, no odor or staining
25	█	10:51	0.2			no odor or staining
30						
35						
40						Boring completed at 25 1/4 feet Backfilled with cuttings No groundwater encountered



### Boring No: B-103

Project Name: Former Palm Springs Country Club

File Number: 10095-04

Boring Location: See Figure 2

Drilling Date: March 27, 2014

Drilling Method: 8" Hollow Stem Auger

Drill Type: Mobile B61 HDX w/Auto Hammer

Logged By: Rich Howe

Depth (Ft.)	Sample Type 1.5 x 3" SS	Time	PID (ppm)	Lithology	USCS	DESCRIPTION OF UNITS
0					SP	POORLY GRADED SAND WITH GRAVEL: yellow brown to rust brown, moist, fine grained sand, faint unknown odor
5		1:08	5.5			no odor or staining
10		1:12	4.4			no odor or staining
15		1:18	19.4			concrete in sampler tip @ 15', no odor or staining
20		1:24	19.2		SW	GRAVELLY SAND: gray, moist, fine to coarse grained sand, faint ammonia-like odor, no staining
25		1:27	8.4		SP	POORLY GRADED SAND WITH GRAVEL: yellow brown to rust brown, moist, faint ammonia-like odor, no staining
30						
35						
40						Boring completed at 25 1/4 feet Backfilled with cuttings No groundwater encountered

**Boring No: B-104**

Project Name: Former Palm Springs Country Club

File Number: 10095-04

Boring Location: See Figure 2

Drilling Date: March 27, 2014

Drilling Method: 8" Hollow Stem Auger

Drill Type: Mobile B61 HDX w/Auto Hammer

Logged By: Rich Howe

Page 1 of 1

Depth (Ft.)	Sample Type 1.5 x 3" SS	Time	PID (ppm)	Lithology	USCS	DESCRIPTION OF UNITS
0					SP	GRAVELLY SAND: yellow brown, damp, fine to medium grained sand, no odor or staining
5		11:54	0.0			no odor or staining
10		11:58	0.5		SW	GRAVELLY SAND: brown, damp, fine to coarse grained sand, no odor or staining
15		12:06	0.4			moist, no odor or staining
20		12:10	0.1		SM	SILTY SAND: light gray brown, damp, fine grained sand, no odor or staining
25		12:41	0.1		SW	GRAVELLY SAND: gray, moist, fine to coarse grained sand, no odor or staining
35						1 1/2" to 1 1/4" metal pipe uncovered about 6" BSG during auger removal. Unknown purpose, no damage.
40						Boring completed at 25 1/4 feet Backfilled with cuttings No groundwater encountered

**Boring No: B-105**

Project Name: Former Palm Springs Country Club

File Number: 10095-04

Boring Location: See Figure 2

Drilling Date: March 27, 2014

Drilling Method: 8" Hollow Stem Auger

Drill Type: Mobile B61 HDX w/Auto Hammer

Logged By: Rich Howe

Page 1 of 1

Depth (Ft.)	Sample Type 1.5 x 3" SS	Time	PID (ppm)	Lithology	USCS	DESCRIPTION OF UNITS
0					SP	POORLY GRADED SAND: yellow brown, damp, fine to medium grained sand, no odor or staining
5		9:28	0.0			no odor or staining
10		9:39	0.0		SW	GRAVELLY SAND: gray to yellow brown, damp, fine to coarse grained sand, no odor or staining
15		9:44	0.0			moist, no odor or staining
20		9:52	0.0		SP	POORLY GRADED SAND WITH GRAVEL: olive brown, moist, fine grained sand, no odor or staining
25		9:57	0.3		SW	GRAVELLY SAND: gray to olive brown, moist, fine to coarse grained sand, no odor or staining
30						
35						
40						Boring completed at 25 1/4 feet Backfilled with cuttings No groundwater encountered

**APPENDIX C**  
**Laboratory Reports**



# A & R Laboratories

Formerly Microbac Southern California

1650 S. GROVE AVE., SUITE C

ONTARIO, CA 91761

951-779-0310

www.arlaboratories.com

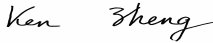
FAX 951-779-0344

office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#s	2789
	2790
	2122

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## CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	 Ken Zheng, President 04/01/2014 15:13:02
Laboratory Job No. (Certificate of Analysis No.)	1403-00116
Project Name / No.	FORMER PSCC 10095-04
Dates Sampled (from/to)	03/27/14 To 03/27/14
Dates Received (from/to)	03/27/14 To 03/27/14
Dates Reported (from/to)	04/01/14 To 4/1/2014
Chains of Custody Received	Yes

Comments:
-----------

Subcontracting
Organic Analyses
No analyses sub-contracted

Sample Condition(s)
All samples intact

Positive Results (Organic Compounds)
None





# A & R Laboratories

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## CERTIFICATE OF ANALYSIS

**1403-00116**

**EARTH SYSTEMS  
SCOT STORMO  
79-811B COUNTRY CLUB DRIVE  
INDIO, CA 92203**

Date Reported 04/01/14  
Date Received 03/27/14  
Invoice No. 71546  
Cust # 1035  
Permit Number  
Customer P.O. 10095-04

**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 B105@5'					Date & Time Sampled:		03/27/14 @	9:28
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	68		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	104		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	93		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	89		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 002 B105@10'					Date & Time Sampled:		03/27/14 @	9:39
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	82		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ



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## CERTIFICATE OF ANALYSIS

**1403-00116**

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INDIO, CA 92203**

Date Reported 04/01/14  
Date Received 03/27/14  
Invoice No. 71546  
Cust # 1035  
Permit Number  
Customer P.O. 10095-04

**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 B105@10'					Date & Time Sampled:		03/27/14	@ 9:39
Sample Matrix: Soil								
.....continued								
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	102		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	98		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	90		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 003 B105@15'					Date & Time Sampled:		03/27/14	@ 9:44
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	78		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYs by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	108		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	104		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	92		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 004 B105@20'					Date & Time Sampled:		03/27/14	@ 9:52
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ



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## CERTIFICATE OF ANALYSIS

### 1403-00116

**EARTH SYSTEMS**  
**SCOT STORMO**  
**79-811B COUNTRY CLUB DRIVE**  
**INDIO, CA 92203**

Date Reported 04/01/14  
Date Received 03/27/14  
Invoice No. 71546  
Cust # 1035  
Permit Number  
Customer P.O. 10095-04

**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 B105@20'							Date & Time Sampled: 03/27/14 @ 9:52	
Sample Matrix: Soil								
.....continued								
[Surrogate]								
o-Terphenyl (OTP)	71		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	105		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	103		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	96		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 005 B105@25'							Date & Time Sampled: 03/27/14 @ 9:57	
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	82		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								

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## CERTIFICATE OF ANALYSIS

**1403-00116**

**EARTH SYSTEMS  
SCOT STORMO  
79-811B COUNTRY CLUB DRIVE  
INDIO, CA 92203**

Date Reported 04/01/14  
Date Received 03/27/14  
Invoice No. 71546  
Cust # 1035  
Permit Number  
Customer P.O. 10095-04

**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 B105@25'							Date & Time Sampled: 03/27/14 @ 9:57	
Sample Matrix: Soil								
.....continued								
Dibromofluoromethane	107		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	101		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	98		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 006 B102@5'							Date & Time Sampled: 03/27/14 @ 10:32	
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	83		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYs by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	104		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	98		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	90		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 007 B102@10'							Date & Time Sampled: 03/27/14 @ 10:38	
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	66		%REC	EPA 8015B		50-150	03/30/14	KZ

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**SCOT STORMO**  
**79-811B COUNTRY CLUB DRIVE**  
**INDIO, CA 92203**

Date Reported 04/01/14  
Date Received 03/27/14  
Invoice No. 71546  
Cust # 1035  
Permit Number  
Customer P.O. 10095-04

**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 B102@10'					Date & Time Sampled:		03/27/14	@ 10:38
Sample Matrix: Soil								
.....continued								
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYs by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	104		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	99		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	92		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 008 B102@15'					Date & Time Sampled:		03/27/14	@ 10:43
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	71		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYs by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	117		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	103		%REC	EPA 8260B		70-130	03/29/14	KZ

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**SCOT STORMO**  
**79-811B COUNTRY CLUB DRIVE**  
**INDIO, CA 92203**

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Permit Number  
Customer P.O. 10095-04

**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 B102@15'								Date & Time Sampled: 03/27/14 @ 10:43
Sample Matrix: Soil								
.....continued								
Bromofluorobenzene	98		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 009 B102@20'								Date & Time Sampled: 03/27/14 @ 10:48
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	62		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYs by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	115		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	104		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	98		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 010 B102@25'								Date & Time Sampled: 03/27/14 @ 10:51
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	79		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ

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**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 010 B102@25'							Date & Time Sampled: 03/27/14 @ 10:51	
Sample Matrix: Soil								
.....continued								
[VOCs BTEX & OXYS by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	103		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	98		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	90		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 011 B101@5'							Date & Time Sampled: 03/27/14 @ 11:07	
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	85		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYS by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	104		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	102		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	94		%REC	EPA 8260B		70-130	03/29/14	KZ



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**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 012 B101@10'					Date & Time Sampled:		03/27/14	@ 11:16
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	86		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	115		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	104		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	96		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 013 B101@15'					Date & Time Sampled:		03/27/14	@ 11:21
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	67		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ





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Customer P.O. 10095-04

**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 B101@15'					Date & Time Sampled:		03/27/14	@ 11:21
Sample Matrix: Soil								
.....continued								
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	106		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	104		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	97		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 014 B101@20'					Date & Time Sampled:		03/27/14	@ 11:28
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	72		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	112		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	108		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	98		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 015 B101@25'					Date & Time Sampled:		03/27/14	@ 11:35
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 015 B101@25'							Date & Time Sampled: 03/27/14 @ 11:35	
Sample Matrix: Soil								
.....continued								
[Surrogate]								
o-Terphenyl (OTP)	63		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	105		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	102		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	94		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 016 B104@5'							Date & Time Sampled: 03/27/14 @ 11:54	
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	76		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								



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## CERTIFICATE OF ANALYSIS

**1403-00116**

**EARTH SYSTEMS  
SCOT STORMO  
79-811B COUNTRY CLUB DRIVE  
INDIO, CA 92203**

Date Reported 04/01/14  
Date Received 03/27/14  
Invoice No. 71546  
Cust # 1035  
Permit Number  
Customer P.O. 10095-04

**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 016 B104@5'							Date & Time Sampled: 03/27/14 @ 11:54	
Sample Matrix: Soil								
.....continued								
Dibromofluoromethane	110		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	103		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	92		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 017 B104@10'							Date & Time Sampled: 03/27/14 @ 11:58	
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	68		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYS by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	110		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	103		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	95		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 018 B104@10'							Date & Time Sampled: 03/27/14 @ 12:06	
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	63		%REC	EPA 8015B		50-150	03/30/14	KZ

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Cust # 1035  
Permit Number  
Customer P.O. 10095-04

**Project: FORMER PSSC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 018 B104@10' Sample Matrix: Soil .....continued							Date & Time Sampled: 03/27/14 @ 12:06	
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYs by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	106		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	103		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	97		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 019 B104@20' Sample Matrix: Soil							Date & Time Sampled: 03/27/14 @ 12:10	
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	72		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYs by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	105		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	101		%REC	EPA 8260B		70-130	03/29/14	KZ



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**SCOT STORMO**  
**79-811B COUNTRY CLUB DRIVE**  
**INDIO, CA 92203**

Date Reported 04/01/14  
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Cust # 1035  
Permit Number  
Customer P.O. 10095-04

**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 B104@20'						Date & Time Sampled:	03/27/14 @ 12:10	
Sample Matrix: Soil								
.....continued								
Bromofluorobenzene	96		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 020 B104@25'						Date & Time Sampled:	03/27/14 @ 12:41	
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	82		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYs by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Sample: 021 B103@5'						Date & Time Sampled:	03/27/14 @ 13:08	
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	71		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYs by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ

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**1403-00116**

**EARTH SYSTEMS  
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**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 021 B103@5' Sample Matrix: Soil .....continued							Date & Time Sampled: 03/27/14 @ 13:08	
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	110		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	96		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	90		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 022 B103@10' Sample Matrix: Soil							Date & Time Sampled: 03/27/14 @ 13:12	
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	83		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXYs by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	107		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	102		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	94		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 023 B103@15' Sample Matrix: Soil							Date & Time Sampled: 03/27/14 @ 13:18	
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 023 B103@15'							Date & Time Sampled:	03/27/14 @ 13:18
Sample Matrix: Soil								
.....continued								
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	84		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	108		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	101		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	93		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 024 B103@20'							Date & Time Sampled:	03/27/14 @ 13:24
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	66		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ

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**Project: FORMER PSCC**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 024 B103@20'							Date & Time Sampled: 03/27/14 @ 13:24	
Sample Matrix: Soil								
.....continued								
[VOC Surrogates]								
Dibromofluoromethane	108		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	99		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	92		%REC	EPA 8260B		70-130	03/29/14	KZ
Sample: 025 B103@25'							Date & Time Sampled: 03/27/14 @ 13:27	
Sample Matrix: Soil								
[Extractable Hydrocarbons]								
Waste Dilution	Complete			EPA 3580	1		03/29/14	KZ
Diesel	<10		mg/Kg	EPA 8015B	1	10	03/30/14	KZ
[Surrogate]								
o-Terphenyl (OTP)	61		%REC	EPA 8015B		50-150	03/30/14	KZ
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.50		mg/Kg	EPA 8015B	1	0.50	03/29/14	KZ
[VOCs BTEX & OXys by GCMS]								
Benzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Ethylbenzene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
Toluene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
m,p-Xylenes	<0.0020		mg/Kg	EPA 8260B	1	0.0020	03/29/14	KZ
o-Xylene	<0.0010		mg/Kg	EPA 8260B	1	0.0010	03/29/14	KZ
[VOC Surrogates]								
Dibromofluoromethane	105		%REC	EPA 8260B		70-130	03/29/14	KZ
Toluene-D8	98		%REC	EPA 8260B		70-130	03/29/14	KZ
Bromofluorobenzene	90		%REC	EPA 8260B		70-130	03/29/14	KZ

**Respectfully Submitted:**

*Ken Zheng*

Ken Zheng - Lab Director





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### QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.  
 B1 = BOD dilution water is over specifications . The reported result may be biased high.  
 D = Surrogate recoveries are not calculated due to sample dilution.  
 E = Estimated value; Value exceeds calibration level of instrument.  
 H = Analyte was prepared and/or analyzed outside of the analytical method holding time  
 I = Matrix Interference.  
 J = Analyte concentration detected between RL and MDL.  
 Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.  
 S = Customer provided specification limit exceeded.

### ABBREVIATIONS

DF = Dilution Factor  
 RL = Reporting Limit, Adjusted by DF  
 MDL = Method Detection Limit, Adjusted by DF  
 Qual = Qualifier  
 Tech = Technician

*As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.*

*For any feedback concerning our services, please contact Marilu Escher, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at arlab@arlaboratories.com.*





# A & R Laboratories

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FDA#	2030513
LA City#	10261
ELAP#s	2789
	2790
	2122

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## QUALITY CONTROL DATA REPORT

**1403-00116**

**EARTH SYSTEMS**

**Date Reported**

**04/01/2014**

**Date Received**

**03/27/2014**

**Date Sampled**

**03/27/2014**

### Project: FORMER PSCC

Method # EPA 8260B

QC Reference # 42636

Date Analyzed: 3/29/2014

Technician: KZ

Samples 021 022 023 024 025

#### Results

	LCS %REC	LCS %DUP	LCS %RPD
Benzene	96	92	5
Toluene	90	98	9

#### Control Ranges

LCS %REC	LCS %RPD
70 - 130	0 - 25
70 - 130	0 - 25

No method blank results were above reporting limit

**Respectfully Submitted:**

*Ken Zheng*

Ken Zheng - President

For any feedback concerning our services, please contact Marilu Escher, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at arlab@arlaboratories.com.



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Chain of Custody Record

1403 - 116

Form containing project details (Project No/Name: FORMER PSCC, Project Site: 10095-04, Project Manager: SCOT STORMO), analysis requested table (Micro: Plate Cnt., Coliform, E-Coli, etc.), and signature sections (1) Relinquished by, (2) Received by, (3) Relinquished by, (4) Received by, (5) Relinquished by, (6) Received for Laboratory by).

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# Chain of Custody Record

A & R Work Order #: **1403-116**

Page 2 of 3

Project No/Name: <b>FORMER PSCC</b>		Project Site: <b>10095-04</b>		<b>Analyses Requested</b> (circle appropriate)										Turn Around														
Project Manager: <b>SCOT STORMO</b>		Phone: <b>760 345-1588</b>		Fax: <b>760 345-7315</b>		<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td>Micro: Plate Cnt., Coliform, E-Coli</td> <td>Chem: BOD, TSS, VSS, TDS, pH, EC</td> <td>Chem: Cyanide, Ammonia, TKN, Oil &amp; Grease</td> <td>IC: Br, SO4, PO4, NO3, NO2, Cl</td> <td>Metals: Title 22(CAM) or RCRA</td> <td>LUFT Gas of 8015 GRO (C4-C12)</td> <td>LUFT Diesel or 8015 DRO &amp;lor Oil</td> <td>VOCs by GCMS: 8260B or 624</td> <td>BTEX, OXYs by GCMS: 8260B or 624</td> <td>SVOCs: 8270C or 625</td> <td>Pest. &amp;lor PCBs: 608 or 8081/8082</td> </tr> </table>										Micro: Plate Cnt., Coliform, E-Coli	Chem: BOD, TSS, VSS, TDS, pH, EC	Chem: Cyanide, Ammonia, TKN, Oil & Grease	IC: Br, SO4, PO4, NO3, NO2, Cl	Metals: Title 22(CAM) or RCRA	LUFT Gas of 8015 GRO (C4-C12)	LUFT Diesel or 8015 DRO &lor Oil	VOCs by GCMS: 8260B or 624	BTEX, OXYs by GCMS: 8260B or 624	SVOCs: 8270C or 625	Pest. &lor PCBs: 608 or 8081/8082	<input type="radio"/> 24hr RUSH* <input type="radio"/> 48hr RUSH* <input checked="" type="radio"/> Normal <input type="radio"/> Other _____	
Micro: Plate Cnt., Coliform, E-Coli	Chem: BOD, TSS, VSS, TDS, pH, EC	Chem: Cyanide, Ammonia, TKN, Oil & Grease	IC: Br, SO4, PO4, NO3, NO2, Cl	Metals: Title 22(CAM) or RCRA	LUFT Gas of 8015 GRO (C4-C12)											LUFT Diesel or 8015 DRO &lor Oil	VOCs by GCMS: 8260B or 624	BTEX, OXYs by GCMS: 8260B or 624	SVOCs: 8270C or 625	Pest. &lor PCBs: 608 or 8081/8082								
Customer Name: (Report and Billing) <b>EARTH SYSTEMS SW</b>		Street Address: (Report and Billing) <b>79811 B COUNTRY CLUB DR</b>		City, State Zip <b>BEANUDA DUNES, CA 92203</b>												*PRIOR approval, additional fee, work received after 4 pm will be processed next work day.												
Email: <b>SSTORMO@EARTHSYS.COM</b>						Special Instructions																						
Lab # <small>(Lab use only)</small>	Sample ID <small>(As it should appear on report)</small>	Grab/Comp	Date sampled	Time sampled	Sample matrix	Container # & Type	Preserved	Micro: Plate Cnt., Coliform, E-Coli	Chem: BOD, TSS, VSS, TDS, pH, EC	Chem: Cyanide, Ammonia, TKN, Oil & Grease	IC: Br, SO4, PO4, NO3, NO2, Cl	Metals: Title 22(CAM) or RCRA	LUFT Gas of 8015 GRO (C4-C12)	LUFT Diesel or 8015 DRO &lor Oil	VOCs by GCMS: 8260B or 624	BTEX, OXYs by GCMS: 8260B or 624	SVOCs: 8270C or 625	Pest. &lor PCBs: 608 or 8081/8082										
11	B101 @ 5'	G	3-27-14	11:07	Soil	1, SS							X	X	X	X												
12	B101 @ 10'			11:16									X	X	X	X												
13	B101 @ 15'			11:21									X	X	X	X												
14	B101 @ 20'			11:28									X	X	X	X												
15	B101 @ 25'			11:35									X	X	X	X												
16	B104 @ 5'			11:54									X	X	X	X												
17	B104 @ 10'			11:58									X	X	X	X												
18	B104 @ 15'			12:06									X	X	X	X												
19	B104 @ 20'			12:10									X	X	X	X												
20	B104 @ 25'			12:41									X	X	X	X												
1) Relinquished by: (Sampler's Signature) <i>[Signature]</i>		Date:	Time:	3) Relinquished by: <i>[Signature]</i>		Date:	Time:	5) Relinquished by:		Date:	Time:	6) Received for Laboratory by: <i>[Signature]</i>		Date:	Time:	7) Disposal												
2) Received by: <i>[Signature]</i>		Date:	Time:	4) Received by: <i>[Signature]</i>		Date:	Time:	6) Received for Laboratory by: <i>[Signature]</i>		Date:	Time:	7) Disposal				<input type="radio"/> Return <input checked="" type="radio"/> Lab Disposal Unless other arrangements are made samples will be disposed of 60 days after receipt.												
Samples Chilled <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> From Field		Custody Seals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Temp C <input type="checkbox"/>		Delivery <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Walk In <input type="checkbox"/> UPS/Fed Ex		Report Delivery Formats <input type="checkbox"/> Paper <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> XLS <input type="checkbox"/> EDD, Type _____ <input type="checkbox"/> EDF, EPA Site ID _____																		
Laboratory Notes:																												

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# Chain of Custody Record

A & R Work Order #: **1403-116**

Project No/Name: <b>FORNER PSCC</b>			Project Site: <b>10095-04</b>				<b>Analyses Requested</b> (circle appropriate) <table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr><td>Micro: Plate Cnt., Coliform, E-Coli</td><td></td></tr> <tr><td>Chem: BOD, TSS, VSS, TDS, pH, EC</td><td></td></tr> <tr><td>Chem: Cyanide, Ammonia, TKN, Oil &amp; Grease</td><td></td></tr> <tr><td>IC: Br, SO4, PO4, NO3, NO2, Cl</td><td></td></tr> <tr><td>Metals: Title 22(CAM) or RCRA</td><td></td></tr> <tr><td>LUFT Gas or 8015 GRO (C4-C12)</td><td style="text-align: center;">X</td></tr> <tr><td>LUFT Diesel or 8015 DRO &amp; for Oil</td><td style="text-align: center;">X</td></tr> <tr><td>VOCs by GCMS: 8260B or 624</td><td></td></tr> <tr><td>BTEX, OXYs by GCMS: 8260B or 624</td><td style="text-align: center;">X</td></tr> <tr><td>SVOCs: 8270C or 625</td><td></td></tr> <tr><td>Pest. &amp;/or PCBs: 608 or 808/8082</td><td></td></tr> </table>										Micro: Plate Cnt., Coliform, E-Coli		Chem: BOD, TSS, VSS, TDS, pH, EC		Chem: Cyanide, Ammonia, TKN, Oil & Grease		IC: Br, SO4, PO4, NO3, NO2, Cl		Metals: Title 22(CAM) or RCRA		LUFT Gas or 8015 GRO (C4-C12)	X	LUFT Diesel or 8015 DRO & for Oil	X	VOCs by GCMS: 8260B or 624		BTEX, OXYs by GCMS: 8260B or 624	X	SVOCs: 8270C or 625		Pest. &/or PCBs: 608 or 808/8082	
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Customer Name: (Report and Billing) <b>EARTH SYSTEMS SW</b>			Street Address: (Report and Billing) <b>79811 B Country Club DR</b>																																			
Email: <b>SSTORMO@earthsys.com</b>			City, State Zip <b>BERTRUDA DUNES, CA 92203</b>																																			
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<b>21</b>	<b>B103 @ 5'</b>	<b>G</b>	<b>3-27-14</b>	<b>1:08</b>	<b>Soil</b>	<b>1, 55</b>							X	X		X																						
<b>22</b>	<b>B103 @ 10'</b>	<b>I</b>	<b>I</b>	<b>1:12</b>	<b>I</b>	<b>I</b>							X	X		X																						
<b>23</b>	<b>B103 @ 15'</b>	<b>I</b>	<b>I</b>	<b>1:18</b>	<b>I</b>	<b>I</b>							X	X		X																						
<b>24</b>	<b>B103 @ 20'</b>	<b>I</b>	<b>I</b>	<b>1:24</b>	<b>I</b>	<b>I</b>							X	X		X																						
<b>25</b>	<b>B103 @ 25'</b>	<b>I</b>	<b>I</b>	<b>1:27</b>	<b>I</b>	<b>I</b>							X	X		X																						
1) Relinquished by: (Sampler's Signature) <i>Mike Hove</i>		Date:	Time:	3) Relinquished by: <i>MAZ</i>		Date:	Time:	5) Relinquished by:		Date:	Time:																											
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**APPENDIX D**  
**Limitations**

## **Appendix D**

### **Limitations**

This report has been prepared for the exclusive use of PSCC, Inc. The conclusions and recommendations rendered in this report are opinions based on readily available information obtained to date within the scope of the work authorized by the client. The scope of work for this project was developed to address the needs of the client and may not meet the needs of other users. Any other use of or reliance on the information and opinions contained in this report without the written authorization of Earth Systems is at the sole risk of the user.

The results contained in this report are based upon the information acquired during the investigation, and may include information obtained from third parties. Earth Systems makes no claim as to the accuracy of the information obtained from others. It should be noted that any level of assessment cannot ascertain that a property is completely free of chemical or toxic substances. It is possible that variations exist beyond or between points explored during the course of the investigation, and that changes in conditions can occur in the future due to the works of man, contaminant migration, variations in rainfall, temperature, and/or other factors not apparent at the time of the field investigation.

The services performed by Earth Systems have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the site vicinity. No warranty is expressed or implied.