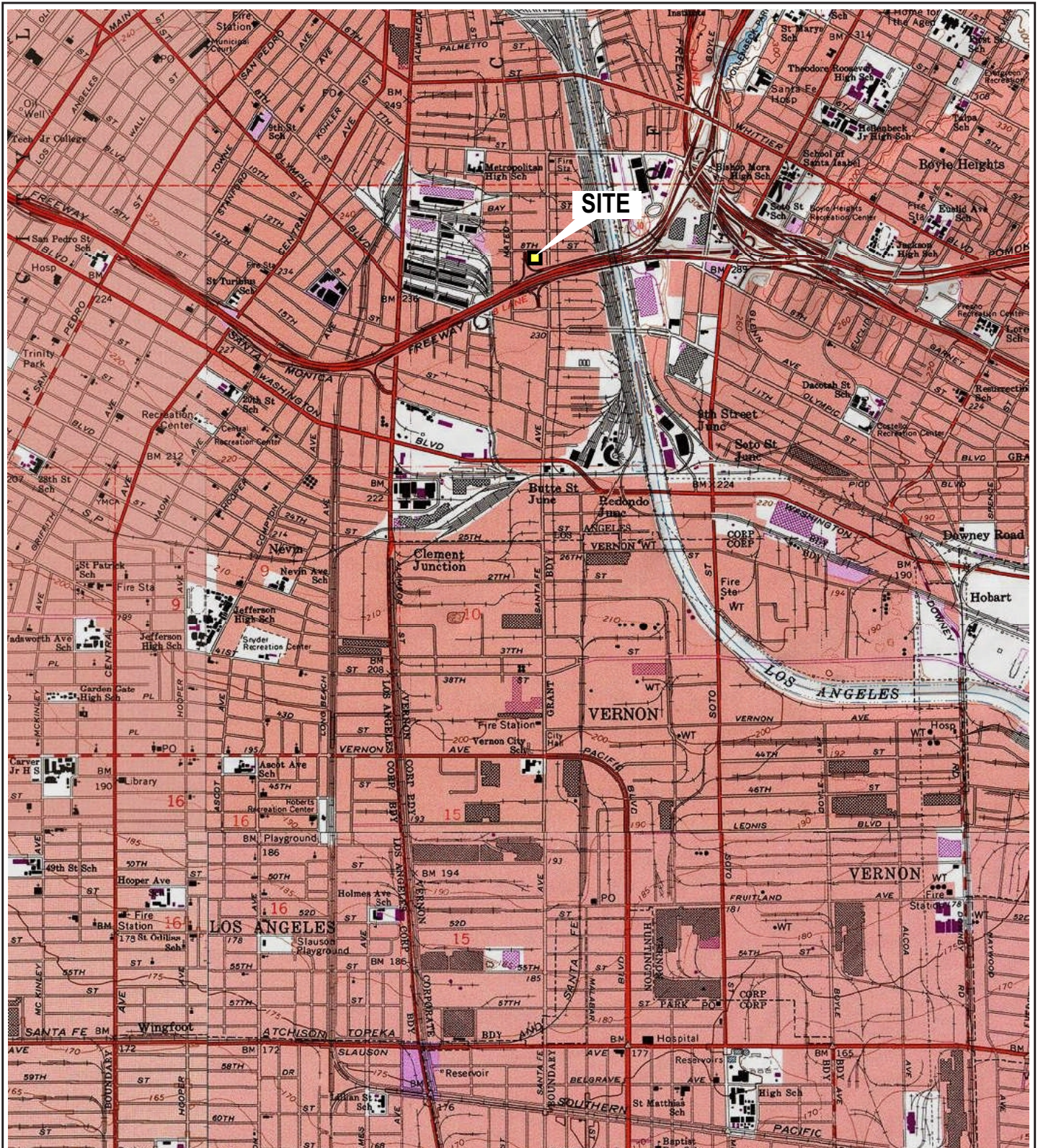
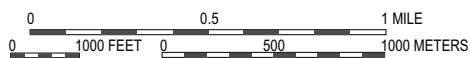


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FIGURES



Approximate Scale



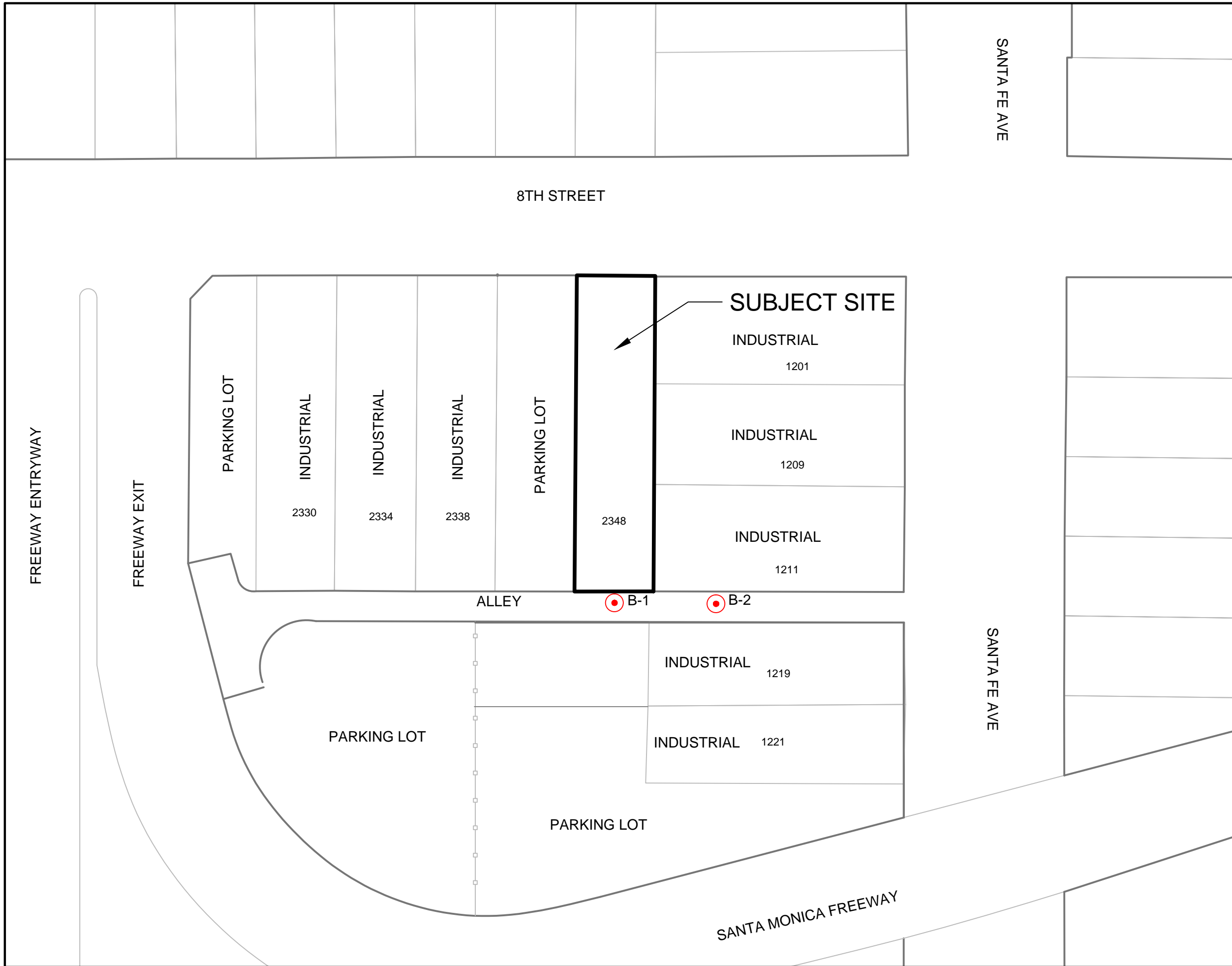
LOCATION

REFERENCE: TOPOI 2001 National Geographic Holdings


SITE VICINITY MAP

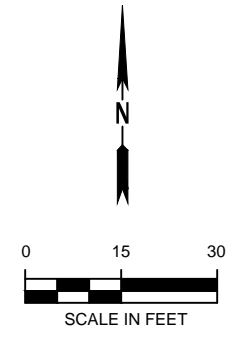
Project No.:29403648	Date: MAY 2013	Project: FORMER WESTERN ELECTROCHEMICAL COMPANY 2348 E. 8TH STREET, LOS ANGELES CA	Figure 1
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EXPLANATION

B-1  SOIL BORING LOCATION AND DESIGNATION



BORING LOCATIONS

PROJ. NUM.	29403648	DATE:	MAY 2013
PROJECT:	FORMER WESTERN ELECTROCHEMICAL COMPANY	FIGURE:	2
ADDRESS 2348 E. 8TH STREET, LOS ANGELES CA			

APPENDIX A

EXCAVATION / PERMIT FOR EXCAVATION
 IN OR ADJACENT TO PUBLIC STREETS
 CHAPTER 6, ARTICLE 2, LOS ANGELES MUNICIPAL CODE

DPW ENGINEERING
 CENTRAL
 CR 25 51 096828 07/16/13 09:08AM

51 172 E PERMIT EXCAVATION <=1,000
 1.00 X \$425.00 \$425.00

51 163 SPECIAL INSP REG RATE / HR
 8.00 X \$95.00 \$760.00

51 204 STREET DAMAGE RESTORATN-MINR
 1.00 X \$6.48 \$6.48

51 193 SDRF/SSDRF CALCULATE SURCHARGE
 1.00 X \$18.00 \$18.00

E-1350-0062

Total Due: \$1,209.48
 No Fee: \$1,209.48

NO FEE NO FEE NO FEE

Name: DEPT OF TOXIC SUB CNTRL
 Addr: 9211 OAKDALE AVENUE
 CHATSWORTH, CA 91311
 Auth: 1
 Dept: 78/PWB0E

HAVE A NICE DAY

NOT VALID UNLESS REGISTER VALIDATED OR RECEIPT SHOWN

RECEIPT NO.

Two (2) Soil Borings - (One 8th St. & One in Alley)

INSURANCE EXPIRES

MISC. RECEIPT NO.

SS WORK HAS

ED

of the Municipal
 Iments thereto,

and any special requirements made part of this permit.

Call Bureau of Contract Administration for inspection
 prior to commencing work: (213) 485-5080.

X 

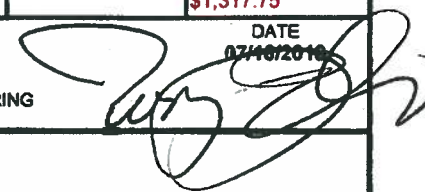
PRINT NAME **Anastasia DeSantis**
 Department of Toxic Substances Control - State of CA

	QTY	RATE	SUBTOTAL
E-permit Excavation <=1,000	1	\$425.00	\$425.00
A-Permit Basic Fee	0	\$265.00	\$0.00
Revocable Permit	0	\$0.00	\$0.00
E-Permit Special Eng Fee	0.00	\$145.00	\$0.00
Special Insp Reg Rate / Hr (4 hrs min.)	8	\$95.00	\$760.00
Tie-Back (Less than 20 ft. below street surface)	0	\$605.00	\$0.00
Tie Back (20 ft. or more below street surface)	0	\$605.00	\$0.00
Left De-Tensioned Anc Rode/Ea	0	\$2,040.00	\$0.00
Street Damage Restoratn-SDRF	1	\$6.48	\$6.48
Slurry Seal Damage Restrtn Fee-SSDRF	0 sq. ft.		
SDRF/SSDRF Eng Admin	1	\$18.00	\$18.00
2% SURCHARGE			\$24.06
7% SURCHARGE			\$84.21
TOTAL			\$1,317.75

BY
 Terry Phan

DATE
 07/16/2013

BUREAU OF ENGINEERING

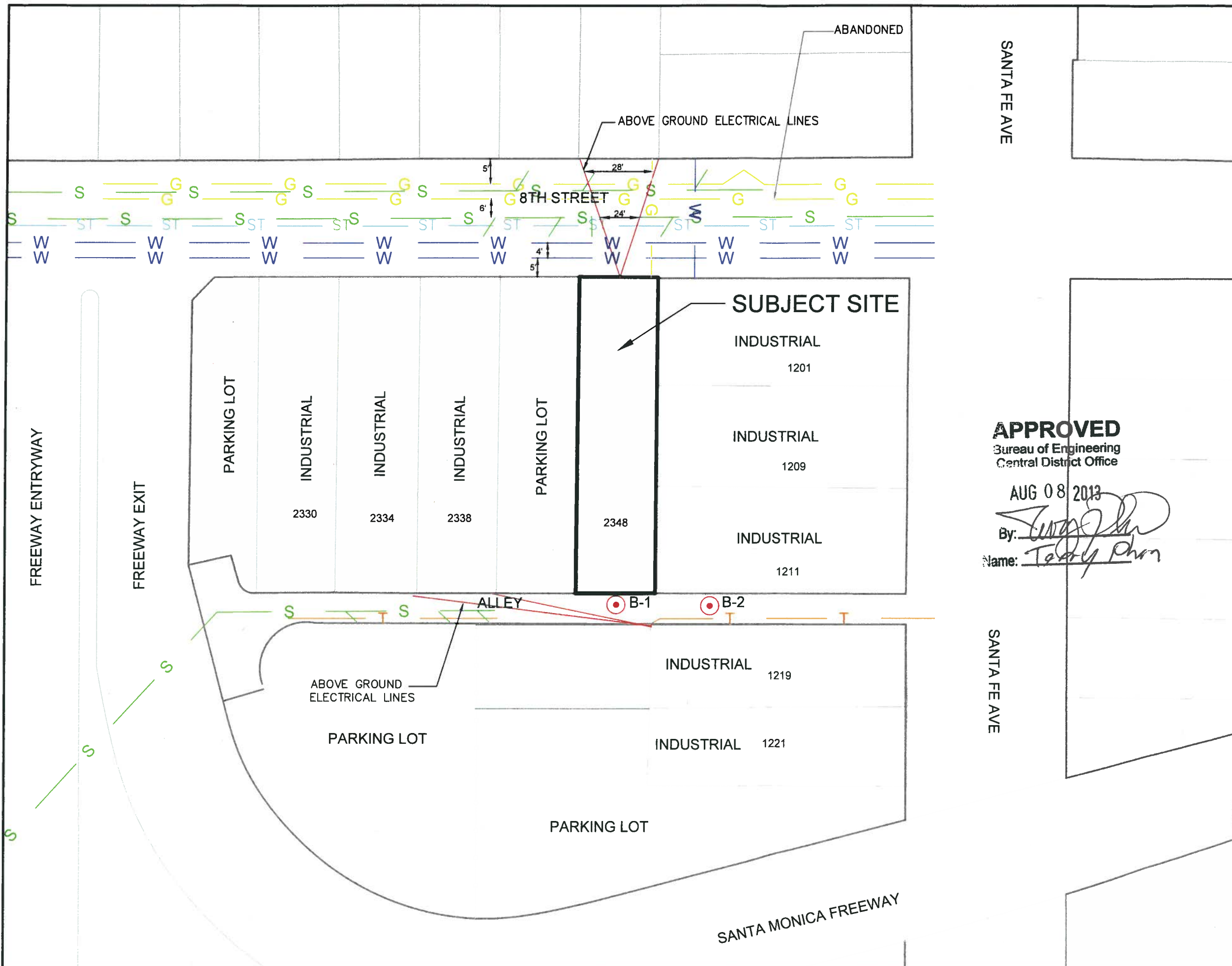


STREETS AFFECTED

SPECIAL DEPOSIT PERMIT NO.

E-1350-0062

JOB ADDRESS
 2348 E. 8th St.



EXPLANATION

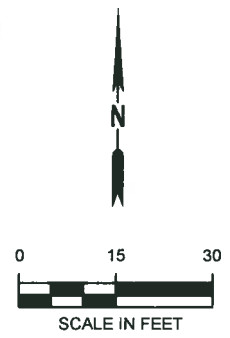
- B-1 PROPOSED SOIL BORING LOCATION AND DESIGNATION
- SEWER LINE
- TELEPHONE LINE
- WATER LINE
- GAS LINE
- STORM DRAIN

NOTE: SEWER LATERALS ONLY SHOWN WITH 50 FEET OF SUBJECT SITE

APPROVED
Bureau of Engineering
Central District Office

AUG 08 2013

By:
Name: Terry Pham



UPDATED UTILITY MAP

PROJ. NUM.	29403648	DATE:	MAY 2013
PROJECT:	FORMER WESTERN ELECTROCHEMICAL COMPANY	FIGURE:	2
ADDRESS 2348 E. 8TH STREET, LOS ANGELES CA			

APPENDIX B

Project: DTSC- WECCO
 Project Location: 2348 E. 8th St. Los Angeles, CA.
 Project Number: 29403648.3000

Key to Log of Borings

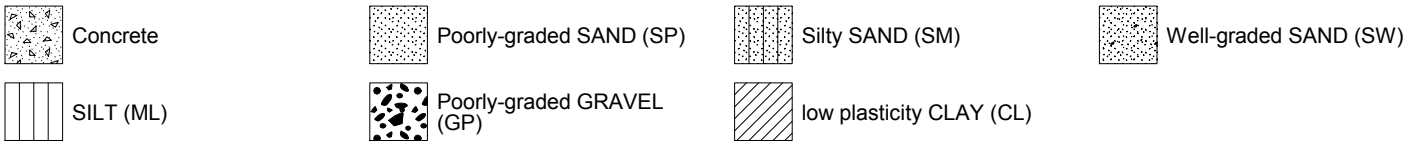
Sheet 1 of 1

Elevation, feet MSL	Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	PID Headspace (ppm)	PID Background (ppm)	Sample time	REMARKS
		Type	Number	Blows/ 6 inches	Inches Recovered							
1	2	3	4	5	6	7	8	9	10	11	12	

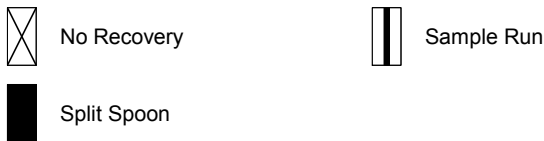
COLUMN DESCRIPTIONS

- | | |
|---|---|
| <p>1 Elevation: Elevation in feet referenced to mean sea level (MSL) or site datum.</p> <p>2 Depth: Depth in feet below the ground surface.</p> <p>3 Sample Type: Type of soil sample collected at depth interval shown; sampler symbols are explained below.</p> <p>4 Sample Number: Sample identification number.</p> <p>5 Blows per Foot: Number of blows required to advance driven sampler 1 foot using a 140-lb hammer with a 30-inch drop.</p> <p>6 Inches Recovered Inches recovered in sampler over inches driven.</p> | <p>7 Graphic Log: Graphic depiction of subsurface material encountered; typical symbols are explained below.</p> <p>8 Material Description: Description of material encountered; may include color, moisture, grain size, and density/consistency.</p> <p>9 : Organic Vapor Analyzer field sample headspace reading in parts per million (ppm)</p> <p>10 :</p> <p>11 Sample Time: Time in 24-hour clock during downhole advance recorded when samples collected and other field activities performed.</p> <p>12 Remarks: Comments and observations regarding drilling or sampling made by driller or field personnel.</p> |
|---|---|

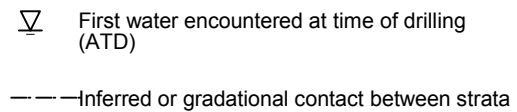
TYPICAL MATERIAL GRAPHIC SYMBOLS



TYPICAL SAMPLER GRAPHIC SYMBOLS



OTHER GRAPHIC SYMBOLS



GENERAL NOTES

- Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive; actual lithologic changes may be gradual.

Project: DTSC- WECCO
 Project Location: 2348 E. 8th St. Los Angeles, CA.
 Project Number: 29403648.3000

Log of Boring B-1

Sheet 1 of 5

Date(s) Drilled	8/1/2013	Logged By	S. DeSantis	Checked By	A. Bahou
Drilling Method	Hollow Stem Auger	Drilling Contractor	BC2 Environmental	Total Depth of Borehole ft bgs	117.0
Drill Rig Type	LAR- CME 75	Borehole Diameter (inches)	8"	Approx. Surface Elevation ft msl	
Approx. Depth Groundwater Encountered	Not encountered	Sampler Type	California Modified Split Spoon	Borehole Backfill	Cement/ bentonite grout
Comments Airknife to 8 ft bgs.					

Depth, feet	SAMPLES				MATERIAL DESCRIPTION	PID Headspace (ppm)	PID Background (ppm)	Sample Time	REMARKS
	Type	Number	Blows/ 6 inches	Inches Recovered					
0					9 inches asphalt.				
		B-1-1		6/6	Dark brown (10YR 3/3), silty fine SAND (SM), moist, no odor, no staining.	1.5	0.0	930	
					Yellowish brown (10YR 5/4), fine to medium SAND w/ trace silt (SP), moist, no odor, no staining.				
5		B-1-5		6/6		0.5	0.0	940	
		B-1-10	9 11 14	8/18		0.8	0.0	1050	
10					Becomes fine to coarse SAND (SW), medium dense.				
		B-1-15	11 13 16	9/18		0.6	0.0	1102	
15									
		B-1-20	25 50 for 4"	10/18		0.9	0.0	1110	
20					Becomes dark yellowish brown (10YR 4/4), fine to coarse SAND w/ trace gravel (SW).				
		B-1-25	31 50 for 1"	3/18		NM	NM	1117	NM= Not measured
25									

Project: DTSC- WECCO
 Project Location: 2348 E. 8th St. Los Angeles, CA.
 Project Number: 29403648.3000

Log of Boring B-1

Sheet 2 of 5

Depth, feet	SAMPLES				MATERIAL DESCRIPTION	PID Headspace (ppm)	PID Background (ppm)	Sample Time	REMARKS
	Type	Number	Blows/ 6 inches	Inches Recovered					
25					Becomes dark brown (10YR 3/3), coarse SAND (SP), dense.				Drill rig chatter. Probable gravel/cobbles.
30		B-1-30	14 18 22	18/18	Dark brown (10YR 3/3) SILT (ML), moist, stiff, no odor, no staining	1.8	0.0	1122	NM= Not measured
35		B-1-35	27 50 for 2"	8/18	Coarse SAND (SP), moist, no odor, no staining.	1.0	0.0	1200	Drill rig chatter.
40		B-1-40	50 for 5"	5/18	Becomes grayish brown (10YR 5/2), coarse SAND w/ gravel (SP), moist, very dense, no odor, no staining.	1.0	0.0	1210	Drill rig chatter.
45		B-1-45	50 for 5"	5/18	Dark brown (10YR 3/3), medium to coarse GRAVEL (GP), moist, very dense, no odor, no staining.	4.0	0.0	1215	Drill rig chatter. Probable large cobbles.
50		B-1-50	50 for 3"	3/18				1230	
		B-1-55	50	4/18		4.7	0.0	1250	

Project: DTSC- WECCO
 Project Location: 2348 E. 8th St. Los Angeles, CA.
 Project Number: 29403648.3000

Log of Boring B-1

Sheet 3 of 5

Depth, feet	SAMPLES				MATERIAL DESCRIPTION	PID Headspace (ppm)	PID Background (ppm)	Sample Time	REMARKS
	Type	Number	Blows/ 6 inches	Inches Recovered					
55			for 4"		Becomes coarse GRAVEL w/ coarse sand (GP).				
60		B-1-60	50 for 4"	4/18	Dark brown (10YR 3/3), coarse SAND w/ gravel (SP), moist, very dense, no odor, no staining.	3.1	0.0	1305	
65		B-1-65	50 for 5"	5/18	Becomes brownish yellow (10YR 6/8).	4.7	0.0	1315	
70		B-1-70	75 for 4"	4/18		8.2	0.0	1330	
75		B-1-75	75 for 4"	4/18		4.0	0.0	1345	Drill rig chatter.
80		B-1-80	31 50 for 1"	7/18	Becomes dark brown, fine to coarse SAND (SW).	3.0	0.0	1410	

Project: DTSC- WECCO
 Project Location: 2348 E. 8th St. Los Angeles, CA.
 Project Number: 29403648.3000

Log of Boring B-1


Sheet 4 of 5

Depth, feet	SAMPLES				MATERIAL DESCRIPTION	PID Headspace (ppm)	PID Background (ppm)	Sample Time	REMARKS
	Type	Number	Blows/ 6 inches	Inches Recovered					
85		B-1-85	25 50 for 1"	7/18	Dark gray (10YR 4/1), sandy SILT (ML), moist, stiff, no odor, no staining.	6.0	0.0	1425	
90		B-1-90	31 50 for 2"	8/18	Dark gray (10YR 4/1), CLAY (CL), moist, very stiff, no odor, no staining.	9.6	0.0	1432	
95		B-1-95	50 for 5"	5/18	Dark gray (10YR 4/1), silty fine SAND (SM), moist, dense, no odor, no staining.	6.7	0.0	1530	
100		B-1-100	50 for 5"	5/18	Becomes very dark gray (10YR 3/1), silty fine to medium SAND (SM).	6.5	0.0	1540	
105		B-1-105	50 for 5"	5/18	Gray (10YR 6/1), GRAVEL w/ sand (GP), moist, no odor, no staining.	5.8	0.0	1605	Drill rig chatter.
110		B-1-110	50 for 4"	4/18		5.0	0.0	1645	

Project: DTSC- WECCO
 Project Location: 2348 E. 8th St. Los Angeles, CA.
 Project Number: 29403648.3000

Log of Boring B-1

Sheet 5 of 5

Depth, feet	SAMPLES				MATERIAL DESCRIPTION	PID Headspace (ppm)	PID Background (ppm)	Sample Time	REMARKS
	Type	Number	Blows/ 6 inches	Inches Recovered					
115		B-1-115	50 for 4"	4/18		5.8	0.0	1705	
					Refusal at 117 ft bgs. No groundwater encountered.				
120									
125									
130									
135									
140									

Project: DTSC- WECCO
 Project Location: 2348 E. 8th St. Los Angeles, CA
 Project Number: 29403648.3000

Log of Boring B-2

Sheet 1 of 5

Date(s) Drilled	9/9/2013	Logged By	S. DeSantis	Checked By	A. Bahou
Drilling Method	Hollow Stem Auger	Drilling Contractor	Gregg Drilling	Total Depth of Borehole ft bgs	135.0
Drill Rig Type	CME-95	Borehole Diameter (inches)	8"	Approx. Surface Elevation ft msl	
Approx. Depth Groundwater Encountered	128	Sampler Type	California Modified Split Spoon	Borehole Backfill	Hydrated bentonite chips.
Comments Airknife to 8 ft bgs. Drill straight to 120 ft bgs and begin sampling.					

Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	PID Headspace (ppm)	PID Background (ppm)	Sample Time	REMARKS
	Type	Number	Blows/ 6 inches	Inches Recovered						
0						9 inches asphalt.				
						Not logged from 0-120 fet bgs. See boring log B-1 located approximately 30 feet to the west.				
5										
10										
15										
20										
25										

Project: DTSC- WECCO
 Project Location: 2348 E. 8th St. Los Angeles, CA
 Project Number: 29403648.3000

Log of Boring B-2

Sheet 2 of 5

Depth, feet	SAMPLES				MATERIAL DESCRIPTION	PID Headspace (ppm)	PID Background (ppm)	Sample Time	REMARKS
	Type	Number	Blows/ 6 inches	Inches Recovered					
25					Not logged from 0-120 fet bgs. See boring log B-1 located approximately 30 feet to the west.				
30									
35									
40									
45									
50									

Project: DTSC- WECCO

Project Location: 2348 E. 8th St. Los Angeles, CA

Project Number: 29403648.3000

Log of Boring B-2

Sheet 3 of 5

Depth, feet	SAMPLES				MATERIAL DESCRIPTION	PID Headspace (ppm)	PID Background (ppm)	Sample Time	REMARKS
	Type	Number	Blows/ 6 inches	Inches Recovered					
55					Not logged from 0-120 fet bgs. See boring log B-1 located approximately 30 feet to the west.				
60									
65									
70									
75									
80									

Project: DTSC- WECCO
 Project Location: 2348 E. 8th St. Los Angeles, CA
 Project Number: 29403648.3000

Log of Boring B-2



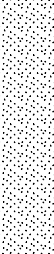
Sheet 4 of 5

Depth, feet	SAMPLES				MATERIAL DESCRIPTION	PID Headspace (ppm)	PID Background (ppm)	Sample Time	REMARKS
	Type	Number	Blows/ 6 inches	Inches Recovered					
85					Not logged from 0-120 fet bgs. See boring log B-1 located approximately 30 feet to the west.				
90									
95									
100									
105									
110									

Project: DTSC- WECCO
 Project Location: 2348 E. 8th St. Los Angeles, CA
 Project Number: 29403648.3000

Log of Boring B-2

Sheet 5 of 5

Depth, feet	SAMPLES				MATERIAL DESCRIPTION	PID Headspace (ppm)	PID Background (ppm)	Sample Time	REMARKS
	Type	Number	Blows/ 6 inches	Inches Recovered					
115									
120		B-2-120	29 50 for 6"	18/18	 Very dark gray (10YR 3/1), CLAY w/ fine SAND (CL), moist, very stiff, no odor, black chips of staining.	0.0	0.0	1324	
125		B-2-125	13 21 37	18/18	 Light gray (10YR 7/1), fine poorly graded SAND (SP), moist, no odor, no staining.	0.0	0.0	1329	
130		B-2-130	25 25 36	18/18	 Light gray (10YR 7/1), fine poorly graded SAND w/ trace silt (SP), wet, no odor, no staining.	0.0	0.0	1340	
135					Boring terminated at 135 ft bgs. Set temporary well and collected water sample. Groundwater encountered at 128 ft bgs.				
140									

APPENDIX C

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
NOT REQUIRED

2. Page 1 of
1

3. Emergency Response Phone
888-423-8060

4. Waste Tracking Number
0405125

5. Generator's Name and Mailing Address
DTSC - Chatsworth
9211 Oakdale Avenue, Chatsworth, CA. 91311
Generator's Phone: **(818) 717-8500**

Generator's Site Address (if different than mailing address)
Former Western Electro Chemical Company
2346 E. 8th St., Los Angeles, CA. 90021

6. Transporter 1 Company Name
American Integrated Services, Inc.

U.S. EPA ID Number
CAR000148338

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street

U.S. EPA ID Number
CAD028409019

Facility's Phone: **Long Beach, CA. 90813 562-432-6445**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non-Hazardous Waste Solid (Soil)	1	DM	350	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-8060 (AIS Dispatcher).
D85371
Profile #: 94133
Project #: 33009-3-55
1X55G

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name: **Anastasia DeSantis on behalf of DTSC** Signature: *[Signature]* Month: **8** Day: **2** Year: **13**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **Ben Burgos** Signature: *[Signature]* Month: **8** Day: **2** Year: **13**

Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: **Amoye** Signature: *[Signature]* Month: **8** Day: **2** Year: **13**

GENERATOR

INT'L TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
NOT REQUIRED

2. Page 1 of 1

3. Emergency Response Phone
888-423-6060

4. Waste Tracking Number
0404643

5. Generator's Name and Mailing Address
DTSC - Chatsworth
5211 Oakdale Avenue, Chatsworth, CA. 91311
Generator's Phone: (818) 717-8500

Generator's Site Address (if different than mailing address)
Former Western Electro Chemical Company
2348 E. 8th St., Los Angeles, CA. 90021

6. Transporter 1 Company Name
American Integrated Services, Inc.

U.S. EPA ID Number
CAR000148338

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Crosby & Overton, Inc.
1630 W. 17th Street
Long Beach, CA. 90819 562-432-6445

U.S. EPA ID Number
CAD028408019

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non-Hazardous Waste Solid (Soil)	6	DM	3000	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6060 (AIS Dispatcher).

D85325

Profile #: 94133
Project #: 33009-3-55

6x55G

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offorer's Printed/Typed Name: Anastasia Desantis on behalf DTSC
Signature: [Signature]
Month: 8 Day: 1 Year: 13

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ben Burgos
Signature: [Signature]
Month: 8 Day: 1 Year: 13

Transporter 2 Printed/Typed Name: [Blank]
Signature: [Blank]
Month: Day: Year:

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Gabriela Navarrete
Signature: [Signature]
Month: 8 Day: 02 Year: 13

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number
NOT REQUIRED

2. Page 1 of
1

3. Emergency Response Phone
888-423-8060

4. Waste Tracking Number
0404644

5. Generator's Name and Mailing Address
DTSC - Chatsworth
9211 Catalina Avenue, Chatsworth, CA. 91311
Generator's Phone: **(818) 717-6500**

Generator's Site Address (if different than mailing address)
Former Western Electro Chemical Company
2348 E. 8th St., Los Angeles, CA. 90021

6. Transporter 1 Company Name
American Integrated Services, Inc.

U.S. EPA ID Number
CAR000148398

7. Transporter 2 Company Name

U.S. EPA ID Number


8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street
Facility's Phone: **Long Beach, CA. 90813 562-432-6446**

U.S. EPA ID Number
CAD028408018

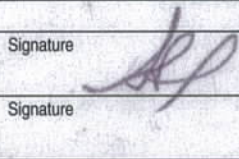
9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non-Hazardous Waste Liquid (Dacon Water)	1	DM	45	G
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-8060 (AIS Dispatcher).
D85326.
Profile #: 27578
Project #: 39009-3-55
1X559

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name
Anastasia DeSantis on behalf of DTSC Signature  Month **8** Day **2** Year **13**

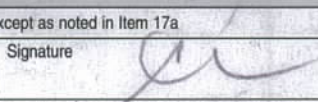
15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name **Ben Burgos** Signature  Month **8** Day **2** Year **13**
Transporter 2 Printed/Typed Name Signature Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

H135

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name **Amorfin** Signature  Month **8** Day **2** Year **13**

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
NOT REQUIRED

2. Page 1 of
1

3. Emergency Response Phone
888-423-6080

4. Waste Tracking Number
0405629

5. Generator's Name and Mailing Address
DTSC - Chatsworth
8211 Oakdale Avenue, Chatsworth, CA. 91311
Generator's Phone: **(818) 717-8500**

Generator's Site Address (if different than mailing address)
Former Western Electro Chemical Company
2348 E. 8th St., Los Angeles, CA. 90021

6. Transporter 1 Company Name
American Integrated Services, Inc.

U.S. EPA ID Number
CAR000148338

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street

U.S. EPA ID Number
CAD028408019

Facility's Phone: **Long Beach, CA. 90813 562-432-6445**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non-Hazardous Waste Solid (Soil)	7	DM	3.500	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6080 (AIS Dispatcher).

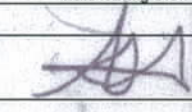
Profile #: 94133
Project #: 39009-3-55 7X556

D87087

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: **Adriana DeJantis on behalf of DTSC** Signature:  Month: **9** Day: **9** Year: **13**

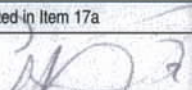
15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: **Ben Burges** Signature:  Month: **9** Day: **9** Year: **13**
Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____
17c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: **Habby Navarrete** Signature:  Month: **10** Day: **11** Year: **13**

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
NOT REQUIRED

2. Page 1 of
1

3. Emergency Response Phone
888-423-6060

4. Waste Tracking Number
0405630

5. Generator's Name and Mailing Address
DTSC - Chatsworth
9211 Oatlands Avenue, Chatsworth, CA. 91311
Generator's Phone: **(818) 717-0500**

Generator's Site Address (if different than mailing address)
Former Western Electro Chemical Company
2348 E. 8th St., Los Angeles, CA. 90021

6. Transporter 1 Company Name
American Integrated Services, Inc.

U.S. EPA ID Number
CAR000148338

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Crosby & Overton, Inc.
1630 W. 17th Street

U.S. EPA ID Number
CAD028408019

Facility's Phone: **Long Beach, CA. 90815 562-432-6445**

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1. **Non-Hazardous Waste Solid (Soil)**

No.

Type

600

P

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6060 (AIS Dispatcher).

D87086

Profile #: **94133**

Project #: **33008-3-55**

1x55G

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offror's Printed/Typed Name

Anastasia DeSantis on behalf of DTSC

Signature

[Signature]

Month Day Year
9 | 10 | 13

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Ben Burgos

Signature

[Signature]

Month Day Year
9 | 10 | 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Bobby Namek

Signature

[Signature]

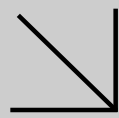
Month Day Year
09 | 11 | 13

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

APPENDIX D



CALSCIENCE

WORK ORDER NUMBER: 13-09-0514

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: URS Corporation

Client Project Name: DTSC Wecco / 29403648

Attention: Alexis Bahou
915 Wilshire Blvd., Suite 700
Los Angeles, CA 90017-3437

Vikas Patel

Approved for release on 09/19/2013 by:
Vikas Patel
Project Manager

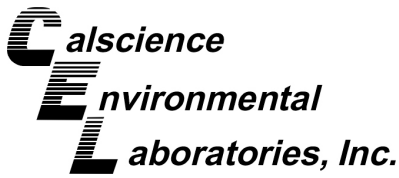
ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.





Contents

Client Project Name: DTSC Wecco / 29403648
Work Order Number: 13-09-0514

1	Work Order Narrative.	3
2	Detections Summary.	4
3	Client Sample Data.	5
	3.1 EPA 314.0 Perchlorate (Aqueous).	5
	3.2 EPA 314.0 (M) Perchlorate (Solid).	6
4	Quality Control Sample Data.	7
	4.1 MS/MSD.	7
	4.2 LCS/LCSD.	9
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6	Glossary of Terms and Qualifiers.	12
7	Chain of Custody/Sample Receipt Form.	13

Work Order Narrative

Work Order: 13-09-0514

Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 09/09/13. They were assigned to Work Order 13-09-0514.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

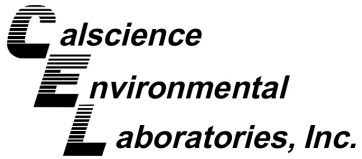
All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



Detections Summary

Client: URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Work Order: 13-09-0514
 Project Name: DTSC Wecco / 29403648
 Received: 09/09/13

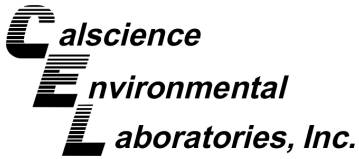
Attn: Alexis Bahou

Page 1 of 1

Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
B-2 (13-09-0514-4) Perchlorate	9.5		2.0	ug/L	EPA 314.0	N/A

Subcontracted analyses, if any, are not included in this summary.



Analytical Report

URS Corporation
915 Wilshire Blvd., Suite 700
Los Angeles, CA 90017-3437

Date Received: 09/09/13
Work Order: 13-09-0514
Preparation: N/A
Method: EPA 314.0
Units: ug/L

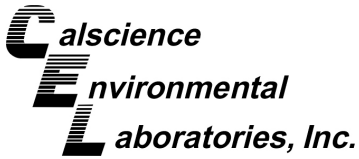
Project: DTSC Wecco / 29403648

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2	13-09-0514-4-A	09/09/13 14:10	Aqueous	IC 13	N/A	09/18/13 11:00	130918L01A
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Perchlorate		9.5	2.0		1		
EQ Blank	13-09-0514-5-A	09/09/13 14:20	Aqueous	IC 13	N/A	09/18/13 11:14	130918L01A
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Perchlorate		ND	2.0		1		
Method Blank	099-05-203-1791	N/A	Aqueous	IC 13	N/A	09/18/13 10:31	130918L01A
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Perchlorate		ND	2.0		1		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

URS Corporation
915 Wilshire Blvd., Suite 700
Los Angeles, CA 90017-3437

Date Received: 09/09/13
Work Order: 13-09-0514
Preparation: Cartridge
Method: EPA 314.0 (M)
Units: ug/kg

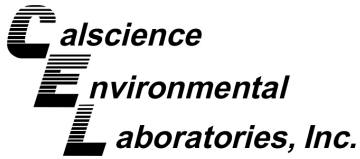
Project: DTSC Wecco / 29403648

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2-120	13-09-0514-1-A	09/09/13 13:24	Solid	IC 13	09/17/13	09/18/13 08:36	130918L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-2-125	13-09-0514-2-A	09/09/13 13:29	Solid	IC 13	09/17/13	09/18/13 08:50	130918L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-2-130	13-09-0514-3-A	09/09/13 13:40	Solid	IC 13	09/17/13	09/18/13 09:05	130918L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
Method Blank	099-05-205-799	N/A	Solid	IC 13	09/17/13	09/18/13 07:10	130918L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Quality Control - Spike/Spike Duplicate

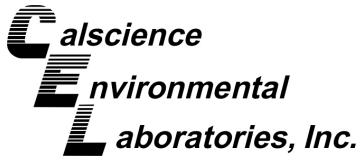
URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Date Received: 09/09/13
 Work Order: 13-09-0514
 Preparation: N/A
 Method: EPA 314.0

Project: DTSC Wecco / 29403648

Page 1 of 2

Quality Control Sample ID	Matrix		Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
B-2	Aqueous		IC 13	N/A	09/18/13 11:29	130918S01A				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Perchlorate	9.470	50.00	59.66	100	57.09	95	80-120	4	0-15	



Quality Control - Spike/Spike Duplicate

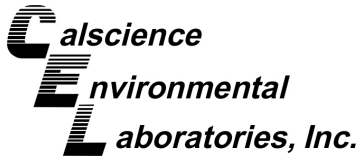
URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Date Received: 09/09/13
 Work Order: 13-09-0514
 Preparation: Cartridge
 Method: EPA 314.0 (M)

Project: DTSC Wecco / 29403648

Page 2 of 2

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number					
B-2-120	Solid	IC 13	09/17/13	09/18/13 09:19	130918S01					
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Perchlorate	ND	500.0	519.8	104	521.8	104	80-120	0	0-15	



Quality Control - LCS

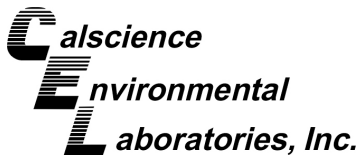
URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Date Received: 09/09/13
 Work Order: 13-09-0514
 Preparation: N/A
 Method: EPA 314.0

Project: DTSC Wecco / 29403648

Page 1 of 2

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number	
099-05-203-1791	Aqueous	IC 13	09/18/13 10:46	130918L01A	
<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Perchlorate	25.00	26.38	106	85-115	



Quality Control - LCS

URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Date Received: 09/09/13
 Work Order: 13-09-0514
 Preparation: Cartridge
 Method: EPA 314.0 (M)

Project: DTSC Wecco / 29403648

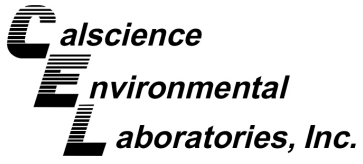
Page 2 of 2

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number
099-05-205-799	Solid	IC 13	09/18/13 07:24	130918L01

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Perchlorate	250.0	271.8	109	85-115	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Sample Analysis Summary Report

Work Order: 13-09-0514

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 314.0	N/A	877	IC 13	1
EPA 314.0 (M)	Cartridge	877	IC 13	1


Return to Contents

Glossary of Terms and Qualifiers

Work Order: 13-09-0514

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

WO # / LAB USE ONLY
13-09-0514

Calscience Environmental Laboratories, Inc.
 7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
 Other CA office locations: Concord and San Luis Obispo
 For courier service / sample drop off information, contact sales@calscience.com or call us.

LABORATORY CLIENT: URS Corporation
 ADDRESS: 915 Wilshire Blvd Suite 700
 CITY: Los Angeles STATE: CA ZIP: 90017
 TEL: 915-996-2200 E-MAIL: Alexis.Bahou@URS.com
 TURNAROUND TIME: SAME DAY 24 HR 48 HR 72 HR STANDARD
 COELT EDF GLOBAL ID

CLIENT PROJECT NAME / NUMBER: DISC WEGG 89403648
 P.O. NO.:
 PROJECT CONTACT: Alexis Bahou
 SAMPLER(S): (PRINT) Staa DeSantis

REQUESTED ANALYSES

Please check box or fill in blank as needed.

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(g) <input type="checkbox"/> DRO	<input type="checkbox"/> TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	<input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	<input type="checkbox"/> VOCs (8260)	<input type="checkbox"/> Oxygenates (8260)	<input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input type="checkbox"/> SVOCs (8270)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	<input type="checkbox"/> T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
--	--	--	---	--------------------------------------	--	---	---------------------------------------	--	--------------------------------------	---	---	--

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	LOG CODE		
		DATE	TIME			Unpreserved	Preserved	Field Filtered
1	B-a-120	9/9/13	1324	Soil	1	X		
2	B-a-125	9/9/13	1329	Soil	1	X		
3	B-a-130	9/9/13	1340	Soil	1	X		
4	B-a	9/9/13	1410	w	1	X		
5	EQ Blank	9/9/13	1420	w	1	X		

Relinquished by: (Signature) [Signature]
 Relinquished by: (Signature) [Signature]
 Relinquished by: (Signature) _____

Received by: (Signature/Affiliation) Danny Le...
 Date: 9/9/13 Time: 16:49
 Received by: (Signature/Affiliation) _____
 Date: _____ Time: _____
 Received by: (Signature/Affiliation) _____
 Date: _____ Time: _____

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: URS

DATE: 09/09/13

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 4.1 °C - 0.2°C (CF) = 3.9 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: bc

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: bc

Sample _____ No (Not Intact) Not Present Initial: [Signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (S) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s
 500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB
 250PB 250PB_n 125PB 125PB_{z_{na}} 100PJ 100PJ_{na2} 100PJ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** [Signature]

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** TN

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** TN

Return to Contents



CALSCIENCE

WORK ORDER NUMBER: 13-08-0100

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: URS Corporation

Client Project Name: Wecco DTSC / 29403648

Attention: Alexis Bahou
915 Wilshire Blvd., Suite 700
Los Angeles, CA 90017-3437

Vikas Patel

Approved for release on 08/08/2013 by:
Vikas Patel
Project Manager

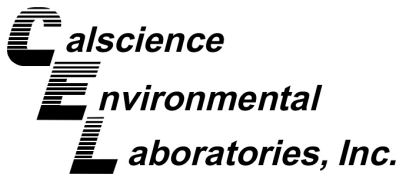
ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.





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Client Project Name: Wecco DTSC / 29403648
Work Order Number: 13-08-0100

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Work Order Narrative

Work Order: 13-08-0100

Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 08/01/13. They were assigned to Work Order 13-08-0100.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

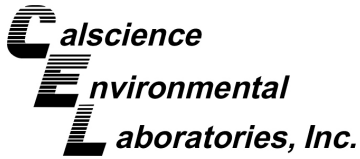
All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



Detections Summary

Client: URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Work Order: 13-08-0100
 Project Name: Wecco DTSC / 29403648
 Received: 08/01/13

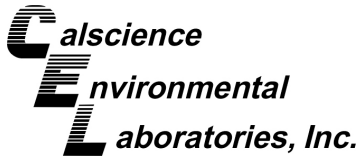
Attn: Alexis Bahou

Page 1 of 1

Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
B-1-1 (13-08-0100-1) Perchlorate	31		20	ug/kg	EPA 314.0 (M)	Cartridge
B-1-30 (13-08-0100-8) Perchlorate	32		20	ug/kg	EPA 314.0 (M)	Cartridge
B-1-80 (13-08-0100-18) Perchlorate	200		20	ug/kg	EPA 314.0 (M)	Cartridge

Subcontracted analyses, if any, are not included in this summary.



Analytical Report

URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Date Received: 08/01/13
 Work Order: 13-08-0100
 Preparation: N/A
 Method: EPA 314.0
 Units: ug/L

Project: Wecco DTSC / 29403648

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQ BLANK	13-08-0100-26-A	08/01/13 18:00	Aqueous	IC 13	N/A	08/07/13 18:11	130807L01

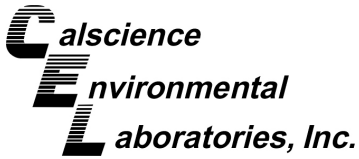
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Perchlorate	ND	2.0	1	

Method Blank	099-05-203-1759	N/A	Aqueous	IC 13	N/A	08/07/13 16:48	130807L01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Perchlorate	ND	2.0	1	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

URS Corporation
915 Wilshire Blvd., Suite 700
Los Angeles, CA 90017-3437

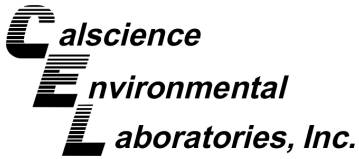
Date Received: 08/01/13
Work Order: 13-08-0100
Preparation: Cartridge
Method: EPA 314.0 (M)
Units: ug/kg

Project: Wecco DTSC / 29403648

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1-1	13-08-0100-1-A	08/01/13 09:30	Soil	IC 13	08/03/13	08/03/13 17:55	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		31		20		1	
B-1-5	13-08-0100-2-A	08/01/13 09:40	Soil	IC 13	08/03/13	08/03/13 18:09	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-10	13-08-0100-3-A	08/01/13 10:50	Soil	IC 13	08/03/13	08/03/13 18:24	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-15	13-08-0100-4-A	08/01/13 11:02	Soil	IC 13	08/03/13	08/03/13 18:39	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-20	13-08-0100-5-A	08/01/13 11:10	Soil	IC 13	08/03/13	08/03/13 18:54	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-20-DUP	13-08-0100-6-A	08/01/13 11:10	Soil	IC 13	08/03/13	08/03/13 19:09	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-25	13-08-0100-7-A	08/01/13 11:17	Soil	IC 13	08/03/13	08/03/13 19:24	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-30	13-08-0100-8-A	08/01/13 11:22	Soil	IC 13	08/03/13	08/03/13 19:39	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		32		20		1	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

URS Corporation
915 Wilshire Blvd., Suite 700
Los Angeles, CA 90017-3437

Date Received: 08/01/13
Work Order: 13-08-0100
Preparation: Cartridge
Method: EPA 314.0 (M)
Units: ug/kg

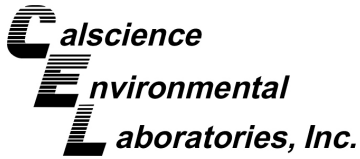
Project: Wecco DTSC / 29403648

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1-35	13-08-0100-9-A	08/01/13 12:00	Soil	IC 13	08/03/13	08/03/13 19:54	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-40	13-08-0100-10-A	08/01/13 12:10	Soil	IC 13	08/03/13	08/03/13 20:09	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-45	13-08-0100-11-A	08/01/13 12:15	Soil	IC 13	08/03/13	08/03/13 21:23	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-50	13-08-0100-12-A	08/01/13 12:30	Soil	IC 13	08/03/13	08/03/13 21:38	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-55	13-08-0100-13-A	08/01/13 12:50	Soil	IC 13	08/03/13	08/03/13 21:53	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-60	13-08-0100-14-A	08/01/13 13:05	Soil	IC 13	08/03/13	08/03/13 22:08	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-65	13-08-0100-15-A	08/01/13 13:15	Soil	IC 13	08/03/13	08/03/13 22:23	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-70	13-08-0100-16-A	08/01/13 13:30	Soil	IC 13	08/03/13	08/03/13 22:38	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

URS Corporation
915 Wilshire Blvd., Suite 700
Los Angeles, CA 90017-3437

Date Received: 08/01/13
Work Order: 13-08-0100
Preparation: Cartridge
Method: EPA 314.0 (M)
Units: ug/kg

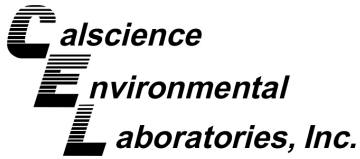
Project: Wecco DTSC / 29403648

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1-75	13-08-0100-17-A	08/01/13 13:45	Soil	IC 13	08/03/13	08/03/13 22:53	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-80	13-08-0100-18-A	08/01/13 14:10	Soil	IC 13	08/03/13	08/03/13 23:08	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		200		20		1	
B-1-85	13-08-0100-19-A	08/01/13 14:25	Soil	IC 13	08/05/13	08/05/13 16:08	130805L02
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-90	13-08-0100-20-A	08/01/13 14:32	Soil	IC 13	08/05/13	08/05/13 16:23	130805L02
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-95	13-08-0100-21-A	08/01/13 15:30	Soil	IC 13	08/05/13	08/05/13 16:55	130805L02
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-100	13-08-0100-22-A	08/01/13 15:40	Soil	IC 13	08/05/13	08/05/13 17:09	130805L02
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-105	13-08-0100-23-A	08/01/13 16:05	Soil	IC 13	08/05/13	08/05/13 17:23	130805L02
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
B-1-110	13-08-0100-24-A	08/01/13 16:45	Soil	IC 13	08/05/13	08/05/13 19:47	130805L02
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

URS Corporation
915 Wilshire Blvd., Suite 700
Los Angeles, CA 90017-3437

Date Received: 08/01/13
Work Order: 13-08-0100
Preparation: Cartridge
Method: EPA 314.0 (M)
Units: ug/kg

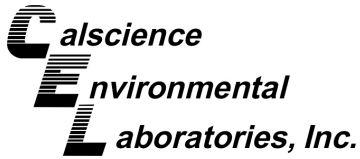
Project: Wecco DTSC / 29403648

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1-115	13-08-0100-25-A	08/01/13 17:05	Soil	IC 13	08/05/13	08/05/13 20:59	130805L02
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
Method Blank	099-05-205-773	N/A	Soil	IC 13	08/03/13	08/03/13 17:25	130803L01A
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	
Method Blank	099-05-205-772	N/A	Soil	IC 13	08/05/13	08/05/13 15:38	130805L02
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Perchlorate		ND		20		1	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Quality Control - Spike/Spike Duplicate

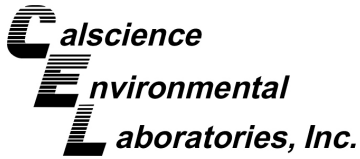
URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Date Received: 08/01/13
 Work Order: 13-08-0100
 Preparation: N/A
 Method: EPA 314.0

Project: Wecco DTSC / 29403648

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Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number					
13-08-0486-1	Aqueous	IC 13	N/A	08/07/13 17:33	130807S01					
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Perchlorate	ND	50.00	53.04	106	53.83	108	80-120	1	0-15	



Quality Control - Spike/Spike Duplicate

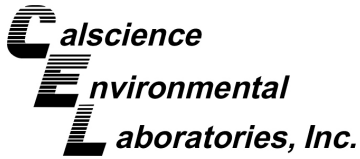
URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Date Received: 08/01/13
 Work Order: 13-08-0100
 Preparation: Cartridge
 Method: EPA 314.0 (M)

Project: Wecco DTSC / 29403648

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Quality Control Sample ID	Matrix		Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
B-1-5	Soil		IC 13	08/03/13	08/03/13 20:24	130803S01A				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Perchlorate	ND	500.0	491.4	98	499.0	100	80-120	2	0-15	



Quality Control - Spike/Spike Duplicate

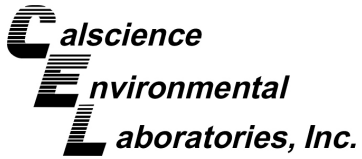
URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Date Received: 08/01/13
 Work Order: 13-08-0100
 Preparation: Cartridge
 Method: EPA 314.0 (M)

Project: Wecco DTSC / 29403648

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Quality Control Sample ID	Matrix		Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
B-1-110	Soil		IC 13	08/05/13	08/05/13 20:02	130805S02				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Perchlorate	ND	500.0	545.0	109	551.0	110	80-120	1	0-15	



Quality Control - LCS

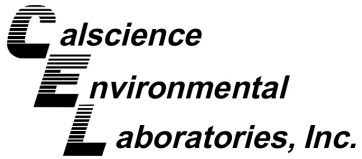
URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Date Received: 08/01/13
 Work Order: 13-08-0100
 Preparation: N/A
 Method: EPA 314.0

Project: Wecco DTSC / 29403648

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Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number	
099-05-203-1759	Aqueous	IC 13	08/07/13 17:03	130807L01	
<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Perchlorate	25.00	24.95	100	85-115	



Quality Control - LCS

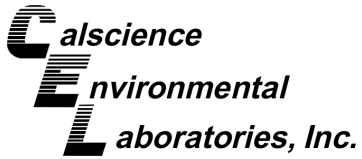
URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Date Received: 08/01/13
 Work Order: 13-08-0100
 Preparation: Cartridge
 Method: EPA 314.0 (M)

Project: Wecco DTSC / 29403648

Page 2 of 3

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number	
099-05-205-773	Soil	IC 13	08/03/13 17:40	130803L01A	
<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Perchlorate	250.0	254.0	102	85-115	



Quality Control - LCS

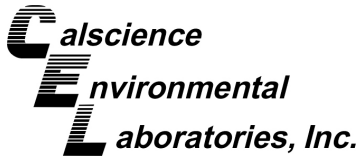
URS Corporation
 915 Wilshire Blvd., Suite 700
 Los Angeles, CA 90017-3437

Date Received: 08/01/13
 Work Order: 13-08-0100
 Preparation: Cartridge
 Method: EPA 314.0 (M)

Project: Wecco DTSC / 29403648

Page 3 of 3

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	LCS Batch Number	
099-05-205-772	Soil	IC 13	08/05/13 15:53	130805L02	
<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Perchlorate	250.0	243.7	97	85-115	



Sample Analysis Summary Report

Work Order: 13-08-0100

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 314.0	N/A	606	IC 13	1
EPA 314.0 (M)	Cartridge	650	IC 13	1
EPA 314.0 (M)	Cartridge	811	IC 13	1


Return to Contents

Glossary of Terms and Qualifiers

Work Order: 13-08-0100

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

WO # / LAB USE ONLY
13-08-0100

LABORATORY CLIENT: UKS Corporation
 ADDRESS: 415 Wilshire Blvd. Suite 700
 CITY: Los Angeles STATE: CA ZIP: 90017
 TEL: 213-996-2200 E-MAIL: Alexis.Bahou@UKS.com
 TURNAROUND TIME: SAME DAY 24 HR 48 HR 72 HR STANDARD
 COELT EDF GLOBAL ID

CLIENT PROJECT NAME / NUMBER: wecco DTSC/074036418 P.O. NO.:
 PROJECT CONTACT: Alexis Bahou SAMPLER(S): (PRINT) S. DeSantis

REQUESTED ANALYSES

Please check box or fill in blank as needed.

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	<input type="checkbox"/> TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	<input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	<input type="checkbox"/> VOCs (8260)	<input type="checkbox"/> Oxygenates (8260)	<input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input type="checkbox"/> SVOCs (8270)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	<input type="checkbox"/> T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
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LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	LOG CODE		
		DATE	TIME			Unpreserved	Preserved	Field Filtered
1	B-1-1	8/1/13	930	soil	1	X		
2	B-1-5	8/1/13	940	soil	1	X		
3	B-1-10	8/1/13	1050	soil	1	X		
4	B-1-15	8/1/13	1102	soil	1	X		
5	B-1-20	8/1/13	1110	soil	1	X		
6	B-1-20-DUP	8/1/13	1110	soil	1	X		
7	B-1-25	8/1/13	1117	soil	1	X		
8	B-1-30	8/1/13	1120	soil	1	X		
9	B-1-35	8/1/13	1200	soil	1	X		
10	B-1-40	8/1/13	1810	soil	1	X		

Received by: (Signature/Affiliation) Danny Carr Date: 8/1/13 Time: 20:00
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
 13-08-0100
 Date 8/1/13 of 3
 Page 2 of 3

Calscience Environmental Laboratories, Inc.
 7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
 Other CA office locations: Concord and San Luis Obispo
 For courier service / sample drop off information,
 contact sales@calscience.com or call us.

LABORATORY CLIENT: URS Corp.
 ADDRESS: 4115 Wilshire Blvd. Suite 700
 CITY: Los Angeles STATE: CA ZIP: 90017
 TEL: 213-996-2800 E-MAIL: Alexis.Bahou@URS.com
 TURNAROUND TIME: SAME DAY 24 HR 48 HR 72 HR STANDARD
 COELT EDF GLOBAL ID

CLIENT PROJECT NAME / NUMBER: DTSC Weccs/29403648 P.O. NO.:
 PROJECT CONTACT: Alexis Bahou SAMPLER(S): (PRINT) S. DeSantis

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	LOG CODE		Field Filtered	TPH (g) <input type="checkbox"/> GRO TPH(d) <input type="checkbox"/> DRO TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6			
		DATE	TIME			Unpreserved	Preserved																
11	B-1-45	8/1/13	1215	Soil	1		X																
12	B-1-50		1230	Soil	1		X																
13	B-1-55		1250	Soil	1		X																
14	B-1-60		1305	Soil	1		X																
15	B-1-65		1315	Soil	1		X																
16	B-1-70		1330	Soil	1		X																
17	B-1-75		1345	Soil	1		X																
18	B-1-80		1410	Soil	1		X																
19	B-1-85		1425	Soil	1		X																
20	B-1-90		1432	Soil	1		X																

Received by: (Signature/Affiliation) [Signature] Date: 8/1/13 Time: 20:00
 Relinquished by: (Signature) [Signature] Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____

WO # / LAB USE ONLY
13-08-0100

LABORATORY CLIENT: VRS Corporation
 ADDRESS: 815 Wilshire Blvd. Suite 700
 CITY: Los Angeles STATE: CA ZIP: 90017
 TEL: 213-946-2083 E-MAIL: Alexis.Bahau@VRS.com

CLIENT PROJECT NAME / NUMBER: DISC WCCO 129408648 P.O. NO.:
 PROJECT CONTACT: Alexis Bahau SAMPLER(S): (PRINT) S. Desanti

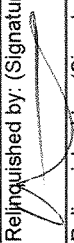

TURNAROUND TIME:
 SAME DAY 24 HR 48 HR 72 HR STANDARD
 COELT EDF GLOBAL ID

REQUESTED ANALYSES
 Please check box or fill in blank as needed.

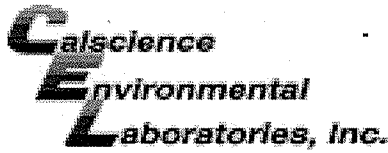
SPECIAL INSTRUCTIONS:

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		DATE	TIME			Unpreserved	Preserved	Field Filtered
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22	B-1-100	8/1/13	1540	soil	1	X		
23	B-1-105	8/1/13	1605	soil	1	X		
24	B-1-110	8/1/13	1645	soil	1	X		
25	B-1-115	8/1/13	1705	soil	1	X		
26	EQ BLANK	8/1/13	1800	water	1	X		

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	<input type="checkbox"/> TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	<input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	<input type="checkbox"/> VOCs (8260)	<input type="checkbox"/> Oxygenates (8260)	<input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input type="checkbox"/> SVOCs (8270)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	<input type="checkbox"/> T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
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Relinquished by: (Signature) 
 Relinquished by: (Signature) 
 Relinquished by: (Signature) _____

Received by: (Signature/Affiliation) Dannyle CR Date: 8/1/13 Time: 20:00
 Received by: (Signature/Affiliation) _____ Date: _____ Time: _____
 Received by: (Signature/Affiliation) _____ Date: _____ Time: _____



WORK ORDER #: 13-08-0100

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: URS

DATE: 08/01/13

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C - 6.0 °C, not frozen except sediment/tissue)
Temperature 2.6 °C - 0.2 °C (CF) = 2.4 °C [X] Blank [] Sample
[] Sample(s) outside temperature criteria (PM/APM contacted by: _____).
[] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
[] Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: [] Air [] Filter Initial: BL

CUSTODY SEALS INTACT:
[] Cooler [] _____ [] No (Not Intact) [X] Not Present [] N/A Initial: BL
[] Sample [] _____ [] No (Not Intact) [X] Not Present Initial: TN

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples..... [X] Yes [] No [] N/A
COC document(s) received complete..... [X] Yes [] No [] N/A
[] Collection date/time, matrix, and/or # of containers logged in based on sample labels.
[] No analysis requested. [] Not relinquished. [] No date/time relinquished.
Sampler's name indicated on COC..... [X] Yes [] No [] N/A
Sample container label(s) consistent with COC..... [X] Yes [] No [] N/A
Sample container(s) intact and good condition..... [X] Yes [] No [] N/A
Proper containers and sufficient volume for analyses requested..... [X] Yes [] No [] N/A
Analyses received within holding time..... [X] Yes [] No [] N/A
Aqueous samples received within 15-minute holding time
[] pH [] Residual Chlorine [] Dissolved Sulfides [] Dissolved Oxygen..... [] Yes [] No [X] N/A
Proper preservation noted on COC or sample container..... [X] Yes [] No [X] N/A
[] Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace..... [] Yes [] No [X] N/A
Tedlar bag(s) free of condensation..... [] Yes [] No [X] N/A

CONTAINER TYPE:
Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [X] Sleeve (5) [] EnCores® [] TerraCores® [] _____
Water: [] VOA [] VOA h [] VOAn2 [] 125AGB [] 125AGBh [] 125AGBp [] 1AGB [] 1AGBna2 [] 1AGBs
[] 500AGB [] 500AGJ [] 500AGJs [] 250AGB [] 250CGB [] 250CGBs [] 1PB [] 1PBna [] 500PB
[] 250PB [] 250PBn [] 125PB [] 125PBzanna [X] 100PJ [] 100PJna2 [] _____ [] _____ [] _____
Air: [] Tedlar® [] Canister Other: [] _____ Trip Blank Lot#: _____ Labeled/Checked by: TN
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by:
Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zna: ZnAc2+NaOH f: Filtered Scanned by:

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J-122 - Greyhound Lines, 1614 E Seventh Street

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EDMUND G. BROWN JR.
GOVERNOR



MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

May 10, 2016

GLI Realty Company
c/o Marvin F Poer & Company
P.O. Box 52427
Atlanta, GA 30355-0000

Mr. Gregory Reed
City of Los Angeles, Department of Water and Power
111 N. Hope Street, Room 1460
Los Angeles, CA 90012-2607

**UNDERGROUND STORAGE TANK PROGRAM – PRE-CLOSURE NOTIFICATION
GREYHOUND LINES INC FACILITY
1614 EAST 7th STREET, LOS ANGELES
(CASE NO. 900210198) (GLOBAL ID NO. T0603770957) (PRIORITY D-1)**

Dear GLI Realty Company and Mr. Reed:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is the public agency with primary responsibility for protection of ground and surface water for all beneficial uses within Los Angeles and Ventura counties. As such, we are the lead agency for overseeing corrective actions and cleanup of releases from leaking underground storage tank systems at the subject facility (Site). We have completed our review and evaluation of the information provided to this agency for the underground storage tank release(s) at the Site and determined that this case meets the Regional Board's low threat criteria for a case closure.

Pursuant to California Health and Safety Code Section 25296.20(a) and Division 7 of the Porter Cologne Water Quality Control Act, and State Water Resources Control Board Resolution 2012-0016, the Regional Board is required to notify any and all interested parties (water authority or district, building permit agencies, owners and occupants of the properties impacted by the petroleum release, or adjacent properties) as defined in Resolution 2012-0016 prior to considering corrective actions or granting case closure. You are identified as the interested water company (City of Los Angeles, Department of Water and Power), and a fee title holder (GLI Realty Company) for the Site. We hereby notify you of our plan to close this low threat underground storage tank case. In order to expedite the review and approval process, we request that you provide us with any comments on the proposed plan to close this case in writing by **July 10, 2016**. If you do not wish to participate, you need not respond. If we do not receive a written response by **July 10, 2016**, the case will be closed and you will be notified of our decision.

If you wish to obtain additional information regarding this site, you may log on <http://geotracker.waterboards.ca.gov> for the subject site address, or arrange to review the case file for this site in our office by mailing in a written request to the address appearing in the

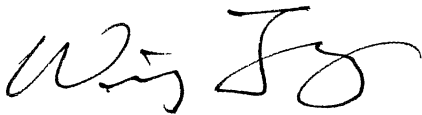
IRMA MUÑOZ, CHAIR | SAMUEL UNGER, EXECUTIVE OFFICER

May 10, 2016

bottom of this letter or by emailing a written request to Rb4-Publicrecords@waterboards.ca.gov. Regional Board staff will then contact you and arrange a time and date to visit the Regional Board office and review the files requested. You must also notify us by email at jamesw.ryan@waterboards.ca.gov by the due date if you wish to review the UST case file prior to case closure.

If you have any questions on this matter, please contact James W. Ryan IV at (213) 576-6711 or jamesw.ryan@waterboards.ca.gov.

Sincerely,



Weixing Tong, Ph.D., P.G. CH.G.
Senior Engineering Geologist
Chief of Underground Tanks/Los Angeles Coastal Unit

cc: Micah Reich, State Water Resources Control Board, UST Cleanup Fund
Jeff O'Keefe, State Water Resources Control Board, Division of Drinking Water
Brian Partington, Water Replenishment District of Southern California
Eloy Luna, City of Los Angeles Fire Department, Underground Storage Tank Unit
Susan KirkPatrick, FirstGroup America, Inc.
Matthew Osborne, Strata Environmental

J-123 - LA-Alameda MGP, 725 Channing Street

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**DRAFT FINAL
SITE CLOSURE REPORT FOR OFFSITE AREA
FORMER ALAMEDA STREET
MANUFACTURED GAS PLANT SITE
732 SOUTH ALAMEDA STREET,
LOS ANGELES, CA 90021**

Prepared for



**SOUTHERN CALIFORNIA GAS COMPANY
555 West Fifth Street
Los Angeles, California 90013**

April 2014

Prepared by

PARSONS

100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

AND

IRIS ENVIRONMENTAL

1438 WEBSTER STREET • OAKLAND • CALIFORNIA 94612

**DRAFT FINAL
SITE CLOSURE REPORT FOR OFFSITE AREA
FORMER ALAMEDA STREET
MANUFACTURED GAS PLANT SITE
732 SOUTH ALAMEDA STREET,
LOS ANGELES, CA 90021**

Prepared for



A  Sempra Energy company

**SOUTHERN CALIFORNIA GAS COMPANY
555 West Fifth Street
Los Angeles, California 90013**

April 2014

A handwritten signature in black ink, appearing to read "Shala Craig".

4/09/2014

Shala Craig, PhD, PE

Date

Prepared by

PARSONS

100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

AND

IRIS ENVIRONMENTAL

1438 WEBSTER STREET • OAKLAND • CALIFORNIA 94612

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Attachment C	Geotechnical Recommendations and Compaction Report
Attachment D	Air Monitoring Logs
Attachment E	PUF Samples Laboratory Reports
Attachment F	Additional Investigation Boring Logs
Attachment G	Confirmation and Additional Investigation Laboratory Reports
Attachment H	Data Validation Report
Attachment I	Import Soil Laboratory Reports and Weigh Tickets
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Attachment M	Uncertainties in the Risk Assessment

LIST OF ACRONYMS

AETL	American Environmental Testing Laboratory
ASTM	American Society for Testing and Materials
B(a)P	benzo(a)pyrene
bgs	below ground surface
BMP	best management practice
BTEX	benzene, toluene, ethylbenzene, and xylenes
Cal-EPA	California Environmental Protection Agency
CAM	California Title 22 Metals
CDI	chronic daily intake
COC	chain-of-custody
COPC	chemical of potential concern
CPAH	carcinogenic polycyclic aromatic hydrocarbon
CSF	cancer slope factor
DHS	California Department of Health Services
DTSC	California Environmental Protection Agency, Department of Toxic Substances Control
EPC	exposure point concentration
HASP	Health and Safety Plan
HI	hazard index
HQ	hazard quotient
HRA	Health Risk Assessment
IRIS	Iris Environmental
LABDS	Los Angeles Department of Building and Safety
mg/kg	milligram(s) per kilogram
MGP	Manufactured Gas Plant
NCP	National Contingency Plan
NOEL	no observed effect level
NPDES	National Pollution Discharge Elimination System
PAH	polycyclic aromatic hydrocarbon
Parsons	Parsons Corporation – Construction Manager
PCB	polychlorinated biphenyl
PEA	Preliminary Endangerment Assessment
PEC	preliminary evaluation concentration
PEF	particulate emission factor
PID	photoionization detector

PUF	polyurethane foam
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RACR	Removal Action Closure Report
RAW	Removal Action Workplan
RCRA	Resource Conservation and Recovery Act
REL	reference exposure level
RfC	reference concentration
RfD	reference dose
SAP	Sampling and Analysis Plan
Site	Former MGP Property and the Neighboring Parcels
SRAW	Supplemental Removal Action Workplan
SSI	Supplemental Site Investigation
SSI/HRA	Supplemental Site Investigation/Health Risk Assessment
STLC	soluble threshold limit concentration
SVOC	semivolatile organic compound
TPH	total petroleum hydrocarbons
TPS	thermal processing system
UCL	upper confidence limit
USA	Underground Service Alert
US-EPA	United States Environmental Protection Agency
UST	underground storage tank
UTL	upper tolerance limit
VCA	Voluntary Cleanup Agreement
VF	volatilization factor
VOC	volatile organic compound

1.0 INTRODUCTION

The subject site is a planter area at a private property located at 732 South Alameda Street, Los Angeles, CA 90021 in a commercial area. Soil sampling confirmed the presence of Polycyclic aromatic hydrocarbons (PAHs) in top shallow soil, with carcinogenic PAH (CPAH) concentrations slightly above the approved Removal Action Workplan (RAW)'s Preliminary Evaluation Concentration (PEC) for unrestricted closure for CPAHs. These are expressed as benzo(a)pyrene equivalent (B(a)P equivalent). The property is an off-site commercial property located immediately south and adjacent to the former Alameda Manufactured Gas Plant (MGP) site at 725 Channing Street. The remedial action objective for the off-site excavation areas was to remediate soil to levels that would effectively restore the area to a condition that is protective of human health and the environment, and will render the area suitable for future unrestricted land use. This document summarizes the information pertaining to the off-site removal action activities associated with the former Alameda MGP site.

2.0 BACKGROUND

Former MGP site – 725 Channing Street, Los Angeles, CA 90021

Remediation of the former Alameda Street MGP located at 725 Channing Street in Los Angeles was completed in two phases by Southern California Gas Company (The Gas Company). The Phase I remedial action was conducted in accordance with the Removal Action Workplan (RAW) prepared by Parsons (2002), followed up by implementation of Phase II removal action based on the Supplemental Removal Action Workplan (SRAW) prepared by Parsons (2004). The remediation was performed under the lead of the California Environmental Protection Agency (Cal-EPA) Department of Toxic Substances Control (DTSC). The RAW and SRAW were prepared in compliance with the Voluntary Cleanup Agreement (VCA), Docket No. HSA-A 00/01-230, issued by the DTSC to The Gas Company (DTSC, 2001). The approach used for remedial activities at the Site is consistent with the approach that has been used to close other MGP sites under the oversight of the DTSC.

The RAW was prepared based on the findings of the Preliminary Endangerment Assessment (PEA) Report prepared by Tetra Tech in 1992 and the Supplemental Site Investigations (SSI) conducted by Parsons in March and November 2002. Upon completion of the SSI, Iris Environmental (IRIS) prepared a Health Risk Assessment (HRA) to evaluate, among other scenarios, an unrestricted land use scenario. The results of the multiple investigations and the HRA are presented in the SSI/HRA Report (Parsons, 2002).

Remediation of the former MGP site was conducted in two phases. Phase I was implemented between March and May 2003.. A supplemental RAW for Phase II remediation was prepared in 2004 (Parsons, 2004), and implemented between October 2006 and March 2007. Removal activities are documented in the Removal Action Completion Report (Parsons, 2008). During the Phase II removal action, The Gas Company documented PAH concentrations that slightly exceeded the PEC established in the original SSI/HRA for the Former Alameda Street MGP along the fence with the adjacent southern property, which was deemed off-site and inaccessible during the former MGP remedial implementation. These exceedances were documented in the final 2008 Removal Action Closure Report (RACR) (Parsons, 2008), and the DTSC issued a certification for this site on June 1st, 2009. However, due to access limitations to this privately owned property located at 732 South Alameda Street, Los Angeles, California (Figure 1), investigation and removal of the off-site PAH impacted soils was delayed to a later stage, and is the subject of this removal action.

Off-site Property (Planter) – 732 South Alameda Street, Los Angeles, CA 900021

The Gas Company prepared a supplemental soil investigation workplan (Parsons, 2009), and obtained DTSC's approval for completing the off-site investigation (DTSC, 2010). Off-site investigation work was conducted in November 2011, and a report was completed and submitted to DTSC in May 2012 (Parsons, 2012a). The additional soil samples were collected in off-site planters at 732 South Alameda Street, adjacent to the southern boundary of the former MGP Site. This property is currently part of a larger produce packaging and distribution network with substantial truck traffic in and out of the property. At the time of completion of the investigation, additional step-out sampling south of the planters and within the main driveway of the property was not possible due to truck traffic. All detected PAH concentrations at these locations were generally in line with the concentrations detected along the southern boundary of the former MGP Site: CPAH concentrations in the top shallow planter soil were slightly above the approved RAW's PEC for unrestricted closure for carcinogenic PAHs (CPAHs), expressed

as benzo(a)pyrene equivalent (B(a)P equivalent). The DTSC reviewed the investigation report and provided The Gas Company with an approval letter dated December 21, 2012 (DTSC, 2012). A Supplemental Removal Action Workplan dated December 2012 was prepared by Parsons (Parsons, 2012b) for this off-site area and approved by DTSC on January 28, 2013 (DTSC, 2013).

An additional investigation was conducted during the removal action in order to delineate visually impacted soil, which was found to extend outside the excavation areas proposed in the workplan (Parsons, 2012b). The additional step-out sampling was conducted on September 2 and on September 26 through October 2, 2013. Results of this additional investigation are discussed in this report.

To minimize disruption to the property owners' business and to optimize parking spaces, the off-site remedial action was planned and implemented in two phases from September 9 through September 27, 2013, east of the entrance gate (Phase 1), and from November 4, 2013, through January 14, 2014, west of the entrance gate (Phase 2). The two phased areas of excavation are presented in Figure 2. The additional removal action was completed in accordance with the protocols established in the original RAW and SRAW (Parsons, 2002 and 2004). Sampling and analytical procedures were performed in accordance with the Sampling and Analysis Plan (SAP) (Parsons, 2001a) and the Quality Assurance Project Plan (QAPP) (Parsons, 2001b). In addition, the removal action was performed in accordance with both the program-wide Project Health and Safety Plan (HASP) (Parsons, 2001c) and the site-specific HASP, which were both previously approved by DTSC.

The Gas Company used the services of El Capitan, a licensed hazardous waste contractor familiar with MGP cleanup operations. Parsons verified that El Capitan's work was conducted based on an approved health and safety plan. The following sections briefly describe the activities to remove, segregate, characterize, load, and manage the contaminated soil, including procedures followed for stockpiling, soil sample collection, analytical testing, waste profiling, and off-site transport to disposal facilities approved by The Gas Company.

3.0 EXCAVATION ACTIVITIES

On September 9, 2013, excavation activities were initiated by The Gas Company general contractor, El Capitan. Underground Service Alert (USA) notification was placed a minimum of 48 hours before the start of the removal action. Prior to excavation work, El Capitan also obtained a grading permit (Permit # 13030-10000-04671 dated August 23, 2013) from the Los Angeles Department of Building and Safety (LABDS).

An excavator was used for removal of the impacted soils, where practical. When equipment access was not possible (e.g., near utilities, roots, or other obstructions), small quantities of impacted material were removed manually by hand shovels. Although excavation targeted primarily areas known to exceed PEC, efforts were made to also remove the soils that were visually suspected to contain PAHs. Where trees were located, soil was removed using shovels to the extent possible above the root system (i.e., at least the top 6 inches) and around tree roots. The excavated soil was directly loaded into a covered roll-off bin. When practical, the soil was also temporarily stockpiled and loaded on to trucks. Throughout the remedial activities, best management practices (BMPs) were implemented to prevent dispersion of soil by wind or water runoff. These BMPs included dust control, use of plastic sheets during loading activities, and use of straw-wattles near potential runoff areas.

The soils were pre-profiled prior to excavation activities. A copy of the profile is presented in Attachment A. The contaminated soil was transported to TPS Technologies, in Adelanto, California; TPS is a thermal treatment facility that is operated and managed as required by local, state, and federal law. A total of 623.48 tons of material was removed from the excavation areas identified in Figure 3. Waste disposal manifests are presented in Attachment B.

In some portions of the excavation areas, concrete curbs and asphalt were removed prior to excavation activities. No visually impacted concrete was encountered; therefore, after removing impacted soils adhering to the concrete, using shovels and brooms, concrete was transported as construction debris to the following recycling facilities: Arcadia Reclamation Inc., in Arcadia, California; Pick Road Gravel, in Monrovia, California; and Vulcan Material Company, in Irwindale, California. Approximately 150 tons of asphalt and 40 tons of concrete were recycled as part of these activities.

Although the excavation was not located near any buildings and therefore did not present any structural risks, setbacks were necessary around three large palm trees, six cypress trees, and three light poles. Where possible, visually impacted soil in these setback areas was carefully removed using picks and shovels.

To address residual impacts documented in the RACR (Parsons, 2008), and previously left in place within a setback below the property boundary fence, The Gas Company negotiated limited access with the adjacent property owner (Greyhound), which allowed excavation to extend about 2 to 2.5 ft to the north. Per the recommendation (Attachment C) of Parsons' geotechnical subcontractor (Geotechnical Solutions Inc., GSI), this additional area was excavated using the trenching method following removal of about 120 ft of fence. This activity took place during the period of December 9 through 16, 2013.

Throughout the course of these remedial action activities, both a photoionization detector (PID) for volatile organic compounds (VOCs) and a Mini-RAM dust monitor were used to monitor air quality within the excavation area and its immediate vicinity. Field monitoring logs for VOCs and dust are presented in Attachment D. Polyurethane foam (PUF) samplers were also used to collect samples during excavation activities and monitor for potential PAHs in airborne dust.

Two PUF samplers were used during excavation activities: one located upwind and the other located downwind (Figure 2). Results from PAH samples collected for air monitoring are presented in Table 3-1, and analytical reports are presented in Attachment E. No occurrences of high wind conditions (greater than 25 miles per hour) were registered during this remedial effort.

4.0 INVESTIGATION ACTIVITIES DURING EXCAVATION

During the implementation of the eastern excavation area, visual impacts were observed along a portion of the southern sidewall below the concrete curb. Sidewall samples were collected to confirm visual observations, and a B(a)P equivalent detection of 6.128 milligrams per kilogram (mg/kg) was detected at sidewall sample P1-S-15. To delineate this exceedance of the PEC for CPAH, six staggered soil borings (A-OSI-7 through -12) were advanced south of this area on September 2, 2013 (Figure 3 and 4). Boring logs are presented in Attachment F.

The soil borings were advanced using a hand auger to the predetermined depths of 1.5, 3, and 5 ft below ground surface (bgs) at each location. At each depth, a soil sample was collected using a slide hammer with 6-inch stainless steel sleeves to collect a representative sample and minimize cross contamination. Each stainless steel sample was then homogenized in a new glass jar, labeled, stored in an ice chest, and submitted to the laboratory under chain of custody for analysis of PAHs. All sampling equipment was decontaminated between samples.

The first row of three soil borings (A-OIS-7, -9, and -11) was located approximately 7 ft south of the concrete curb; the second row (A-OIS-8, -10, and -12) was approximately 15 ft to the south (Figure 3). Soil sample results are presented in Table 4-1. Based on the field observations and the laboratory results for samples collected at A-OSI-7, -9, and -11, soil samples collected at A-OIS-8, -10, and -12 were not analyzed. Soil samples results from borings A-OSI-7, -9, and -11 indicate that B(a)P equivalent was either not detected or was below the PEC of 0.9 mg/kg (Table 4-1). In light of these results, the sidewall sample that exceeded the PEC at P1-S-15 was removed by excavating an additional area approximately 10 ft wide up to sampling location A-OSI-9 (Figure 3).

Twenty-four soil investigation borings were also advanced from September 26 through October 2, 2013. These borings were advanced in the parking and driveway areas south of the proposed western planter excavation (Figure 3) and included soil borings A-OSI-13 through -34. All soil samples were collected in the manner described above. Soil sample results are presented in Table 4-1. CPAHs were detected at concentrations exceeding the PEC in several investigation samples, which resulted in expanding the proposed Phase 2 excavation area further south (Figure 3). The highest B(a)P equivalent detection encountered during this investigation was 236 mg/kg at A-OSI-23 at 1.5 ft bgs.

Soil boring A-OSI-5R was advanced on September 16 as a replacement boring for former A-OSI-5, which was advanced during the initial November 2011 off-site investigation (Parsons, 2012a). The replacement boring was advanced to confirm detections encountered as deep as 5 ft bgs at A-OSI-5, which were suspected to be due to accidental cross contamination during sampling. The new replacement samples confirmed that in fact no CPAH exceeded PEC at 5 ft bgs at this location.

5.0 CONFIRMATION SAMPLING RESULTS

Soil investigation samples collected in November 2011 (Parsons, 2012a) and in September–October 2013 were used to delineate the appropriate depth and lateral extent of the off-site excavation areas. Additional bottom and sidewall confirmation samples were also collected and analyzed to supplement the delineation of impacted areas. All samples were analyzed for PAHs using U.S. Environmental Protection Agency (US-EPA) Method 8310. Selected samples in the eastern portion of the off-site excavation were also analyzed in areas suspected for lead, based on investigation results (Parsons, 2012a). The following PECs established in the SSI/HRA for the Former Alameda Street MGP Site (Parsons, 2004) were used to evaluate confirmation sample analyses results:

- Benzo(a)pyrene (B(a)P) equivalent: 0.9 mg/kg;
- Lead: 159 mg/kg (PEC from original SRAW)¹

A total of 41 confirmation bottom and sidewall soil samples were collected from excavation areas as shown in Figure 3. Soil samples were not collected to the north, along the southern edge of the former MGP property, since that property was already remediated (Parsons, 2008). PAH analytical results for the confirmation samples are presented in Table 4-1; lead results are presented in Table 5-1. Confirmation sidewall samples collected along the southern boundary of the MGP as part of the Phase II MGP Site removal are presented in Table 5-2. The laboratory reports for the confirmation soil samples are presented in Attachment G; the Laboratory Data Validation Report is presented in Attachment H. Table 4-1 also presents CPAH concentrations, expressed as B(a)P equivalent, in order to compare CPAH concentrations to the project PEC, expressed as B(a)P equivalent. Results of CPAH analyses for the remaining site samples are presented in Figure 4. The remaining off-site sample locations exceeding 0.9 mg/kg are highlighted in yellow in Figure 4.

In the eastern portion of the off-site excavation area, three sidewall samples slightly exceeded B(a)P equivalent PEC (P1-S-8, -13, and -17). These samples had concentrations ranging from 1.046 mg/kg to 1.108 mg/kg. P1-S-8 was collected on a sidewall where a setback had been left in place to support the fence separating the eastern portion of the property to the exterior driveway and parking area. Samples P1-S-13 and -17 were collected below the concrete curb of the parking spaces.

In the western portion of the off-site excavation area, three sidewall samples exceeded the B(a)P equivalent PEC (A-OIS-24 and -34, and P2-S2). A-OIS-24 and -34 were soil investigation borings advanced in September–October 2013 within the former railroad easement. As agreed with the DTSC Project Manager (Jose F. Diaz) during the November 11, 2013, field visit, soil samples collected within the railroad are not considered representative of impacts from the former MGP for the following reasons:

- Historical air photos of the private property south of the former MGP Site show extensive railroad operations prior to and during MGP activities. The former railroad shown in Figures 3 and 4 was used as an access to that property. Impacts within the former railroad were likely due to coal-operated train engines.

¹ Since the approval of the original SRAW, the risk-based screening level for lead has been updated by OEHHA (2009) to 80 mg/kg. Concentrations of lead in remaining in-place confirmation samples are either below or equivalent to 80 mg/kg and are evaluated in Section 10.0 Post-remediation Human Health Risk Assessment using DTSC's LeadSpread8 Model.

- Field observations of soil borings advanced within the former railroad indicated that MGP waste (i.e., lampblack) was not found (Attachment F). This indicates that the former railroad was likely raised against historical grade at the property, and that lampblack found east of the former railroad within the planters, parking, and driveway areas was laterally discontinuous against the railroad alignment.

Therefore, results from soil samples collected within the former railroad (A-OSI-2, -24, -25, -30, and -34) were not included in the post-remediation human health risk assessment, presented in Section 10.0 of this report.

Because lead concentrations were above the PEC in soil at the Former 7th Street Alameda MGP Site, some lead confirmation samples were collected in the eastern excavation areas to confirm that lead was not encountered off-site. Lead confirmation sample results ranged in concentration between 14.8 mg/kg and 80.0 mg/kg (Table 5-1), well below the PEC from the original Site RAW.

6.0 DATA VALIDATION

The laboratory results were assessed to evaluate the quality of the laboratory tests conducted. As part of the quality assurance/quality control (QA/QC) requirements for this project, a detailed Level II data validation report was prepared for data collected during this remediation. Level II data validation was performed on approximately 10% of the data and the reports are provided in Attachment H.

As presented in the reports, no soil sample data were rejected based on the data validation. Based on the Level II QA/QC data validation performed on 10% of the samples collected at the Site as part of the remediation activities, all data for soil are considered accurate, precise, complete, and representative of conditions that remain at the Site. A detailed summary of the chemical data validation report is presented in Attachment H.

7.0 DEVIATIONS FROM ORIGINAL PLANS

The following are a list of deviations from the workplan and proposed removal activities:

1) The extent of the proposed excavation area identified in the workplan was estimated based on results from the initial soil investigation phase (Parsons, 2012a). The excavation footprint was revised during removal activities as a result of visual observations indicating that MGP-related waste (lampblack) extended outside the excavation area proposed in the workplan (Parsons, 2012b). An additional soil investigation was conducted in order to revise the extent of the excavation. Based on these results, the excavation was extended to the south into the parking and driveway area, and to the north approximately 2 to 2.5 ft past the property fence in agreement with the Greyhound property facility representative.

2) Although only 12 confirmation samples were proposed in the SRAW (Parsons, 2012b), a total of 41 soil confirmation samples were collected. In addition, soil samples were collected from 24 investigation borings advanced during September–October 2013; these borings also used to delineate the extended excavation area (Figures 3 and 4).

3) Based on visual observation of the north excavation sidewalls in Phase II, it was deemed necessary to remove a 120-ft section of the property line fence in the western portion of the excavation. In that portion of the removal area, the excavation was extended approximately 2 to 2.5 ft into the Greyhound property to the north to a general depth of 3 ft bgs. Three small areas below the property fence required excavation to 6 ft bgs (Figure 4). The westernmost portion of the excavation below the property fence was located adjacent to a former 10-ft-deep excavation conducted during the MGP Site removal (Parsons, 2008). In this area, a 2-ft-thick by 15-ft-long section of a concrete footing was removed where it was found extending to the northwest between the property fence and the Greyhound fence. Lampblack was encountered below this footing, which correlated with the elevated sidewall sample results at CS-W14 at 2, 4, and 6 ft (Figure 3 and Table 5-2), which were collected as part of the former MGP site remediation activities (Parsons, 2008). The excavation in this narrow area was advanced to and terminated at 6 ft bgs. As a result a narrow, sliver of impacted soil, tucked between the two fences (Figure 4) remains in place. Impact observed below 6ft bgs was deemed inaccessible due to the presence of the Greyhound fence to the east and a live electrical line to the west and south. Collection of confirmation samples in this narrow area encountered refusal; as such, the depth of impacted soil below 6ft bgs could not be confirmed. However, this impacted area is presumed to be associated with a documented lampblack pit, which was excavated during the MGP site remediation, and did not extend below 10 ft bgs (Parsons, 2008). During the MGP remediation, results from CS-B14 at 10ft bgs (bottom sample collected at the lampblack pit) confirmed clean native soil (Parsons, 2008). As such, the excavation was successful in removing all impacts in the planter of the off-site property, but impact remaining in this narrow area from 6ft bgs to a maximum of 10 ft bgs, is deemed inaccessible because of its depth and its location between two fences.

4) An additional exceeding concentration for B(a)P Equivalent was detected just east of the railroad at P2-S2-1.75. This sample was collected as a set of three discrete samples above, within, and below an approximately 2-inch-thick lampblack layer found on the southern sidewall of the excavation. Due to the logistical constraints, that portion of the excavation, which is located within the central portion of a high-traffic driveway, could not be extended to A-OSI-32, where detections were below the screening level. Based on

observations along the southern sidewall of the excavation at P2-S2-1.75, the layer was observed to extend approximately 15 ft, where it tapered-out at both ends. In addition, laboratory results indicate that this layer does not extend as far south as A-OSI-32 (approximately 6 ft to the south), where B(a)P equivalent was well below 0.9 mg/kg (Figure 4). Therefore, this remaining 2-inch layer of lampblack is conservatively estimated to cover an area of approximately 90 ft² (15 × 6 ft) south of the excavation.

8.0 TRANSPORT AND DISPOSAL OF IMPACTED MATERIAL

Prior to excavation activities, representative soil was collected from five locations within the proposed excavation areas to pre-profile the soil proposed for excavation. The soil was temporarily stored in 9-oz jars and was composited in the laboratory as sample COMP-1 for the following analyses:

- PAHs: US-EPA Method 8270
- Semivolatile organic compounds (SVOCs): US-EPA Method 8270
- Volatile organic compounds (VOCs): US-EPA Method 8260B
- Total petroleum hydrocarbons (TPH) as gasoline, diesel, and motor-oil carbon chain: US-EPA Method 8015M
- Title 22 Metals: US-EPA Method 6010B/7000CAM
- Polychlorinated biphenyls (PCBs): US-EPA Method 8082

The laboratory reports for this sample are presented in Attachment A.

Two additional surface samples (COMP-E and COMP-W) were collected from the eastern and western excavation areas. For each sample, six 4-oz jars were collected and composited by the laboratory to produce two representative composite samples; these samples were analyzed for total lead and soluble threshold limit concentration (STLC) using US-EPA Test Method 6010B.

Because excavation, loading, and transport were to be completed in a high-traffic area, a transportation plan for hauling of impacted material off-site was prepared. Transport of this additional impacted material complied with that transportation plan. Contaminated soil was transported in a manner that minimized impacts to the community. A total of 43 trucks of impacted soil were transported to Soil Safe of California, Inc. in Adelanto. The total weight of the excavated material was 623.48 tons. Attachment B presents a summary of the nonhazardous soil transport and manifests. No hazardous soils were encountered at the Site; therefore, no soils were transported to a hazardous waste facility during the course of this time-critical excavation work.

All wash water generated during decontamination activities was transported off-site along with contaminated soils. No impacted concrete or asphalt was generated as part of this excavation.

9.0 SITE RESTORATION

Excavated areas were periodically observed by the DTSC Project Manager prior to backfill and restoration. Following a DTSC Project Manager's visit, and his satisfaction with the extent of remediation and the consequent confirmation samples, clean backfill operations were initiated. A total of 576.23 tons of import material were used as backfill for the excavated areas. Laboratory results of the source material are provided in Attachment I. During the import of backfill material, soil samples were collected for every 10 truck loads delivered on-site. Import soil sampling results are summarized in Tables 9-1 through 9-4. Site backfill compaction activities were visually inspected and tested by GSI. All planter backfill areas were compacted to a minimum of 90% compaction; backfill areas within the parking/driveway area and below the property line fence were compacted to a minimum of 95% compaction. After the backfill material was compacted, all concrete curbs were installed. Previously paved areas were repaved in kind with a minimum of 8 inches of base and 6 inches of asphalt.

A final compaction report was issued by GSI on January 24, 2014, and is presented in Attachment C. The final compaction report was also submitted for review and grading permit closure by LABDS on February 18, 2014. A copy of the grading permit is presented in Attachment J.

As part of the excavation activities, an approximately 120-ft-long section of the property fence was removed. This fence was replaced in kind during the site restoration activities. Two light poles located along this section of the fence were also temporarily removed to aid access by an excavator for removal of soil below the property fence. One of the light poles was found to have rust damage and was replaced with a new light pole as part of the restoration. During the excavation activities, ten Carolina cherry and three cypress trees were removed along the property fence in order to conduct the extended excavation. These trees were later replaced with thirteen Carolina cherry trees during site restoration.

10.0 POST-REMEDATION RISK ASSESSMENT

10.1 INTRODUCTION AND OBJECTIVES

This section of the report describes the post-remediation human health risk assessment (HHRA) conducted to document the overall effectiveness of the remediation activities in restoring the off-site excavation areas to a condition that is protective of human health and the environment.

As previously stated in Section 1.0 and in the Supplemental Removal Action Workplan (SRAW; Parson, 2012b), the remedial action objective for the off-site excavation areas was to remediate soil to levels that would effectively restore the area to a condition that is protective of human health and the environment, and will render the area suitable for future unrestricted land use.

To meet the stated remedial objectives, remedial activities were focused on reducing the concentrations of COPCs present in soil in the off-site excavation areas to levels that would be protective of potential future residential land use, and accordingly, protective of all future land uses.

Consistent with the goals and objectives set forth in the SRAW (Parson, 2012), the post-remediation HHRA is conducted to:

- Confirm that soil remediation efforts have effectively reduced the concentrations of CPAHs in soil in the off-site excavation areas to concentrations that are similar to ambient concentrations;
- Confirm that the cumulative cancer risks posed by all other residual chemicals and noncancer hazards posed by all residual chemicals remaining in soil are acceptable and protective of a future residential use scenario.

The post-remediation HHRA is conducted in a manner consistent with the approach used to conduct the post-remediation HHRA for the adjacent former MGP Site, and in accordance with State and Federal risk assessment guidance documents.

The remaining sections of the post-remediation HHRA are organized according to the typical steps in a risk assessment, as outlined below.

- Section 10.2 summarizes the chemicals included in the post-remediation HHRA;
- Section 10.3 presents the exposure assessment, including the identification of the potentially exposed populations, the specific pathways through which populations could become exposed to chemicals in soil and air, and the magnitude of the potential chemical exposures;
- Section 10.4 presents the toxicity values used in the calculation of the incremental cancer risks and noncancer hazard indices. Section 10.4 also presents the methodology for evaluating health effects associated with the lead detected in soil; and
- Section 10.5 presents a comparison of the residual levels of CPAHs remaining in soil to ambient concentrations, as well as a characterization of residual risks associated with all other chemicals remaining in soil.

10.2 DATA EVALUATION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

This section discusses the environmental data evaluated for use in the post-remediation HHRA and the methodology used to select COPCs for inclusion in the post-remediation HHRA.

10.2.1 Data Evaluation

The analytical results for all samples representative of soil remaining in the off-site excavation area following the implementation of the remedial activities that are used in the post-remediation HHRA (i.e., samples from locations and/or depths that have not been remediated), are presented in Tables 4-1 and 5-1. This includes all data obtained during the off-site investigation and post-remediation confirmation sampling (previously discussed in Section 5.0) with the following exceptions:

- Data collected within the railroad track area (i.e., from locations A-OSI-2, A-OSI-24, A-OSI-25, A-OSI-30, and A-OSI-34) because these samples are not considered representative of impacts from the former MGP, as previously discussed in Section 5.0.

10.2.2 Soil

Under a future land-use scenario, soil down to a depth of 10 feet bgs could potentially be brought up and mixed with surface soil during future development of the off-site areas. Overall, the depths of the remedial excavations ranged from approximately 2 feet bgs to 6 feet bgs and the deepest in-place sample was collected at 5.5 feet bgs. As such, all soil samples remaining in-place within the off-site excavation areas are considered in the dataset used to evaluate direct exposures to soil that could be incurred by potential future residential populations (i.e., exposures resulting from soil ingestion, dermal contact with soil, and the inhalation of particulates and vapors in ambient air, discussed further under Section 10.3).

Soil samples collected during the previous investigations and confirmation sampling that are considered representative of post-remedial conditions in the off-site areas were analyzed for PAHs and/or lead. The summary statistics for the dataset used to evaluate future residential exposure to soil are presented in Table 10-1.

10.2.3 Selection of Chemicals of Potential Concern

The selection of COPCs to be included in the quantitative post-remediation HHRA was based on guidance provided by (USEPA, 1989) and Cal/EPA (Cal/EPA, 1997). Briefly, analytical data collected during the previous investigations and post-remediation confirmation sampling considered representative of off-site excavation area soil remaining in place, were compiled, and area-wide statistics for each chemical were calculated and summarized (e.g., frequency of detection, maximum concentration detected). The summary statistics for chemicals detected in remaining off-site excavation area soil following remediation are presented in Table 10-1.

In general, all chemicals detected in off-site excavation area soil were included as COPCs in the post-remediation HHRA. COPCs in soil that are included in the quantitative post-remediation HHRA include PAHs and lead.

10.3 EXPOSURE ASSESSMENT

To quantify whether the residual levels of chemicals present in the soil would pose a risk to human populations, it is necessary to identify the populations that may potentially be exposed to the chemicals present in the soil and determine the pathways by which the exposures may occur. Identification of the potentially exposed populations requires an evaluation of potential future land use of the off-site areas.

The potentially exposed populations and the complete pathways through which exposure to residual chemicals could occur are discussed in the following sections.

10.3.1 Identification of Potentially Exposed Populations and Complete Exposure Pathways

As previously stated in Section 10.1, remedial activities were focused on reducing the concentrations of COPCs present in soil in the off-site excavation areas to levels that would be protective of potential future residential land use, and accordingly, protective of all future land uses. Thus, the primary focus of the post-remediation HHRA is on those exposure pathways that would be considered complete for the future hypothetical residential land use scenario.

Complete exposure pathways require chemical sources, migration routes, an exposure point for contact, and human exposure routes. The complete pathways through which future residents may be exposed to residual, post-remediation levels of chemicals detected in soil include the following:

Future Resident:

1. Inhalation of volatiles migrating from soil, up through the soil column, and into ambient air²
2. Inhalation of particulates
3. Soil ingestion
4. Dermal contact with soil.

10.3.2 Human Intake Assumptions

The route-specific assumptions used to estimate exposure to the residual chemicals remaining in off-site excavation area soil are presented in Table 10-2. Exposure assumptions are taken from the DTSC and USEPA guidance documents, as cited in Table 10-2.

As described in subsequent sections, the various exposure assumptions are combined to estimate the intake of a chemical through a given route of exposure (e.g., soil ingestion). The route-specific intakes are then combined in order to calculate the total intake, with all exposure pathways combined. The equations used to calculate chemical-specific exposure concentrations (ECs) and chronic daily intakes (CDIs) for residential populations are presented in Table 10-3.

10.3.3 Estimation of Representative Exposure Point Concentrations

The following section presents the methods used to estimate the representative concentration of the COPCs in the soil and air to which potential future residents residing within the excavation areas of the off-site parcel could be exposed.

Estimation of COPC Concentrations in Soil

As discussed by the USEPA (2002), an estimate of the risk associated with a given exposure is based on an estimate of the average concentration from the sampling results. Typically, an upper confidence limit of the mean (UCL) is used due to the uncertainty associated with

² Although inhalation of vapors in indoor air is a potentially complete exposure pathway, based on our experience, the concentrations of VOCs detected in soil are low and are not likely to pose a significant health risk via the inhalation of vapors in indoor air pathway. Further, the use of soil data to model vapor transport into indoor air is not recommended by the agencies (Cal/EPA, 2011), and may overestimate the potential indoor air VOC concentrations to which potential receptors could be exposed. In sum, the inhalation of VOCs in indoor air is not believed to be a significant pathway in the off-site excavation areas, and thus is not evaluated in this post-remediation HHRA.

estimating the true average concentration at a site. An estimate of the average concentration is used because:

1. Carcinogenic and chronic non-carcinogenic toxicity criteria are based on lifetime average exposures; and
2. The average concentration is most representative of the concentration that would be contacted over an extended 30-year residential exposure period (USEPA, 2002a) [i.e., exposure point concentration (EPC)].

As mentioned previously in Section 10.2.1, all soil samples remaining in the off-site excavation areas (excluding the railroad track area) were considered in the dataset used to evaluate direct exposures to soil that could be incurred by potential future residential populations (i.e., exposures resulting from soil ingestion, dermal contact with soil, and the inhalation of particulates). Based on a detailed review of the post-remediation analytical data, the following observations are noted:

1. With one exception (noted below under number 2), the residual concentrations of COPCs in off-site excavation area soil are relatively evenly and randomly distributed; and
2. Localized areas of elevated concentrations in off-site excavation area soil do not exist, with the exception of the concentrations of PAHs in limited impacted soil just east of the railroad track area at P2-S2-1.75, as discussed in Section 7.0.

The physical reality for the off-site excavation areas is that the “true” concentration of COPCs to which future populations could be directly exposed is actually much lower than would be estimated using the UCL, as the volume of clean soil has not been accounted for in the estimation of future representative exposure concentrations. Thus, the UCL³ was conservatively used as the representative soil EPC for the COPCs in the off-site excavation areas, and is believed to provide a conservative estimate of the concentrations to which future residents could be exposed over an extended 30-year exposure period.

As discussed in Section 7.0, impacted soil that remains just east of the railroad track area at P2-S2-1.75 is located within the central portion of a high-traffic driveway and could not be excavated due to the logistical constraints. Therefore, this area is considered inaccessible for remedial purposes. The significance of the limited inaccessible volume of impacted soil that remains just east of the railroad track area at P2-S2-1.75, previously described in Section 7.0, on the calculation of representative soil EPCs to which potential future populations could be exposed, is evaluated and discussed further in Section 10.5.1.

The UCL was used as the representative soil EPC to evaluate direct exposures (i.e., soil ingestion and dermal contact) and to estimate the concentration of particulates and vapors in outdoor air. The output from the statistical program used in calculating the UCLs is provided in

³ The UCL estimate of the dataset was calculated using USEPA ProUCL Version 5.0 (USEPA, 2013) statistical program. Data for each chemical were analyzed to determine the distribution pattern (e.g., normal, lognormal, or gamma distribution pattern). If chemical datasets did not fit a normal or lognormal distribution pattern, nonparametric methods were used to calculate the UCL. In instances where the UCL was greater than the maximum detected concentration, the maximum detected concentration was selected in place of the UCL as the representative EPC in soil. In accordance with USEPA guidance (USEPA, 2013), UCLs were not calculated for datasets with less than four detections or with less than 10 samples. Although the USEPA guidance (USEPA, 2013) recommends either the use of the mean or the median in these cases, the maximum detected concentration was conservatively used as the representative EPC.

Attachment K. The UCL for the COPCs and representative soil EPCs are presented in Table 10-4.

Estimation of Air Concentrations Resulting from Emissions from Soil

Future residential receptor populations included in the post-remediation HHRA could be exposed to chemicals present in outdoor air as a result of transport from soil. The transport of volatile and nonvolatile chemicals from soil into outdoor air is discussed in the sections below.

Volatile Compounds in Ambient Air

Volatile compounds have the potential to volatilize from soil into soil gas, and migrate up through the soil column and into ambient air. The COPCs considered to be volatile are those COPCs that have a Henry's Law constant greater than 10^{-5} (atm-m³/mol) and molecular weight less than 200 g/mole (USEPA, 2013). The chemicals detected in soil which are considered to be volatile include, acenaphthylene, anthracene, fluorene, naphthalene, phenanthrene, and pyrene. Physicochemical properties of the COPCs in off-site excavation area soil are presented in Table 10-5.

The estimation of inhalation exposures to volatile chemicals in outdoor air is based on transport from soil to outdoor air. Transport from soil to outdoor air is modeled using the "volatilization factor" (VF) approach recommended in the USEPA Soil Screening Guidance (USEPA, 1996: 2002b), where the volatilization factor is defined as the volatile chemical concentration in soil divided by the volatile chemical concentration in outdoor air. Thus, the concentration of a volatile-phase chemical in outdoor air (CA) may be expressed as a function of the chemical concentration in soil (CS) and the volatilization factor (VF):

$$CA \text{ (mg/m}^3\text{)} = \frac{CS \text{ (mg/kg)}}{VF \text{ (m}^3\text{/kg)}}$$

Chemical-specific volatilization factors are developed using the equation presented in Table 10-6, and are applied to the EPCs of volatile chemicals in soil. The results of this transport modeling from soil to outdoor air are presented in Table 10-4; shown in this table are the VFs and the predicted VOC concentrations in outdoor air associated with each VOC in soil.

Nonvolatile Compounds

Estimation of the concentrations of nonvolatile chemicals in ambient air, present in the particulate form (i.e., adsorbed onto airborne soil particles), requires determination of the concentrations of chemicals in the surface soil and the chemical concentration in the ambient air due to fugitive dust emissions. Airborne particulate matter results from wind erosion and dispersion of surface soil. These processes are modeled using the particulate emission factor (PEF) methodology presented in the USEPA Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (USEPA, 2002). In general, the concentration of a particulate-phase chemical in air (CA) is the product of the concentration of dust in air (CD) and the concentration of the chemical in soil (CS):

$$CA \text{ (mg/m}^3\text{)} = CD \text{ (mg/m}^3\text{)} \times CS \text{ (mg/kg)} \times 10^{-6} \text{ (kg/mg)}$$

Thus, for a given concentration of a chemical in soil (CS), a determination of the concentration of that chemical in air (CA) requires a determination of the dust concentration in air (CD). In the context of modeling chemical transport from soil to outdoor air, the concentration of dust in air is expressed through the PEF. As defined by the USEPA Soil Screening Guidance (USEPA, 1996, 2002b), the PEF has units of cubic meters of air per kilogram of dust (m³/kg), and is therefore equal to the reciprocal of the dust concentration:

$$\text{PEF (m}^3/\text{kg)} = \frac{1}{\text{CD (mg/m}^3)} \times 10^{-6} \text{ (mg/kg)}$$

Combining the preceding two equations, the concentration of a particulate-phase chemical in outdoor air may be expressed as a function of the chemical concentration in soil and the particulate emission factor (PEF):

$$\text{CA (mg/m}^3) = \frac{\text{CS (mg/kg)}}{\text{PEF (m}^3/\text{kg)}}$$

The chemical concentration in soil (CS) used to estimate the chemical concentration in air (CA) for a particular receptor is the EPC in soil for that receptor.

All of the input parameters used in the PEF modeling are presented in Table 10-7. A value of 68.18 g/m²-s per kg/m³ for a 0.5-acre site in Zone II/Los Angeles (USEPA, 2002) was used for the dispersion parameter (i.e., the Q/C term) in the PEF equation, conservatively assuming that particulate emissions can occur from the off-site excavation areas at any given time. Note that a conservative area size of 0.5-acres was input even though the off-site excavation area is less than 0.5-acres. Calculated PEFs and resulting particulate-phase chemical concentrations in outdoor air are presented in Table 10-4.

10.4 TOXICITY ASSESSMENT

The toxicity assessment characterizes the relationship between the magnitude of exposure to a chemical and the potential for adverse effects. More specifically, the toxicity assessment identifies or derives toxicity values that can be used to estimate the likelihood of adverse effects occurring in humans at different exposure levels. Consistent with regulatory risk assessment policy, adverse health effects resulting from chemical exposures are evaluated in two categories: carcinogenic effects and non-carcinogenic effects. The hierarchy of sources for the toxicity criteria used for this post-remediation HHRA corresponds to the State's guidelines (Cal/EPA, 1994; 2011). All toxicity values used in the HHRA are presented in Table 10-8. For evaluation of lead exposures, the traditional reference dose approach is not applied, because most human health effects data are based on blood lead concentrations, rather than external dose (Cal/EPA, 1993).

10.4.1 Toxicity Assessment for Carcinogenic Effects

Current health risk assessment practice for carcinogens is based on the assumption that there is no threshold dose below which carcinogenic effects do not occur. This approach has generally been adopted by the regulatory agencies as a conservative practice to protect public health, and the "no-threshold" assumption has been used in the agency-derived cancer slope factors (CSFs) and Unit Risk Factors (URFs) used in this post-remediation HHRA. Although the magnitude of risk declines with decreasing exposure, the risks are believed to be zero only at zero exposure.

The toxicity values used to quantify the response potency of a potential carcinogen are the following:

1. The CSF, used in assessing the oral route of exposure, represents the excess lifetime cancer risk due to a continuous, constant lifetime exposure to a specified level of a carcinogen generally reported as excess incremental cancer risk per milligram of chemical per kilogram body weight per day (mg/kg/day)⁻¹.

2. The URF, used to assess the inhalation route of exposure, represents the excess lifetime cancer risk due to a continuous, constant lifetime exposure to a specified level of a carcinogen in the air, generally reported as excess incremental cancer risk per microgram of chemical per cubic meter of air ($\mu\text{g}/\text{m}^3$)⁻¹; URFs are reported as excess incremental cancer risk per milligram of chemical per cubic meter of air [(mg/m^3)]⁻¹ in Table 10-8 for risk calculation purposes.

The Cal/EPA and USEPA have published a list of CSFs and URFs recommended for use in risk assessments. The Cal/EPA-recommended CSF and URF, as maintained on the Cal/EPA Office of Environmental Health Hazard Assessment's (OEHHA) on-line toxicity criteria database (Cal/EPA, 2014), were used in this post-remediation HHRA. Table 10-8 presents the CSF and URF for COPCs used in this post-remediation HHRA. As indicated in Table 10-8, COPCs in soil that are currently regulated as carcinogens include naphthalene. Note that although benzo(a)pyrene and other CPAHs are currently regulated as carcinogens, the evaluation of the significance of residential exposure to CPAHs is not a risk-based evaluation, but rather is based on assessing whether the CPAHs concentrations that remain in off-site excavation area soil are similar to ambient concentrations in southern California soil (ENVIRON, 1998, 2002), as further discussed in Section 10.5.1.

10.4.2 Toxicity Assessment for Noncarcinogenic Effects

The toxicity assessment for noncarcinogenic effects requires the estimation of an exposure level below which no adverse health effects in humans are expected to occur. USEPA refers to these levels as reference doses (RfDs) for oral exposures and reference concentrations (RfCs) for inhalation exposures (USEPA, 1989). The noncancer RfD represents a dose, given in milligrams of chemical per kilogram of body weight per day (mg/kg-day), that would not be expected to cause adverse noncancer health effects in potentially exposed populations. The noncancer RfD is often referred to as the "acceptable dose." The noncancer RfC represents the airborne concentration (in units of mg/m^3) that would not be expected to cause adverse noncancer health effects in populations exposed through the inhalation pathway. OEHHA refers to these "acceptable dose or concentrations" as Reference Exposure Levels (RELs). As the inhalation RfCs/RELs are derived from inhalation toxicity studies, they are used for evaluating inhalation exposures (USEPA, 1989). Noncancer toxicity values used (i.e., RfDs and RfCs) correspond to those listed and recommended by Cal/EPA and USEPA.

Consistent with DTSC HERO's approach (Cal/EPA, 2011), the more conservative RfD/REL and RfC/REL obtained from either OEHHA's list of chronic RELs (Cal/EPA, 2014) or USEPA's sources listed below are used in this HHRA (e.g., RfC for naphthalene).

As recommended by USEPA (USEPA, 2003), the hierarchy for toxicity values for noncarcinogenic effects for the oral exposure (i.e., RfDs) from USEPA's sources used in this post-remediation HHRA is as follows:

1. The USEPA-recommended RfDs as maintained on the USEPA's IRIS on-line database (USEPA, 2014);

All noncarcinogenic toxicity values used in this post-remediation HHRA for COPCs detected in soil are presented in Table 10-8. Although the remedial goal of achieving an unrestricted land use scenario for CPAHs is not risk-based, as recommended by DTSC, the potential noncancer health effects of CPAHs are included in the estimate of cumulative noncancer hazard from all COPCs remaining in soil. Thus, RfD and RfCs for individual CPAHs are included in Table 10-8.

10.4.3 Toxicity Assessment for Lead

The traditional RfD approach to the evaluation of chemicals is not applied to lead because most human health effects data are based on blood lead concentrations, rather than external dose (Cal/EPA, 1993). Blood lead concentration is an integrated measure of internal dose, reflecting total exposure from site-related and background sources. A clear “no observed effects level” (NOEL) has not been established for such lead-related health effects endpoints such as birth weight, gestation period, heme synthesis and neurobehavioral development in children and fetuses, and blood pressure in middle-aged men. The Cal/EPA OEHHA has developed a 1 micrograms per deciliter ($\mu\text{g}/\text{dL}$) benchmark for source-specific incremental change in blood lead levels for protection of school children and fetuses (OEHHA, 2007).

The DTSC has developed a methodology for evaluating exposure and the potential for adverse health effects resulting from exposure to lead in the environment (Cal/EPA, 1993). The methodology presents an algorithm for estimating blood lead concentrations in children and adults based on a multi-pathway analysis. DTSC has provided a spreadsheet (LeadSpread, Version 8) based on its guidance for evaluating lead toxicity (Cal/EPA, 1993).

For future residential populations who could be exposed to lead in soil via inhalation of particulates, ingestion and dermal contact, health risks associated with lead in soil is evaluated with LeadSpread 8. The results of the lead evaluation for future residents are discussed in Section 10.5 (Risk Characterization).

10.5 RISK CHARACTERIZATION

The following section of the post-remediation HHRA presents the quantitative characterization of potential human health risks posed by the residual concentrations of chemicals remaining in soil. The uncertainties associated with the projected risks are also briefly discussed in this section and are fully discussed in Attachment M.

The characterization of risk associated with the COPCs in off-site excavation area soil was conducted in this post-remediation HHRA as follows:

- In accordance with the SRAW (Parson, 2012), the remedial goal for achieving an unrestricted land use scenario for CPAHs is not risk-based, but rather is based on reducing CPAHs to concentrations that are similar to ambient CPAH concentrations in Southern California soil (ENVIRON 1998, 2002). If this goal is achieved, the residual CPAHs remaining in soil should be as protective of human health and the environment as ambient concentrations. Accordingly, the risk characterization section of the post-remediation HHRA presents a comparison of the residual levels of CPAHs remaining in soil to ambient CPAH concentrations in Southern California soil.
- For all other chemicals detected in soil, the risk characterization presents the numerical estimates of future potential cancer risk and noncancer hazard posed by the presence of residual levels of COPCs in soil.

The statistical comparison of CPAHs remaining in soil to ambient concentrations, and the projected residual cancer risks and noncancer hazards associated with COPCs in soil are discussed in the sections that follow.

10.5.1 Comparison of CPAH Concentrations in Soil to Ambient Concentrations

Following remediation, confirmation samples were collected from the bottom and sidewalls of the excavated areas and analyzed for CPAHs. The measured concentrations from these samples and the concentration of CPAHs present in unremediated soil in the off-site excavation

area were compiled into one dataset for comparison to the ambient CPAHs dataset in order to confirm attainment of the remedial action objectives.

CPAH Concentrations in Soil

Table 10-9 presents all CPAHs data points considered representative of the post-remedial conditions remaining in off-site excavation area soil and Table 10-10 presents summary statistics for the dataset. As indicated in these tables, a total of 75 samples are considered representative of the soil remaining in place, ranging from non-detect (ND) (i.e., 0.0088 mg/kg in B(a)P equivalent concentrations) to 79.2 mg/kg (sample PS-S2-1.75A). The arithmetic mean and UCL of CPAHs present in soil are 1.3 mg/kg and 5.8 mg/kg, respectively, in B(a)P equivalent concentrations. Note that the arithmetic mean and UCL are biased high by the maximum concentration; 79.2 mg/kg in sample PS-S2-1.75A. The next highest CPAH concentration is 1.1 mg/kg detected in two samples, A-OSI-5d5 and P1-S-17. Excluding the maximum concentration, the arithmetic mean and UCL are 0.20 mg/kg and 0.36 mg/kg, respectively, in B(a)P equivalent concentrations.

Comparison OF CPAH Soil Concentrations to Ambient Concentrations

Statistical analyses were performed to compare post-remediation soil concentrations of CPAHs in soil against ambient concentrations to determine if off-site excavation area soil had been successfully restored to ambient conditions (ENVIRON 1998, 2002). The statistical description of the ambient CPAHs dataset for Southern California is summarized in Table 10-11.

There is no single statistical test that can be used to determine when concentrations on a site are generally equivalent to ambient levels. Rather, there are several tests that can be used to support this determination. To evaluate whether the goal for off-site excavation area soil has been attained, the use of both point estimates (e.g., 95% upper tolerance limit [UTL], or 95% UCL) and statistical distributional tests (e.g., nonparametric Wilcoxon-Mann-Whitney test) could be used to compare the residual CPAHs detected in off-site excavation area soil to the ambient concentrations of CPAHs. The results of some of these comparisons are discussed below.

The 95% UTL of the ambient dataset, 0.9 mg/kg in B(a)P equivalent concentrations, was set forth in the SRAW (Parsons 2012b) as the initial remediation target. As indicated in Table 10-9, 4 of the 75 samples (i.e., approximately 5.3%) considered representative of soil remaining in the off-site excavation area contain CPAHs at concentrations greater than the initial excavation target of 0.9 mg/kg (i.e., 95% UTL of the ambient distribution). The presence of approximately 5% of the total samples at a concentration exceeding the 0.9 mg/kg target concentration is expected, and does not indicate that the overall residual distribution of CPAHs detected in the soil is different than the ambient distribution of CPAHs in the soil. The UCL of CPAHs in southern California surface soil is 0.24 mg/kg, whereas the UCL of the CPAHs concentration representative of off-site excavation soil is 5.8 mg/kg. As noted previously, the UCL of the CPAHs concentration representative of off-site excavation soil is biased high by the maximum concentration of 79.2 mg/kg, in sample PS-S2-1.75A. The next highest CPAH concentration is 1.1 mg/kg detected in two samples, A-OSI-5d5 and P1-S-17. Excluding the maximum concentration, the UCL is 0.36 mg/kg, in B(a)P equivalent concentrations, which is slightly higher than the UCL of 0.24 mg/kg for CPAHs in southern California surface soil.

The non-parametric Wilcoxon-Mann-Whitney test was also conducted to assess whether the distribution of CPAHs in the off-site excavation area soil dataset (excluding the maximum concentration) is different from the distribution of CPAHs present in the southern California surface soil. The results of the Wilcoxon-Mann-Whitney test indicate that the mean and median of the CPAHs remaining in the off-site excavation area soil dataset (excluding the maximum

concentration) are not significantly different from the mean and median of the ambient CPAHs dataset. In fact, the results of the Wilcoxon-Mann-Whitney test indicate that the mean and median of the CPAHs remaining in the off-site excavation area soil dataset (excluding the maximum concentration) are less than or equal to the mean and median of the ambient CPAHs dataset.

Furthermore, as recommended by the USEPA, when the Wilcoxon-Mann-Whitney test is applied together with the Quantile test, the combined tests are the most powerful at detecting true differences between two populations [USEPA, 2000]. The purpose of the Quantile test is to determine whether the upper-tails of two distributions (i.e., off-site excavation area soil [excluding the maximum concentration] and ambient datasets) are significantly different from each other. Specifically, the Quantile test is useful in detecting instances when only parts of a distribution are different rather than a complete shift in the distribution. The test essentially looks at a certain number of the largest data values (i.e., the highest values that represent the upper-tail of the distributions) to determine whether too many data values from one population are present to be accounted for by pure chance [USEPA, 2000]. The results of the Quantile test indicate that the upper-end of the distribution of CPAHs present in off-site excavation area soil is not statistically significantly different from the upper-end of the southern California ambient distribution of CPAHs. The descriptive statistics for the off-site excavation area soil and ambient CPAHs datasets and results of the Wilcoxon-Mann-Whitney and Quantile tests are provided in Attachment K.

Based on the results of the statistical comparisons discussed above, remedial efforts have effectively reduced the concentrations of CPAHs in the majority of the off-site excavation area soil to concentrations that are consistent with ambient levels. Thus we conclude that:

1. Residual levels of CPAHs in the majority of off-site excavation area soil pose no more risk than is posed by ambient levels of CPAHs in Southern California surface soil;
2. The remedial action goal for the CPAHs in the majority of the off-site excavation area soil was attained; and
3. The residual levels of CPAHs remaining in the majority of the off-site excavation area soil are consistent with concentrations that would be considered suitable for residential land use.

The significance of the limited inaccessible volume of impacted soil that remains just east of the railroad track in the vicinity of sample PS-S2-1.75A on the representative soil concentration to which potential future populations could be exposed is further evaluated and discussed in following section below.

Comparison of Inaccessible Area Volume-Weighted Average Concentration of CPAHs to Ambient Concentrations

As mentioned previously in Section 10.2.2, under the future residential land-use scenario, soil down to a depth of 10 feet bgs could potentially be brought up and mixed with surface soil during site development. Soil comprising the limited inaccessible area where CPAHs remain at concentrations in excess of the 0.9 mg/kg target concentration are limited (i.e., in the vicinity of PS-2S-1.75A), and represent a limited volume of soil (as described in Section 7.0 and shown on Figure 4). From a practical standpoint, the only scenario in which future residential uses of the area could result in exposure to the small remaining volume of soil in this inaccessible area would likely involve grading and subsequent mixing of the inaccessible soil with the accessible soil as well as backfill placed onsite during remediation activities. Thus, under such a scenario, the concentrations to which future residents would most likely be exposed would be best

represented by the volume-weighted average concentration of CPAHs present in the top 10 feet a backyard of a hypothetical residential lot (i.e., a 1,000-square-foot backyard). Accordingly, the 10-foot volume-weighted average concentration of CPAHs inclusive of the inaccessible area soil was compared to the UCL concentration of CPAHs in southern California surface soil to assess whether future potential residential exposures to CPAHs remaining in the soil would be significantly greater than ambient.

A detailed discussion on the methodology used for calculating the volume-weighted average concentration of CPAHs in soil within a hypothetical residential backyard is presented in Attachment L. The 10-foot volume-weighted average concentration for CPAHs inclusive of the inaccessible area is 0.34 mg/kg, which is slightly higher than the UCL for CPAHs in southern California surface soil of 0.24 mg/kg. Note that the volume-weighted average concentration for CPAHs inclusive of the inaccessible area does not take into account the volume of clean backfill that has been placed in the upper 2 to 6 feet in the off-site excavation area and thus, the volume-weighted average concentration is likely lower than estimated. Therefore, potential future users who may have contact with the soil in the inaccessible area will have no more exposure to CPAHs than they would have had in the absence of the former MGP operations and CPAH concentrations in the inaccessible area would not pose a significant incremental risk above that posed by ambient concentrations of CPAHs.

10.5.2 Estimated Cancer Risks and Noncancer Hazards

As previously stated in Section 1.0 and in the SRAW (Parson, 2012), the remedial action objective for the off-site excavation areas was to remediate soil to levels that would effectively restore the area to a condition that is protective of human health and the environment, and will render the area suitable for projected future non-restricted land use. The goal is achieved by documenting that the cumulative cancer risks and noncancer hazards for all compounds in soil, except CPAH⁴, are acceptable and protective of future residential land uses.

The remaining portions of this Section present the general methodology used to calculate residual cancer risks and noncancer hazard indices, and present the results and corresponding conclusions that can be drawn from the numerical estimates of risk and hazard.

Methodology

The methodology used to estimate the potential incremental cancer risks and noncancer hazard indices for the COPCs was based on guidance provided in the regulatory documents listed below.

- U.S. Environmental Protection Agency (USEPA). 1989. *Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual (Part A). Interim Final.* Office of Emergency and Remedial Response. USEPA/540/1-89/002. Washington, D.C. December.
- U.S. Environmental Protection Agency (USEPA). 1991. *Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual. Supplemental Guidance.*

⁴ The evaluation of the significance of residential exposure to carcinogenic PAHs (CPAHs, expressed benzo(a)pyrene equivalents) is not a risk-based evaluation, but rather is based on assessing whether the CPAHs concentrations that remain in off-site excavation area soil are similar to ambient concentrations in southern California soil; as further discussed in Section 10.5.1 of the report. Although the remedial goal of achieving an unrestricted land use scenario for CPAHs is not risk-based, as recommended by DTSC, the potential noncancer health effects of CPAHs are included in the estimate of cumulative noncancer hazard from all COPCs remaining in soil.

Standard Default Exposure Factors. Office of Emergency and Remedial Response. March 25.

- California Environmental Protection Agency (Cal/EPA). 2013. *Preliminary Endangerment Assessment Manual*. Department of Toxic Substances Control. Interim Final, October.
- California Environmental Protection Agency (Cal/EPA). 2011b. *DTSC/HERO Human Health Risk Assessment (HHRA) Note Number 1. Recommended DTSC Default Exposure Factors for Use in Risk Assessment at California Hazardous Waste Sites and Permitted Facilities*. Department of Toxic Substances Control. May 20.

The potential risk associated with a measured concentration of a chemical in a medium is estimated using the following equations that describe the relationship between estimated intake of constituents, toxicity of specific chemicals, and overall risk for carcinogenic and noncarcinogenic health effects. For carcinogenic effects, the relationship for the ingestion and dermal contact pathways is given by the following equation (USEPA, 1989):

$$\text{Cancer Risk} = \text{CDI} \times \text{CSF}$$

Where:

Cancer Risk	=	Cancer risk; the probability of an individual developing cancer as a result of exposure to a particular cumulative dose of a potential carcinogen (unitless);
CDI	=	Chronic Daily Intake of a chemical (mg chemical/kg body weight-day);
CSF	=	Cancer Slope Factor; the toxicity value which indicates the upper limit on lifetime incremental cancer risk per unit of dose of chemical (mg chemical/kg body weight-day) ⁻¹ .

For carcinogenic effects, the relationship for the inhalation pathway is given by the following equation (USEPA, 2009b):

$$\text{Cancer Risk} = \text{EC} \times \text{URF}$$

Where:

Cancer Risk	=	Cancer risk; the probability of an individual developing cancer as a result of exposure to a particular cumulative concentration of a potential carcinogen (unitless);
EC	=	Exposure Concentration of a chemical (mg chemical/m ³ air);
URF	=	Unit Risk Factor; the toxicity value which indicates the upper limit on lifetime incremental cancer risk per unit of concentration of chemical (mg chemical/m ³ air) ⁻¹ .

For noncarcinogenic effects, the relationship for the ingestion and dermal contact pathways is given by the following equation (USEPA, 1989):

$$\text{Hazard Quotient} = \text{CDI} / \text{RfD}$$

$$\text{Hazard Index} = \sum \text{Hazard Quotient}$$

Where:

Hazard Quotient	=	Hazard Quotient (HQ); an expression of the potential for a chemical to cause noncarcinogenic effects, which relates the allowable amount of a chemical (reference dose [RfD]) to the estimated site-specific intake (unitless);
Hazard Index	=	Hazard Index (HI); the sum of the chemical-specific Hazard Quotients, which represents the cumulative potential for predicted exposures to result in noncarcinogenic effects (unitless);
CDI	=	Chronic Daily Intake of a chemical (mg chemical/kg body weight-day);
RfD	=	Reference dose; the toxicity value indicating the threshold amount of chemical contacted below which no adverse health effects are expected (mg chemical/kg body weight-day).

For noncarcinogenic effects, the relationship for the inhalation pathway is given by the following equation (USEPA, 2009b):

$$\text{Hazard Quotient} = \text{EC} / \text{RfC}$$

$$\text{Hazard Index} = \sum \text{Hazard Quotient}$$

Where:

Hazard Quotient	=	Hazard Quotient (HQ); an expression of the potential for a chemical to cause noncarcinogenic effects, which relates the allowable concentration of a chemical (reference concentration [RfC]) to the estimated site-specific exposure concentration (unitless);
Hazard Index	=	Hazard Index (HI); the sum of the chemical-specific Hazard Quotients, which represents the cumulative potential for predicted exposures to result in noncarcinogenic effects (unitless);
EC	=	Exposure Concentration of a chemical (mg chemical/m ³ air);
RfC	=	Reference concentration; the toxicity value indicating the threshold concentration of chemical contacted below which no adverse health effects are expected (mg chemical/m ³ air).

Intake is dependent on the exposure concentration and contact rate. The exposure assumptions and equations used to calculate the EC and CDI for each chemical via the identified complete exposure pathways for potential future residents are presented in Tables 10-2 and 10-3.

The calculated ECs and CDIs for future residents for carcinogenic and noncarcinogenic chemicals in soil in the off-site excavation areas are summarized in Tables 10-12 and 10-13, respectively. Estimated incremental cancer risks and noncancer hazards for future residents for carcinogenic and noncarcinogenic chemicals in soil in the off-site excavation areas are summarized in Tables 10-14 and 10-15, respectively.

Note that the National Contingency Plan (NCP) (40 CFR 300) indicates that lifetime incremental cancer risks posed by a site should not exceed a range of one in one million (1×10^{-6}) to one

hundred in one million (1×10^{-4}). Cal/EPA's point of departure for excess incremental lifetime cancer risk for all receptor groups (including residential and commercial populations) is 1×10^{-6} and risk management decisions may raise this criterion dependent on site specific conditions.

For noncancer health effects, an HI of less than or equal to 1 implies that the intake for a given population and chemical is less than or equal to levels where adverse noncancer health effects could occur. Chemical exposures that yield hazard indices of less than or equal to 1 are not expected to result in adverse noncancer health effects (USEPA, 1989).

Results of Cancer Risk and Noncancer Hazard Assessment

This section presents the results of cancer risk and noncancer hazard estimates for exposures associated with the soil for future residents. As previously indicated, the incremental cancer risks and noncancer hazards estimated under this land-use scenario are presented in Tables 10-14 and 10-15, respectively, for COPCs in soil. The results of the health risk evaluation of lead in soil are presented in Table 6-16.

Cancer Risk

As indicated in Table 10-14, the total potential incremental cancer risk for the future residential population posed by the presence of all COPCs (other than CPAHs) in off-site excavation area soil is 1.0×10^{-8} , which is below the lower end of the acceptable risk range of 1×10^{-6} to 1×10^{-4} . One hundred percent of the total potential incremental cancer risk is attributed to naphthalene. Approximately 47%, 35%, and 17% of the total potential incremental cancer risk is from the outdoor air vapor inhalation, ingestion and dermal contact pathways, respectively.

Noncancer Hazard

As indicated in Table 10-15, the total potential noncancer hazards for the future resident child and adult posed by the presence of all COPCs in off-site excavation area soil are 0.025 and 0.0031, respectively, which are both below the acceptable HI of 1. Approximately 26%, 13%, 13%, 11% and 11% of the total potential noncancer hazard for the future resident child resident posed by the presence of all COPCs is attributed to pyrene, fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, and naphthalene, respectively, with the ingestion and dermal routes accounting for approximately 99% of the total hazard.

Lead Risk Assessment

As indicated in Table 10-16, the EPC for lead in off-site excavation area soil of 80 mg/kg results in an incremental increase in blood lead level (PbB) in the child of 1.0 $\mu\text{g/dL}$ (at the 90th percentile), which is equivalent to the OEHHA's recommended benchmark change in blood lead concentration of 1 $\mu\text{g/dL}$ (OEHHA 2007). Note that the EPC for lead is the maximum detected concentration. Lead concentration in off-site excavation area soil ranged from 15 mg/kg up to 80 mg/kg in five samples with a mean concentration of 55 mg/kg. Thus, the use of the maximum detection concentration as the EPC is conservative and results in an overestimate of the incremental increase in PbB in the child.

Uncertainties in the Risk Characterization

The risk assessment includes several uncertainties that warrant discussion. Many of the assumptions used in this risk assessment, regarding the representativeness of the sampling data, human exposures, fate and transport modeling, and chemical toxicity are conservative, following agency guidance, and reflect a 90th or 95th percentile value, rather than a typical or average value. The use of several conservative exposure and toxicity assumptions can introduce considerable uncertainty into the risk assessment. By using conservative exposure or toxicity estimates, the assessment can develop a significant conservative bias that may result in

the calculation of significantly higher cancer risks than are actually posed by the chemicals present in subsurface soil. A discussion of the key uncertainties used in this evaluation for the off-site excavation area is discussed in Attachment M.

10.5.3 Findings and Conclusions

The post-remediation HHRA was conducted to document the overall effectiveness of the remediation activities in restoring soil in the off-site excavation area to a condition that is protective of human health and the environment.

The post-remediation HHRA supports the following findings:

1. Remediation activities were successful in reducing the CPAHs in the majority of the off-site excavation area soil to concentrations that are similar to ambient levels. CPAH-impacts remain in a limited area just east of the railroad tracks in the vicinity of sample PS-S2-1.75A. Based on a detailed analysis of the limited volume of CPAH-impacted soil that remains in this inaccessible area, the post-remediation HHRA concludes potential future users who may have contact with the soil in this inaccessible area will have no more exposure to CPAHs than they would have had in the absence of the former MGP operations. Thus, the potential risks from residual CPAHs remaining in the soil in the off-site excavation area would not pose a significant incremental risk above that posed by ambient concentrations of CPAHs. As such, the residual levels of CPAHs remaining in off-site excavation area soil are consistent with concentrations that would be considered suitable for future residential land use scenarios.
2. The cumulative potential cancer risks and noncancer hazards posed by all other residual chemicals (i.e., non-CPAHs) remaining in off-site excavation area soil are below levels considered acceptable for future residential populations. Furthermore, the incremental blood-lead levels estimated for future residential populations are below the benchmark level of concern for residential populations. As such, the remedial action goal was attained, and the residual levels of chemicals in off-site area soil would be considered safe and protective of future residential land use scenarios.

11.0 SUMMARY AND CONCLUSIONS

After completion of remedial actions at the Former Alameda MGP site, confirmation soil samples collected at the southern boundary of the excavated site resulted in the discovery of additional PAH impact extending off-site to the south, into the property at 732 South Alameda Street.

A Supplemental Removal Action Workplan (Parsons 2012b) was prepared by The Gas Company in December 2012 and approved by DTSC on January 28, 2013. The workplan identified proposed excavation areas within the planters of the property at 732 South Alameda Street.

Excavation and restoration activities were conducted between September 2013 and January 2014. During these excavation activities, an additional soil investigation was conducted in the parking and driveway areas south of the planters to delineate the extent of visual observations of lampblack along the southern sidewalls of the proposed off-site excavation. Confirmation soil samples were used in conjunction with investigation soil samples to delineate the extent of the excavated areas.

A total of 623.48 tons of PAH-impacted nonhazardous soils were excavated, loaded, and transported to Soil Safe of California Inc., a nonhazardous thermal desorption facility in Adelanto. Approximately 150 tons of asphalt and 40 tons of concrete were recycled as part of this removal activity. No hazardous soils or contaminated concrete/asphalt were identified, excavated, or transported as part of this removal activity.

In conclusion, remediation activities were successful in reducing the CPAHs in the majority of the off-site excavation area soil to concentrations that are similar to ambient levels. CPAH-impacts remain in a limited area just east of the railroad tracks. Based on a detailed analysis of the limited volume of CPAH-impacted soil that remains in this inaccessible area, the post-remediation HHRA concludes potential future users who may have contact with the soil in this inaccessible area will have no more exposure to CPAHs than they would have had in the absence of the former MGP operations. Thus, the potential risks from residual CPAHs remaining in the soil in the off-site excavation area would not pose a significant incremental risk above that posed by ambient concentrations of CPAHs. As such, the residual levels of CPAHs remaining in off-site excavation area soil are consistent with concentrations that would be considered suitable for future residential land use scenarios.

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Tables

TABLE 3-1
Summary of PUF Analytical Results for PAH
Former Alameda MGP- Off-Site Removal
Los Angeles, California

Sample ID	Units	BGE090913	BGW090913	E0910	E0911	E0912	E0913	E0916	E0919	E0924	E110513	E110613	E110713	E110813	E111113	E111213	E111313
		9/9/2013	9/9/2013	9/10/2013	9/11/2013	9/12/2013	9/13/2013	9/16/2013	9/19/2013	9/24/2013	11/5/2013	11/6/2013	11/7/2013	11/8/2013	11/11/2013	11/12/2013	11/13/2013
		70582	70582	70608	70608	70648	70648	70685	70722	70755	71224	71257	71270	71284	71294	71313	71334
Acenaphthene	ng/m3	2.42	2.20	5.66	3.00	4.94	7.86	5.24	5.88	9.13	5.32	7.29	7.93	6.71	4.56	11.5	8.31
Acenaphthylene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Anthracene	ng/m3	0.404	0.266J	0.852	0.574	0.538	0.909	0.742	0.740	0.789	0.872	1.02	1.05	0.847	0.505	1.16	1.16
Benzo(g,h,i)perylene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.381	ND<0.05	1.17	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Fluoranthene	ng/m3	2.29	1.67	3.06	2.02	2.92	3.96	3.15	3.68	3.54	2.98	2.88	4.92	3.67	2.84	5.40	5.80
Fluorene	ng/m3	6.01	3.35	10.3	3.51	5.40	9.86	9.52	90.1	19.9	9.87	9.95	11.6	10.0	8.92	16.4	11.8
Naphthalene	ng/m3	52.0	56.6	118	75.1	103	151	84.2	116	107	108	117	103	115	110	241	111
Phenanthrene	ng/m3	16.3	11.1	23.5	15.5	17.3	27.6	23.4	21.5	27.6	29.3	30.7	47.5	27.9	21.8	29.8	31.5
Pyrene	ng/m3	2.14	1.74	3.61	2.61	3.14	4.20	3.27	4.59	3.41	3.80	2.69	6.50	3.54	3.00	6.23	5.92
Sample Volume (in cubic meters)	ng/m3	139	126	130	123	126	108	118	121	117	134	134	130	130	129	130	129
Benzo(a)anthracene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Benzo(a)pyrene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.511	0.230	0.889	0.239	0.651	1.43	1.08
Benzo(b)fluoranthene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.448	0.114	0.716	0.251	0.511	1.10	0.819
Benzo(k)fluoranthene	ng/m3	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	0.224	ND<0.10	0.352	0.115J	0.272	0.579	0.417
Chrysene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Dibenzo(a,h)anthracene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Indeno(1,2,3-cd)pyrene	ng/m3	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	0.500	ND<0.10	1.01	ND<0.10	ND<0.10	ND<0.10	ND<0.10

Notes
ng/m3 = nanogram per cubic meter
BGE = Background Eastern PUF
BGW = Background Western PUF
E = Eastern PUF location
W = Western PUF location

TABLE 3-1
Summary of PUF Analytical Results for PAH
Former Alameda MGP- Off-Site Removal
Los Angeles, California

Sample ID	Units	E111413	E111513	E111813	E111913	E112013	E112113	E112213	E120913	E121013	E121113	E121313	E121613	W0910	W0911	W0912	W0913
		11/14/2013	11/15/2013	11/18/2013	11/19/2013	11/20/2013	11/21/2013	11/22/2013	12/9/2013	12/10/2013	12/11/2013	12/13/2013	12/16/2013	9/10/2013	9/11/2013	9/12/2013	9/13/2013
		71361	71368	71376	71389	71425	71437	71513	71580	71593	71621	71659	71681	70608	70608	70648	70648
Acenaphthene	ng/m3	6.57	3.32	4.58	3.20	4.16	3.24	5.57	4.48	7.22	4.59	5.91	5.96	2.74	2.04	6.54	8.22
Acenaphthylene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Anthracene	ng/m3	1.06	0.411	0.595	0.535	0.526	0.696	0.816	0.556	0.794	0.699	0.640	0.847	0.325J	0.307J	1.07	0.974
Benzo(g,h,i)perylene	ng/m3	ND<0.05	ND<0.05	6.18	1.88	ND<0.05	ND<0.05	ND<0.05	3.34	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Fluoranthene	ng/m3	5.07	2.09	10.1	3.55	2.98	2.60	2.71	5.08	4.27	3.97	4.14	4.90	2.07	1.57	3.42	4.52
Fluorene	ng/m3	9.79	5.14	7.38	5.88	6.78	5.68	9.26	11.8	11.9	7.46	10.4	8.58	5.95	2.83	7.02	9.58
Naphthalene	ng/m3	91.0	54.2	109	85.9	105	63.1	135	135	194	120	170	98.5	57.7	56.6	142	173
Phenanthrene	ng/m3	30.9	15.0	17.8	12.3	12.0	13.2	17.2	13.5	16.8	15.2	15.4	23.3	13.6	10.8	26.4	29.6
Pyrene	ng/m3	4.47	2.26	12.8	4.40	4.06	3.43	3.30	7.41	5.89	4.96	4.54	5.76	2.13	1.85	3.84	5.29
Sample Volume (in cubic meters)	ng/m3	130	134	129	130	129	130	129	130	131	129	131	130	123	114	114	101
Benzo(a)anthracene	ng/m3	ND<0.05	ND<0.05	2.40	0.416	ND<0.05	ND<0.05	1.13	1.96	1.55	0.755	0.557	0.725	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Benzo(a)pyrene	ng/m3	0.612	0.319	5.03	1.31	1.02	0.567	0.462	2.64	1.71	1.50	1.22	1.31	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Benzo(b)fluoranthene	ng/m3	0.463	0.246	3.55	1.03	0.753	0.427	0.248	1.80	1.06	1.10	0.926	0.989	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Benzo(k)fluoranthene	ng/m3	0.237	0.122J	1.91	0.528	0.400	0.214	0.203	1.03	0.643	0.558	0.452	0.514	ND<0.10	ND<0.10	ND<0.10	ND<0.10
Chrysene	ng/m3	ND<0.05	ND<0.05	4.30	1.26	1.46	1.54	0.799	2.03	2.58	1.37	1.47	1.87	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Dibenzo(a,h)anthracene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Indeno(1,2,3-cd)pyrene	ng/m3	ND<0.10	ND<0.10	5.40	1.36	ND<0.10	ND<0.10	ND<0.10	3.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10

Notes
ng/m3 = nanogram per cubic meter
BGE = Background Eastern PUF
BGW = Background Western PUF
E = Eastern PUF location
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TABLE 3-1
Summary of PUF Analytical Results for PAH
Former Alameda MGP- Off-Site Removal
Los Angeles, California

Sample ID	Units	W0916	W0919	W0924	W110513	W110613	W110713	W110813	W111113	W111213	W111313	W111413	W111513	W111813	W111913	W112013	W112113
		9/16/2013	9/19/2013	9/24/2013	11/5/2013	11/6/2013	11/7/2013	11/8/2013	11/11/2013	11/12/2013	11/13/2013	11/14/2013	11/15/2013	11/18/2013	11/19/2013	11/20/2013	11/21/2013
Sample Date		70685	70722	70755	71224	71257	71270	71284	71294	71313	71334	71361	71368	71376	71389	71425	71437
Laboratory Job Number																	
Acenaphthene	ng/m3	6.49	4.64	8.70	3.93	5.58	7.96	7.10	4.51	12.6	8.57	7.92	3.76	3.97	2.86	4.10	2.56
Acenaphthylene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Anthracene	ng/m3	0.890	0.585	0.766	0.448	0.525	0.866	0.829	0.359J	1.27	1.05	1.06	0.373J	ND<0.20	0.317J	0.379J	0.319J
Benzo(g,h,i)perylene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	1.01	1.43	ND<0.05	ND<0.05	ND<0.05	ND<0.05	5.67	ND<0.05	0.907	ND<0.05	0.484	ND<0.05
Fluoranthene	ng/m3	4.76	3.93	3.28	2.15	3.12	4.63	3.57	2.53	5.48	9.60	11.7	2.96	3.40	2.52	2.15	1.45
Fluorene	ng/m3	11.8	43.6	14.1	7.08	7.75	10.5	10.3	7.97	17.8	11.6	10.8	5.64	6.43	4.59	5.58	4.44
Naphthalene	ng/m3	134	101	131	95.7	101	135	134	103	279	115	115	65.8	92.6	60.9	87.3	51.6
Phenanthrene	ng/m3	25.2	19.1	25.4	19.3	21.9	32.6	27.4	16.1	30.3	40.3	28.3	11.4	12.1	10.9	9.55	9.96
Pyrene	ng/m3	5.62	4.87	2.85	2.56	3.20	5.46	3.74	2.55	5.42	10.7	13.2	3.56	3.94	3.14	3.71	1.75
Sample Volume (in cubic meters)	ng/m3	104	115	110	125	126	126	125	125	126	126	126	130	126	127	127	128
Benzo(a)anthracene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.245	ND<0.05	ND<0.05	ND<0.05
Benzo(a)pyrene	ng/m3	1.12	0.984	ND<0.05	0.328	0.572	1.21	0.419	0.585	1.30	3.39	5.48	0.968	1.16	0.936	0.613	0.0750J
Benzo(b)fluoranthene	ng/m3	0.784	0.690	ND<0.05	0.284	0.500	0.815	0.340	0.470	1.06	2.38	3.86	0.690	0.851	0.691	0.515	0.0878J
Benzo(k)fluoranthene	ng/m3	0.458	0.370	ND<0.10	0.135J	0.232	0.493	0.189J	0.231	0.511	1.15	2.07	0.358	0.470	0.355	0.246	ND<0.10
Chrysene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	1.08	1.03	0.933	0.507
Dibenzo(a,h)anthracene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Indeno(1,2,3-cd)pyrene	ng/m3	ND<0.10	ND<0.10	ND<0.10	ND<0.10	0.601	1.40	ND<0.10	ND<0.10	ND<0.10	ND<0.10	6.06	ND<0.10	0.767	ND<0.10	0.547	ND<0.10

Notes
ng/m3 = nanogram per cubic meter
BGE = Background Eastern PUF
BGW = Background Western PUF
E = Eastern PUF location
W = Western PUF location

TABLE 3-1
Summary of PUF Analytical Results for PAH
Former Alameda MGP- Off-Site Removal
Los Angeles, California

Sample ID	Units	W112213	W120913	W121013	W121113	W121313	W121613
		11/22/2013	12/9/2013	12/10/2013	12/11/2013	12/13/2013	12/16/2013
		Laboratory Job Number	71513	71580	71593	71621	71659
Acenaphthene	ng/m3	2.16	4.25	5.36	4.28	6.14	6.94
Acenaphthylene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Anthracene	ng/m3	0.207J	0.442	0.590	0.439	0.703	1.03
Benzo(g,h,i)perylene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Fluoranthene	ng/m3	1.12	1.70	2.18	1.86	3.54	3.98
Fluorene	ng/m3	3.78	7.76	7.86	6.27	10.8	10.5
Naphthalene	ng/m3	48.5	130	129	94.7	195	135
Phenanthrene	ng/m3	7.49	11.9	14.1	12.8	16.9	25.7
Pyrene	ng/m3	1.32	2.16	3.16	2.33	3.96	4.08
Sample Volume (in cubic meters)	ng/m3	127	128	129	128	130	129
Benzo(a)anthracene	ng/m3	0.115	0.602	0.661	0.251	0.936	0.267
Benzo(a)pyrene	ng/m3	0.230	0.172	0.378	0.134	1.28	0.560
Benzo(b)fluoranthene	ng/m3	0.115	0.133	0.313	0.0969J	1.11	0.408
Benzo(k)fluoranthene	ng/m3	ND<0.10	ND<0.10	0.150J	ND<0.10	0.504	0.232
Chrysene	ng/m3	0.314	0.443	0.597	0.515	1.16	1.04
Dibenzo(a,h)anthracene	ng/m3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Indeno(1,2,3-cd)pyrene	ng/m3	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10

Notes
ng/m3 = nanogram per cubic meter
BGE = Background Eastern PUF
BGW = Background Western PUF
E = Eastern PUF location
W = Western PUF location

TABLE 4-1
Summary of Soil Confirmation and Investigation Samples Analytical Results for PAHs in mg/kg
Former Alameda MGP - Off-site Removal
Los Angeles, California

Sample ID	Sample Depth (ft bgs)	Sample Type	Date	Acenaphthene		Acenaphthylene		Anthracene		Benzo(g,h,i)perylene		Fluoranthene		Fluorene		Naphthalene		Phenanthrene	
				Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
A-OSI-1d1	1	Investigation	11/20/11	ND	0.100	ND	0.100	ND	0.100	0.264	0.100	0.649	0.100	ND	0.100	ND	0.100	0.251	0.100
A-OSI-1d3	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.0147	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-1d5	5	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-2d1	1	Investigation	11/20/11	ND	0.050	0.106	0.050	ND	0.050	4.54	0.050	5.27	0.050	ND	0.050	0.0939	0.050	0.870	0.050
A-OSI-2d3	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-2d5	5	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-2d10	10	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-3d1	1	Investigation	11/20/11	ND	0.100	ND	0.100	0.323	0.100	29.4	0.100	37.9	0.100	0.155	0.100	0.328	0.100	5.26	0.100
A-OSI-3d3	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-3d3dup	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-3d5	5	Investigation	11/20/11	NA		NA		NA		NA		NA		NA		NA		NA	
A-OSI-4d10	10	Investigation	11/20/11	NA		NA		NA		NA		NA		NA		NA		NA	
A-OSI-4d1	1	Investigation	11/20/11	ND	0.020	ND	0.020	ND	0.020	0.0681	0.020	0.103	0.020	ND	0.020	0.0201	0.020	0.0716	0.020
A-OSI-4d2.5	2.5	Investigation	11/20/11	NA		NA		NA		NA		NA		NA		NA		NA	
A-OSI-4d3	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	0.0615	0.010	0.0524	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-4d5	5	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-5d1	1	Investigation	11/20/11	ND	0.050	ND	0.050	ND	0.050	2.11	0.050	2.55	0.050	ND	0.050	0.0586	0.050	0.337	0.050
A-OSI-5d1dup	1	Investigation	11/20/11	ND	0.050	ND	0.050	0.105	0.050	3.45	0.050	3.75	0.050	ND	0.050	0.131	0.050	1.09	0.050
A-OSI-5d3	3	Investigation	11/20/11	ND	0.020	ND	0.020	ND	0.020	0.355	0.020	0.408	0.020	ND	0.020	ND	0.020	0.0685	0.020
A-OSI-5d5*	5	Investigation	11/20/11	ND	0.050	ND	0.050	ND	0.050	1.40	0.050	1.40	0.050	ND	0.050	ND	0.050	0.208	0.050
A-OSI-5-5.0	5	Investigation	09/16/13	ND	0.010	ND	0.010	ND	0.010	0.0126	0.010	0.0166	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-5-6.0	6	Investigation	09/16/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-5-7.0	7	Investigation	09/16/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-6ad1	1	Investigation	11/20/11	ND	0.050	ND	0.050	ND	0.050	0.970	0.050	1.24	0.050	ND	0.050	ND	0.050	0.502	0.050
A-OSI-6ad3	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-6ad5	5	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-6d1	1	Investigation	11/20/11	ND	0.050	ND	0.050	ND	0.050	ND	0.050	0.0746	0.050	ND	0.050	ND	0.050	0.0769	0.050
A-OSI-6d3	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OSI-6d5	5	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-7-1.5	1.5	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	0.605	0.010	1.08	0.010	ND	0.010	ND	0.010	0.186	0.010
A-OIS-7-3	3	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-7-5	5	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	0.013	0.010	0.020	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-8-1.5	1.5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA	
A-OIS-8-3	3	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA	
A-OIS-8-3D	3	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA	
A-OIS-8-5	5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA	
A-OIS-9-1.5	1.5	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	0.033	0.010	0.046	0.010	ND	0.010	ND	0.010	0.012	0.010
A-OIS-9-3	3	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-9-5	5	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-10-1.5	1.5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA	
A-OIS-10-3	3	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA	
A-OIS-10-5	5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA	
A-OIS-11-1.5	1.5	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	0.029	0.010	0.034	0.010	ND	0.010	ND	0.010	0.012	0.010
A-OIS-11-3	3	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-11-3D	3	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-11-5	5	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-12-1.5	1.5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA	
A-OIS-12-3	3	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA	
A-OIS-12-5	5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA	
A-OIS-13-1.5	1.5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	0.0322	0.010	0.0299	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-13-3	3	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	0.0583	0.010	0.0651	0.010	ND	0.010	ND	0.010	0.0154	0.010
A-OIS-13-3D	3	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-13-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-14-1.5	1.5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	0.135	0.010	0.228	0.010	ND	0.010	0.0106	0.010	0.0977	0.010
A-OIS-14-3	3	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-14-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-15-1.5	1.5	Investigation	09/26/13	ND	0.010	0.182	0.010	0.0387	0.010	2.89	0.010	1.62	0.010	0.0856	0.010	0.0964	0.010	0.432	0.010
A-OIS-15-3	3	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010

TABLE 4-1
Summary of Soil Confirmation and Investigation Samples Analytical Results for PAHs in mg/kg
Former Alameda MGP - Off-site Removal
Los Angeles, California

Sample ID	Sample Depth (ft bgs)	Sample Type	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene
A-OIS-15-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-16-1.5	1.5	Investigation	09/26/13	ND	0.010	ND	0.010	0.528	0.010	0.428	0.010
A-OIS-16-3	3	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-16-5	5	Investigation	09/26/13	ND	0.010	0.0687	0.010	ND	0.010	ND	0.010
A-OIS-17-1.5	1.5	Investigation	09/26/13	ND	0.050	0.189	0.050	0.341	0.050	71.2	0.050
A-OIS-17-3	3	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-17-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-18-1.5	1.5	Investigation	09/26/13	ND	0.020	0.0223	0.020	ND	0.020	0.915	0.020
A-OIS-18-3	3	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	0.103	0.010
A-OIS-18-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	0.162	0.010
A-OIS-19-1.5	1.5	Investigation	10/01/13	ND	0.010	ND	0.010	ND	0.010	0.263	0.010
A-OIS-20-2	2	Investigation	09/26/13	ND	0.020	0.0424	0.020	0.0410	0.020	5.95	0.020
A-OIS-20-3.5	3.5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	0.0770	0.010
A-OIS-20-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	0.0689	0.010
A-OIS-21-2	2	Investigation	09/26/13	ND	0.020	0.0343	0.020	0.185	0.020	8.05	0.020
A-OIS-22-1.5	1.5	Investigation	09/27/13	ND	0.010	0.0128	0.010	0.0189	0.010	2.35	0.010
A-OIS-22-1.5D	1.5	Investigation	09/27/13	ND	0.020	ND	0.020	ND	0.020	1.41	0.020
A-OIS-22-3	3	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	0.138	0.010
A-OIS-22-5	5	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	0.110	0.010
A-OIS-23-1.5	1.5	Investigation	09/27/13	ND	1	ND	1	2.44	1	242	1
A-OIS-23-3	3	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	0.431	0.010
A-OIS-23-5	5	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	0.452	0.010
A-OIS-23-5	5	Investigation	09/27/13	ND	0.010	ND	0.010	0.0342	0.010	0.0300	0.010
A-OIS-24-1.5	1.5	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	1.17	0.010
A-OIS-24-3	3	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	0.876	0.010
A-OIS-24-5	5	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010
A-OIS-25-1.5	1.5	Investigation	09/27/13	ND	0.010	0.0319	0.010	0.0192	0.010	1.54	0.010
A-OIS-25-3	3	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	1.42	0.010
A-OIS-25-5	5	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	0.0124	0.010
A-OIS-26-1.5	1.5	Investigation	10/01/13	NA		NA		NA		0.0421	0.010
A-OIS-26-3	3	Investigation	10/01/13	NA		NA		NA		0.010	0.010
A-OIS-26-5	5	Investigation	10/01/13	NA		NA		NA		0.010	0.010
A-OIS-27-1.5	1.5	Investigation	10/01/13	ND	0.010	ND	0.010	ND	0.010	0.637	0.010
A-OIS-28-1.5	1.5	Investigation	10/01/13	ND	0.010	ND	0.010	0.022	0.010	3.14	0.010
A-OIS-28-3	3	Investigation	10/01/13	NA		NA		NA		0.812	0.010
A-OIS-28-5	5	Investigation	10/01/13	NA		NA		NA		ND	0.010
A-OIS-29-1.5	1.5	Investigation	10/01/13	ND	1	ND	1	3.27	1	216	1
A-OIS-29-3	3	Investigation	10/01/13	NA		NA		NA		396	1
A-OIS-29-5	5	Investigation	10/01/13	NA		NA		NA		ND	1
A-OIS-30-1.5	1.5	Investigation	10/02/13	NA		NA		NA		1.12	1
A-OIS-30-3	3	Investigation	10/02/13	NA		NA		NA		44.9	1
A-OIS-30-5	5	Investigation	10/02/13	NA		NA		NA		NA	NA
A-OIS-30-5D	5	Investigation	10/02/13	NA		NA		NA		NA	NA
A-OIS-31-1.5	1.5	Investigation	10/02/13	NA		NA		NA		NA	NA
A-OIS-31-3	3	Investigation	10/02/13	NA		NA		NA		NA	NA
A-OIS-31-5	5	Investigation	10/02/13	NA		NA		NA		NA	NA
A-OIS-32-1.5	1.5	Investigation	10/02/13	ND	0.050	ND	0.050	ND	0.050	0.668J	0.050
A-OIS-32-3	3	Investigation	10/02/13	ND	0.010	ND	0.010	ND	0.010	0.349J	0.050
A-OIS-32-5	5	Investigation	10/02/13	NA		NA		NA		ND	0.050
A-OIS-33-1.5	1.5	Investigation	10/02/13	ND	0.020	ND	0.020	ND	0.020	0.418	0.020
A-OIS-33-3	3	Investigation	10/02/13	NA		NA		NA		0.435	0.020
A-OIS-33-5	5	Investigation	10/02/13	NA		NA		NA		ND	0.020
A-OIS-34-1.5	1.5	Investigation	10/02/13	ND	0.050	ND	0.050	ND	0.050	2.42	0.050
A-OIS-34-3	3	Investigation	10/02/13	NA		NA		NA		1.99	0.050
A-OIS-34-5	5	Investigation	10/02/13	NA		NA		NA		ND	0.050
CS-W2-2	2	Conf. Sidewall	12/8/2006	ND	0.010	ND	0.010	ND	0.010	0.093	0.010
CS-W3-2	2	Conf. Sidewall	12/8/2006	ND	0.010	ND	0.010	ND	0.010	0.111	0.010
CS-W11-2	2	Conf. Sidewall	1/2/2007	0.184J	0.010	1.33	0.010	0.377	0.010	11.8	0.010
CS-W12-2	2	Conf. Sidewall	1/4/2007	ND	0.010	0.158	0.010	0.113	0.010	23.4	0.010
CS-W13-2	2	Conf. Sidewall	1/4/2007	ND	0.2	2.83	0.010	0.540	0.010	1.25	0.010
CS-W14-2	2	Conf. Sidewall	1/5/2007	ND	4.0	20.3	0.010	17.7	0.010	6.56	0.010
CS-W14-4	4	Conf. Sidewall	1/5/2007	5.40J	0.010	122	0.010	58.1	0.010	17.4	0.010
CS-W14-6	6	Conf. Sidewall	1/5/2007	6.24J	0.010	9.76	0.010	27.1	0.010	11.8	0.010

TABLE 4-1
Summary of Soil Confirmation and Investigation Samples Analytical Results for PAHs in mg/kg
Former Alameda MGP - Off-site Removal
Los Angeles, California

Sample ID	Sample Depth (ft bgs)	Sample Type	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene								
CS-W15-2	2	Conf. Sidewall	1/23/2007	ND	0.010	ND	0.010	0.020	0.010	0.701	0.010	0.904	0.010	ND	0.010	ND	0.010	0.228	0.010
CS-W16-2	2	Conf. Sidewall	1/25/2007	0.066	0.010	0.198	0.010	0.138	0.010	7.70	0.010	8.03	0.010	0.157	0.010	0.321	0.010	1.62	0.010
CS-W17-2	2	Conf. Sidewall	1/29/2007	ND	0.010	0.061	0.010	0.020	0.010	0.593	0.010	0.673	0.010	0.026	0.010	0.045	0.010	0.129	0.010
CS-W17-4	4	Conf. Sidewall	1/29/2007	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
CS-W18-2	2	Conf. Sidewall	1/29/2007	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.010	0.010	ND	0.010	ND	0.010	ND	0.010
CS-W19-2	2	Conf. Sidewall	1/30/2007	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
P1-B-1	2	Conf. Bottom	09/12/13	ND	0.020	ND	0.020	ND	0.020	0.530	0.020	0.354	0.020	ND	0.020	ND	0.020	0.0958	0.020
P1-B-2	2	Conf. Bottom	09/12/13	ND	0.020	ND	0.020	ND	0.020	0.186	0.020	0.273	0.020	ND	0.020	ND	0.020	0.105	0.020
P1-B-3	3.5	Conf. Bottom	09/16/13	ND	0.020	ND	0.020	ND	0.020	0.561	0.020	1.03	0.020	0.0284	0.020	0.0424	0.020	0.714	0.020
P1-B-4	3.5	Conf. Bottom	09/16/13	ND	0.020	ND	0.020	ND	0.020	0.643	0.020	0.601	0.020	ND	0.020	0.0222	0.020	0.160	0.020
P1-B-5	2	Conf. Bottom	09/16/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.0377	0.010	ND	0.010	ND	0.010	ND	0.010
P1-S-1	1.5	Conf. Sidewall	09/12/13	ND	0.100	ND	0.100	ND	0.100	ND	0.100	0.907	0.100	ND	0.100	ND	0.100	0.661	0.100
P1-S-2	1.5	Conf. Sidewall	09/12/13	ND	0.100	ND	0.100	ND	0.100	1.11	0.100	1.33	0.100	ND	0.100	ND	0.100	0.341	0.100
P1-S-3	1.5	Conf. Sidewall	09/12/13	ND	0.100	ND	0.100	ND	0.100	0.389	0.100	0.537	0.100	ND	0.100	ND	0.100	0.172	0.100
P1-S-4	1.5	Conf. Sidewall	09/12/13	ND	0.100	ND	0.100	ND	0.100	0.595	0.100	0.822	0.100	ND	0.100	ND	0.100	0.336	0.100
P1-S-5	1.5	Conf. Sidewall	09/16/13	ND	0.020	ND	0.020	ND	0.020	0.376	0.020	0.321	0.020	ND	0.020	ND	0.020	0.100	0.020
P1-S-6	2	Conf. Sidewall	09/16/13	ND	0.050	ND	0.050	ND	0.050	1.04	0.050	1.45	0.050	ND	0.050	0.0635	0.050	0.653	0.050
P1-S-7	1.5	Conf. Sidewall	09/16/13	ND	0.050	ND	0.050	ND	0.050	0.844	0.050	1.52	0.050	ND	0.050	0.0519	0.050	0.735	0.050
P1-S-8	1.5	Conf. Sidewall	09/16/13	ND	0.020	ND	0.020	ND	0.020	1.18	0.020	1.11	0.020	ND	0.020	0.0202	0.020	0.266	0.020
P1-S-9	2	Conf. Sidewall	09/16/13	ND	0.020	0.0315	0.020	0.154	0.020	1.78	0.020	2.52	0.020	0.0380	0.020	0.0332	0.020	1.18	0.020
P1-S-10	1.5	Conf. Sidewall	09/16/13	ND	0.100	ND	0.100	ND	0.100	0.974	0.100	0.889	0.100	ND	0.100	ND	0.100	0.285	0.100
P1-S-11	1.5	Conf. Sidewall	09/16/13	ND	0.100	ND	0.100	0.677	0.100	18.9	0.100	26.5	0.100	0.202	0.100	0.231	0.100	6.62	0.100
P1-S-12	1.5	Conf. Sidewall	09/16/13	ND	0.020	ND	0.020	ND	0.020	0.260	0.020	0.282	0.020	ND	0.020	ND	0.020	0.0831	0.020
P1-S-13	2	Conf. Sidewall	09/18/13	ND	0.020	ND	0.020	ND	0.020	0.824	0.020	1.15	0.020	ND	0.020	0.0283	0.020	0.398	0.020
P1-S-14	1.5	Conf. Sidewall	09/18/13	ND	0.020	ND	0.020	0.0398	0.020	1.98	0.020	2.64	0.020	0.0623	0.020	0.0820	0.020	1.54	0.020
P1-S-15	2	Conf. Sidewall	09/18/13	0.161	0.020	0.272	0.020	0.0577	0.020	4.79	0.020	14.7	0.020	1.19	0.020	11.9	0.020	23.1	0.020
P1-S-16	2	Conf. Sidewall	09/19/13	ND	0.020	ND	0.020	ND	0.020	0.754	0.020	0.615	0.020	ND	0.020	ND	0.020	0.139	0.020
P1-S-17	2	Conf. Sidewall	09/19/13	ND	0.020	ND	0.020	0.0207	0.020	1.07	0.020	1.46	0.020	0.0225	0.020	0.0411	0.020	0.954	0.020
P1-S-18	1.5	Conf. Sidewall	09/20/13	ND	0.010	ND	0.010	ND	0.010	0.035	0.010	0.035	0.010	ND	0.010	ND	0.010	0.014	0.010
P1-S-19	1.5	Conf. Sidewall	09/24/13	ND	0.010	0.216	0.010	0.0274	0.010	0.564	0.010	0.891	0.010	0.112	0.010	0.216	0.010	1.11	0.010
P2-S1-1.5	1.5	Conf. Sidewall	11/22/13	ND	0.010	ND	0.010	ND	0.010	0.644	0.010	0.646	0.010	ND	0.010	ND	0.010	0.0544	0.010
P2-B1-2	2	Conf. Bottom	11/07/13	ND	0.010	ND	0.010	ND	0.010	0.0285	0.010	0.0155	0.010	ND	0.010	ND	0.010	ND	0.010
P2-B2-3	3	Conf. Bottom	11/18/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
P2-B3-3	3	Conf. Bottom	11/18/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
P2-B3-3D	3	Conf. Bottom	11/18/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
P2-B4-3	3	Conf. Bottom	11/18/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
P2-B5-2.5	2.5	Conf. Bottom	11/18/13	ND	0.020	ND	0.020	ND	0.020	0.342	0.020	0.397	0.020	ND	0.020	ND	0.020	0.0253	0.020
P2-B5-3	3	Conf. Bottom	11/21/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
P2-B6-3	3	Conf. Bottom	11/19/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
P2-B7-2.5	2.5	Conf. Bottom	11/19/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
P2-B8-2.5	2.5	Conf. Bottom	11/19/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
P2-B9-3	3	Conf. Bottom	11/22/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
P2-B10-2.5	2.5	Conf. Bottom	11/22/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
P2-B11-5	5	Conf. Bottom	11/22/13	ND	0.100	ND	0.100	ND	0.100	2.12	0.100	2.09	0.100	ND	0.100	ND	0.100	0.260	0.100
P2-B11-5.5	5.5	Conf. Bottom	12/12/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
PS-S2-1.5A	1.5	Conf. Sidewall	11/22/13	ND	0.010	ND	0.010	ND	0.010	0.0826	0.010	0.154	0.010	ND	0.010	ND	0.010	0.0247	0.010
PS-S2-1.75A	1.75	Conf. Sidewall	11/22/13	ND	1	ND	1	ND	1	73.5	1	72.8	1	ND	1	ND	1	4.78	1
PS-S2-2.0A	2	Conf. Sidewall	11/22/13	ND	0.010	ND	0.010	ND	0.010	0.223	0.010	0.143	0.010	ND	0.010	ND	0.010	ND	0.010

TABLE 4-1
Summary of Soil Confirmation and Investigation Samples Analytical Results for PAHs in mg/kg
Former Alameda MGP - Off-site Removal
Los Angeles, California

Sample ID	Sample Depth (ft bgs)	Sample Type	Date	Pyrene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Indeno(1,2,3-cd)pyrene		B(a)P Equivalent
				Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	
A-OSI-1d1	1	Investigation	11/20/11	0.896	0.100	0.157	0.100	0.449	0.100	0.236	0.100	0.187	0.100	0.418	0.100	ND	0.100	0.355	0.100	0.56368
A-OSI-1d3	3	Investigation	11/20/11	0.0183	0.010	ND	0.010	0.0105	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.01425
A-OSI-1d5	5	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-2d1	1	Investigation	11/20/11	9.00	0.050	2.73	0.050	4.01	0.050	2.09	0.050	1.40	0.050	3.01	0.050	ND	0.050	3.07	0.050	4.978
A-OSI-2d3	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-2d5	5	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-2d10	10	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-3d1	1	Investigation	11/20/11	65.3	0.100	18.5	0.100	29.3	0.100	17.2	0.100	9.82	0.100	19.9	0.100	ND	0.100	22.6	0.100	36.328
A-OSI-3d3	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-3d3dup	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-3d5	5	Investigation	11/20/11	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OSI-4d10	10	Investigation	11/20/11	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OSI-4d1	1	Investigation	11/20/11	0.146	0.020	0.0551	0.020	0.0662	0.020	0.0353	0.020	0.0240	0.020	0.0527	0.020	ND	0.020	0.0583	0.020	0.0874
A-OSI-4d2.5	2.5	Investigation	11/20/11	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OSI-4d3	3	Investigation	11/20/11	0.0821	0.010	0.0205	0.010	0.0438	0.010	0.0189	0.010	0.0162	0.010	0.0259	0.010	ND	0.010	0.0420	0.010	0.05552
A-OSI-4d5	5	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-5d1	1	Investigation	11/20/11	4.32	0.050	1.18	0.050	2.02	0.050	1.22	0.050	0.716	0.050	1.45	0.050	ND	0.050	1.65	0.050	2.52
A-OSI-5d1dup	1	Investigation	11/20/11	6.64	0.050	1.93	0.050	3.11	0.050	1.78	0.050	1.07	0.050	2.25	0.050	ND	0.050	2.26	0.050	3.845
A-OSI-5d3	3	Investigation	11/20/11	0.670	0.020	0.182	0.020	0.341	0.020	0.179	0.020	0.120	0.020	0.250	0.020	ND	0.020	0.286	0.020	0.4236
A-OSI-5d5*	5	Investigation	11/20/11	2.25	0.050	0.604	0.050	1.14	0.050	0.548	0.050	0.398	0.050	0.829	0.050	ND	0.050	0.903	0.050	1.102
A-OSI-5-5.0	5	Investigation	09/16/13	0.0238	0.010	ND	0.010	0.0152	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.0101	0.010	0.01946
A-OSI-5-6.0	6	Investigation	09/16/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-5-7.0	7	Investigation	09/16/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-6ad1	1	Investigation	11/20/11	1.64	0.050	0.973	0.050	1.12	0.050	0.386	0.050	0.377	0.050	0.854	0.050	ND	0.050	0.483	0.050	1.359
A-OSI-6ad3	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-6ad5	5	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-6d1	1	Investigation	11/20/11	0.0793	0.050	ND	0.050	0.0631	0.050	ND	0.050	ND	0.050	0.0954	0.050	ND	0.050	ND	0.050	0.08255
A-OSI-6d3	3	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-6d5	5	Investigation	11/20/11	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-7-1.5	1.5	Investigation	09/20/13	1.43	0.010	0.211	0.010	0.553	0.010	0.315	0.010	0.202	0.010	0.451	0.010	ND	0.010	0.473	0.010	0.67931
A-OIS-7-3	3	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-7-5	5	Investigation	09/20/13	0.030	0.010	ND	0.010	0.017	0.010	0.011	0.010	ND	0.010	0.011	0.010	ND	0.010	0.010	0.010	0.02191
A-OIS-8-1.5	1.5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-8-3	3	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-8-3D	3	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-8-5	5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-9-1.5	1.5	Investigation	09/20/13	0.061	0.010	0.017	0.010	0.034	0.010	0.025	0.010	0.014	0.010	0.023	0.010	ND	0.010	0.029	0.010	0.04443
A-OIS-9-3	3	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-9-5	5	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-10-1.5	1.5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-10-3	3	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-10-5	5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-11-1.5	1.5	Investigation	09/20/13	0.049	0.010	ND	0.010	0.030	0.010	0.017	0.010	0.011	0.010	0.021	0.010	ND	0.010	0.021	0.010	0.03731
A-OIS-11-3	3	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-11-3D	3	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-11-5	5	Investigation	09/20/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-12-1.5	1.5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-12-3	3	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-12-5	5	Investigation	09/20/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-13-1.5	1.5	Investigation	09/26/13	0.0495	0.010	0.0122	0.010	0.0244	0.010	0.0159	0.010	ND	0.010	0.0157	0.010	ND	0.010	0.0212	0.010	0.03169
A-OIS-13-3	3	Investigation	09/26/13	0.102	0.010	0.0239	0.010	0.0517	0.010	0.0318	0.010	0.0188	0.010	0.0383	0.010	ND	0.010	0.0448	0.010	0.06571
A-OIS-13-3D	3	Investigation	09/26/13	0.0149	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-13-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-14-1.5	1.5	Investigation	09/26/13	0.352	0.010	ND	0.010	0.175	0.010	0.0990	0.010	0.0617	0.010	ND	0.010	ND	0.010	0.161	0.010	0.20942
A-OIS-14-3	3	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-14-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-15-1.5	1.5	Investigation	09/26/13	2.23	0.010	0.845	0.010	1.72	0.010	1.08	0.010	0.622	0.010	0.987	0.010	ND	0.010	1.88	0.010	2.174
A-OIS-15-3	3	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875

TABLE 4-1
Summary of Soil Confirmation and Investigation Samples Analytical Results for PAHs in mg/kg
Former Alameda MGP - Off-site Removal
Los Angeles, California

Sample ID	Sample Depth (ft. bgs)	Sample Type	Date	Pyrene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Indeno(1,2,3-cd)pyrene		B(a)P Equivalent
				Value	Limit	Value	Limit	Value	Limit	Value	Limit	Value	Limit	Value	Limit	Value	Limit	Value	Limit	
A-OIS-15-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-16-1.5	1.5	Investigation	09/26/13	0.629	0.010	0.163	0.010	0.368	0.010	0.240	0.010	0.133	0.010	0.266	0.010	ND	0.010	0.384	0.010	0.46436
A-OIS-16-3	3	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-16-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-17-1.5	1.5	Investigation	09/26/13	85.8	0.050	27.6	0.050	45.7	0.050	32.6	0.050	18.7	0.050	31.7	0.050	ND	0.050	51.5	0.050	59.066
A-OIS-17-3	3	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-17-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-18-1.5	1.5	Investigation	09/26/13	1.14	0.020	0.240	0.020	0.634	0.020	0.397	0.020	0.239	0.020	0.454	0.020	ND	0.020	0.635	0.020	0.79304
A-OIS-18-3	3	Investigation	09/26/13	0.222	0.010	0.0598	0.010	0.0799	0.010	0.0543	0.010	0.0321	0.010	0.0670	0.010	ND	0.010	0.0716	0.010	0.10405
A-OIS-18-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OSI-19-1.5	1.5	Investigation	10/01/13	0.278	0.010	0.077	0.010	0.185	0.010	0.117	0.010	0.065	0.010	0.103	0.010	ND	0.010	0.200	0.010	0.23363
A-OIS-20-2	2	Investigation	09/26/13	6.68	0.020	2.08	0.020	3.83	0.020	2.34	0.020	1.42	0.020	2.35	0.020	ND	0.020	4.20	0.020	4.861
A-OIS-20-3.5	3.5	Investigation	09/26/13	0.102	0.010	0.0358	0.010	0.0663	0.010	0.0432	0.010	0.0251	0.010	0.0361	0.010	ND	0.010	0.0627	0.010	0.08504
A-OIS-20-5	5	Investigation	09/26/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-21-2	2	Investigation	09/26/13	11.7	0.020	3.98	0.020	6.38	0.020	4.03	0.020	2.31	0.020	4.86	0.020	ND	0.020	6.02	0.020	8.066
A-OIS-22-1.5	1.5	Investigation	09/27/13	3.46	0.010	1.22	0.010	1.77	0.010	1.02	0.010	0.675	0.010	1.41	0.010	ND	0.010	1.72	0.010	2.249
A-OIS-22-1.5D	1.5	Investigation	09/27/13	2.43	0.020	0.569	0.020	1.22	0.020	0.784	0.020	0.475	0.020	0.901	0.020	ND	0.020	1.21	0.020	1.536
A-OIS-22-3	3	Investigation	09/27/13	0.189	0.010	0.0283	0.010	0.124	0.010	0.0622	0.010	0.0401	0.010	0.0942	0.010	ND	0.010	0.0844	0.010	0.14814
A-OIS-22-5	5	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-23-1.5	1.5	Investigation	09/27/13	386	1	127	1	184	1	122	1	68.2	1	150	1	ND	1	185	1	236
A-OIS-23-3	3	Investigation	09/27/13	0.647	0.010	0.191	0.010	0.301	0.010	0.188	0.010	0.112	0.010	0.243	0.010	ND	0.010	0.309	0.010	0.38513
A-OIS-23-5	5	Investigation	09/27/13	0.0438	0.010	0.0111	0.010	0.0241	0.010	0.0140	0.010	ND	0.010	0.0163	0.010	ND	0.010	0.0239	0.010	0.03136
A-OIS-24-1.5	1.5	Investigation	09/27/13	1.30	0.010	0.471	0.010	0.771	0.010	0.450	0.010	0.290	0.010	0.592	0.010	ND	0.010	0.832	0.010	0.98292
A-OIS-24-3	3	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-24-5	5	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-25-1.5	1.5	Investigation	09/27/13	2.04	0.010	0.561	0.010	1.14	0.010	0.752	0.010	0.443	0.010	0.832	0.010	ND	0.010	1.09	0.010	1.435
A-OIS-25-3	3	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-25-5	5	Investigation	09/27/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
A-OIS-26-1.5	1.5	Investigation	10/01/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-26-3	3	Investigation	10/01/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-26-5	5	Investigation	10/01/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OSI-27-1.5	1.5	Investigation	10/01/13	1.12	0.010	0.316	0.010	0.521	0.010	0.303	0.010	0.195	0.010	0.416	0.010	ND	0.010	0.481	0.010	0.65636
A-OSI-28-1.5	1.5	Investigation	10/01/13	5.20	0.010	1.62	0.010	2.44	0.010	1.40	0.010	0.901	0.010	1.96	0.010	ND	0.010	2.22	0.010	3.075
A-OIS-28-3	3	Investigation	10/01/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-28-5	5	Investigation	10/01/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OSI-29-1.5	1.5	Investigation	10/01/13	527	1	157	1	199	1	129	1	80.3	1	191	1	ND	1	180	1	256
A-OIS-29-3	3	Investigation	10/01/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-29-5	5	Investigation	10/01/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-30-1.5	1.5	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-30-3	3	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-30-5	5	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-30-5D	5	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-31-1.5	1.5	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-31-3	3	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-31-5	5	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OSI-32-1.5	1.5	Investigation	10/02/13	0.515J	0.050	0.0926J	0.050	0.292J	0.050	0.233J	0.050	0.120J	0.050	0.213J	0.050	ND	0.050	0.382J	0.050	0.38539J
A-OSI-32-3	3	Investigation	10/02/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875J
A-OIS-32-5	5	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OSI-33-1.5	1.5	Investigation	10/02/13	0.601	0.020	0.0960	0.020	0.354	0.020	0.263	0.020	0.134	0.020	0.234	0.020	ND	0.020	0.313	0.020	0.44034
A-OIS-33-3	3	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-33-5	5	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-34-1.5	1.5	Investigation	10/02/13	3.12	0.050	0.961	0.050	1.77	0.050	1.10	0.050	0.724	0.050	1.51	0.050	ND	0.050	1.81	0.050	2.253
A-OIS-34-3	3	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
A-OIS-34-5	5	Investigation	10/02/13	NA		NA		NA		NA		NA		NA		NA		NA		NA
CS-W2-2	2	Conf. Sidewall	12/8/2006	0.169	0.010	0.032	0.010	0.077	0.010	0.038	0.010	0.025	0.010	0.052	0.010	ND	0.010	0.065	0.010	0.9522
CS-W3-2	2	Conf. Sidewall	12/8/2006	ND	0.010	ND	0.010	0.010J	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.01375
CS-W11-2	2	Conf. Sidewall	1/2/2007	29.9	0.010	4.33	0.010	12.4	0.010	5.33	0.010	4.18	0.010	10.1	0.010	ND	0.1	10.2	0.010	29.844
CS-W12-2	2	Conf. Sidewall	1/4/2007	18.6	0.010	4.36	0.010	9.94	0.010	6.19	0.010	3.43	0.010	7.36	0.010	0.179	0.010	10.9	0.010	12.56246
CS-W13-2	2	Conf. Sidewall	1/4/2007	65.9	0.010	13.1	0.010	40.2	0.010	24.2	0.010	15.0	0.010	25.9	0.010	0.858	0.010	40.3	0.010	50.01072
CS-W14-2	2	Conf. Sidewall	1/5/2007	843	0.010	ND	4.0	418	0.010	239	0.010	138	0.010	370	0.010	8.35	0.010	354	0.010	497.839
CS-W14-4	4	Conf. Sidewall	1/5/2007	1,080	0.010	248	0.010	424	0.010	240	0.010	157	0.010	310	0.010	ND	4	374	0.010	530
CS-W14-6	6	Conf. Sidewall	1/5/2007	786	0.010	170	0.010	308	0.010	174	0.010	107	0.010	218	0.010	ND	4	292	0.010	385

TABLE 4-1
Summary of Soil Confirmation and Investigation Samples Analytical Results for PAHs in mg/kg
Former Alameda MGP - Off-site Removal
Los Angeles, California

Sample ID	Sample Depth (ft bgs)	Sample Type	Date	Pyrene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	B(a)P Equivalent								
CS-W15-2	2	Conf. Sidewall	1/23/2007	1.21	0.010	0.210	0.010	0.472	0.010	0.281	0.010	0.175	0.010	0.376	0.010	ND	0.010	0.461	0.010	0.59016
CS-W16-2	2	Conf. Sidewall	1/25/2007	11.9	0.010	2.06	0.010	4.39	0.010	2.49	0.010	1.57	0.010	2.89	0.010	ND	0.050	4.35	0.010	5.4744
CS-W17-2	2	Conf. Sidewall	1/29/2007	0.902	0.010	0.199	0.010	0.379	0.010	0.210	0.010	0.134	0.010	0.231	0.010	ND	0.010	0.344	0.010	0.047171
CS-W17-4	4	Conf. Sidewall	1/29/2007	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
CS-W18-2	2	Conf. Sidewall	1/29/2007	0.014	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
CS-W19-2	2	Conf. Sidewall	1/30/2007	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P1-B-1	2	Conf. Bottom	09/12/13	0.528	0.020	0.0828	0.020	0.355	0.020	0.199	0.020	0.108	0.020	0.221	0.020	ND	0.020	0.381	0.020	0.43769
P1-B-2	2	Conf. Bottom	09/12/13	0.384	0.020	0.0577	0.020	0.216	0.020	0.121	0.020	0.0714	0.020	0.169	0.020	ND	0.020	0.141	0.020	0.26020
P1-B-3	3.5	Conf. Bottom	09/16/13	1.07	0.020	0.190	0.020	0.555	0.020	0.374	0.020	0.224	0.020	0.371	0.020	ND	0.020	0.415	0.020	0.68241
P1-B-4	3.5	Conf. Bottom	09/16/13	0.802	0.020	0.228	0.020	0.515	0.020	0.323	0.020	0.195	0.020	0.402	0.020	ND	0.020	0.488	0.020	0.64582
P1-B-5	2	Conf. Bottom	09/16/13	0.0156	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P1-S-1	1.5	Conf. Sidewall	09/12/13	0.931	0.100	ND	0.100	0.463	0.100	0.396	0.100	0.258	0.100	ND	0.100	ND	0.100	ND	0.100	0.55590
P1-S-2	1.5	Conf. Sidewall	09/12/13	1.92	0.100	0.326	0.100	1.08	0.100	0.630	0.100	0.384	0.100	0.819	0.100	ND	0.100	0.884	0.100	1.328
P1-S-3	1.5	Conf. Sidewall	09/12/13	0.787	0.100	ND	0.100	0.407	0.100	0.274	0.100	0.155	0.100	0.349	0.100	ND	0.100	0.316	0.100	0.50699
P1-S-4	1.5	Conf. Sidewall	09/12/13	1.13	0.100	ND	0.100	0.553	0.100	0.322	0.100	0.217	0.100	0.453	0.100	ND	0.100	0.462	0.100	0.67963
P1-S-5	1.5	Conf. Sidewall	09/16/13	0.464	0.020	0.0726	0.020	0.255	0.020	0.147	0.020	0.0961	0.020	0.186	0.020	ND	0.020	0.252	0.020	0.31703
P1-S-6	2	Conf. Sidewall	09/16/13	1.94	0.050	0.250	0.050	1.00	0.050	0.703	0.050	0.384	0.050	0.793	0.050	ND	0.050	0.864	0.050	1.237
P1-S-7	1.5	Conf. Sidewall	09/16/13	1.78	0.050	0.184	0.050	0.964	0.050	0.653	0.050	0.392	0.050	0.595	0.050	ND	0.050	0.900	0.050	1.191
P1-S-8	1.5	Conf. Sidewall	09/16/13	1.50	0.020	0.319	0.020	0.837	0.020	0.529	0.020	0.290	0.020	0.576	0.020	ND	0.020	0.865	0.020	1.046
P1-S-9	2	Conf. Sidewall	09/16/13	3.35	0.020	1.22	0.020	1.52	0.020	0.891	0.020	0.557	0.020	1.40	0.020	ND	0.020	1.26	0.020	1.930
P1-S-10	1.5	Conf. Sidewall	09/16/13	1.17	0.100	ND	0.100	0.788	0.100	0.471	0.100	0.279	0.100	0.403	0.100	ND	0.100	0.558	0.100	0.94483
P1-S-11	1.5	Conf. Sidewall	09/16/13	33.3	0.100	10.3	0.100	14.6	0.100	8.64	0.100	5.44	0.100	11.8	0.100	ND	0.100	14.4	0.100	18.613
P1-S-12	1.5	Conf. Sidewall	09/16/13	0.385	0.020	0.0869	0.020	0.227	0.020	0.0768	0.020	0.0875	0.020	0.190	0.020	ND	0.020	0.205	0.020	0.27792
P1-S-13	2	Conf. Sidewall	09/18/13	1.39	0.020	0.391	0.020	0.853	0.020	0.535	0.020	0.324	0.020	0.677	0.020	ND	0.020	0.690	0.020	1.057
P1-S-14	1.5	Conf. Sidewall	09/18/13	3.36	0.020	1.02	0.020	1.67	0.020	0.983	0.020	0.627	0.020	1.17	0.020	ND	0.020	1.50	0.020	2.098
P1-S-15	2	Conf. Sidewall	09/18/13	17.4	0.020	4.83	0.020	4.62	0.020	3.55	0.020	2.11	0.020	5.76	0.020	ND	0.020	3.98	0.020	6.128
P1-S-16	2	Conf. Sidewall	09/19/13	0.991	0.020	0.151	0.020	0.561	0.020	0.313	0.020	0.192	0.020	0.401	0.020	ND	0.020	0.532	0.020	0.68721
P1-S-17	2	Conf. Sidewall	09/19/13	1.81	0.020	0.532	0.020	0.878	0.020	0.578	0.020	0.338	0.020	0.605	0.020	ND	0.020	0.761	0.020	1.108
P1-S-18	1.5	Conf. Sidewall	09/20/13	0.054	0.010	ND	0.010	0.028	0.010	0.018	0.010	0.011	0.010	0.018	0.010	ND	0.010	0.018	0.010	0.03508
P1-S-19	1.5	Conf. Sidewall	09/24/13	1.13	0.010	0.237	0.010	0.454	0.010	0.266	0.010	0.169	0.010	0.411	0.010	ND	0.010	0.383	0.010	0.56531
P2-S1-1.5	1.5	Conf. Sidewall	11/22/13	0.908	0.010	0.287	0.010	0.495	0.010	0.289	0.010	0.171	0.010	0.373	0.010	ND	0.010	0.490	0.010	0.62413
P2-B1-2	2	Conf. Bottom	11/07/13	0.0233	0.010	ND	0.010	0.0214	0.010	0.0143	0.010	ND	0.010	0.0123	0.010	ND	0.010	0.0194	0.010	0.02759
P2-B2-3	3	Conf. Bottom	11/18/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P2-B3-3	3	Conf. Bottom	11/18/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P2-B3-3D	3	Conf. Bottom	11/18/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P2-B4-3	3	Conf. Bottom	11/18/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P2-B5-2.5	2.5	Conf. Bottom	11/18/13	0.547	0.020	0.138	0.020	0.250	0.020	0.153	0.020	0.0917	0.020	0.195	0.020	ND	0.020	0.269	0.020	0.32052
P2-B5-3	3	Conf. Bottom	11/21/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P2-B6-3	3	Conf. Bottom	11/19/13	0.0112	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P2-B7-2.5	2.5	Conf. Bottom	11/19/13	0.0133	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P2-B8-2.5	2.5	Conf. Bottom	11/19/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P2-B9-3	3	Conf. Bottom	11/22/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P2-B10-2.5	2.5	Conf. Bottom	11/22/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
P2-B11-5	5	Conf. Bottom	11/22/13	2.77	0.100	0.633	0.100	1.50	0.100	0.926	0.100	0.536	0.100	1.16	0.100	ND	0.100	1.52	0.100	1.890
P2-B11-5.5	5.5	Conf. Bottom	12/12/13	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
PS-S2-1.5A	1.5	Conf. Sidewall	11/22/13	0.214	0.010	0.0822	0.010	0.0999	0.010	0.0629	0.010	0.0370	0.010	0.0843	0.010	ND	0.010	0.0712	0.010	0.12777
PS-S2-1.75A	1.75	Conf. Sidewall	11/22/13	106	1	39.5	1	62.6	1	37.4	1	22.6	1	48.0	1	ND	1	59.5	1	79.150
PS-S2-2.0A	2	Conf. Sidewall	11/22/13	0.238	0.010	0.0716	0.010	0.140	0.010	0.0929	0.010	0.0550	0.010	0.0824	0.010	ND	0.010	0.178	0.010	0.18227

Yellow highlights represent sample results removed during excavation activities. All other non-highlighted sample results are considered remaining.
PAH detections at sample A-OSI-5d5 were suspected to be due to potential cross contamination from shallow soil during sampling. This sample depth was resampled on 09/16/13 and replaced
* = with sample A-OSI-5-5.0
NA = Samples were held at the laboratory but not analyzed
ND = Not detected above method detection limit
mg/kg = milligram per kilogram
530 = Bold values represent concentrations of B(a)P Equivalent greater than 0.9 mg/kg

TABLE 5-1
Summary of Soil Confirmation Samples Analytical Results for Lead in mg/kg
Former Alameda MGP - Off-site Removal
Los Angeles, California

Sample ID	STLC Limit mg/L	TCLP Limit mg/L	TTLC Limit mg/Kg	Units	P1-B-1	P1-B-2	P1-S-1	P1-S-2	P1-S-3	P1-S-4
					9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013
					Laboratory Job Number	70607	70607	70607	70607	70607
Lead	5.0	5.0	1000	mg/Kg	63.5	14.8	78.0	60.3	80.0	37.3

Yellow highlights represent sample results removed during excavation activities. All other non-highlighted sample results are considered remaining.

ND = Not detected above method detection limit

mg/kg = milligram per kilogram

TABLE 5-2
MGP Site Southern Sidewall Soil Confirmation Samples Results for PAHs in mg/kg
Former Alameda MGP - Site Removal
Los Angeles, California

Sample ID	Sample Depth (Ft bgs)	Sample Type	Date	Acenaphthene		Acenaphthylene		Anthracene		Benzo(g,h,i)perylene		Fluoranthene		Fluorene		Naphthalene		Phenanthrene	
				Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
CS-W2-2	2	Conf. Sidewall	12/8/2006	ND	0.010	ND	0.010	ND	0.010	0.093	0.010	0.111	0.010	ND	0.010	ND	0.010	0.057	0.010
CS-W3-2	2	Conf. Sidewall	12/8/2006	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
CS-W11-2	2	Conf. Sidewall	1/2/2007	0.184J	0.010	1.33	0.010	0.377	0.010	11.8	0.010	23.4	0.010	1.25	0.010	6.56	0.010	17.4	0.010
CS-W12-2	2	Conf. Sidewall	1/4/2007	ND	0.010	0.158	0.010	0.113	0.010	13.8	0.010	12.9	0.010	ND	0.010	0.185	0.010	1.93	0.010
CS-W13-2	2	Conf. Sidewall	1/4/2007	ND	0.2	2.83	0.010	0.540	0.010	54.1	0.010	43.0	0.010	0.596	0.010	0.640	0.010	3.75	0.010
CS-W14-2	2	Conf. Sidewall	1/5/2007	ND	4.0	20.3	0.010	17.7	0.010	526	0.010	611	0.010	12.6	0.010	15.0	0.010	214	0.010
CS-W14-4	4	Conf. Sidewall	1/5/2007	5.40J	0.010	122	0.010	58.1	0.010	518	0.010	922	0.010	109	0.010	480	0.010	668	0.010
CS-W14-6	6	Conf. Sidewall	1/5/2007	6.24J	0.010	9.76	0.010	27.1	0.010	406	0.010	581	0.010	33.7	0.010	140	0.010	273	0.010
CS-W15-2	2	Conf. Sidewall	1/23/2007	ND	0.010	ND	0.010	0.020	0.010	0.701	0.010	0.904	0.010	ND	0.010	ND	0.010	0.228	0.010
CS-W16-2	2	Conf. Sidewall	1/25/2007	0.066J	0.010	0.198	0.010	0.138	0.010	7.70	0.010	8.03	0.010	0.157	0.010	0.321	0.010	1.62	0.010
CS-W17-2	2	Conf. Sidewall	1/29/2007	ND	0.010	0.061	0.010	0.020	0.010	0.593	0.010	0.673	0.010	0.026	0.010	0.045	0.010	0.129	0.010
CS-W17-4	4	Conf. Sidewall	1/29/2007	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
CS-W18-2	2	Conf. Sidewall	1/29/2007	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.010J	0.010	ND	0.010	ND	0.010	ND	0.010
CS-W19-2	2	Conf. Sidewall	1/30/2007	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
CS-B14-10	10	Conf. Bottom	1/30/2007	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01

TABLE 5-2
MGP Site Southern Sidewall Soil Confirmation Samples Results for PAHs in mg/kg
Former Alameda MGP - Site Removal
Los Angeles, California

Sample ID	Sample Depth (Ft bgs)	Sample Type	Date	Pyrene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Indeno(1,2,3-cd)pyrene		B(a)P Equivalent
				Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	
CS-W2-2	2	Conf. Sidewall	12/8/2006	0.169	0.010	0.032	0.010	0.077	0.010	0.038	0.010	0.025	0.010	0.052	0.010	ND	0.010	0.065	0.010	0.9522
CS-W3-2	2	Conf. Sidewall	12/8/2006	ND	0.010	ND	0.010	0.010	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.01375
CS-W11-2	2	Conf. Sidewall	1/2/2007	29.9	0.010	4.33	0.010	12.4	0.010	5.33	0.010	4.18	0.010	10.1	0.010	ND	0.1	10.2	0.010	29.844
CS-W12-2	2	Conf. Sidewall	1/4/2007	18.6	0.010	4.36	0.010	9.94	0.010	6.19	0.010	3.43	0.010	7.36	0.010	0.179	0.010	10.9	0.010	12.56246
CS-W13-2	2	Conf. Sidewall	1/4/2007	65.9	0.010	13.1	0.010	40.2	0.010	24.2	0.010	15.0	0.010	25.9	0.010	0.858	0.010	40.3	0.010	50.01072
CS-W14-2	2	Conf. Sidewall	1/5/2007	843	0.010	ND	4.0	418	0.010	239	0.010	138	0.010	370	0.010	8.35	0.010	354	0.010	497.839
CS-W14-4	4	Conf. Sidewall	1/5/2007	1,080	0.010	248	0.010	424	0.010	240	0.010	157	0.010	310	0.010	ND	4	374	0.010	530
CS-W14-6	6	Conf. Sidewall	1/5/2007	786	0.010	170	0.010	308	0.010	174	0.010	107	0.010	218	0.010	ND	4	292	0.010	385
CS-W15-2	2	Conf. Sidewall	1/23/2007	1.21	0.010	0.210	0.010	0.472	0.010	0.281	0.010	0.175	0.010	0.376	0.010	ND	0.010	0.461	0.010	0.59016
CS-W16-2	2	Conf. Sidewall	1/25/2007	11.9	0.010	2.06	0.010	4.39	0.010	2.49	0.010	1.57	0.010	2.89	0.010	ND	0.050	4.35	0.010	5.4744
CS-W17-2	2	Conf. Sidewall	1/29/2007	0.902	0.010	0.199	0.010	0.379	0.010	0.210	0.010	0.134	0.010	0.231	0.010	ND	0.010	0.344	0.010	0.047171
CS-W17-4	4	Conf. Sidewall	1/29/2007	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
CS-W18-2	2	Conf. Sidewall	1/29/2007	0.014	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
CS-W19-2	2	Conf. Sidewall	1/30/2007	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.00875
CS-B14-10	10	Conf. Bottom	1/30/2007	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01	ND	0.01	0.00875

Yellow highlights represent sample results removed during excavation activities. All other non-highlighted sample results are considered remaining.

* = PAH detections at sample A-OSI-5d5 were suspected to be due to potential cross contamination from shallow soil during sampling. This sample depth was re-sampled on 09/16/13 and replaced with sample A-OSI-5-5.0

NA = Samples were held at the laboratory but not analyzed

ND = Not detected above method detection limit

mg/kg = milligram per kilogram

530 = Bold values represent concentrations of B(a)P Equivalent greater than 0.9 mg/kg

TABLE 9-1
Summary of Soil Analytical Results for CAM Title 22 Metals
Backfill Import Soil
Former Alameda MGP - Off-site Removal
Los Angeles, California

Sample ID	STLC Limit mg/L	TCLP Limit mg/L	TTLC Limit mg/kg	Units	BF-P1-1	SI-11/26/2013	S2-120213	S3-121213
					9/25/2013	11/26/2013	12/2/2013	12/12/2013
					Laboratory Job Number	70754	71465	71496
Antimony	15		500	mg/kg	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Arsenic	5.0	5.0	500	mg/kg	2.78J	ND<1.0	ND<1.0	ND<1.0
Barium	100	100	10000	mg/kg	87.7	63.5	54.0	48.9
Beryllium	0.75		75	mg/kg	ND<1.3	ND<1.3	ND<1.3	ND<1.3
Cadmium	1.0	1.0	100	mg/kg	ND<1.3	ND<1.3	ND<1.3	ND<1.3
Chromium	5.0	5.0	2500	mg/kg	8.13	11.9	9.90	11.2
Cobalt	80		8000	mg/kg	6.40	6.50	6.35	4.52J
Copper	25		2500	mg/kg	11.9	5.40	4.40J	7.31
Lead	5.0	5.0	1000	mg/kg	ND<2.5	ND<2.5	ND<2.5	ND<2.5
Mercury (By EPA 7471)	0.2	0.2	20	mg/kg	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Molybdenum	350		3500	mg/kg	ND<2.5	ND<2.5	ND<2.5	ND<2.5
Nickel	20		2000	mg/kg	7.98	9.60	7.25	6.81
Selenium	1.0	1.0	100	mg/kg	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Silver	5.0	5.0	500	mg/kg	ND<2.5	ND<2.5	ND<2.5	ND<2.5
Thallium	7.0		700	mg/kg	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Vanadium	24		2400	mg/kg	21.1	25.0	21.5	23.1
Zinc	250		5000	mg/kg	31.6	23.9	19.0	18.0

- 1) "ND<X" INDICATES CONSTITUENT(S) NOT DETECTED AT OR ABOVE METHOD DETECTION LIMIT.
- 2) "J" INDICATES ANALYTE WAS DETECTED. HOWEVER, ANALYTE CONCENTRATION IS AN ESTIMATED VALUE, WHICH IS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND THE PRACTICAL QUANTITATION LIMIT(PQL).
- 3) "D" INDICATES THE SAMPLE WAS DILUTED TO BRING THE ANALYTE CONCENTRATION WITHIN CALIBRATION RANGE.

TABLE 9-2
Summary of Soil Analytical Results for PAHs
Backfill Import Soil
Former Alameda MGP - Off-site Removal
Los Angeles, California

Sample ID	Units	BF-P1-1	SI-11/26/2013	S2-120213	S3-121213
		9/25/2013	11/26/2013	12/2/2013	12/12/2013
		70754	71465	71496	71620
Acenaphthene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Acenaphthylene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Anthracene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Benzo(g,h,i)perylene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Fluoranthene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Fluorene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Naphthalene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Phenanthrene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Pyrene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Benzo(a)anthracene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Benzo(a)pyrene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Benzo(b)fluoranthene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Benzo(k)fluoranthene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Chrysene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Dibenzo(a,h)anthracene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Indeno(1,2,3-cd)pyrene	mg/Kg	ND<0.010	ND<0.010	ND<0.010	ND<0.010
B(a)P Equivalent	mg/Kg	0.00875	0.00875	0.00875	0.00875

- 1)"ND<X" INDICATES CONSTITUENT(S) NOT DETECTED AT OR ABOVE METHOD DETECTION LIMIT.
- 2)"J" INDICATES ANALYTE WAS DETECTED. HOWEVER, ANALYTE CONCENTRATION IS AN ESTIMATED VALUE WHICH IS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND THE PRACTICAL QUANTITATION LIMIT (PQL).
- 3)"D" INDICATES THE SAMPLE WAS DILUTED TO BRING THE ANALYTE CONCENTRATION WITHIN CALIBRATION RANGE.
- 4)PAHs = POLYCYCLIC AROMATIC HYDROCARBONS.
- 5)SHADED COMPOUNDS INDICATE CARCINOGENIC PAHs USED TO CALCULATE B(a)P EQUIVALENT CONCENTRATION.

TABLE 9-3
Summary of Soil Analytical Results for TPH as Diesel and Heavy Hydrocarbons
Backfill Import Soil
Former Alameda MGP - Off-site Removal
Los Angeles, California

Sample ID	Units	BF-P1-1	SI-11/26/2013	S2-120213	S3-121213
Sample Date		9/25/2013	11/26/2013	12/2/2013	12/12/2013
Laboratory Job Number		70754	71465	71496	71620
TPH as Diesel (C13-C22)	mg/Kg	ND<1.0	ND<1.0	ND<1.0	ND<1.0
TPH as Heavy Hydrocarbons (C23-C40)	mg/Kg	ND<1.0	ND<1.0	ND<1.0	ND<1.0
TPH Total as Diesel and Heavy HC.C13-C40	mg/Kg	ND<1.0	ND<1.0	ND<1.0	ND<1.0

- 1) "ND<X" INDICATES CONSTITUENT(S) NOT DETECTED AT OR ABOVE METHOD DETECTION LIMIT.
- 2) "J" INDICATES ANALYTE WAS DETECTED. HOWEVER, ANALYTE CONCENTRATION IS AN ESTIMATED VALUE WHICH IS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND THE PRACTICAL QUANTITATION LIMIT(PQL).
- 3) "D" INDICATES THE SAMPLE WAS DILUTED TO BRING THE ANALYTE CONCENTRATION WITHIN CALIBRATION RANGE.

TABLE 9-4
Summary of Soil Analytical Results for TPH as Gasoline and Light Hydrocarbons
Backfill Import Soil
Former Alameda MGP - Off-Site Removal
Los Angeles, California

Sample ID	Units	BF-P1-1	SI-11/26/2013	S2-120213	S3-121213
Sample Date		9/25/2013	11/26/2013	12/2/2013	12/12/2013
Laboratory Job Number		70754	71465	71496	71620
TPH as Gasoline and Light HC. (C4-C12)	mg/Kg	ND<0.100	ND<0.100	ND<0.100	ND<0.100

- 1) "ND<X" INDICATES CONSTITUENT(S) NOT DETECTED AT OR ABOVE METHOD DETECTION LIMIT.
- 2) "J" INDICATES ANALYTE WAS DETECTED. HOWEVER, ANALYTE CONCENTRATION IS AN ESTIMATED VALUE WHICH IS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND THE PRACTICAL QUANTITATION LIMIT (PQL).
- 3) "D" INDICATES THE SAMPLE WAS DILUTED TO BRING THE ANALYTE CONCENTRATION WITHIN CALIBRATION RANGE.

TABLE 10-1
Summary of Chemicals Included in the Risk Assessment: Soil
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Chemical	Detection Frequency (Detections/Samples Analyzed)	Range of Detected Site Concentrations ^a (mg/kg)	Arithmetic Mean (mg/kg)	UCL of Site Concentrations ^b (mg/kg)	Site-Specific Background Detection Frequency (Detections/Samples Analyzed)	Range of Site-Specific Background Concentrations ^a (mg/kg)	UCL of Site-Specific Background Concentrations ^b (mg/kg)	Included in Risk Assessment ^c
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	0 / 75	ND	NC	NC	--	--	--	No
Acenaphthylene	3 / 75	0.022 - 0.22	0.019	NC	--	--	--	Yes
Anthracene	2 / 75	0.021 - 0.027	0.015	NC	--	--	--	Yes
Benzo(a)Anthracene ^d	27 / 75	0.011 - 40	0.58	2.9	--	--	--	Yes
Benzo(a)Pyrene ^d	37 / 75	0.015 - 63	0.98	4.6	--	--	--	Yes
Benzo(b)Fluoranthene ^d	35 / 75	0.011 - 37	0.59	2.8	--	--	--	Yes
Benzo(g,h,i)Perylene	35 / 75	0.013 - 74	1.2	5.5	--	--	--	Yes
Benzo(k)Fluoranthene ^d	31 / 75	0.011 - 23	0.36	0.97	--	--	--	Yes
Chrysene ^d	34 / 75	0.011 - 48	0.75	3.6	--	--	--	Yes
Dibenzo(a,h)Anthracene ^d	0 / 75	ND	NC	NC	--	--	--	Yes ^c
Fluoranthene	38 / 75	0.016 - 73	1.2	7.3	--	--	--	Yes
Fluorene	3 / 75	0.023 - 0.11	0.017	NC	--	--	--	Yes
Indeno(1,2,3-cd)Pyrene ^d	35 / 75	0.010 - 60	0.92	4.4	--	--	--	Yes
Naphthalene	8 / 75	0.011 - 0.22	0.019	0.020	--	--	--	Yes
Phenanthrene	30 / 75	0.012 - 4.8	0.15	0.29	--	--	--	Yes
Pyrene	40 / 75	0.011 - 106	1.7	11	--	--	--	Yes
Carcinogenic Polycyclic Aromatic Hydrocarbons								
Benzo(a)pyrene Equivalent ^f	75 / 75	0.0088-79.2	1.25	5.85	--	--	0.24 ^g	Yes ^h
Metals								
Lead	5 / 5	15 - 80	55	NC	--	--	--	Yes

Notes:

mg/kg = milligrams per kilogram.

NC = Not calculated. In order for ProUCL 5.0 to reliably evaluate a specific data population (e.g., dataset of concentrations of a particular chemical measured at the site), the population must include at least ten results including at least four detections.

ND = Not detected.

-- = Not analyzed for.

TABLE 10-1
Summary of Chemicals Included in the Risk Assessment: Soil
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Notes:

- ^a The range of concentrations in soil collected during previous site investigations and pre-excavation sampling that are representative of post-remediation in-place soil.
- ^b Corresponds to the Upper Confidence Limit (UCL) of the mean calculated using USEPA (2013) ProUCL Statistical Program.
- ^c In general, all chemicals detected in soil were included as chemicals of potential concern (COPCs) in the post-remediation human health risk assessment (HHRA). COPCs in soil that are included in the quantitative post-remediation HHRA include polycyclic aromatic hydrocarbons (PAHs) and lead.
- ^d Carcinogenic polycyclic aromatic hydrocarbons (CPAHs).
- ^e Dibenzo(a,h)Anthracene is included in the post-remediation HHRA, and is evaluated using Benzo(a)Pyrene Equivalents.
- ^f Benzo(a)pyrene equivalent concentration for CPAHs was calculated using the Potency Equivalency Factors, as recommended by Cal/EPA (2013).
- ^g Represents the 95% UCL of the ambient CPAH data set for Southern California used for risk management purposes.
- ^h As set forth in the Supplemental Removal Action Workplan (SRAW), remedial activities were focused on reducing the concentrations of CPAHs in off-site excavation areas to ambient concentrations such that potential future residents (in a residential scenario) will have no more exposure to CPAHs than they would have at ambient levels. As such, CPAHs are included in the post-remediation HHRA.

Sources:

California Environmental Protection Agency (Cal/EPA). 2013. *Interim Preliminary Endangerment Assessment Guidance Manual*. Department of Toxic Substances Control (DTSC). December.
United States Environmental Protection Agency (USEPA). 2013. *ProUCL Version 5.0.00 User Guide*. EPA/600/R-07/041. September.

TABLE 10-2
Exposure Parameters
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Exposure Parameter	Symbol	Scenarios			Units
		Future Population			
		Future Resident Child	Future Resident Adult	Future Resident, Age-Adjusted Adult	
Inhalation of Soil Particulates Particulate Emission Factor ^a	PEF	9.9E+08	9.9E+08	9.9E+08	m ³ /kg
Dermal Contact with Soil Surface Area ^b	SA	2,900	5,700	5,700	cm ² /day
Adherence Factor ^c	AF	0.2	0.07	0.07	mg/cm ²
Absorption Factor-PAHs ^d	ABS-PAH	0.15	0.15	0.15	unitless
Conversion Factor	CF	1.0E-06	1.0E-06	1.0E-06	kg/mg
Ingestion of Soil Ingestion Rate ^e	IR	200	100	100	mg/day
Conversion Factor	CF	1.0E-06	1.0E-06	1.0E-06	kg/mg
Ingestion of Groundwater Ingestion Rate	IR	NA	NA	NA	liters/day
Population-Specific Intake Parameters Exposure Frequency ^f	EF	350	350	350	days/yr
Exposure Duration	ED	6	30 ^g	24 ^g	yrs
Body Weight	BW	15	70	70	kg
Averaging Time-Carcinogens	AT _c	25,550	25,550	25,550	days
Averaging Time-Noncarcinogens	AT _{nc}	2,190	10,950	NA	days

Notes:

NA = Not applicable; incomplete exposure pathway or parameter not applicable to exposure scenario.

^a The particulate emission factor (PEF) is calculated using the equations found in the Soil Screening Guidance (USEPA 2002), with input parameters as found in Table 10-7.

^b Corresponds to the area of exposed skin in each respective population (Cal/EPA 2011).

^c Soil adherence factors for commercial worker populations recommended by Cal/EPA (2011).

^d Dermal absorption factors for specific compound classes from Cal/EPA (2013).

^e Ingestion rates recommended by Cal/EPA (2011) for residential populations.

^f For the residents, corresponds to 7 days/week for 50 weeks/year.

^g Per Cal/EPA guidance, cancer risks for future site residents are calculated using an age-adjusted approach to account for the higher exposures per body weight that occur during the childhood years. Accordingly, for carcinogenic effects, the evaluation assumes that the resident is a child for the first 6 years of exposure and an adult for the remaining 24 years. For noncarcinogenic hazards, the averaging time for the adult resident is 30 years.

Sources:

California Environmental Protection Agency (Cal/EPA). 2013. *Preliminary Endangerment Assessment Guidance Manual*. Department of Toxic Substances Control (DTSC). December.

California Environmental Protection Agency (Cal/EPA). 2011. *DTSC/HERO Human Health Risk Assessment (HHRA) Note Number 1: Recommended DTSC Default Exposure Factors for Use in Risk Assessment at California Hazardous Waste Sites and Permitted Facilities*. Department of Toxic Substances Control (DTSC). May 20.

U.S. Environmental Protection Agency (USEPA). 2002. *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites*. Office of Solid Waste and Emergency Response. Washington, DC, December.

TABLE 10-3
Equations Used to Calculate Exposure Concentrations and Chronic Daily Intakes:
Future Residential Scenario
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Exposure Concentration: Vapor Inhalation¹

Noncancer

$$EC_{inhv, nc} = \frac{C_a \times EF \times ED_{adult}}{AT_{nc, adult}}$$

Cancer

$$EC_{inhv, c} = \frac{C_a \times EF \times ED_{adult}}{AT_c}$$

where $C_a = C_s \times 1/VF$ for soil to outdoor air pathway

Exposure Concentration: Soil Particulate Inhalation

Noncancer

$$EC_{inhp, nc} = \frac{C_s \times (1/PEF) \times EF \times ED_{adult}}{AT_{nc, adult}}$$

Cancer

$$EC_{inhp, c} = \frac{C_s \times (1/PEF) \times EF \times ED_{adult}}{AT_c}$$

Chronic Daily Intake: Dermal Contact

Noncancer

$$CDI_{derm, child, nc} = \frac{C_s \times SA_{child} \times AF_{child} \times ABS \times EF \times ED_{child} \times CF}{BW_{child} \times AT_{nc, child}} \qquad CDI_{derm, adult} = \frac{C_s \times SA_{adult} \times AF_{adult} \times ABS \times EF \times ED_{adult} \times CF}{BW_{adult} \times AT_{nc, adult}}$$

Cancer

$$CDI_{derm, age\ adjusted, c} = \frac{C_s \times SA_{child} \times AF_{child} \times ABS \times EF \times ED_{child} \times CF}{BW_{child} \times AT_c} + \frac{C_s \times SA_{adult} \times AF_{adult} \times ABS \times EF \times ED_{adult, age\ adjusted} \times CF}{BW_{adult} \times AT_c}$$

TABLE 10-3
Equations Used to Calculate Exposure Concentrations and Chronic Daily Intakes:
Future Residential Scenario
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Chronic Daily Intake: Soil Ingestion	
<i>Noncancer</i>	$CDI_{ing, child, nc} = \frac{C_s \times IR_{child} \times CF \times EF \times ED_{child}}{BW_{child} \times AT_{nc, child}} \qquad \qquad \qquad CDI_{ing, adult} = \frac{C_s \times IR_{adult} \times CF \times EF \times ED_{adult}}{BW_{adult} \times AT_{nc, adult}}$
<i>Cancer</i>	$CDI_{ing, age\ adjusted, c} = \frac{C_s \times IR_{child} \times CF \times EF \times ED_{child}}{BW_{child} \times AT_c} + \frac{C_s \times IR_{adult} \times CF \times EF \times ED_{adult, age\ adjusted}}{BW_{adult} \times AT_c}$

Where:

- ABS = Absorption Factor [Unitless]
- AF = Soil to Skin Adherence Factor [mg/cm²]
- AT_c = Averaging Time for Carcinogenic Compounds [days]
- AT_{nc} = Averaging Time for Noncarcinogenic Compounds [days]
- BW = Body Weight [kg]
- C_a = Concentration of Chemical in Air [mg/m³]
- C_s = Concentration of Chemical in Soil [mg/kg]
- CDI_{derm} = Chronic Daily Intake: Dermal Contact [mg_{chemical}/kg_{body weight}-day]
- CDI_{ing} = Chronic Daily Intake: Ingestion [mg_{chemical}/kg_{body weight}-day]
- CF = Conversion Factor [kg/mg]
- EC_{inhp} = Exposure Concentration: Soil Particulate Inhalation [mg_{chemical}/m³_{air}]
- EC_{inhv} = Exposure Concentration: Vapor Inhalation [mg_{chemical}/m³_{air}]
- ED = Exposure Duration [years]
- EF = Exposure Frequency [days/year]
- IR = Soil Ingestion Rate [mg/day]
- PEF = Soil-to-Air Particulate Emission Factor [m³/kg]
- SA = Surface Area of Exposed Skin [cm²/day]
- VF = Soil-to-Air Volatilization Factor [m³/kg]

Notes:

- 1) The equations above do not include the exposure time (ET) term listed in USEPA's Risk Assessment Guidance for Superfund (RAGS) Part F, as a future resident is assumed to be exposed for all 24 hours per day.

TABLE 10-4
Exposure Point and Predicted Outdoor Air Concentrations for Chemicals of Potential Concern in Soil:
Future Residential Scenario
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Chemical	Future Resident				
	Exposure Point Concentration for Soil (mg/kg) ^a	Particulate Emissions Factor (PEF) (m ³ /kg)	Outdoor Airborne Particulate Concentration (mg/m ³) ^b	Volatilization Factor (VF) (mg/m ³)	Outdoor Airborne Volatile Concentration (mg/m ³) ^c
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	ND	NA	NA	NA	NA
Acenaphthylene	<i>2.2E-01</i>	9.9E+08	2.2E-10	1.4E+05	1.5E-06
Anthracene	<i>2.7E-02</i>	9.9E+08	2.8E-11	5.7E+05	4.8E-08
Benzo(a)anthracene	2.9E+00	9.9E+08	2.9E-09	NA	NA
Benzo(a)pyrene	4.6E+00	9.9E+08	4.7E-09	NA	NA
Benzo(b)fluoranthene	2.8E+00	9.9E+08	2.8E-09	NA	NA
Benzo(g,h,i)perylene	5.5E+00	9.9E+08	5.5E-09	NA	NA
Benzo(k)fluoranthene	9.7E-01	9.9E+08	9.8E-10	NA	NA
Chrysene	3.6E+00	9.9E+08	3.6E-09	NA	NA
Dibenzo(a,h)anthracene	ND	NA	NA	NA	NA
Fluoranthene	7.3E+00	9.9E+08	7.4E-09	NA	NA
Fluorene	<i>1.1E-01</i>	9.9E+08	1.1E-10	5.1E+05	2.2E-07
Indeno(1,2,3-cd)pyrene	4.4E+00	9.9E+08	4.5E-09	NA	NA
Naphthalene	2.0E-02	9.9E+08	2.0E-11	5.5E+04	3.6E-07
Phenanthrene	2.9E-01	9.9E+08	2.9E-10	4.6E+05	6.3E-07
Pyrene	1.1E+01	9.9E+08	1.1E-08	3.8E+06	2.8E-06
Metals					
Lead	<i>8.0E+01</i>	9.9E+08	8.1E-08	NA	NA

Notes:

- ^a The exposure point concentrations (EPCs) for the soil off-site dataset are used for the evaluation of direct contact exposure pathways (i.e., ingestion and dermal contact) and inhalation of outdoor air particulates and volatiles. Unless otherwise indicated, the upper confidence limit of the arithmetic mean concentrations (UCLs) of the soil dataset are used as the representative EPCs. Maximum detected concentrations are bolded and italicized.
- ^b Outdoor air particulate concentration is calculated by dividing the soil EPC by the PEF.
- ^c Outdoor air vapor concentration is calculated by dividing the soil EPC by the VF.

TABLE 10-5
Chemical Properties of the Chemicals of Potential Concern
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Chemical	VOC? ^a	Diffusivity in air, D _a (cm ² /s)		Diffusivity in water, D _w (cm ² /s)		Henry's Law Constant at Reference Temperature (25° C), H (atm-m ³ /mol)		Dimensionless Henry's Law Constant at Reference Temperature (25° C), H' (unitless)		Organic Carbon Partition Coefficient, K _{oc} (cm ³ /g)		Pure Component Water Solubility, S (mg/L)		Vapor Pressure, VP (mmHg)		Soil Saturation Concentration, C _{sat} , calculated (mg/kg)		Molecular Weight (g/mol)
Polycyclic Aromatic Hydrocarbons																		
Acenaphthylene	Y	6.6E-02	3	NONE		1.1E-04	3	4.7E-03	3	3.6E+03	3	1.6E+01	3	9.1E-04	3	3.5E+02		1.5E+02
Anthracene	Y	3.9E-02	2	7.9E-06	2	5.6E-05	2	2.3E-03	2	1.6E+04	2	4.3E-02	2	2.7E-06	2	4.3E+00		1.8E+02
Benzo(a)anthracene	N	5.1E-02	2	5.9E-06	2	1.2E-05	2	4.9E-04	2	1.8E+05	2	9.4E-03	2	1.9E-06	3	NA		2.3E+02
Benzo(a)pyrene	N	4.8E-02	2	5.6E-06	2	4.6E-07	2	1.9E-05	2	5.9E+05	2	1.6E-03	2	5.5E-09	3	NA		2.5E+02
Benzo(b)fluoranthene	N	2.3E-02	1	5.6E-06	1	1.1E-04	1	4.5E-03	1	1.2E+06	1	1.5E-03	1	5.0E-07	1	NA		2.5E+02
Benzo(g,h,i)perylene	N	5.0E-02	3	NONE		3.3E-07	3	1.4E-05	3	1.9E+06	3	2.6E-04	3	2.4E-10	3	NA		2.8E+02
Benzo(k)fluoranthene	N	4.8E-02	2	5.6E-06	2	5.8E-07	2	2.4E-05	2	5.9E+05	2	8.0E-04	2	9.7E+10	3	NA		2.5E+02
Chrysene	N	2.5E-02	1	6.2E-06	1	9.4E-05	1	3.9E-03	1	4.0E+05	1	6.3E-03	1	2.0E-06	1	NA		2.3E+02
Fluoranthene	N	2.8E-02	2	7.2E-06	2	8.9E-06	2	3.6E-04	2	5.5E+04	2	2.6E-01	2	8.7E-06	3	NA		2.0E+02
Fluorene	Y	3.6E-02	1	7.9E-06	1	6.3E-05	1	2.6E-03	1	1.4E+04	1	2.0E+00	1	5.7E-04	1	1.6E+02		1.7E+02
Indeno(1,2,3-cd)pyrene	N	4.5E-02	2	5.2E-06	2	1.6E-06	2	6.6E-05	2	3.5E+06	2	2.2E-05	2	3.5E-07	3	NA		2.8E+02
Naphthalene	Y	5.9E-02	1	7.5E-06	1	4.8E-04	1	2.0E-02	1	2.0E+03	1	3.1E+01	1	8.9E-02	1	3.8E+02		1.3E+02
Phenanthrene	Y	6.0E-02	3	NONE		4.2E-05	3	1.7E-03	3	1.2E+04	3	1.2E+00	3	1.1E-04	3	8.4E+01		1.8E+02
Pyrene	Y	2.7E-02	1	7.2E-06	1	1.1E-05	1	4.5E-04	1	1.1E+05	1	1.4E+00	1	5.6E-05	1	8.5E+02		2.0E+02
Metals																		
Lead	N	NONE		NONE		NONE		NONE		NONE		NONE		NA		NA		2.1E+02

Notes:

NA = Not applicable.

^a VOC = Volatile organic compound. Consistent with USEPA guidance, volatile chemicals are defined as having a Henry's Law Constant [atm-m³/mol] greater than 1 x 10⁻⁵ and molecular weight greater than 200 grams per mol (USEPA, 2013).

References:

- California Environmental Protection Department (Cal/EPA). 2005. Department of Toxic Substances Control (DTSC). Human and Ecological Risk Division (HERD). Johnson and Ettinger screening-level soil gas model contained in Excel spreadsheet "HERD_Soil_Gas_Screening_Model_2005.xls".
- United States Environmental Protection Agency (USEPA). 2013. From USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites, Nov, 2013. Available at: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm.
- SRC PhysProp Database. 2002. Found at <http://esc.syrres.com/interkow/physdemo.htm> and methods from Schwarzenback R. P. et al. 1993. Environmental Organic Chemistry. John Wiley and Sons, Inc., New York, NY.

TABLE 10-6
Volatilization Factor Equations and Parameters
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

<i>Outdoor Air Volatilization Factor (VF) Calculated for Naphthalene, (USEPA, 2002, Equation 4-8)</i>				
<i>Future Residential Scenario</i>				
$VF = \frac{Q/C_{vol} \times (3.14 \times D_A \times T)^{1/2} \times 10^{-4} \text{ (m}^2/\text{cm}^2\text{)}}{2 \times \rho_b \times D_A}$		=	5.5E+04	m ³ /kg
where:				
$D_A = \frac{[(\theta_a^{3.33} D_i H') + (\theta_w^{3.33} D_w)] / \eta^2}{\rho_b K_d + \theta_w + \theta_a H'}$				
and:				
D_A	5.0E-06	cm ² /s	apparent diffusivity (calculated using equation cited above)	
Q/C_{vol}	68.18	(g/m ² -s) / (kg/m ³)	dispersion factor (calculated, see below)	
T	9.5E+08	s	exposure interval (based on exposure duration of 30 years)	
ρ_b	1.5	g/cm ³	dry soil bulk density (default)	
η	0.43	cm ³ _{pore} /cm ³ _{soil}	total soil porosity (default)	
θ_w	0.15	cm ³ _{water} /cm ³ _{soil}	water-filled soil porosity (default)	
θ_a	0.28	cm ³ _{air} /cm ³ _{soil}	air-filled soil porosity (calculated, n- θ_w)	
D_i	5.9E-02	cm ² /s	diffusivity in air (chemical-specific, see Table 6-5 of HHRA)	
H'	2.0E-02	unitless	Henry's Law Constant (chemical-specific, see Table 6-5 of HHRA)	
D_w	7.5E-06	cm ² /s	diffusivity in water (chemical-specific, value in Table 6-5 of HHRA)	
$K_d = K_{oc} \times f_{oc}$	12	cm ³ /g	soil-water partition coefficient (calculated, see below)	
K_{oc}	2000	cm ³ /g	soil organic carbon partition coefficient (chemical-specific, see Table 6-5 of HHRA)	
f_{oc}	0.006	g/g	fraction organic carbon in soil (default)	

<i>Equation for Dispersion Factor for Volatile Compounds (Equation D-1, USEPA, 2002)</i>				
<i>Future Residential Scenario</i>				
$Q/C_{vol} = A \exp[(\ln A_{site} - B)^2 (1/C)]$		=	68.2	(g/m ² -s) / (kg/m ³)
where:				
A_{site}	0.50	acres	areal extent of the Site ¹	
Location	LA	--	General location (USEPA 2002)	
A	11.91	--	constant, default value presented Exhibit D-2 (USEPA, 2002)	
B	18.44	--	constant, default value presented Exhibit D-2 (USEPA, 2002)	
C	209.78	--	constant, default value presented Exhibit D-2 (USEPA, 2002)	

Notes:

¹ The areal extent of the offsite property is estimated to be smaller than 0.5 acres. Thus, the default conservative area of 0.5 acres is used.

References:

USEPA. 2002. *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites*. Office of Solid Waste and Emergency Response. Washington, D.C., December.

TABLE 10-7
Particulate Emission Factor Equations and Parameters
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

<i>Particulate Emission Factor: Residential Land-Use Scenario</i>				
PEF (m ³ /kg) =		$\frac{Q/C \times 3600 \text{ s/h}}{0.036 \times (1-V) \times (U_m/U_t)^3 \times F(x)}$		= 9.9E+08 m ³ /kg
where:				
Q/C	68.2	(g/m ² -s) / (kg/m ³)	dispersion factor (calculated, see below)	
V	0.5	unitless	fraction veg. cover (default from USEPA 2002)	
U _m	4.69	m/s	mean annual windspeed (default from USEPA 2002)	
U _t	11.32	m/s	threshold value of windspeed at 7 m (default from USEPA 2002)	
F(x)	0.194	unitless	function dependent on U _m /U _t (default from USEPA 2002)	
<i>Site-specific Dispersion Factor (USEPA 2002, Equation D-1)</i>				
Q/C _{wind} =		A exp[(ln A _{site} - B) ² (1/C)]		= 68.2 (g/m ² -s) / (kg/m ³)
where:				
A _{site}	0.5	acres	areal extent of the Site	
Location	LA	--	General location (USEPA 2002)	
A	11.9	--	constant, default value presented Exhibit D-2 (USEPA 2002)	
B	18.4	--	constant, default value presented Exhibit D-2 (USEPA 2002)	
C	209.8	--	constant, default value presented Exhibit D-2 (USEPA 2002)	

Sources:

USEPA. 2002. *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites*.
Office of Soil Waste and Emergency Response. Washington, D.C., December.

TABLE 10-8
Carcinogenic and Noncarcinogenic Toxicity Values for Chemicals of Potential Concern
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Chemical	Unit Risk Factor (URF) (mg/m ³) ⁻¹		Cancer Slope Factor (CSF) (mg/kg-day) ⁻¹		Chronic Reference Concentration (RfC) (mg/m ³)		Chronic Reference Dose (RfD) (mg/kg-day)	
	Inhalation	Source	Oral	Source	Inhalation	Source	Oral	Source
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	NC	1	NC	1	2.1E-01	2a	6.0E-02	2
Acenaphthylene	NC	1	NC	1	2.1E-01	2b	6.0E-02	2b
Anthracene	NC	1	NC	1	1.1E+00	2a	3.0E-01	2
Benzo(a)anthracene	na	1	na	1	1.1E-01	2c	3.0E-02	2c
Benzo(a)pyrene	na	1	na	1	1.1E-01	2c	3.0E-02	2c
Benzo(b)fluoranthene	na	1	na	1	1.1E-01	2c	3.0E-02	2c
Benzo(g,h,i)perylene	NC	1	NC	1	1.1E-01	2c	3.0E-02	2c
Benzo(k)fluoranthene	na	1	na	1	1.1E-01	2c	3.0E-02	2c
Chrysene	na	1	na	1	1.1E-01	2c	3.0E-02	2c
Dibenzo(a,h)anthracene	na	1	na	1	1.1E-01	2c	3.0E-02	2c
Fluoranthene	NC	1	NC	1	1.4E-01	2a	4.0E-02	2
Fluorene	NC	1	NC	1	1.4E-01	2a	4.0E-02	2
Indeno(1,2,3-cd)pyrene	na	1	na	1	1.1E-01	2c	3.0E-02	2c
Naphthalene	3.4E-02	1	1.2E-01	1a	3.0E-03	2	2.0E-02	2
Phenanthrene	NC	1	NC	1	1.1E+00	2d	3.0E-01	2d
Pyrene	NC	1	NC	1	1.1E-01	2a	3.0E-02	2
Metals								
Lead	NA	e	NA	e	NA	e	NA	e

Notes:

NA = Not available or not applicable.

NC = Not considered to be a carcinogen.

na = The evaluation of the significance of residential exposure to carcinogenic PAHs (CPAHs, expressed benzo(a)pyrene equivalents) is not a risk-based evaluation, but rather is based on assessing whether the CPAHs concentrations that remain in off-site excavation area soil are similar to ambient concentrations in southern California soil; as further discussed in Section 10.5.1 of the report. Although the remedial goal of achieving an unrestricted land use scenario for CPAHs is not risk-based, as recommended by DTSC, the potential noncancer health effects of CPAHs are included in the estimate of cumulative noncancer hazard from all COPCs remaining

- a Route-to-route extrapolation.
- b Surrogate value - assumes toxicity for acenaphthene.
- c Because the USEPA has not developed an RfD for this chemical, the noncancer RfD for pyrene is used as a surrogate value.
- d Surrogate value - assumes toxicity for anthracene.
- e Lead exposure is evaluated using Cal/EPA OEHHA's benchmark approach. See text for details.

Sources:

1. California Environmental Protection Agency (Cal/EPA), Office of Environmental Health Hazard Assessment (OEHHA). 2014. Toxicity Criteria Database. Table of cancer slope factors maintained at <http://www.oehha.ca.gov/risk/ChemicalIDB/index.asp>; table of chronic RELs maintained online at <http://www.oehha.ca.gov/air/allrels.html>.
2. United States Environmental Protection Agency (USEPA). 2014. *Integrated Risk Information System Database*. Maintained online at <http://www.epa.gov/iris/index.html>.

TABLE 10-9
Summary of Representative Post-Excavation CPAH Data
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Sample ID ^a	Sample Depth (ft bgs)	Sample Date	Benzo(a)pyrene Equivalent ^b (mg/kg)
A-OSI-1d5	5.0	11/20/2011	0.0088
A-OSI-3d3	3.0	11/20/2011	0.0088
A-OSI-4d5	5.0	11/20/2011	0.0088
A-OSI-5d5	5.0	11/20/2011	1.1
A-OSI-5-6.0	6.0	9/16/2013	0.0088
A-OSI-5-7.0	7.0	9/16/2013	0.0088
A-OSI-6ad3	3.0	11/20/2011	0.0088
A-OSI-6ad5	5.0	11/20/2011	0.0088
A-OSI-6d1	1.0	11/20/2011	0.083
A-OSI-6d3	3.0	11/20/2011	0.0088
A-OSI-6d5	5.0	11/20/2011	0.0088
A-OIS-7-1.5	1.5	9/20/2013	0.68
A-OIS-7-3	3.0	9/20/2013	0.0088
A-OIS-7-5	5.0	9/20/2013	0.022
A-OIS-9-1.5	1.5	9/20/2013	0.044
A-OIS-9-3	3.0	9/20/2013	0.0088
A-OIS-9-5	5.0	9/20/2013	0.0088
A-OIS-11-1.5	1.5	9/20/2013	0.037
A-OIS-11-3	3.0	9/20/2013	0.0088
A-OIS-11-5	5.0	9/20/2013	0.0088
A-OIS-13-1.5	1.5	9/26/2013	0.032
A-OIS-13-3	3.0	9/26/2013	0.066
A-OIS-13-5	5.0	9/26/2013	0.0088
A-OIS-14-1.5	1.5	9/26/2013	0.21
A-OIS-14-3	3.0	9/26/2013	0.0088
A-OIS-14-5	5.0	9/26/2013	0.0088
A-OIS-15-3	3.0	9/26/2013	0.0088
A-OIS-15-5	5.0	9/26/2013	0.0088
A-OIS-16-1.5	1.5	9/26/2013	0.46
A-OIS-16-3	3.0	9/26/2013	0.0088
A-OIS-16-5	5.0	9/26/2013	0.0088
A-OIS-17-3	3.0	9/26/2013	0.0088
A-OIS-17-5	5.0	9/26/2013	0.0088
A-OIS-18-1.5	1.5	9/26/2013	0.79
A-OIS-18-3	3.0	9/26/2013	0.10
A-OIS-18-5	5.0	9/26/2013	0.0088
A-OSI-19-1.5	1.5	10/1/2013	0.23
A-OIS-20-3.5	3.5	9/26/2013	0.085
A-OIS-20-5	5.0	9/26/2013	0.0088
A-OIS-22-5	5.0	9/27/2013	0.0088
A-OIS-23-5	5.0	9/27/2013	0.031
A-OSI-32-1.5	1.5	10/2/2013	0.39
A-OSI-32-3	3.0	10/2/2013	0.0088
A-OSI-33-1.5	1.5	10/2/2013	0.44
P1-B-1	2.0	9/12/2013	0.44
P1-B-2	2.0	9/12/2013	0.26
P1-B-3	3.5	9/16/2013	0.68
P1-B-4	3.5	9/16/2013	0.65
P1-B-5	2.0	9/16/2013	0.0088

TABLE 10-9
Summary of Representative Post-Excavation CPAH Data
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Sample ID ^a	Sample Depth (ft bgs)	Sample Date	Benzo(a)pyrene Equivalent ^b (mg/kg)
P1-S-1	1.5	9/12/2013	0.56
P1-S-3	1.5	9/12/2013	0.51
P1-S-4	1.5	9/12/2013	0.68
P1-S-5	1.5	9/16/2013	0.32
P1-S-8	1.5	9/16/2013	1.0
P1-S-12	1.5	9/16/2013	0.28
P1-S-13	2.0	9/18/2013	1.1
P1-S-16	2.0	9/19/2013	0.69
P1-S-17	2.0	9/19/2013	1.1
P1-S-18	1.5	9/20/2013	0.035
P1-S-19	1.5	9/24/2013	0.57
P2-S1-1.5	1.5	11/22/2013	0.62
P2-B1-2	2.0	11/7/2013	0.028
P2-B2-3	3.0	11/18/2013	<i>0.0088</i>
P2-B3-3	3.0	11/18/2013	<i>0.0088</i>
P2-B4-3	3.0	11/18/2013	<i>0.0088</i>
P2-B5-3	3.0	11/21/2013	<i>0.0088</i>
P2-B6-3	3.0	11/19/2013	<i>0.0088</i>
P2-B7-2.5	2.5	11/19/2013	<i>0.0088</i>
P2-B8-2.5	2.5	11/19/2013	<i>0.0088</i>
P2-B9-3	3.0	11/22/2013	<i>0.0088</i>
P2-B10-2.5	2.5	11/22/2013	<i>0.0088</i>
P2-B11-5.5	5.5	12/12/2013	<i>0.0088</i>
PS-S2-1.5A	1.5	11/22/2013	0.13
PS-S2-1.75A	1.8	11/22/2013	79
PS-S2-2.0A	2.0	11/22/2013	0.18

Notes:

mg/kg = milligrams per kilogram.

ft = feet.

bgs = below ground surface. Top depth and bottom depth are shown above, if available.

^a Higher benzo(a)pyrene equivalent value from the primary or duplicate sample is included in the statistical evaluation and is presented here.

^b Values in bold and italics are based on non-detects for all seven carcinogenic polycyclic aromatic hydrocarbons (CPAHs).

TABLE 10-10
Summary Statistics for Representative Post-Excavation CPAH Dataset
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Summary Statistics	CPAH in Soil (All Samples)	CPAH in Soil (Excluding PS-S2-1.75A)
Number of Samples	75	74
Minimum	0.0088	0.0088
Maximum	79.2	1.1
Average ^a	1.25	0.20
Standard Deviation	9.12	0.309
Median	0.0088	0.0088
UCL ^b	5.85	0.36
95th percentile	1.05	0.88

Notes:

CPAH = Carcinogenic Polycyclic Aromatic Hydrocarbons (expressed in benzo(a)pyrene equivalents).

^a Corresponds to the arithmetic average concentration.

^b Upper Confidence Limit (UCL) for soils calculated by USEPA ProUCL Version 5.0 Statistical Program (USEPA 2013).

Source:

U.S. Environmental Protection Agency (USEPA). 2013. *ProUCL Version 5.0.00 User Guide*. EPA/600/R-07/041. September .

TABLE 10-11
SUMMARY STATISTICS FOR SOUTHERN CALIFORNIA CPAH DATASET
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Summary Statistics	Southern California CPAH Ambient Data
Number of Samples	185
Minimum	0.00076
Maximum	4.1
Average ^a	0.16
Standard Deviation	0.41
95% UCL ^b	0.24
UTL ^c (95% coverage, 95% confidence)	0.91
95th Percentile	0.61

Notes:

CPAH = Carcinogenic polycyclic aromatic hydrocarbons, expressed in terms of benzo(a)pyrene equivalents.

- ^a Corresponds to the arithmetic average concentration.
- ^b Corresponds to the 95% Upper confidence limit (UCL) of the mean calculated based on the assumption of lognormality.
- ^c Corresponds to the Upper Tolerance Limit (with 95% coverage and 95% confidence) calculated based on the assumption of lognormality.

TABLE 10-12
Exposure Concentration and Chronic Daily Intake for Carcinogens in Soil:
Future Residential Scenario
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Chemical	Future Resident, Age-Adjusted			
	Soil Pathway			
	EC: Particulate Inhalation (mg/m ³)	CDI: Dermal Contact (mg/kg-day)	CDI: Ingestion (mg/kg-day)	EC: Vapor Inhalation (mg/m ³)
Polycyclic Aromatic Hydrocarbons				
Acenaphthylene	NC	NC	NC	NC
Anthracene	NC	NC	NC	NC
Benzo(a)anthracene	NA	NA	NA	Not VOC
Benzo(a)pyrene	NA	NA	NA	Not VOC
Benzo(b)fluoranthene	NA	NA	NA	Not VOC
Benzo(g,h,i)perylene	NC	NC	NC	Not VOC
Benzo(k)fluoranthene	NA	NA	NA	Not VOC
Chrysene	NA	NA	NA	Not VOC
Fluoranthene	NC	NC	NC	Not VOC
Fluorene	NC	NC	NC	NC
Indeno(1,2,3-cd)pyrene	NA	NA	NA	Not VOC
Naphthalene	8.2E-12	1.5E-08	3.1E-08	1.5E-07
Phenanthrene	NC	NC	NC	NC
Pyrene	NC	NC	NC	NC
Metals				
Lead	na	na	na	na

Notes:

CDI = Chronic Daily Intake.

EC = Exposure Concentration.

mg/m³ = milligrams per cubic meter.

mg/kg-day = milligrams per kilogram per day.

NA = Not applicable. Carcinogenic PAHs are evaluated using benzo(a)pyrene equivalents.

na = Not applicable. Potential exposure to lead is evaluated using DTSC's LeadSpread model. Please see text for discussion.

NC = Not considered a carcinogen.

Not VOC = Not considered a volatile organic compound (VOC).

TABLE 10-13
Exposure Concentration and Chronic Daily Intake for Non-carcinogens in Soil:
Future Residential Scenario
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Chemical	Future Resident Child				Future Resident Adult			
	Soil Pathway				Soil Pathway			
	EC: Particulate Inhalation (mg/m ³)	CDI: Dermal Contact (mg/kg-day)	CDI: Ingestion (mg/kg-day)	EC: Vapor Inhalation (mg/m ³)	EC: Particulate Inhalation (mg/m ³)	CDI: Dermal Contact (mg/kg-day)	CDI: Ingestion (mg/kg-day)	EC: Vapor Inhalation (mg/m ³)
Polycyclic Aromatic Hydrocarbons								
Acenaphthylene	2.1E-10	1.2E-06	2.8E-06	1.4E-06	2.1E-10	1.8E-07	3.0E-07	1.4E-06
Anthracene	2.7E-11	1.5E-07	3.5E-07	4.6E-08	2.7E-11	2.2E-08	3.8E-08	4.6E-08
Benzo(a)anthracene	2.8E-09	1.6E-05	3.7E-05	Not VOC	2.8E-09	2.4E-06	4.0E-06	Not VOC
Benzo(a)pyrene	4.5E-09	2.6E-05	5.9E-05	Not VOC	4.5E-09	3.8E-06	6.4E-06	Not VOC
Benzo(b)fluoranthene	2.7E-09	1.5E-05	3.6E-05	Not VOC	2.7E-09	2.3E-06	3.8E-06	Not VOC
Benzo(g,h,i)perylene	5.3E-09	3.0E-05	7.0E-05	Not VOC	5.3E-09	4.5E-06	7.5E-06	Not VOC
Benzo(k)fluoranthene	9.4E-10	5.4E-06	1.2E-05	Not VOC	9.4E-10	8.0E-07	1.3E-06	Not VOC
Chrysene	3.4E-09	2.0E-05	4.5E-05	Not VOC	3.4E-09	2.9E-06	4.9E-06	Not VOC
Fluoranthene	7.1E-09	4.0E-05	9.3E-05	Not VOC	7.1E-09	6.0E-06	1.0E-05	Not VOC
Fluorene	1.1E-10	6.2E-07	1.4E-06	2.1E-07	1.1E-10	9.2E-08	1.5E-07	2.1E-07
Indeno(1,2,3-cd)pyrene	4.3E-09	2.4E-05	5.6E-05	Not VOC	4.3E-09	3.6E-06	6.0E-06	Not VOC
Naphthalene	1.9E-11	1.1E-07	2.5E-07	3.4E-07	1.9E-11	1.6E-08	2.7E-08	3.4E-07
Phenanthrene	2.8E-10	1.6E-06	3.7E-06	6.0E-07	2.8E-10	2.4E-07	3.9E-07	6.0E-07
Pyrene	1.0E-08	5.9E-05	1.3E-04	2.7E-06	1.0E-08	8.6E-06	1.4E-05	2.7E-06
Metals								
Lead	na	na	na	na	na	na	na	na

Notes:

- CDI = Chronic Daily Intake.
- EC = Exposure Concentration.
- mg/m³ = milligrams per cubic meter.
- mg/kg-day = milligrams per kilogram per day.
- Not VOC = Not considered a volatile organic compound (VOC).
- na = Not applicable. Potential exposure to lead is evaluated using DTSC's LeadSpread model. Please see text for discussion.

TABLE 10-14
Estimated Cancer Risks from Soil:
Future Residential Scenario
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Chemical	Future Resident, Age-Adjusted				
	Soil Pathway				
	Particulate Inhalation	Dermal Contact	Ingestion	Vapor Inhalation	Total Cancer Risk
Polycyclic Aromatic Hydrocarbons					
Acenaphthylene	NC	NC	NC	NC	NC
Anthracene	NC	NC	NC	NC	NC
Benzo(a)anthracene	NA	NA	NA	Not VOC	NA
Benzo(a)pyrene	NA	NA	NA	Not VOC	NA
Benzo(b)fluoranthene	NA	NA	NA	Not VOC	NA
Benzo(g,h,i)perylene	NC	NC	NC	Not VOC	NC
Benzo(k)fluoranthene	NA	NA	NA	Not VOC	NA
Chrysene	NA	NA	NA	Not VOC	NA
Fluoranthene	NC	NC	NC	Not VOC	NC
Fluorene	NC	NC	NC	NC	NC
Indeno(1,2,3-cd)pyrene	NA	NA	NA	Not VOC	NA
Naphthalene	2.8E-13	1.8E-09	3.7E-09	5.0E-09	1.0E-08
Phenanthrene	NC	NC	NC	NC	NC
Pyrene	NC	NC	NC	NC	NC
Metals					
Lead	na	na	na	na	na
Total Cancer Risk	2.8E-13	1.8E-09	3.7E-09	5.0E-09	1.0E-08

Notes:

NA = Not applicable.

na = Not applicable. Potential exposure to lead is evaluated using DTSC's LeadSpread model. Please see text for discussion.

NC = Not considered a carcinogen.

Not VOC = Not considered a volatile organic compound (VOC).

TABLE 10-15
Estimated Non-cancer Hazard Indices from Soil:
Future Residential Scenario
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

Chemical	Future Resident Child					Future Resident Adult				
	Soil Pathway					Soil Pathway				
	Particulate Inhalation	Dermal Contact	Ingestion	Vapor Inhalation	Total Hazard Index	Particulate Inhalation	Dermal Contact	Ingestion	Vapor Inhalation	Total Hazard Index
Polycyclic Aromatic Hydrocarbons										
Acenaphthylene	1.0E-09	2.0E-05	4.6E-05	6.8E-06	7.3E-05	1.0E-09	3.0E-06	4.9E-06	6.8E-06	1.5E-05
Anthracene	2.5E-11	5.1E-07	1.2E-06	4.4E-08	1.7E-06	2.5E-11	7.5E-08	1.3E-07	4.4E-08	2.4E-07
Benzo(a)anthracene	2.7E-08	5.4E-04	1.2E-03	Not VOC	1.8E-03	2.7E-08	7.9E-05	1.3E-04	Not VOC	2.1E-04
Benzo(a)pyrene	4.3E-08	8.6E-04	2.0E-03	Not VOC	2.8E-03	4.3E-08	1.3E-04	2.1E-04	Not VOC	3.4E-04
Benzo(b)fluoranthene	2.6E-08	5.2E-04	1.2E-03	Not VOC	1.7E-03	2.6E-08	7.6E-05	1.3E-04	Not VOC	2.0E-04
Benzo(g,h,i)perylene	5.0E-08	1.0E-03	2.3E-03	Not VOC	3.3E-03	5.0E-08	1.5E-04	2.5E-04	Not VOC	4.0E-04
Benzo(k)fluoranthene	9.0E-09	1.8E-04	4.1E-04	Not VOC	6.0E-04	9.0E-09	2.7E-05	4.4E-05	Not VOC	7.1E-05
Chrysene	3.3E-08	6.6E-04	1.5E-03	Not VOC	2.2E-03	3.3E-08	9.7E-05	1.6E-04	Not VOC	2.6E-04
Fluoranthene	5.0E-08	1.0E-03	2.3E-03	Not VOC	3.3E-03	5.0E-08	1.5E-04	2.5E-04	Not VOC	4.0E-04
Fluorene	7.8E-10	1.6E-05	3.6E-05	1.5E-06	5.3E-05	7.8E-10	2.3E-06	3.8E-06	1.5E-06	7.6E-06
Indeno(1,2,3-cd)pyrene	4.1E-08	8.2E-04	1.9E-03	Not VOC	2.7E-03	4.1E-08	1.2E-04	2.0E-04	Not VOC	3.2E-04
Naphthalene	6.4E-09	5.5E-06	1.3E-05	1.1E-04	1.3E-04	6.4E-09	8.1E-07	1.3E-06	1.1E-04	1.2E-04
Phenanthrene	2.7E-10	5.3E-06	1.2E-05	5.7E-07	1.8E-05	2.7E-10	7.9E-07	1.3E-06	5.7E-07	2.7E-06
Pyrene	9.7E-08	2.0E-03	4.5E-03	2.6E-05	6.5E-03	9.7E-08	2.9E-04	4.8E-04	2.6E-05	8.0E-04
Metals										
Lead	na	na	na	na	na	na	na	na	na	na
Total Hazard Index	3.8E-07	7.6E-03	1.7E-02	1.5E-04	2.5E-02	3.8E-07	1.1E-03	1.9E-03	1.5E-04	3.1E-03

Notes:

na = Not applicable. Potential exposure to lead is evaluated using DTSC's LeadSpread model. Please see text for discussion.

Not VOC = Not considered a volatile organic compound (VOC).

TABLE 10-16
Risk Evaluation for Lead in Soil
LeadSpread Output: Future Residential Scenario
Former Alameda Street Manufactured Gas Plant - Offsite Removal
Los Angeles, California

LEAD RISK ASSESSMENT SPREADSHEET 8
CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

[Click here for ABBREVIATED INSTRUCTIONS FOR LEADSPREAD 8](#)

INPUT	
MEDIUM	LEVEL
Lead in Soil/Dust (ug/g)	80
Respirable Dust (ug/m ³)	1.5

EXPOSURE PARAMETERS		
	units	children
Days per week	days/wk	7
Geometric Standard Deviation		1.6
Blood lead level of concern (ug/dl)		1
Skin area, residential	cm ²	2900
Soil adherence	ug/cm ²	200
Dermal uptake constant	(ug/dl)/(ug/day)	0.0001
Soil ingestion	mg/day	100
Soil ingestion, pica	mg/day	200
Ingestion constant	(ug/dl)/(ug/day)	0.16
Bioavailability	unitless	0.44
Breathing rate	m ³ /day	6.8
Inhalation constant	(ug/dl)/(ug/day)	0.192

[Click here for REFERENCES](#)

OUTPUT						
Percentile Estimate of Blood Pb (ug/dl)						PRG-90
	50th	90th	95th	98th	99th	(ug/g)
BLOOD Pb, CHILD	0.6	1.0	1.2	1.5	1.7	77
BLOOD Pb, PICA CHILD	1.1	2.1	2.4	3.0	3.4	39

PATHWAYS						
CHILDREN	typical			with pica		
	Pathway contribution			Pathway contribution		
	PEF	ug/dl	percent	PEF	ug/dl	percent
Soil Contact	5.8E-5	0.00	1%		0.00	0%
Soil Ingestion	7.0E-3	0.56	99%	1.4E-2	1.13	100%
Inhalation	2.0E-6	0.00	0%		0.00	0%

Figures

- PHASE I EXCAVATION AND STAGING AREA (fenced)
- PHASE II EXCAVATION AND STAGING AREA (fenced)
- ▲ EAST (E) AND WEST (W) PUF SAMPLING LOCATIONS

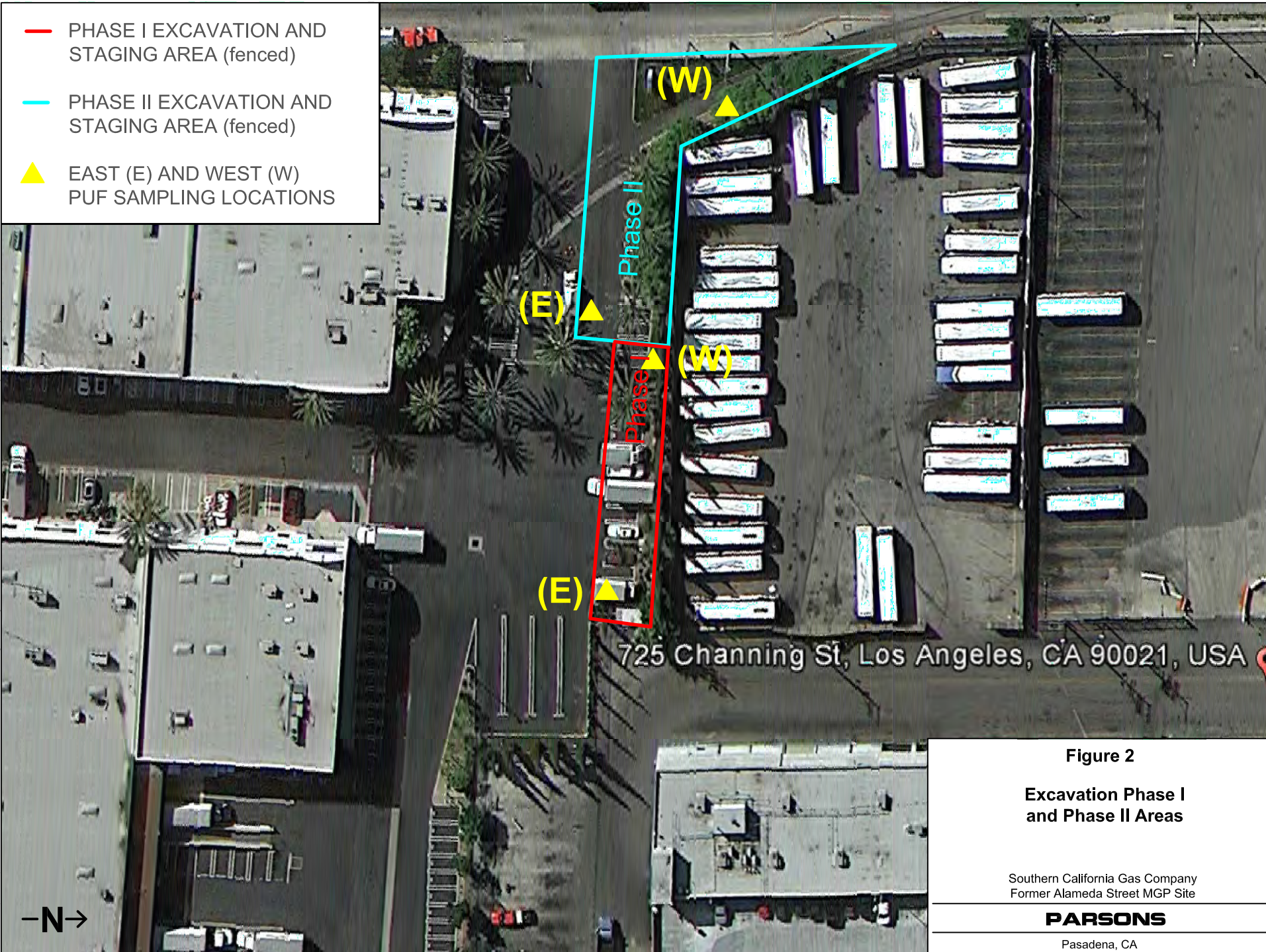


Figure 2

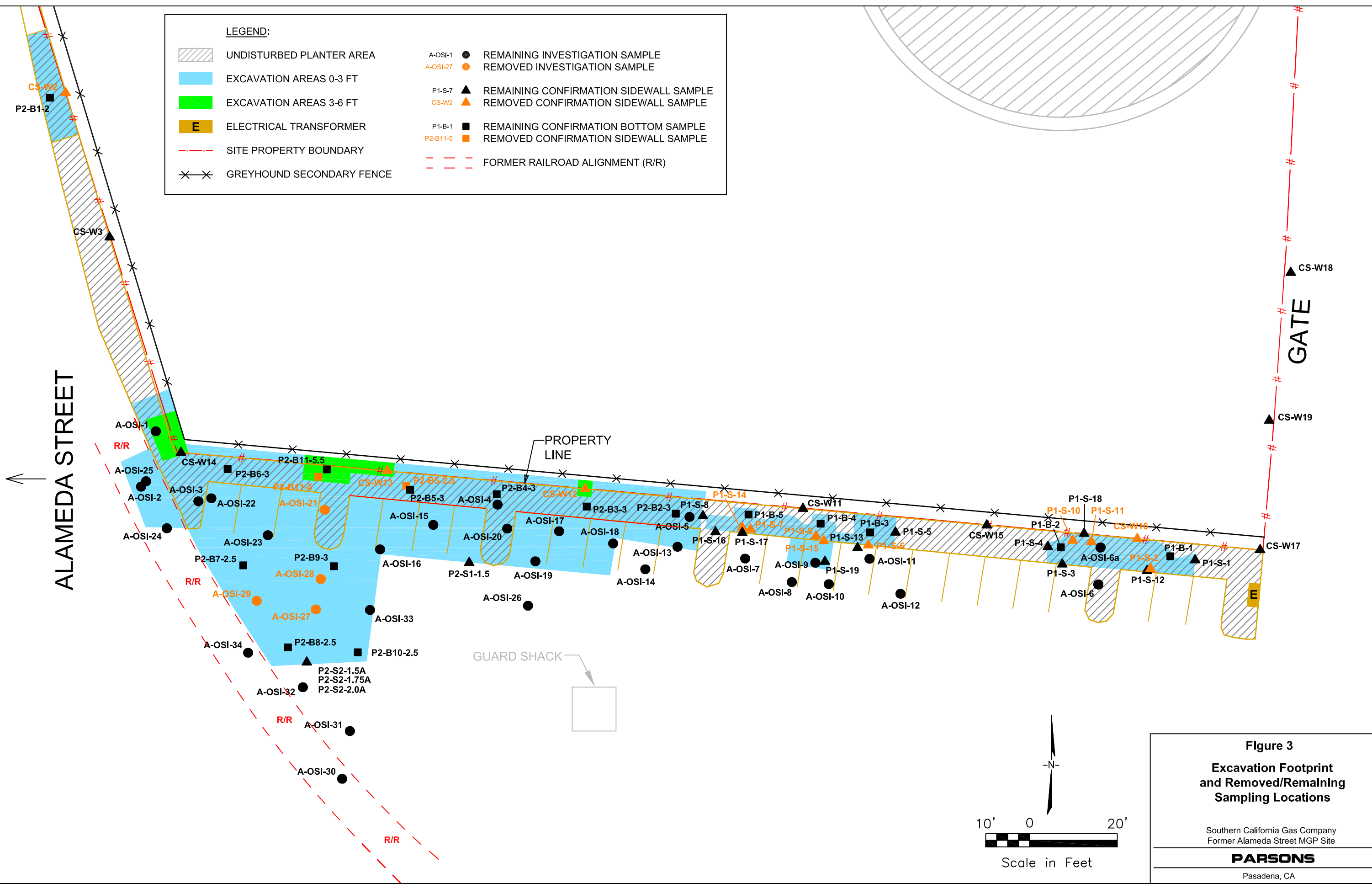
Excavation Phase I
and Phase II Areas

Southern California Gas Company
Former Alameda Street MGP Site

PARSONS

Pasadena, CA

File: K:\Depts\Dept42\SEMPPRA-1\ALAMEDA\Off Site\RACR\Figures\Figure 3 - Excavation Footprint & Removed/Remaining Sampling Locations.dwg Layout: Layout User: 40652 Plotted: Feb 20, 2014 - 12:59pm Xrefs:



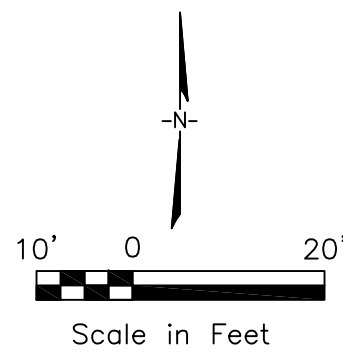
LEGEND:

	UNDISTURBED PLANTER AREA	A-OSI-1 ●	REMAINING INVESTIGATION SAMPLE
	EXCAVATION AREAS 0-3 FT	A-OSI-27 ○	REMOVED INVESTIGATION SAMPLE
	EXCAVATION AREAS 3-6 FT	P1-S-7 ▲	REMAINING CONFIRMATION SIDEWALL SAMPLE
	ELECTRICAL TRANSFORMER	CS-W2 ▲	REMOVED CONFIRMATION SIDEWALL SAMPLE
	SITE PROPERTY BOUNDARY	P1-B-1 ■	REMAINING CONFIRMATION BOTTOM SAMPLE
	GREYHOUND SECONDARY FENCE	P2-B11-5 ■	REMOVED CONFIRMATION SIDEWALL SAMPLE
			FORMER RAILROAD ALIGNMENT (R/R)

ALAMEDA STREET








GATE

Figure 3
Excavation Footprint and Removed/Remaining Sampling Locations
 Southern California Gas Company
 Former Alameda Street MGP Site
PARSONS
 Pasadena, CA



File: K:\Depits\Depit2\SEMPRA-1\ALAMEDA\Off Site\RACR\Draft Final To Kathleen\Figures\Figure 4 - Excavation Footprint & Remaining Sampling Results.dwg User: 40652 Plotted: Apr 17, 2014 - 3:05pm Xref's:

LEGEND:

	UNDISTURBED PLANTER AREA	A-OSI-1 ●	REMAINING INVESTIGATION SAMPLE
	EXCAVATION AREAS 0-3 FT	●	REMOVED INVESTIGATION SAMPLE
	EXCAVATION AREAS 3-6 FT	P1-S-7 ▲	REMAINING CONFIRMATION SIDEWALL SAMPLE
	ELECTRICAL TRANSFORMER	▲	REMOVED CONFIRMATION SIDEWALL SAMPLE
	SITE PROPERTY BOUNDARY	P1-B-1 ■	REMAINING CONFIRMATION BOTTOM SAMPLE
	GREYHOUND SECONDARY FENCE	■	REMOVED CONFIRMATION SIDEWALL SAMPLE
	INACCESSIBLE EXCAVATION AREAS	- - -	FORMER RAILROAD ALIGNMENT (R/R)
		- E - -	Electrical Utility Line (2.5 - 4 feet deep)

- NOTES:**
1. Yellow highlights represent concentrations of B(a)P Equivalent greater than 0.9 mg/kg.
 2. All concentrations in mg/kg
 3. "D" for duplicate samples
 4. "*" Location A-OSI-5 was resampled on 9/16/13 and samples at depths of 5.0, 6.0 and 7.0 feet were replaced.

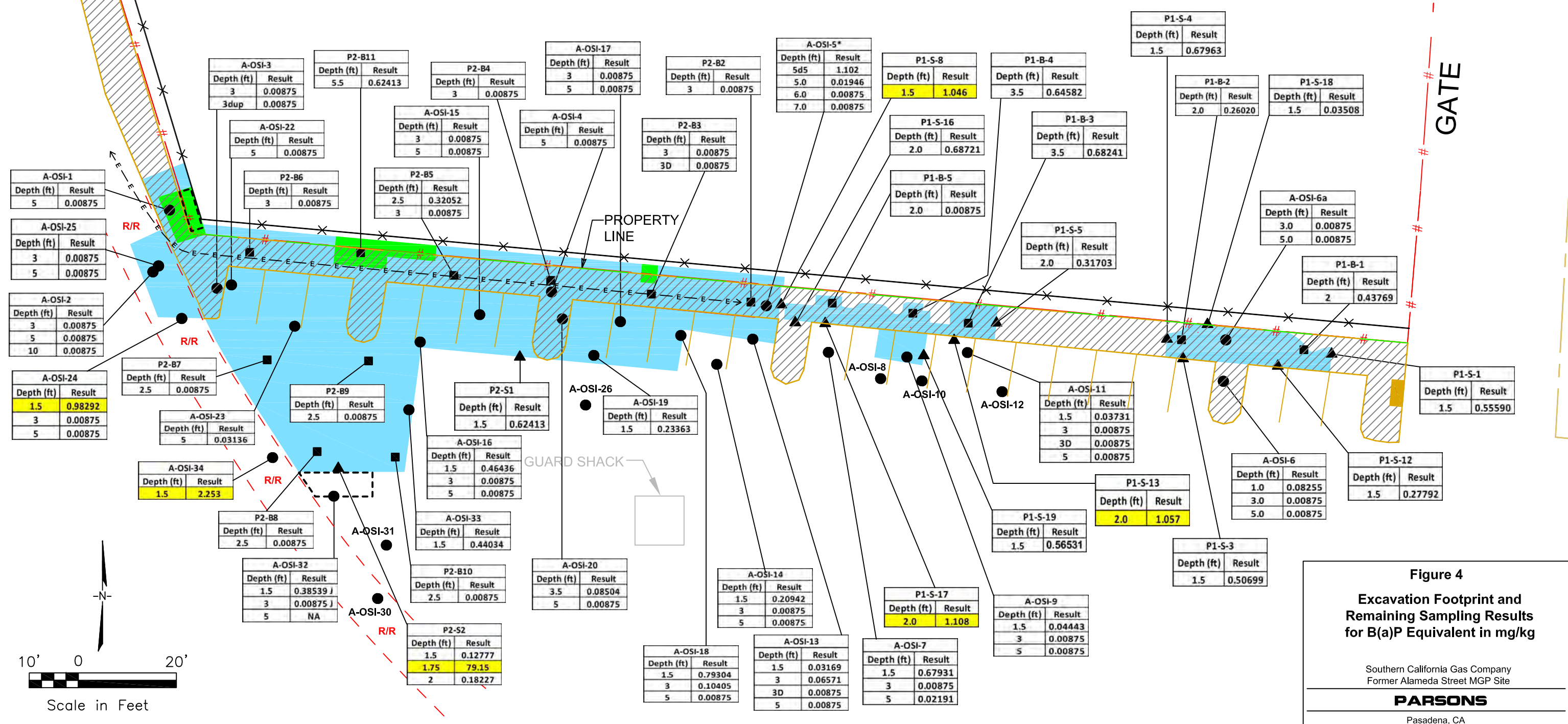


Figure 4
Excavation Footprint and Remaining Sampling Results for B(a)P Equivalent in mg/kg
 Southern California Gas Company
 Former Alameda Street MGP Site
PARSONS
 Pasadena, CA

Attachment A

Waste Disposal Profile and Laboratory Reports



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Southern California Gas Company
555 W. 5th St.-GT17E3
Los Angeles, CA 90013-1011

Number of Pages 27
Date Received 08/27/2013
Date Reported 09/09/2013

Telephone: (213)244-5832
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70438	08/27/2013	SC/G

Project ID: ALAMEDA
Project Name: Alameda MGP
Site: Alameda MGP
725 Channing Street
Los Angeles, CA 90021

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

NO 78478

Page 1 of 1

AETL JOB No. 70438

COMPANY So Cal Gas PROJECT MANAGER KaWeen Chain

COMPANY ADDRESS 555 W 5th St Los Angeles, CA 90013 PHONE _____

PROJECT NAME Alameda MGP PROJECT # _____

SITE NAME Alameda MGP PO # _____

AND ADDRESS 725 Chapman St., Los Angeles, CA

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	70438.01	8/27/13	1030	Soil	5/100ml	-
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS														
<table border="1"> <tr> <td>PMs 8210</td> <td>X</td> </tr> <tr> <td>SOC 8210</td> <td>X</td> </tr> <tr> <td>VOC 8210</td> <td>X</td> </tr> <tr> <td>TKO, d.m. 8015</td> <td>X</td> </tr> <tr> <td>TKO 20/MLTS</td> <td>X</td> </tr> <tr> <td>PCB 8082</td> <td>X</td> </tr> <tr> <td>STC L3A</td> <td>*</td> </tr> </table>	PMs 8210	X	SOC 8210	X	VOC 8210	X	TKO, d.m. 8015	X	TKO 20/MLTS	X	PCB 8082	X	STC L3A	*	<p>* Added 9/1/13 2 DAYS TAT</p> <p>Analyze as composite of all Air Jars</p>
PMs 8210	X														
SOC 8210	X														
VOC 8210	X														
TKO, d.m. 8015	X														
TKO 20/MLTS	X														
PCB 8082	X														
STC L3A	*														

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS 5 PROPERLY COOLED Y/N/NA

CUSTODY SEALS Y/N/NA

RECEIVED IN GOOD COND. Y/N

TURN AROUND TIME

NORMAL RUSH SAME DAY NEXT DAY 2 DAYS 3 DAYS

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:
Signature: <u>[Signature]</u> Printed Name: <u>Yagnina Melwan</u> Date: <u>8/27/13</u> Time: <u>1500</u>	Signature: <u>[Signature]</u> Printed Name: <u>[Signature]</u> Date: <u>8-27-13</u> Time: <u>1515</u>
Signature: <u>[Signature]</u> Printed Name: <u>[Signature]</u> Date: <u>8/27/13</u> Time: <u>1500</u>	Signature: <u>[Signature]</u> Printed Name: <u>[Signature]</u> Date: <u>08/29/13</u> Time: <u>1515</u>

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

JIM LIN

From: Craig, Shala [Shala.Craig@parsons.com]
Sent: Monday, September 09, 2013 4:06 PM
To: Kathleen Cheyne; Christine Novshadayan; Jim Lin
Cc: Mascioni, Fabrizio; Bettahar, Mehdi
Subject: RE: One soil sample (AETL Job No.:70438) from "Alameda MGP Site" located on 725 Channing Street, Los Angeles, CA 90021.

Jim or Christine: Please proceed with analyzing sample No. 70438 for STLC for lead –ONLY analyses turnaround time should be rush

Additionally, we need a sample pickup from Alameda at 9:00 am tomorrow.
Shala

From: Mascioni, Fabrizio
Sent: Monday, September 09, 2013 3:20 PM
To: Craig, Shala; Bettahar, Mehdi
Subject: Fw: One soil sample (AETL Job No.:70438) from "Alameda MGP Site" located on 725 Channing Street, Los Angeles, CA 90021.

From: Cyrus Razmara [<mailto:cyrus@aetlab.com>]
Sent: Monday, September 09, 2013 05:08 PM
To: Kathleen Cheyne <KCheyne@SempraUtilities.com>; Craig, Shala
Cc: Mascioni, Fabrizio; Mercedes Diaz <MDiaz@SempraUtilities.com>
Subject: One soil sample (AETL Job No.:70438) from "Alameda MGP Site" located on 725 Channing Street, Los Angeles, CA 90021.

Dear Kathleen, Shala, Fabrizio, and Mercedes:

Herewith please find Results of analysis (In Summary Table, and PDF formats) of one soil sample from "Alameda MGP Site" located on 725 Channing Street, Los Angeles, CA 90021.

AETL Job No: 70438.

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
Laboratory Director
American Environmental Testing Laboratory



American Environmental Testing Laboratory Inc.

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Page: 1 A

Ordered By

Southern California Gas Company
555 W. 5th St.-GT17E3
Los Angeles, CA 90013-1011

Project ID: ALAMEDA
Date Received 08/27/2013
Date Reported 09/09/2013

Telephone: (213)244-5832
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70438	08/27/2013	SC/G

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 08/27/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70438.01	Comp-1	08/27/2013	Soil	5
Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B-STLC) ^ STLC-PB	08/29/2013	3	Rush	mg/L
(6010B/7000CAM)	09/03/2013	2	Normal	mg/Kg
(8082)	09/03/2013	2	Normal	ug/Kg
(8260B)	09/03/2013	2	Normal	ug/Kg
(8270C)	09/03/2013	2	Normal	mg/Kg
(8310)	09/03/2013	2	Normal	mg/Kg
(M8015D) ^ C13-C40	09/03/2013	2	Normal	mg/Kg
(M8015G)	09/03/2013	2	Normal	mg/Kg
COMPST	09/03/2013	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



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ANALYTICAL RESULTS

Ordered By

Southern California Gas Company
 555 W. 5th St.-GT17E3
 Los Angeles, CA 90013-1011

Site

Alameda MGP
 725 Channing Street
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0828132A1

Our Lab I.D.			Method Blank	70438.01		
Client Sample I.D.				Comp-1		
Date Sampled				08/27/2013		
Date Prepared			08/28/2013	08/28/2013		
Preparation Method			5030	5030		
Date Analyzed			08/28/2013	08/28/2013		
Matrix			Soil	Soil		
Units			ug/Kg	ug/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Acetone	25	50	ND	ND		
Benzene	1.0	10.0	ND	ND		
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND		
Bromochloromethane	5.0	10.0	ND	ND		
Bromodichloromethane	5.0	10.0	ND	ND		
Bromoform (Tribromomethane)	25	50	ND	ND		
Bromomethane (Methyl bromide)	15	30	ND	ND		
2-Butanone (MEK)	25	50	ND	ND		
n-Butylbenzene	5.0	10.0	ND	ND		
sec-Butylbenzene	5.0	10.0	ND	ND		
tert-Butylbenzene	5.0	10.0	ND	ND		
Carbon Disulfide	25	50	ND	ND		
Carbon tetrachloride	5.0	10.0	ND	ND		
Chlorobenzene	5.0	10.0	ND	ND		
Chloroethane	15	30	ND	ND		
2-Chloroethyl vinyl ether	50	50	ND	ND		
Chloroform (Trichloromethane)	5.0	10.0	ND	ND		
Chloromethane (Methyl chloride)	15	30	ND	ND		
2-Chlorotoluene	5.0	10.0	ND	ND		
4-Chlorotoluene	5.0	10.0	ND	ND		
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND		
Dibromochloromethane	5.0	10.0	ND	ND		
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND		
Dibromomethane	5.0	10.0	ND	ND		
1,2-Dichlorobenzene	5.0	10.0	ND	ND		
1,3-Dichlorobenzene	5.0	10.0	ND	ND		
1,4-Dichlorobenzene	5.0	10.0	ND	ND		
Dichlorodifluoromethane	15	30	ND	ND		



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ANALYTICAL RESULTS

Page: 3

Project ID: ALAMEDA
Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0828132A1

Our Lab I.D.			Method Blank	70438.01			
Client Sample I.D.				Comp-1			
Date Sampled				08/27/2013			
Date Prepared			08/28/2013	08/28/2013			
Preparation Method			5030	5030			
Date Analyzed			08/28/2013	08/28/2013			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
1,1-Dichloroethane	5.0	10.0	ND	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND			
1,1-Dichloroethene	5.0	10.0	ND	ND			
cis-1,2-Dichloroethene	5.0	10.0	ND	ND			
trans-1,2-Dichloroethene	5.0	10.0	ND	ND			
1,2-Dichloropropane	5.0	10.0	ND	ND			
1,3-Dichloropropane	5.0	10.0	ND	ND			
2,2-Dichloropropane	5.0	10.0	ND	ND			
1,1-Dichloropropene	5.0	10.0	ND	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND	ND			
Ethylbenzene	1.0	10.0	ND	ND			
Hexachlorobutadiene	15	30	ND	ND			
2-Hexanone	25	50	ND	ND			
Iodomethane	5.0	10.0	ND	ND			
Isopropylbenzene	5.0	10.0	ND	ND			
p-Isopropyltoluene	5.0	10.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND			
Methylene chloride (DCM)	25	50	ND	ND			
Naphthalene	5.0	10.0	ND	ND			
n-Propylbenzene	5.0	10.0	ND	ND			
Styrene	5.0	10.0	ND	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND			
Tetrachloroethene	5.0	10.0	ND	ND			
Toluene (Methyl benzene)	1.0	10.0	ND	ND			
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND			
1,1,1-Trichloroethane	5.0	10.0	ND	ND			
1,1,2-Trichloroethane	5.0	10.0	ND	ND			
Trichloroethene	5.0	10.0	ND	ND			
Trichlorofluoromethane	5.0	10.0	ND	ND			
1,2,3-Trichloropropane	5.0	10.0	ND	ND			



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ANALYTICAL RESULTS

Page: 4

Project ID: ALAMEDA
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0828132A1

Our Lab I.D.			Method Blank	70438.01			
Client Sample I.D.				Comp-1			
Date Sampled				08/27/2013			
Date Prepared			08/28/2013	08/28/2013			
Preparation Method			5030	5030			
Date Analyzed			08/28/2013	08/28/2013			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND			
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND			
Vinyl Acetate	25	50	ND	ND			
Vinyl chloride (Chloroethene)	15	30	ND	ND			
o-Xylene	1.0	10.0	ND	ND			
m,p-Xylenes	1.0	20.0	ND	ND			
Our Lab I.D.			Method Blank	70438.01			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Bromofluorobenzene	75-125		104	109			
Dibromofluoromethane	75-125		108	109			
Toluene-d8	75-125		103	103			



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ANALYTICAL RESULTS

Ordered By

Southern California Gas Company
 555 W. 5th St.-GT17E3
 Los Angeles, CA 90013-1011

Site

Alameda MGP
 725 Channing Street
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082813NB1

Our Lab I.D.			Method Blank	70438.01			
Client Sample I.D.				Comp-1			
Date Sampled				08/27/2013			
Date Prepared			08/28/2013	08/28/2013			
Preparation Method			5030	5030			
Date Analyzed			08/28/2013	08/28/2013			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND			
Our Lab I.D.			Method Blank	70438.01			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Bromofluorobenzene	75-125		110	111			



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ANALYTICAL RESULTS

Ordered By

Southern California Gas Company
 555 W. 5th St.-GT17E3
 Los Angeles, CA 90013-1011

Site

Alameda MGP
 725 Channing Street
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 6

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082913DB2

Our Lab I.D.			Method Blank	70438.01		
Client Sample I.D.				Comp-1		
Date Sampled				08/27/2013		
Date Prepared			08/29/2013	08/29/2013		
Preparation Method			3550B	3550B		
Date Analyzed			08/29/2013	08/29/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
TPH as Diesel (C13-C22)	1.0	5.0	ND	101		
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	965		
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	1,070		
Our Lab I.D.			Method Blank	70438.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
Chlorobenzene	75-125		97.0	99.0		



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ANALYTICAL RESULTS

Ordered By

Southern California Gas Company
 555 W. 5th St.-GT17E3
 Los Angeles, CA 90013-1011

Site

Alameda MGP
 725 Channing Street
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 7

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 082913

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			08/29/2013			
Preparation Method			3550B			
Date Analyzed			08/29/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.010	0.020	ND			
Benzo(a)pyrene	0.010	0.020	ND			
Benzo(b)fluoranthene	0.010	0.020	ND			
Benzo(k)fluoranthene	0.010	0.020	ND			
Chrysene	0.010	0.020	ND			
Dibenzo(a,h)anthracene	0.010	0.020	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND			
Acenaphthene	0.010	0.020	ND			
Acenaphthylene	0.010	0.020	ND			
Anthracene	0.010	0.020	ND			
Benzo(g,h,i)perylene	0.010	0.020	ND			
Fluoranthene	0.010	0.020	ND			
Fluorene	0.010	0.020	ND			
Naphthalene	0.010	0.020	ND			
Phenanthrene	0.010	0.020	ND			
Pyrene	0.010	0.020	ND			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		99.0			



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ANALYTICAL RESULTS

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 Los Angeles, CA 90013-1011

Site

Alameda MGP
 725 Channing Street
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 8

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 082913

Our Lab I.D.	70438.01		
Client Sample I.D.	Comp-1		
Date Sampled	08/27/2013		
Date Prepared	08/29/2013		
Preparation Method	3550B		
Date Analyzed	08/29/2013		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	5		
Analytes	MDL	PQL	Results
Benzo(a)anthracene	0.050	0.100	0.254
Benzo(a)pyrene	0.050	0.100	0.989
Benzo(b)fluoranthene	0.050	0.100	0.647
Benzo(k)fluoranthene	0.050	0.100	0.337
Chrysene	0.050	0.100	0.902
Dibenzo(a,h)anthracene	0.050	0.100	ND
Indeno(1,2,3-cd)pyrene	0.050	0.100	0.897
Acenaphthene	0.050	0.100	ND
Acenaphthylene	0.050	0.100	ND
Anthracene	0.050	0.100	ND
Benzo(g,h,i)perylene	0.050	0.100	1.12
Fluoranthene	0.050	0.100	1.40
Fluorene	0.050	0.100	ND
Naphthalene	0.050	0.100	0.143
Phenanthrene	0.050	0.100	0.748
Pyrene	0.050	0.100	2.09
Our Lab I.D.	70438.01		
Surrogates	%Rec.Limit	% Rec.	
p-Terphenyl-D14	75-125	75.0	



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Southern California Gas Company
 555 W. 5th St.-GT17E3
 Los Angeles, CA 90013-1011

Site

Alameda MGP
 725 Channing Street
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082913JB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			08/29/2013			
Preparation Method			3550B			
Date Analyzed			08/29/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.25	0.50	ND			
Acenaphthylene	0.25	0.50	ND			
Anthracene	0.25	0.50	ND			
Azobenzene	0.25	0.50	ND			
Benzidine	0.25	0.50	ND			
Benzo(a)anthracene	0.25	0.50	ND			
Benzo(a)pyrene	0.25	0.50	ND			
Benzo(b)fluoranthene	0.25	0.50	ND			
Benzo(g,h,i)perylene	0.25	0.50	ND			
Benzo(k)fluoranthene	0.25	0.50	ND			
Benzoic Acid	0.25	0.50	ND			
Benzyl Alcohol	0.25	0.50	ND			
Bis(2-Chloroethoxy)methane	0.25	0.50	ND			
Bis(2-Chloroethyl)ether	0.25	0.50	ND			
Bis(2-chloroisopropyl) ether	0.25	0.50	ND			
Bis(2-ethylhexyl) phthalate	0.25	0.50	ND			
4-Bromophenyl phenyl ether	0.25	0.50	ND			
Butyl benzyl phthalate	0.25	0.50	ND			
4-Chloro-3-methylphenol	0.25	0.50	ND			
4-Chloroaniline	0.25	0.50	ND			
2-Chloronaphthalene	0.25	0.50	ND			
2-Chlorophenol	0.25	0.50	ND			
4-Chlorophenyl phenyl ether	0.25	0.50	ND			
Chrysene	0.25	0.50	ND			
Di-n-butyl phthalate	0.25	0.50	ND			
Di-n-octyl phthalate (Diocetyl ester)	0.25	0.50	ND			
Dibenzo(a,h)anthracene	0.25	0.50	ND			
Dibenzofuran	0.25	0.50	ND			



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Project ID: ALAMEDA
Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082913JB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			08/29/2013			
Preparation Method			3550B			
Date Analyzed			08/29/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
1,2-Dichlorobenzene	0.25	0.50	ND			
1,3-Dichlorobenzene	0.25	0.50	ND			
1,4-Dichlorobenzene	0.25	0.50	ND			
3,3'-Dichlorobenzidine	0.25	0.50	ND			
2,4-Dichlorophenol	0.25	0.50	ND			
Diethyl phthalate (Diethyl ester)	0.25	0.50	ND			
Dimethyl phthalate (Dimethyl ester)	0.25	0.50	ND			
2,4-Dimethylphenol	0.25	0.50	ND			
4,6-Dinitro-2-methylphenol	0.25	0.50	ND			
2,4-Dinitrophenol	0.25	0.50	ND			
2,4-Dinitrotoluene	0.25	0.50	ND			
2,6-Dinitrotoluene (2,6-DNT)	0.25	0.50	ND			
Fluoranthene	0.25	0.50	ND			
Fluorene	0.25	0.50	ND			
Hexachlorobenzene	0.25	0.50	ND			
Hexachlorobutadiene	0.25	0.50	ND			
Hexachlorocyclopentadiene	0.25	0.50	ND			
Hexachloroethane	0.25	0.50	ND			
Indeno(1,2,3-cd)pyrene	0.25	0.50	ND			
Isophorone	0.25	0.50	ND			
2-Methylnaphthalene	0.25	0.50	ND			
4-Methylphenol	0.25	0.50	ND			
2-Methylphenol (2-Cresol)	0.25	0.50	ND			
3-Methylphenol (3-Cresol)	0.25	0.50	ND			
N-Nitroso-Di-n-propylamine	0.25	0.50	ND			
Naphthalene	0.25	0.50	ND			
2-Nitroaniline	0.25	0.50	ND			
3-Nitroaniline	0.25	0.50	ND			
4-Nitroaniline	0.25	0.50	ND			
Nitrobenzene (NB)	0.25	0.50	ND			
4-Nitrophenol	0.25	0.50	ND			
2-Nitrophenol (o-Nitrophenol)	0.25	0.50	ND			
N-nitrosodiphenylamine	0.25	0.50	ND			
Pentachlorophenol	0.25	0.50	ND			



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ANALYTICAL RESULTS

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Project ID: ALAMEDA
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082913JB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/29/2013				
Preparation Method			3550B				
Date Analyzed			08/29/2013				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	MDL	PQL	Results				
Phenanthrene	0.25	0.50	ND				
Phenol	0.25	0.50	ND				
Pyrene	0.25	0.50	ND				
1,2,4-Trichlorobenzene	0.25	0.50	ND				
2,4,5-Trichlorophenol	0.25	0.50	ND				
2,4,6-Trichlorophenol	0.25	0.50	ND				
Our Lab I.D.			Method Blank				
Surrogates	%Rec.Limit		% Rec.				
2-Fluorophenol	25-121		56.8				
2-Fluorobiphenyl	30-115		85.2				
Nitrobenzene-d5	23-120		64.0				
Phenol-d6	21-113		55.4				
p-Terphenyl-D14	18-137		112				
2,4,6-Tribromophenol	19-122		78.8				



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Attn: Kathleen Cheyne

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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082913JB1

Our Lab I.D.	70438.01		
Client Sample I.D.	Comp-1		
Date Sampled	08/27/2013		
Date Prepared	08/29/2013		
Preparation Method	3550B		
Date Analyzed	08/29/2013		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	4		
Analytes	MDL	PQL	Results
Acenaphthene	1.00	2.00	ND
Acenaphthylene	1.00	2.00	ND
Anthracene	1.00	2.00	ND
Azobenzene	1.00	2.00	ND
Benzidine	1.00	2.00	ND
Benzo(a)anthracene	1.00	2.00	ND
Benzo(a)pyrene	1.00	2.00	1.08J
Benzo(b)fluoranthene	1.00	2.00	ND
Benzo(g,h,i)perylene	1.00	2.00	1.28J
Benzo(k)fluoranthene	1.00	2.00	ND
Benzoic Acid	1.00	2.00	ND
Benzyl Alcohol	1.00	2.00	ND
Bis(2-Chloroethoxy)methane	1.00	2.00	ND
Bis(2-Chloroethyl)ether	1.00	2.00	ND
Bis(2-chloroisopropyl) ether	1.00	2.00	ND
Bis(2-ethylhexyl) phthalate	1.00	2.00	ND
4-Bromophenyl phenyl ether	1.00	2.00	ND
Butyl benzyl phthalate	1.00	2.00	ND
4-Chloro-3-methylphenol	1.00	2.00	ND
4-Chloroaniline	1.00	2.00	ND
2-Chloronaphthalene	1.00	2.00	ND
2-Chlorophenol	1.00	2.00	ND
4-Chlorophenyl phenyl ether	1.00	2.00	ND
Chrysene	1.00	2.00	1.19J
Di-n-butyl phthalate	1.00	2.00	ND
Di-n-octyl phthalate (Dioctyl ester)	1.00	2.00	ND
Dibenzo(a,h)anthracene	1.00	2.00	ND
Dibenzofuran	1.00	2.00	ND



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ANALYTICAL RESULTS

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Project ID: ALAMEDA
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082913JB1

Our Lab I.D.	70438.01		
Client Sample I.D.	Comp-1		
Date Sampled	08/27/2013		
Date Prepared	08/29/2013		
Preparation Method	3550B		
Date Analyzed	08/29/2013		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	4		
Analytes	MDL	PQL	Results
1,2-Dichlorobenzene	1.00	2.00	ND
1,3-Dichlorobenzene	1.00	2.00	ND
1,4-Dichlorobenzene	1.00	2.00	ND
3,3'-Dichlorobenzidine	1.00	2.00	ND
2,4-Dichlorophenol	1.00	2.00	ND
Diethyl phthalate (Diethyl ester)	1.00	2.00	ND
Dimethyl phthalate (Dimethyl ester)	1.00	2.00	ND
2,4-Dimethylphenol	1.00	2.00	ND
4,6-Dinitro-2-methylphenol	1.00	2.00	ND
2,4-Dinitrophenol	1.00	2.00	ND
2,4-Dinitrotoluene	1.00	2.00	ND
2,6-Dinitrotoluene (2,6-DNT)	1.00	2.00	ND
Fluoranthene	1.00	2.00	1.61J
Fluorene	1.00	2.00	ND
Hexachlorobenzene	1.00	2.00	ND
Hexachlorobutadiene	1.00	2.00	ND
Hexachlorocyclopentadiene	1.00	2.00	ND
Hexachloroethane	1.00	2.00	ND
Indeno(1,2,3-cd)pyrene	1.00	2.00	1.03J
Isophorone	1.00	2.00	ND
2-Methylnaphthalene	1.00	2.00	ND
4-Methylphenol	1.00	2.00	ND
2-Methylphenol (2-Cresol)	1.00	2.00	ND
3-Methylphenol (3-Cresol)	1.00	2.00	ND
N-Nitroso-Di-n-propylamine	1.00	2.00	ND
Naphthalene	1.00	2.00	ND
2-Nitroaniline	1.00	2.00	ND
3-Nitroaniline	1.00	2.00	ND
4-Nitroaniline	1.00	2.00	ND
Nitrobenzene (NB)	1.00	2.00	ND
4-Nitrophenol	1.00	2.00	ND
2-Nitrophenol (o-Nitrophenol)	1.00	2.00	ND
N-nitrosodiphenylamine	1.00	2.00	ND
Pentachlorophenol	1.00	2.00	ND



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ANALYTICAL RESULTS

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Project ID: ALAMEDA
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082913JB1

Our Lab I.D.			70438.01				
Client Sample I.D.			Comp-1				
Date Sampled			08/27/2013				
Date Prepared			08/29/2013				
Preparation Method			3550B				
Date Analyzed			08/29/2013				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			4				
Analytes	MDL	PQL	Results				
Phenanthrene	1.00	2.00	ND				
Phenol	1.00	2.00	ND				
Pyrene	1.00	2.00	2.84				
1,2,4-Trichlorobenzene	1.00	2.00	ND				
2,4,5-Trichlorophenol	1.00	2.00	ND				
2,4,6-Trichlorophenol	1.00	2.00	ND				
Our Lab I.D.			70438.01				
Surrogates	%Rec.Limit		% Rec.				
2-Fluorophenol	25-121		41.8				
2-Fluorobiphenyl	30-115		74.4				
Nitrobenzene-d5	23-120		52.4				
Phenol-d6	21-113		37.4				
p-Terphenyl-D14	18-137		98.4				
2,4,6-Tribromophenol	19-122		61.0				



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Site

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Attn: Kathleen Cheyne

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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 090613LB1

Our Lab I.D.			Method Blank	70438.01		
Client Sample I.D.				Comp-1		
Date Sampled				08/27/2013		
Date Prepared			09/06/2013	09/06/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/06/2013	09/06/2013		
Matrix			Soil	Soil		
Units			ug/Kg	ug/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND		
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND		
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND		
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND		
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND		
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND		
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	76.7		
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND		
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND		
Our Lab I.D.			Method Blank	70438.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
Decachlorobiphenyl	30-150		121	106		
Tetrachloro-m-xylene	30-150		133	125		



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Attn: Kathleen Cheyne

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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 0828132C2

Our Lab I.D.			Method Blank	70438.01		
Client Sample I.D.				Comp-1		
Date Sampled				08/27/2013		
Date Prepared			08/28/2013	08/28/2013		
Preparation Method			3050B	3050B		
Date Analyzed			08/29/2013	08/29/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Antimony	1.0	5.0	ND	ND		
Arsenic	1.0	5.0	ND	ND		
Barium	2.5	5.0	ND	140		
Beryllium	1.3	2.5	ND	ND		
Cadmium	1.3	2.5	ND	ND		
Chromium	2.5	5.0	ND	11.1		
Cobalt	2.5	5.0	ND	5.59		
Copper	2.5	5.0	ND	31.3		
Lead	2.5	5.0	ND	108		
Mercury (By EPA 7471)	0.1	0.2	ND	1.27		
Molybdenum	2.5	5.0	ND	ND		
Nickel	2.5	5.0	ND	8.24		
Selenium	1.0	5.0	ND	ND		
Silver	2.5	5.0	ND	ND		
Thallium	1.0	5.0	ND	ND		
Vanadium	2.5	5.0	ND	25.9		
Zinc	2.5	5.0	ND	188		



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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0909132C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/09/2013				
Preparation Method			TITLE 22				
Date Analyzed			09/11/2013				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	MDL	PQL	Results				
Lead (STLC)	0.05	0.10	ND				



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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0909132C2

Our Lab I.D.			70438.01				
Client Sample I.D.			Comp-1				
Date Sampled			08/27/2013				
Date Prepared			09/09/2013				
Preparation Method			TITLE 22				
Date Analyzed			09/11/2013				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	MDL	PQL	Results				
Lead (STLC)	0.50	1.00	ND				

Comment(s):

70438.01: Analyzed under dilution due to matrix interference



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QUALITY CONTROL RESULTS

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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0909132C2; Dup or Spiked Sample: 70438.01; LCS: Clean Sand; LCS Prepared: 09/09/2013; LCS Analyzed: 09/11/2013;
Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
Lead (STLC)	ND	ND	<1	<20	1.00	1.13	113	80-120		



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QUALITY CONTROL RESULTS

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Attn: Kathleen Cheyne

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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 0828132C2; Dup or Spiked Sample: 70435.01; LCS: Clean Sand; LCS Prepared: 08/28/2013; LCS Analyzed: 08/29/2013;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Antimony	50.0	46.1	92.2	50.0	47.3	94.6	2.57	75-125	<15
Arsenic	50.0	47.3	94.6	50.0	48.5	97.0	2.51	75-125	<15
Barium	50.0	45.6	91.2	50.0	46.2	92.4	1.31	75-125	<15
Beryllium	50.0	50.1	100	50.0	50.8	102	1.98	75-125	<15
Cadmium	50.0	46.4	92.8	50.0	47.4	94.8	2.13	75-125	<15
Chromium	50.0	45.7	91.4	50.0	46.6	93.2	1.95	75-125	<15
Cobalt	50.0	44.3	88.6	50.0	45.9	91.8	3.55	75-125	<15
Copper	50.0	44.9	89.8	50.0	45.2	90.4	<1	75-125	<15
Lead	50.0	42.3	84.6	50.0	44.1	88.2	4.17	75-125	<15
Mercury (By EPA 7471)	0.500	0.575	115	0.500	0.575	115	<1	75-125	<15
Molybdenum	50.0	47.2	94.4	50.0	48.7	97.4	3.13	75-125	<15
Nickel	50.0	43.8	87.6	50.0	44.7	89.4	2.03	75-125	<15
Selenium	50.0	45.9	91.8	50.0	48.2	96.4	4.89	75-125	<15
Silver	50.0	46.4	92.8	50.0	47.8	95.6	2.97	75-125	<15
Thallium	50.0	40.8	81.6	50.0	42.0	84.0	2.90	75-125	<15
Vanadium	50.0	47.9	95.8	50.0	48.7	97.4	1.66	75-125	<15
Zinc	50.0	47.2	94.4	50.0	48.0	96.0	1.68	75-125	<15



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Site

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 725 Channing Street
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Telephone: (213)244-5832

Attn: Kathleen Cheyne

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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 090613LB1; Dup or Spiked Sample: 70483.01; LCS: Clean Sand; QC Prepared: 09/06/2013; QC Analyzed: 09/06/2013;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	680	136	500	710	142	4.3	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	630	126	500	690	138	9.1	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	66.0	132	50.0	66.5	133	<1	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	70.5	141	50.0	75.0	150	6.2	30-150	<20

QC Batch No: 090613LB1; Dup or Spiked Sample: 70483.01; LCS: Clean Sand; QC Prepared: 09/06/2013; QC Analyzed: 09/06/2013;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aroclor-1016 (PCB-1016)	500	630	126	500	715	143	12.6	50-150	<20
Aroclor-1260 (PCB-1260)	500	540	108	500	605	121	11.4	50-150	<20
Surrogates									
Decachlorobiphenyl	50.0	52.5	105	50.0	58.0	116	10.0	30-150	<20
Tetrachloro-m-xylene	50.0	59.0	118	50.0	64.0	128	8.1	30-150	<20



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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0828132A1; Dup or Spiked Sample: 70447.01; LCS: Clean Sand; QC Prepared: 08/28/2013; QC Analyzed: 08/28/2013;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	31.7 #	63.4	50.0	32.8 #	65.6	3.41	75-125	<20
Chlorobenzene	0.00	50.0	21.8 #	43.6	50.0	22.2 #	44.4	1.82	75-125	<20
1,1-Dichloroethene	0.00	50.0	36.6 #	73.2	50.0	38.1	76.2	4.02	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	39.1	78.2	50.0	38.5	77.0	1.55	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	27.3 #	54.6	50.0	28.3 #	56.6	3.60	75-125	<20
Trichloroethene	0.00	50.0	28.9 #	57.8	50.0	30.4 #	60.8	5.06	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	49.5	99.0	50.0	51.5	103	4.04	75-125	<20
Dibromofluoromethane	0.00	50.0	51.5	103	50.0	51.5	103	<1	75-125	<20
Toluene-d8	0.00	50.0	50.5	101	50.0	51.0	102	<1	75-125	<20

QC Batch No: 0828132A1; Dup or Spiked Sample: 70447.01; LCS: Clean Sand; QC Prepared: 08/28/2013; QC Analyzed: 08/28/2013;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzene	50.0	48.4	96.8	50.0	48.8	98.0	1.23	75-125	<20
Chlorobenzene	50.0	45.9	91.8	50.0	46.3	93.0	1.30	75-125	<20
1,1-Dichloroethene	50.0	54.0	108	50.0	55.5	111	2.74	75-125	<20
Methyl-tert-butyl ether (MTBE)	50.0	49.5	99.0	50.0	49.3	99.0	<1	75-125	<20
Toluene (Methyl benzene)	50.0	48.1	96.2	50.0	48.5	97.0	<1	75-125	<20
Trichloroethene	50.0	49.5	99.0	50.0	50.9	102	2.99	75-125	<20
LCS									
Chloroform (Trichloromethane)	50.0	49.4	98.8	50.0	50.1	100	1.21	75-125	<20
Ethylbenzene	50.0	49.7	99.4	50.0	50.1	100	<1	75-125	<20
1,1,1-Trichloroethane	50.0	47.4	94.8	50.0	47.6	95.0	<1	75-125	<20
o-Xylene	50.0	41.7	83.4	50.0	42.5	85.0	1.90	75-125	<20
m,p-Xylenes	100	92.0	92.0	100	92.3	92.3	<1	75-125	<20
Surrogates									
Bromofluorobenzene	50.0	50.5	101	50.0	50.1	100	<1	75-125	<20
Dibromofluoromethane	50.0	49.2	98.5	50.0	49.7	99.4	<1	75-125	<20
Toluene-d8	50.0	50.1	100	50.0	50.4	101	1.00	75-125	<20



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Telephone: (213)244-5832

Attn: Kathleen Cheyne

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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082913JB1; Dup or Spiked Sample: 70401.01; LCS: Clean Sand; QC Prepared: 08/29/2013; QC Analyzed: 08/29/2013;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Acenaphthene	0.00	2.50	1.87	74.8	2.50	2.02	80.8	7.71	46-118	<20
4-Chloro-3-methylphenol	0.00	5.00	3.53	70.6	5.00	3.76	75.2	6.31	39-98	<20
2-Chlorophenol	0.00	5.00	3.04	60.8	5.00	3.25	65.0	6.68	27-123	<20
1,4-Dichlorobenzene	0.00	2.50	1.74	69.6	2.50	1.88	75.2	7.73	36-97	<20
2,4-Dinitrotoluene	0.00	2.50	1.78	71.2	2.50	2.10	84.0	16.5	24-96	<20
N-Nitroso-Di-n-propylamine	0.00	2.50	1.43	57.2	2.50	1.59	63.6	10.6	41-116	<20
4-Nitrophenol	0.00	5.00	2.32	46.4	5.00	2.52	50.4	8.26	10-110	<20
Pentachlorophenol	0.00	5.00	2.48	49.6	5.00	2.65	53.0	6.63	40-125	<20
Phenol	0.00	5.00	2.67	53.4	5.00	2.88	57.6	7.57	12-89	<20
Pyrene	0.00	5.00	2.62	52.4	5.00	2.98	59.6	12.9	26-127	<20
1,2,4-Trichlorobenzene	0.00	2.50	2.06	82.4	2.50	2.22	88.8	7.48	39-98	<20
Surrogates										
2-Fluorophenol	0.00	5.00	2.55	51.0	5.00	2.74	54.8	7.45	25-121	<20
2-Fluorobiphenyl	0.00	2.50	1.91	76.4	2.50	2.14	85.6	12.0	30-115	<20
Nitrobenzene-d5	0.00	2.50	1.44	57.6	2.50	1.61	64.4	11.8	23-120	<20
p-Terphenyl-D14	0.00	2.50	2.69	108	2.50	3.07	123	13.9	18-137	<20
Phenol-d6	0.00	5.00	2.47	49.4	5.00	2.71	54.2	9.72	24-113	<20
2,4,6-Tribromophenol	0.00	5.00	3.61	72.2	5.00	4.15	83.0	15.0	19-122	<20

QC Batch No: 082913JB1; Dup or Spiked Sample: 70401.01; LCS: Clean Sand; QC Prepared: 08/29/2013; QC Analyzed: 08/29/2013;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Acenaphthene	2.50	1.95	78.0	31-137
4-Chloro-3-methylphenol	5.00	3.57	71.4	40-99
2-Chlorophenol	5.00	3.10	62.0	25-102
1,4-Dichlorobenzene	2.50	1.80	72.0	28-104
2,4-Dinitrotoluene	2.50	2.13	85.2	28-89
N-Nitroso-Di-n-propylamine	2.50	1.50	60.0	41-126
4-Nitrophenol	5.00	2.57	51.4	11-114
Pentachlorophenol	5.00	2.37	47.4	17-125
Phenol	5.00	2.72	54.4	26-90



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Project ID: ALAMEDA
Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 082913JB1; Dup or Spiked Sample: 70401.01; LCS: Clean Sand; QC Prepared: 08/29/2013; QC Analyzed: 08/29/2013;
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Pyrene	5.00	2.58	51.6	35-142						
1,2,4-Trichlorobenzene	2.50	2.15	86.0	38-107						
Surrogates										
2-Fluorophenol	5.00	2.68	53.6	25-121						
2-Fluorobiphenyl	2.50	2.06	82.4	30-115						
Nitrobenzene-d5	2.50	1.55	62.0	23-120						
p-Terphenyl-D14	2.50	2.59	104	18-137						
Phenol-d6	5.00	2.55	51.0	24-113						
2,4,6-Tribromophenol	5.00	3.76	75.2	19-122						



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Site

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Telephone: (213)244-5832

Attn: Kathleen Cheyne

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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 082913; Dup or Spiked Sample: 70445.07; LCS: Clean Sand; QC Prepared: 08/29/2013; QC Analyzed: 08/29/2013;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0442	88.4	0.0500	0.0555	111	22.7	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0415	83.0	0.0500	0.0497	99.4	18.0	75-125	<20
Naphthalene	0.00	0.500	0.414	82.8	0.500	0.484	96.7	15.5	75-125	<20
Surrogates										
p-Terphenyl-D14	0.00	0.400	0.280	70.0	0.400	0.391	97.8	33.1	75-125	<20

QC Batch No: 082913; Dup or Spiked Sample: 70445.07; LCS: Clean Sand; QC Prepared: 08/29/2013; QC Analyzed: 08/29/2013;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Benzo(a)anthracene	0.0500	0.0555	111	75-125
Benzo(a)pyrene	0.0500	0.0505	101	75-125
Naphthalene	0.500	0.510	102	75-125
LCS				
Acenaphthene	0.500	0.535	107	75-125
Acenaphthylene	1.00	0.924	92.4	75-125
Anthracene	0.0500	0.0530	106	75-125
Benzo(b)fluoranthene	0.100	0.103	103	75-125
Benzo(g,h,i)perylene	0.100	0.110	110	75-125
Benzo(k)fluoranthene	0.0500	0.0535	107	75-125
Chrysene	0.0500	0.0560	112	75-125
Dibenzo(a,h)anthracene	0.100	0.110	110	75-125
Fluoranthene	0.100	0.106	106	75-125
Fluorene	0.100	0.0974	97.4	75-125
Indeno(1,2,3-cd)pyrene	0.0500	0.0515	103	75-125
Phenanthrene	0.0500	0.0530	106	75-125
Pyrene	0.0500	0.0535	107	75-125
Surrogates				
p-Terphenyl-D14	0.400	0.408	102	75-125



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Telephone: (213)244-5832

Attn: Kathleen Cheyne

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Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082913DB2; Dup or Spiked Sample: 70446.05; LCS: Clean Sand; QC Prepared: 08/29/2013; QC Analyzed: 08/29/2013;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	533	107	500	535	107	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	95.4	95.4	100	95.9	95.9	<1	75-125	<20

QC Batch No: 082913DB2; Dup or Spiked Sample: 70446.05; LCS: Clean Sand; QC Prepared: 08/29/2013; QC Analyzed: 08/29/2013;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
TPH as Diesel (C13-C22)	500	502	100	75-125						
Surrogates										
Chlorobenzene	100	94.5	94.5	75-125						



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Attn: Kathleen Cheyne

Page: 27

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70438	08/27/2013	SC/G

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082813NB1; Dup or Spiked Sample: 70438.01AGA; LCS: Clean Sand; QC Prepared: 08/28/2013; QC Analyzed: 08/28/2013;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.825	82.5	1.00	0.797	79.7	3.45	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0522	104	0.0500	0.0580	116	11.5	75-125	<20

QC Batch No: 082813NB1; Dup or Spiked Sample: 70438.01AGA; LCS: Clean Sand; QC Prepared: 08/28/2013; QC Analyzed: 08/28/2013;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.970	97.0	1.00	0.934	93.4	3.78	75-125	<20
Surrogates									
Bromofluorobenzene	0.0500	0.0527	105	0.0500	0.0549	110	4.76	75-125	<20



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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Number of Pages 3
Date Received 09/10/2013
Date Reported 09/11/2013

Telephone: (213)244-5832
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70581	09/10/2013	SC/G

Project ID: ALAMEDA
Project Name: Alameda MGP
Site: Alameda MGP
718 S Alameda Street
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



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CHAIN OF CUSTODY RECORD

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 COMPANY ADDRESS PHONE PROJECT #
555 W. 5th St. FAX
 PROJECT NAME Fine Manta MGR PO #
 SITE NAME F18 Manta
 AND ADDRESS

AETL JOB No. 70581

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS		
1	COMP-E	70581.01	9/10/13	Soil	6/402	-	X	X					
2	COMP-W	70581.02	0903	Soil	6/402	-	X	X					← 24 Hr TAT ← 48 Hr TAT
3													
4													
5													1) Extract STC on both samples
6													2) Run TAT w/STC if over 50
7													3) Run each sample as a composite of all 6 jars
8													
9													
10													
11													
12													
13													
14													
15													

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS 12 PROPERLY COOLED Y/N/NA
 CUSTODY SEALS Y/N/NA Y SAMPLES INTACT Y/N/NA
 RECEIVED IN GOOD COND. Y/N Y SAMPLES ACCEPTED Y/N

TURN AROUND TIME
 RUSH SAME DAY 2 DAYS
 NORMAL NEXT DAY 3 DAYS

RELINQUISHED BY: 1. Signature: [Signature] Date: 9/10/13 Time: 0928
 2. Signature: [Signature] Date: 9/10/13 Time: 1130

RECEIVED BY: 1. Signature: [Signature] Date: 9/10/13 Time: 0928
 2. Signature: [Signature] Date: 9/10/13 Time: 1130

RELINQUISHED BY: 3. Signature: [Signature] Date: 9/10/13 Time: 1130
 RECEIVED BY: 3. Signature: [Signature] Date: 9/10/13 Time: 1130

PRINTED NAME: [Name] DATE: 9/10/13 TIME: 1130

PRINTED NAME: [Name] DATE: 9/10/13 TIME: 1130

PRINTED NAME: [Name] DATE: 9/10/13 TIME: 1130

PRINTED NAME: [Name] DATE: 9/10/13 TIME: 1130

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

Ordered By

Southern California Gas Company
555 W. 5th St.-GT17E3
Los Angeles, CA 90013-1011

Project ID: ALAMEDA
Date Received 09/10/2013
Date Reported 09/11/2013

Telephone: (213)244-5832
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70581	09/10/2013	SC/G

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 09/10/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers		
70581.01	Comp-E	09/10/2013	Soil	6		
	Method ^ Submethod	Req Date	Priority	TAT	Units	
	(6010B-STLC) ^ STLC-PB	09/11/2013	2	Rush	mg/L	
	(6010B.LEAD)	09/11/2013	2	Rush	mg/Kg	
	COMPST	09/17/2013	2	Normal	--	
70581.02	Comp-W	09/10/2013	Soil	6		
	Method ^ Submethod	Req Date	Priority	TAT	Units	
	(6010B-STLC) ^ STLC-PB	09/11/2013	2	Rush	mg/L	
	(6010B.LEAD)	09/12/2013	3	Rush	mg/Kg	
	COMPST	09/17/2013	2	Normal	--	

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Southern California Gas Company
 555 W. 5th St.-GT17E3
 Los Angeles, CA 90013-1011

Site

Alameda MGP
 718 S Alameda Street
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70581	09/10/2013	SC/G

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0910132C1

Our Lab I.D.		Method Blank	70581.01	70581.02		
Client Sample I.D.			Comp-E	Comp-W		
Date Sampled			09/10/2013	09/10/2013		
Date Prepared		09/10/2013	09/10/2013	09/10/2013		
Preparation Method		3050B	3050B	3050B		
Date Analyzed		09/11/2013	09/11/2013	09/11/2013		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
Lead	2.5	5.0	ND	89.9	117	

QC Batch No: 0910132C1; Dup or Spiked Sample: 70581.01; LCS: Clean Sand; QC Prepared: 09/10/2013; QC Analyzed: 09/11/2013;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	89.9	50.0	208 M	236	50.0	213 M	246	4.15	75-125	<15

QC Batch No: 0910132C1; Dup or Spiked Sample: 70581.01; LCS: Clean Sand; QC Prepared: 09/10/2013; QC Analyzed: 09/11/2013;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Lead	50.0	54.0	108	50.0	53.5	107	<1	75-125	<15



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ANALYTICAL RESULTS

Ordered By

Southern California Gas Company
 555 W. 5th St.-GT17E3
 Los Angeles, CA 90013-1011

Site

Alameda MGP
 718 S Alameda Street
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70581	09/10/2013	SC/G

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0910132C3

Our Lab I.D.		Method Blank	70581.01	70581.02		
Client Sample I.D.			Comp-E	Comp-W		
Date Sampled			09/10/2013	09/10/2013		
Date Prepared		09/10/2013	09/10/2013	09/10/2013		
Preparation Method		TITLE 22	TITLE 22	TITLE 22		
Date Analyzed		09/12/2013	09/12/2013	09/12/2013		
Matrix		Soil	Soil	Soil		
Units		mg/L	mg/L	mg/L		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
Lead (STLC)	0.05	0.10	ND	ND	ND	

QC Batch No: 0910132C3; Dup or Spiked Sample: 70581.01; LCS: Clean Sand; LCS Prepared: 09/10/2013; LCS Analyzed: 09/12/2013;

Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
Lead (STLC)	ND	ND	<1	<20	1.00	0.865	86.5	80-120		



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

Attachment B

Waste Disposal Manifests and Weigh Tickets

Waste Disposal Manifests

Soil Safe of California, Inc.

12328 Hibiscus Ave Adelanto, CA 92301
 (760)246-8001

Job Summary Report

From: 1/1/2013

To: 12/31/2014

Date	Log #	Truck Company	Site Name	Net
A4-1670				
9/13/2013				
9/13/2013	1	BESI	SO CAL GAS - ALAMEDA MGP	16.84
9/13/2013	3	BESI	SO CAL GAS - ALAMEDA MGP	18.17
Total tons for Date = 9/13/2013 (2 trucks)				35.01
9/16/2013				
9/16/2013	4	BESI	SO CAL GAS - ALAMEDA MGP	18.29
Total tons for Date = 9/16/2013 (1 truck)				18.29
9/17/2013				
9/17/2013	2	BESI	SO CAL GAS - ALAMEDA MGP	17.99
Total tons for Date = 9/17/2013 (1 truck)				17.99
9/25/2013				
9/25/2013	5	THOMAS CRANE	SO CAL GAS - ALAMEDA MGP	17.62
Total tons for Date = 9/25/2013 (1 truck)				17.62
9/26/2013				
9/26/2013	6	BESI	SO CAL GAS - ALAMEDA MGP	15.02
Total tons for Date = 9/26/2013 (1 truck)				15.02
11/7/2013				
11/7/2013	7	GTR	SO CAL GAS - ALAMEDA MGP	12.15
Total tons for Date = 11/7/2013 (1 truck)				12.15
11/8/2013				
11/8/2013	8	GTR	SO CAL GAS - ALAMEDA MGP	11.88
11/8/2013	9	D PINON	SO CAL GAS - ALAMEDA MGP	9.00
11/8/2013	10	GTR	SO CAL GAS - ALAMEDA MGP	10.23
Total tons for Date = 11/8/2013 (3 trucks)				31.11
11/11/2013				
11/11/2013	11	GTR	SO CAL GAS - ALAMEDA MGP	9.41
11/11/2013	12	AAROYO	SO CAL GAS - ALAMEDA MGP	9.38
11/11/2013	13	GTR	SO CAL GAS - ALAMEDA MGP	9.52
11/11/2013	14	ARROYO	SO CAL GAS - ALAMEDA MGP	9.00
Total tons for Date = 11/11/2013 (4 trucks)				37.31
11/12/2013				
11/12/2013	15	WTR	SO CAL GAS - ALAMEDA MGP	11.50
11/12/2013	16	ARROYO	SO CAL GAS - ALAMEDA MGP	11.22
11/12/2013	17	GTR	SO CAL GAS - ALAMEDA MGP	11.52
11/12/2013	18	ARROYO	SO CAL GAS - ALAMEDA MGP	11.39
Total tons for Date = 11/12/2013 (4 trucks)				45.63

Date	Log #	Truck Company	Site Name	Net
11/13/2013				
11/13/2013	20	GTR	SO CAL GAS - ALAMEDA MGP	12.04
11/13/2013	21	ARROYO	SO CAL GAS - ALAMEDA MGP	10.50
11/13/2013	22	GTR	SO CAL GAS - ALAMEDA MGP	11.28
11/13/2013	23	ARROYO	SO CAL GAS - ALAMEDA MGP	10.74
Total tons for Date = 11/13/2013 (4 trucks)				44.56
11/14/2013				
11/14/2013	24	GTR	SO CAL GAS - ALAMEDA MGP	10.35
11/14/2013	25	ARROYO & SONS	SO CAL GAS - ALAMEDA MGP	10.30
11/14/2013	26	GTR	SO CAL GAS - ALAMEDA MGP	9.32
11/14/2013	27	ARROYO	SO CAL GAS - ALAMEDA MGP	9.18
Total tons for Date = 11/14/2013 (4 trucks)				39.15
11/18/2013				
11/18/2013	29	GTR	SO CAL GAS - ALAMEDA MGP	11.50
Total tons for Date = 11/18/2013 (1 truck)				11.50
11/19/2013				
11/19/2013	30	BESI	SO CAL GAS - ALAMEDA MGP	19.14
Total tons for Date = 11/19/2013 (1 truck)				19.14
11/21/2013				
11/21/2013	33	GTR	SO CAL GAS - ALAMEDA MGP	10.94
Total tons for Date = 11/21/2013 (1 truck)				10.94
11/22/2013				
11/22/2013	35	GTR	SO CAL GAS - ALAMEDA MGP	12.02
11/22/2013	31	THOMAS CRANE	SO CAL GAS - ALAMEDA MGP	20.24
Total tons for Date = 11/22/2013 (2 trucks)				32.26
11/26/2013				
11/26/2013	34	TOMAS CRANE	SO CAL GAS - ALAMEDA MGP	19.06
11/26/2013	32	THOMAS CRANE	SO CAL GAS - ALAMEDA MGP	20.72
Total tons for Date = 11/26/2013 (2 trucks)				39.78
11/27/2013				
11/27/2013	36	THOMAS CRTANE	SO CAL GAS - ALAMEDA MGP	19.37
Total tons for Date = 11/27/2013 (1 truck)				19.37
12/4/2013				
12/4/2013	37	THOMAS CRANE	SO CAL GAS - ALAMEDA MGP	15.15
Total tons for Date = 12/4/2013 (1 truck)				15.15
12/5/2013				
12/5/2013	28	THOMAS CRANE	SO CAL GAS - ALAMEDA MGP	18.37
Total tons for Date = 12/5/2013 (1 truck)				18.37
12/10/2013				
12/10/2013	38	BESI	SO CAL GAS - ALAMEDA MGP	21.55
Total tons for Date = 12/10/2013 (1 truck)				21.55
12/17/2013				

Date	Log #	Truck Company	Site Name	Net
12/17/2013	43	BESI	SO CAL GAS - ALAMEDA MGP	20.23
Total tons for Date = 12/17/2013 (1 truck)				20.23
12/20/2013				
12/20/2013	44	BESI	SO CAL GAS - ALAMEDA MGP	20.12
Total tons for Date = 12/20/2013 (1 truck)				20.12
12/23/2013				
12/23/2013	42	BESI	SO CAL GAS - ALAMEDA MGP	17.61
Total tons for Date = 12/23/2013 (1 truck)				17.61
12/24/2013				
12/24/2013	41	BESI	SO CAL GAS - ALAMEDA MGP	21.20
Total tons for Date = 12/24/2013 (1 truck)				21.20
1/6/2014				
1/6/2014	39	BESI	SO CAL GAS - ALAMEDA MGP	21.94
Total tons for Date = 1/6/2014 (1 truck)				21.94
1/7/2014				
1/7/2014	40	BESI	SO CAL GAS - ALAMEDA MGP	20.48
Total tons for Date = 1/7/2014 (1 truck)				20.48
Total tons for Approval Number' = A4-1670 (43 trucks)				623.48
Grand Total				623.48

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 9/13/13 Responsible for Payment: _____ Transport Truck #: 3941732 Facility #: A07 Approval Number: 41670 Load #: 110

Generator's Name and Billing Address: SO CAL GAS
P O. BOX 30777
LOS ANGELES, CA 90030

Generator's Phone #: 213-244-3538

Person to Contact: M. DIAZ/AP INVOICE

FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: PARSONS
100 WEST WALNUT STREET
PASADENA, CA 91124

Consultant's Phone #: (828) 440-8181

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021

Site Phone #: _____

Person to Contact: KATHLEEN CHEYNE

FAX#: _____

Designated Facility (Transport to): (name & address)
SOIL SAFE
12329 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 962-8031

Person to Contact: DELLENA JEFFREY

FAX#: (760) 246-8004

Transporter Name and Mailing Address: BELSHIRE
25971 TOWNIE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 226647

Transporter's Phone #: 949-480-8200

Person to Contact: LARRY MOOTHART

FAX#: 949-480-8210

Customer Account Number: CAR000183813
450647

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty.	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	<u>170%</u>	<u>SOIL</u>			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: See notes on file Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month: 09 Day: 13 Year: 13

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Kevin Durbop Signature and date: _____ Month: 09 Day: 13 Year: 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 9/13/13 Responsible for Payment: 374/752 Transport Truck #: A07 Facility #: 41679 Approval Number: 41679 Load #: 1028

Generator's Name and Billing Address: SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030

Generator's Phone #: 213-244-3538

Person to Contact: M. DIAZ/AP INVOICE

FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: PARSONS
100 WEST WALNUT STREET
PASADENA, CA 91124

Consultant's Phone #: (626) 440-8161

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021

Site Phone #: _____

Person to Contact: KATHLEEN CHEYNE

FAX#: _____

Designated Facility (Transport to): (name & address)
SOIL SAFE
12329 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 962-8001

Person to Contact: CELLENA JEFFREY

FAX#: (760) 248-8004

Transporter Name and Mailing Address: BELSHIRE
26971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESE: 228647

Transporter's Phone #: 949-460-5200

Person to Contact: LARRY MOOTHART

FAX#: 949-460-5210

Customer Account Number: CAR000189813
450847

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>	17 y	Soil			
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exceptions to items listed above: 13/12/13 Scale Ticket #: _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month: 09 Day: 13 Year: 13

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Kevin Dwyer Signature and date: _____ Month: 09 Day: 13 Year: 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Please print or type

GENERATOR/CONSULTANTS COPY

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 9.13.13 Responsible for Payment: _____ Transport Truck #: 198/476 Facility #: A07 Approval Number: 41870 Load #: 1903

Generator's Name and Billing Address:
SO CAL GAS
P.O. BOX 39777
LOS ANGELES CA 90030

Generator's Phone #: 213-244-3638
Person to Contact: M. DIAZ/AP INVOICE
FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address:
PARSONS
100 WEST WALNUT STREET
PASADENA, CA 91124

Consultant's Phone #: (626) 440-8181
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021

Site Phone #: _____
Person to Contact: KATHLEEN CHEYNE
FAX#: _____

Designated Facility (Transport to): (name & address)
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 862-8001
Person to Contact: DELLENA JEFFREY
FAX#: (760) 246-9004

Transporter Name and Mailing Address:
BELSHIRE
26871 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 225647

Transporter's Phone #: 949-480-5200
Person to Contact: LARRY MOOTHART
FAX#: 949-480-5210

Customer Account Number: CARD00183813
450847

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>	18.4				
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: Bin # 36 ct Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: on file Generator Consultant Signature and date: _____ Month: _____ Day: _____ Year: _____

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Salazar Signature and date: _____ Month: 09 Day: 13 Year: 13

Recycling Facility

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Please print or type

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 09/16/13 Responsible for Payment: _____ Transport Truck #: 393/733 Facility #: A07 Approval Number: 41670 Load #: 1004

Generator's Name and Billing Address: SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030 Generator's Phone #: 213-244-3538
Person to Contact: M. DIAZ/AP INVOICE
FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: PARSONS
100 WEST WALNUT STREET
PASADENA, CA 91124 Consultant's Phone #: (626) 440-8161
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST
LOS ANGELES, CA 90021 Site Phone #: _____
Person to Contact: KAYLEIGH CHEYNE
FAX#: _____

Designated Facility (Transport to): (name & address) SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301 Facility Phone #: (800) 862-8001
Person to Contact: DELLENA JEFFREY
FAX#: (760) 245-8004

Transporter Name and Mailing Address: BELSHIRE
26971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610 Transporter's Phone #: 949-480-5200 CAR000183013
Person to Contact: LARRY MOOTHART 450647
FAX#: 949-480-5210 Customer Account Number: _____

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	<u>18 y</u>	<u>Soil</u>			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month: 9 Day: 16 Year: 13
Signature on file

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: _____ Signature and date: _____ Month: 9 Day: 16 Year: 13
Lukas Fintel

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:
Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 0924 13	Responsible for Payment:	Transport/Truck #: AT8/476	Facility #: A87	Approval Number: 41870	Load #: 005
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Generator's Name and Billing Address: SO CAL GAS P.O. BOX 30777 LOS ANGELES, CA 90030	Generator's Phone #: 213-244-3638	
	Person to Contact: M. DIAZ/AP INVOICE	
	FAX#:	Customer Account Number

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #: (626) 440-8181	
	Person to Contact:	
	FAX#:	Customer Account Number

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP 732 ALAMEDA ST. LOS ANGELES, CA 90021	Site Phone #:	
	Person to Contact: KATHLEEN CHEYNE	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE 12329 HIBISCUS AVENUE ADELANTO CA 92301	Facility Phone #: (909) 862-9001	
	Person to Contact: DELLENA JEFFREY	
	FAX#: (760) 248-9004	

Transporter Name and Mailing Address: BELSHIRE 28971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 226847	Transporter's Phone #: 949-480-5200	CAR000183013
	Person to Contact: LARRY MOOTHART	450847
	FAX#: 949-480-5210	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	18 y	SOIL			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: **DIRTY GLOVES** Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Y	Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: [Signature]	Month Day Year: 09/24/13
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Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Kristina Dunlop	Signature and date: [Signature]	Month Day Year: 0924 13
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Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL	Signature and date:
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Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
		199/476	407	41870	1606

Generator's Name and Billing Address: SO CAL GAS P O. BOX 30777 LOS ANGELES CA 90030	Generator's Phone #: 213-244-3538	
	Person to Contact: M. DIAZ/AP INVOICE	
	FAX#:	Customer Account Number

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT ST PASADENA, CA 91124	Consultant's Phone #: (826) 440-6181	
	Person to Contact:	
	FAX#:	Customer Account Number

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP 732 ALAMEDA ST. LOS ANGELES, CA 90021	Site Phone #:	
	Person to Contact:	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE 12329 HIBISCUS AVENUE ADELANTO CA 92301	Facility Phone #: (909) 862-8001	
	Person to Contact: DELLENA JEFFREY	
	FAX#: (760) 246-8004	

Transporter Name and Mailing Address: EELSHIRE 25871 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 226847	Transporter's Phone #: 949-460-6200	CAR000183213
	Person to Contact: LARRY MOOTHART	450647
	FAX#: 949-460-6210	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>	180				
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: SM # 34ct Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month: Day: Year:
Signature on file		

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: <u>FRANK SALAZAR</u>	Signature and date:	Month: Day: Year:
		10/9/06/13

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:	
Print or Type Name: <u>D. JEFFREY/J. PROVANSAL</u>	Signature and date:

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11, 7, 13 Responsible for Payment: _____ Transport Truck #: 33 Facility #: A07 Approval Number: 41670 Load #: 2017

Generator's Name and Billing Address: SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030 Generator's Phone #: 213-244-3538
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____ Consultant's Phone #: _____
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021 Site Phone #: _____
Person to Contact: _____
FAX#: _____

Designated Facility (Transport to): (name & address) SOIL SAFE
2328 HIBISCUS AVENUE
ADELANTO, CA 92301 Facility Phone #: (909) 862-8001
Person to Contact: DELLENA JEFFREY
FAX#: (760) 245-8004

Transporter Name and Mailing Address: BELSHIRE
26971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610 Transporter's Phone #: 949-480-8200 CARD000183813
Person to Contact: LARRY MOOTHART 450647
FAX#: _____ Customer Account Number: _____
BESI: 228296

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way. OMAR OARZCO

Print or Type Name: Generator Consultant Signature and date: _____ Month: 11 Day: 7 Year: 13

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: OMAR OARZCO Signature and date: _____ Month: 11 Day: 7 Year: 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/08/13	Responsible for Payment:	Transport Truck #: 33	Facility #: A07	Approval Number: 41670	Load #: 01018
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Generator's Name and Billing Address: SO CAL GAS P.O. BOX 30777 LOS ANGELES, CA 90030	Generator's Phone #: 213-244-3598	
	Person to Contact:	
	FAX#:	Customer Account Number

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX#:	Customer Account Number

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP 752 ALAMEDA ST. LOS ANGELES, CA 90021	Site Phone #:	
	Person to Contact:	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 882-8001	
	Person to Contact: DELLENA JEFFREY	
	FAX#: (760) 248-8004	

Transporter Name and Mailing Address: WELSHIRE 26971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 RES#: 728298	Transporter's Phone #: 949-460-5200	CAR000183913
	Person to Contact: LARRY MOOTHART	450847
	FAX#: 949-460-5210	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/> <i>Signature of Site</i>	Signature and date: _____ 11/08/13
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Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: <i>Quinn Quercia</i>	Signature and date: _____ 11/8/13
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Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL	Signature and date: _____
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Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11, 08, 13 Responsible for Payment: _____ Transport Truck #: 77 Facility #: A07 Approval Number: 41870 Load #: 01019

Generator's Name and Billing Address: SO CAL GAS
W O BOX 30777
LOS ANGELES, CA 90030

Generator's Phone #: 213-244-3538

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____

Consultant's Phone #: _____

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021

Site Phone #: _____

Person to Contact: _____

FAX#: _____

Designated Facility (Transport to): (name & address)
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 862-8001

Person to Contact: DELLENA JEFFREY

FAX#: (760) 246-8004

Transporter Name and Mailing Address:
BELSHIRE
25971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 228298

Transporter's Phone #: 949-460-5200

Person to Contact: LARRY MOOTHART

FAX#: 949-460-5210

Customer Account Number: CAR000163813
450647

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: *I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name: Generator Consultant Signature and date: _____ Month: 11 Day: 08 Year: 13

Transporter's certification: *I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

Print or Type Name: Jose D Pinon Signature and date: _____ Month: 11 Day: 8 Year: 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11 / 08 / 13	Responsible for Payment:	Transport Truck #: 33	Facility #: A07	Approval Number: 41870	Load #: 0110
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Generator's Name and Billing Address: SO CAL GAS P.O. BOX 30777 LOS ANGELES, CA 90030	Generator's Phone #: 213-244-3638	
	Person to Contact:	
	FAX#:	Customer Account Number

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX#:	Customer Account Number

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP 732 ALAMEDA ST. LOS ANGELES, CA 90021	Site Phone #:	
	Person to Contact:	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001	
	Person to Contact: DELLENA JEFFREY	
	FAX#: (760) 246-8004	

Transporter Name and Mailing Address: BELSHIRE 25871 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 228296	Transporter's Phone #: 949-480-5200	CAR000183913
	Person to Contact: LARRY MOOTHART	
	FAX#: 949-480-5210	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month: 11 Day: 08 Year: 13
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Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month: 11 Day: 06 Year: 13
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Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:	
Print or Type Name: D JEFFREY/J. PROVANSAL	Signature and date:

Please print or type.

GENERATOR/CONSULTANTS COPY

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11, 11, 13	Responsible for Payment:	Transport Truck #: 33	Facility #: A07	Approval Number: 41670	Load #: 0111
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Generator's Name and Billing Address: SO CAL GAS P.O. BOX 30777 LOS ANGELES, CA 90030	Generator's Phone #: 213-244-3598	
	Person to Contact:	
	FAX#:	Customer Account Number

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX#:	Customer Account Number

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP 132 ALAMEDA ST. LOS ANGELES, CA 90021	Site Phone #:	
	Person to Contact:	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001	
	Person to Contact: DELENA JEFFREY	
	FAX#: (760) 246-8004	

Transporter Name and Mailing Address: DELSHIRE 25071 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 RES: 228296	Transporter's Phone #: 949-480-5200	CAR000193013
	Person to Contact: LARRY MOOTHART	460647
	FAX#: 949-480-5210	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: _____	Month: 11 Day: 11 Year: 13
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Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: _____	Signature and date: _____	Month: 11 Day: 11 Year: 13
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Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL	Signature and date: _____
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Please print or type

GENERATOR/CONSULTANTS COPY

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/11/13 Responsible for Payment: _____ Transport Truck #: 78 Facility #: A07 Approval Number: 41670 Load #: 0112

Generator's Name and Billing Address: SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030

Generator's Phone #: 213-244-3538

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____

Consultant's Phone #: _____

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MGP
1/32 ALAMEDA ST.
LOS ANGELES, CA 90021

Site Phone #: _____

Person to Contact: _____

FAX#: _____

Designated Facility (Transport to): (name & address)
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 562-8001

Person to Contact: DELLENA JEFFREY

FAX#: (760) 245-8004

Transporter Name and Mailing Address:
BELSHIRE
25071 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610

Transporter's Phone #: 949-480-5200

Person to Contact: LARRY MOOTHART

FAX#: 949-480-5210

Customer Account Number: CARD000163913
450847

EESI: 226286

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month Day Year 11/11/13

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: ART MARTINEZ Signature and date: _____ Month Day Year 11/11/13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Please print or type.

Manifest

SOIL SAFE OF CA - TPST

Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/11/13	Responsible for Payment:	Transport Truck #: 33	Facility #: A07	Approval Number: 41670	Load #: 0113
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Generator's Name and Billing Address: SO CAL GAS P.O. BOX 30777 LOS ANGELES, CA 90030	Generator's Phone #: 213-244-3538	
	Person to Contact:	
	FAX#:	Customer Account Number

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX#:	Customer Account Number

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP 732 ALAMEDA ST. LOS ANGELES, CA 90021	Site Phone #:	
	Person to Contact:	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE 12328 HIBBINS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 562-8001	
	Person to Contact: DELLENA JEFFREY	
	FAX#: (780) 246-8004	

Transporter Name and Mailing Address: WELSHIRE 25871 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BES: 226298	Transporter's Phone #: 949-460-5200	CARD000183613
	Person to Contact: LARRY MOOTHART	450647
	FAX#: 949-460-5210	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month, Day, Year 11/11/13
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Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: <i>Doreal</i>	Signature and date:	Month, Day, Year 11/11/13
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Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL	Signature and date:
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Please print or type

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/11/13 Responsible for Payment: _____ Transport Truck #: 78 Facility #: A07 Approval Number: 41870 Load #: 0114

Generator's Name and Billing Address: SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030 Generator's Phone #: 213-244-3638
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____ Consultant's Phone #: _____
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021 Site Phone #: _____
Person to Contact: _____
FAX#: _____

Designated Facility (Transport to): (name & address) SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301 Facility Phone #: (800) 862-8001
Person to Contact: DELLENA JEFFREY
FAX#: (760) 248-8004

Transporter Name and Mailing Address: BELSHIRE
25871 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610 Transporter's Phone #: 949-480-5200 CAR000183913
Person to Contact: LARRY MOOTHART 450647
FAX#: 949-480-5210 Customer Account Number: _____

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: *I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name: Generator Consultant Signature and date: _____ Month: 11 Day: 11 Year: 13

Transporter's certification: *I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

Print or Type Name: Art Martinez Signature and date: _____ Month: 11 Day: 11 Year: 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11.12.13 Responsible for Payment: _____ Transport Truck #: 33 Facility #: A07 Approval Number: 41870 Load #: 0115

Generator's Name and Billing Address: SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030 Generator's Phone #: 213-244-3538
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____ Consultant's Phone #: _____
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGF
732 ALAMEDA ST.
LOS ANGELES, CA 90021 Site Phone #: _____
Person to Contact: _____
FAX#: _____

Designated Facility (Transport to): (name & address) SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301 Facility Phone #: (800) 962-8001
Person to Contact: CELLENA JEFFREY
FAX#: (760) 246-8004

Transporter Name and Mailing Address: BELSHIRE
25971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610 Transporter's Phone #: 949-460-5200 REG: 228296 CAR000193913
Person to Contact: LARRY MOOTHART 450647
FAX#: 949-460-5210 Customer Account Number: _____

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket #: _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month: 11 Day: 12 Year: 13

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: ✓ Omar J. Lopez Signature and date: _____ Month: 11 Day: 12 Year: 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11, 12, 13 Responsible for Payment: _____ Transport Truck #: 78 Facility #: A07 Approval Number: 41670 Load #: 0116

Generator's Name and Billing Address: SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030 Generator's Phone #: 213-244-3500
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____ Consultant's Phone #: _____
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021 Site Phone #: _____
Person to Contact: _____
FAX#: _____

Designated Facility (Transport to): (name & address) SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301 Facility Phone #: (800) 862-9001
Person to Contact: DELLENA JEFFREY
FAX#: (760) 248-9004

Transporter Name and Mailing Address: BELSHIRE
28071 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92810 Transporter's Phone #: 949-480-5200 CARD00189813
Person to Contact: LARRY MOOTHART 450647
FAX#: 949-480-5210 Customer Account Number: _____

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket #: _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month: 11 Day: 12 Year: 13

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: _____ Signature and date: _____ Month: 11 Day: 12 Year: 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Please print or type

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/12/13 Responsible for Payment: _____ Transport Truck #: 33 Facility #: A07 Approval Number: 41570 Load #: 0117

Generator's Name and Billing Address: SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030

Generator's Phone #: 213-244-3538

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____

Consultant's Phone #: _____

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021

Site Phone #: _____

Person to Contact: _____

FAX#: _____

Designated Facility (Transport to): (name & address)
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 862-5001

Person to Contact: DELLENA JEFFREY

FAX#: (760) 246-8004

Transporter Name and Mailing Address:
RELSHIRE
28871 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 228288

Transporter's Phone #: 949-460-5200 CARD00183813

Person to Contact: LARRY MOOTHART 450647

FAX#: 949-460-5210 Customer Account Number: _____

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month: 11 Day: 12 Year: 13

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: OM102 020250 Signature and date: _____ Month: 11 Day: 12 Year: 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/12/13 Responsible for Payment: _____ Transport Truck #: 780 Facility #: A07 Approval Number: 41870 Load #: 0112

Generator's Name and Billing Address: SO CAL GAS
H.O. BOX 30777
LOS ANGELES, CA 90030

Generator's Phone #: 213-244-3538

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____

Consultant's Phone #: _____

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST
LOS ANGELES, CA 90021

Site Phone #: _____

Person to Contact: _____

FAX#: _____

Designated Facility (Transport to): (name & address)
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 862-8001

Person to Contact: DELLENA JEFFREY

FAX#: (760) 246-8004

Transporter Name and Mailing Address:
PELSHIRE
25971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610

Transporter's Phone #: 949-480-5200

Person to Contact: LARRY MOOTHART

FAX#: 949-480-5210

Customer Account Number: CARD00183813
450847

SES#: 228206

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: *I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name: Generator Consultant Signature and date: _____ Month Day Year 11/12/13

Signature on file

Transporter's certification: *I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

Print or Type Name: ART MARTINEZ Signature and date: _____ Month Day Year 11/12/13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: **11, 13, 13** Responsible for Payment: _____ Transport Truck #: **339** Facility #: **A07** Approval Number: **41870** Load #: **019**

Generator's Name and Billing Address: **SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030**

Generator's Phone #: **213-244-3528**

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____

Consultant's Phone #: _____

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address)
**SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021**

Site Phone #: _____

Person to Contact: _____

FAX#: _____

Designated Facility (Transport to): (name & address)
**SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301**

Facility Phone #: **(800) 862-8001**

Person to Contact: **DELENA JEFFREY**

FAX#: **(760) 246-8004**

Transporter Name and Mailing Address:
**BELSHIRE
25871 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610**

Transporter's Phone #: **949-480-5200**

Person to Contact: **LARRY MOOTHART**

FAX#: **949-480-5210**

Customer Account Number: **CAR000183913**
450647

BESI: 228298

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____
Month: **11** Day: **13** Year: **13**

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: **Juan Garcia** Signature and date: _____
Month: **11** Day: **13** Year: **13**

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:
Print or Type Name: **D. JEFFREY/J. PROVANSAL** Signature and date: _____

Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: <i>11/13/13</i>	Responsible for Payment:	Transport Truck #: <i>33</i>	Facility #: <i>A07</i>	Approval Number: <i>41670</i>	Load #: <i>020</i>
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Generator's Name and Billing Address: <i>SO CAL GAS P.O. BOX 30777 LOS ANGELES, CA 90030</i>	Generator's Phone #: <i>213-244-3538</i>
	Person to Contact:
	FAX#:
Customer Account Number	

Consultant's Name and Billing Address:	Consultant's Phone #:
	Person to Contact:
	FAX#:
Customer Account Number	

Generation Site (Transport from): (name & address) <i>SO CAL GAS - ALAMEDA MGP 732 ALAMEDA ST. LOS ANGELES, CA 90021</i>	Site Phone #:
	Person to Contact:
	FAX#:

Designated Facility (Transport to): (name & address) <i>SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301</i>	Facility Phone #: <i>(800) 862-8001</i>
	Person to Contact: <i>DELENA JEFFREY</i>
	FAX#: <i>(760) 246-8004</i>

Transporter Name and Mailing Address: <i>BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92810 BESI: 228208</i>	Transporter's Phone #: <i>949-480-6200</i>	<i>CAR000183813</i>
	Person to Contact: <i>LARRY MOOTHART</i>	<i>450847</i>
	FAX#: <i>949-480-6210</i>	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month Day Year
<i>Signature on file</i>	<i>[Signature]</i>	<i>11 13 13</i>

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month Day Year
<i>OWNE MOTIC</i>	<i>[Signature]</i>	<i>11 13 13</i>

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
<i>D. JEFFREY/J. PROVANSAL</i>	<i>[Signature]</i>

Please print or type.

GENERATOR/CONSULTANTS COPY

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/13/13 Responsible for Payment: _____ Transport Truck #: 48 Facility #: 207 Approval Number: 41670 Load #: 01211

Generator's Name and Billing Address: SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030 Generator's Phone #: 213-244-3538
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____ Consultant's Phone #: _____
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP
132 ALAMEDA ST.
LOS ANGELES, CA 90021 Site Phone #: _____
Person to Contact: _____
FAX#: _____

Designated Facility (Transport to): (name & address) SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301 Facility Phone #: (800) 862-8001
Person to Contact: DELLENA JEFFREY
FAX#: (760) 246-8004

Transporter Name and Mailing Address: BELSHIRE
25971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610 Transporter's Phone #: 949-480-5200 CAR000183813
Person to Contact: LARRY MOOTHART 450647
FAX#: 949-480-5210 Customer Account Number: _____

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: *I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name: Generator Consultant Signature and date: _____ Month 11 Day 13 Year 13

Transporter's certification: *I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

Print or Type Name: ARCI MARTINEZ Signature and date: _____ Month 11 Day 13 Year 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/13/13 Responsible for Payment: _____ Transport Truck #: 33 Facility #: A07 Approval Number: 41670 Load #: 0 | 2 | 2

Generator's Name and Billing Address: SO CAL GAS
H.O. BOX 30777
LOS ANGELES, CA 90030

Generator's Phone #: 213-244-3538

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____

Consultant's Phone #: _____

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021

Site Phone #: _____

Person to Contact: _____

FAX#: _____

Designated Facility (Transport to): (name & address)
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (909) 862-8001

Person to Contact: DELLEN JEFFREY

FAX#: (760) 246-8004

Transporter Name and Mailing Address:
BELSHIRE
25071 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 22B298

Transporter's Phone #: 949-480-5200

Person to Contact: LARRY MOOTHART

FAX#: 949-480-5210

CAR000193913
450647
Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month Day Year 11/13/13

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: v. Omar OROZCO Signature and date: _____ Month Day Year 11/13/13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Generator and/or Consultant

Transporter

Recycling Facility

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11, 13, 13 Responsible for Payment: _____ Transport Truck #: 78 Facility #: ADT Approval Number: 41870 Load #: 0 | 2 | 3

Generator and/or Consultant

Generator's Name and Billing Address:
SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030

Generator's Phone #: 213-244-3538

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____

Consultant's Phone #: _____

Person to Contact: _____

FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021

Site Phone #: _____

Person to Contact: _____

FAX#: _____

Designated Facility (Transport to): (name & address)
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (909) 852-8001

Person to Contact: DELLENA JEFFREY

FAX#: (760) 246-8004

Transporter Name and Mailing Address:
BELSHIRE
25071 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 228298

Transporter's Phone #: 949-480-5200

Person to Contact: LARRY MOOTHART

FAX#: 949-480-5210

CAR000183913
450847
Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____
Month: 11 Day: 13 Year: 13

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: ART MARTINEZ Signature and date: _____
Month: 11 Day: 13 Year: 13

Recycling Facility

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/14/13 Responsible for Payment: _____ Transport Truck #: 33 Facility #: A07 Approval Number: 41870 Load #: 0214

Generator's Name and Billing Address: SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030 Generator's Phone #: 213-244-3538
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____ Consultant's Phone #: _____
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021 Site Phone #: _____
Person to Contact: _____
FAX#: _____

Designated Facility (Transport to): (name & address) SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301 Facility Phone #: (800) 882-8001
Person to Contact: DELLENA JEFFREY
FAX#: (760) 248-8004

Transporter Name and Mailing Address: BELSHIRE
25971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610 Transporter's Phone #: 949-480-5200 CAR000183913
Person to Contact: LARRY MOOTHART 450847
FAX#: 949-480-5210 Customer Account Number: _____

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket #: _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month: 11 Day: 14 Year: 13
Signature on file

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Omni Signature and date: _____ Month: 11 Day: 14 Year: 13
029750

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Generator and/or Consultant

Transporter

Recycling Facility

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/14/13 Responsible for Payment: Transport Truck #: 78 Facility #: A07 Approval Number: 41870 Load #: 01215

Generator's Name and Billing Address: SO CAL GAS
P.O. BOX 30777
LOS ANGELES, CA 90030
Generator's Phone #: 213-244-3538
Person to Contact:
FAX#: Customer Account Number

Consultant's Name and Billing Address:
Consultant's Phone #:
Person to Contact:
FAX#: Customer Account Number

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MGP
732 ALAMEDA ST.
LOS ANGELES, CA 90021
Site Phone #:
Person to Contact:
FAX#:

Designated Facility (Transport to): (name & address)
SOIL SAFE
12325 HIBISCUS AVENUE
ADELANTO CA 92301
Facility Phone #: (800) 862-8001
Person to Contact: DELLENA JEFFREY
FAX#: (760) 248-9004

Transporter Name and Mailing Address: BELSHIRE
25071 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 228298
Transporter's Phone #: 949-460-5200 CAR000183918
Person to Contact: LARRY MOOTHART 450647
FAX#: 949-460-5210 Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month: 11 Day: 14 Year: 13
Signature on file

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: ART MARTINEZ Signature and date: _____ Month: 11 Day: 14 Year: 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/14/13 Responsible for Payment: _____ Transport Truck #: 33 Facility #: A07 Approval Number: 41870 Load #: 0216

Generator's Name and Billing Address: 50 CAL GAS
P O BOX 30777
LOS ANGELES CA 90030 Generator's Phone #: 213-254-3538
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address: _____ Consultant's Phone #: _____
Person to Contact: _____
FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address) 50 CAL GAS - ALAMEDA MGP
782 ALAMEDA ST.
LOS ANGELES, CA 90021 Site Phone #: _____
Person to Contact: _____
FAX#: _____

Designated Facility (Transport to): (name & address) SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301 Facility Phone #: (800) 862-8001
Person to Contact: DELLENA JEFFREY
FAX#: (780) 246-8000

Transporter Name and Mailing Address: PELSHIRE
25071 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610 Transporter's Phone #: 849-480-5200 CAR000183913
Person to Contact: LARRY MOOTHART 450647
FAX#: 849-480-5210 Customer Account Number: _____

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month 11 Day 14 Year 13
Signature on file

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Orville Orzoco Signature and date: _____ Month 11 Day 14 Year 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL Signature and date: _____

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11-14-13 Responsible for Payment: _____ Transport Truck #: 78 Facility #: _____ Approval Number: _____ Load #: _____

Generator's Name and Billing Address:
 Generator's Phone #: _____
 Person to Contact: _____
 FAX#: _____ Customer Account Number: _____

Consultant's Name and Billing Address:
 Consultant's Phone #: _____
 Person to Contact: _____
 FAX#: _____ Customer Account Number: _____

Generation Site (Transport from): (name & address)
 Site Phone #: _____
 Person to Contact: _____
 FAX#: _____

Designated Facility (Transport to): (name & address)
 Facility Phone #: _____
 Person to Contact: _____
 FAX#: _____

Transporter Name and Mailing Address:
 Transporter's Phone #: _____
 Person to Contact: _____
 FAX#: _____ Customer Account Number: _____

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month: 11 Day: 14 Year: 13

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: _____ Signature and date: _____ Month: 11 Day: 14 Year: 13

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: _____ Signature and date: _____

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11-15-13	Responsible for Payment: <i>[Signature]</i>	Transport Truck #: 3711570	Facility #:	Approval Number: 41630	Load #:
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Generator's Name and Billing Address: LOS ANGELES, CA 90080-0377	Generator's Phone #: <i>[Signature]</i>	Customer Account Number
	Person to Contact: DWIGHT	
	FAX#:	

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #: (626) 440-6161	Customer Account Number
	Person to Contact:	
	FAX#:	

Generation Site (Transport from): (name & address) 792 ALAMEDA ST LOS ANGELES, CA	Site Phone #:	Customer Account Number
	Person to Contact: CHEYNE	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12928 Hibiscus Ave ADELANTO, CA 92301	Facility Phone #: (909) 562-9001	Customer Account Number
	Person to Contact: JEFFREY	
	FAX#: (909) 245-8006	

Transporter Name and Mailing Address: BELSHIRE ENVIRONMENTAL 25971 Towne Centre Dr LANE FOREST, CA 92610	Transporter's Phone #: 7494605200	Customer Account Number
	Person to Contact: LARRY MORTIART	
	FAX#: 1800199	

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	17 y	SOIL			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: <i>[Signature]</i>	Month: 11 Day: 15 Year: 13
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Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date: <i>[Signature]</i>	Month: 11 Day: 15 Year: 13
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Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
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Manifest

SOIL SAFE OF CA - TPST

Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/18/17	Responsible for Payment: Generator	Transport Truck #: 33	Facility #:	Approval Number: 1179	Load #: 1
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Generator's Name and Billing Address: DOLLAR PO BOX 30777 LOS ANGELES, CA 90030-0777	Generator's Phone #: 310-307-7777	
	Person to Contact: DOLLAR/AF INVOICE	
	FAX#:	Customer Account Number: 730000

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #: (626) 799-4141	
	Person to Contact:	
	FAX#:	Customer Account Number: 72PARSO

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MSP 792 ALAMEDA ST LOS ANGELES, CA	Site Phone #:	
	Person to Contact: KATHLEEN CHEYNE	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12328 HINDSBOUS AVE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001	
	Person to Contact: DELENG JEFFREY	
	FAX#: (760) 246-8004	

Transporter Name and Mailing Address: DELUXE ENVIRONMENTAL 25071 TOWNE CENTRE DR LAKE FOREST, CA 92610	Transporter's Phone #: 714-455-2200	
	Person to Contact: LARRY HOOTHART	
	FAX#: 1000173	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: <i>[Signature]</i> 11/18/17	Month: 11 Day: 18 Year: 17
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Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date: <i>[Signature]</i> 11/18/17	Month: 11 Day: 18 Year: 17
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Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
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Please print or type.

GENERATOR/CONSULTANTS COPY

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11-18-13	Responsible for Payment: <i>[Signature]</i>	Transport Truck #: 3970-1752	Facility #:	Approval Number: 91670	Load #: 1101
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Generator's Name and Billing Address: EnviCo (415) 607-0077 LOS ANGELES, CA 90000-0777	Generator's Phone #: 415-607-0077	Generator's Phone #:
	Person to Contact: 1509-2710 INVOICE	Person to Contact:
	FAX#:	Customer Account Number: 2710

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #:	Consultant's Phone #:
	Person to Contact: <i>[Signature]</i>	Person to Contact:
	FAX#:	Customer Account Number: 2710

Generation Site (Transport from): (name & address) 30 CAL GAS - ALAMEDA MGF 792 ALAMEDA ST LOS ANGELES, CA	Site Phone #:	Site Phone #:
	Person to Contact: KATHLEEN CHEYNE	Person to Contact:
	FAX#:	Customer Account Number:

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12920 Hibiscus Ave ADELANTO, CA 92301	Facility Phone #: (800) 842-3001	Facility Phone #:
	Person to Contact: DELENA JEFFREY	Person to Contact:
	FAX#: (760) 246-8004	FAX#:

Transporter Name and Mailing Address: BELSHIRE ENVIRONMENTAL 25771 TOWNE CENTRE DR LANE FOREST, CA 92610	Transporter's Phone #: 714-277-2000	Transporter's Phone #:
	Person to Contact: <i>[Signature]</i>	Person to Contact:
	FAX#: 714-277-2000	Customer Account Number: 1000193

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	17 y SOIL				

List any exception to items listed above: **None R2375PL** Scale Ticket #

Generator's and/or consultant's certification: *I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: <i>[Signature]</i> ON FILE	Month Day Year: 11/18/13
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Transporter	Transporter's certification: <i>I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.</i>
	Print or Type Name: Kalvin D. [Signature] Signature and date: <i>[Signature]</i> Month Day Year: 11/18/13

Recycling Facility	Discrepancies:
	Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Print or Type Name: DL JEFFREY Signature and date: <i>[Signature]</i>

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/19/13	Responsible for Payment: Generator	Transport Truck #:	Facility #:	Approval Number: 01-1001	Load #: 141
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Generator's Name and Billing Address: W. H. HARRIS 174 DIX 3077 LOS ANGELES, CA 90030-0777	Generator's Phone #: 310-201-3529	
	Person to Contact: PAULINE/OP INVOICE	
	FAX#:	Customer Account Number: 732400

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #: 626-797-1111	
	Person to Contact:	
	FAX#:	Customer Account Number: 732400

Generation Site (Transport from): (name & address) 90 CAL GAS - ALAMEDA MGP 780 ALAMEDA ST LOS ANGELES, CA	Site Phone #:	
	Person to Contact: KATHLEEN CHEYNE	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12920 HIBISCUS AVE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001	
	Person to Contact: DELENA JEFFREY	
	FAX#: (760) 246-8004	

Transporter Name and Mailing Address: DELONIRE ENVIRONMENTAL 25971 TOWNE CENTRE DR LAKE FOREST, CA 92640	Transporter's Phone #: 949-487-2000	
	Person to Contact: MARK HODSTADT	
	FAX#: 1000193	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	184	SOIL			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: BIN# 67CT Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant an 11/19/13
Signature and date: [Signature] Month: 11 Day: 19 Year: 13

Transporter
Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Paul Delgado Signature and date: [Signature] Month: 11 Day: 19 Year: 13

Recycling Facility
Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY Signature and date: [Signature]

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11-20-13	Responsible for Payment: <i>[Signature]</i>	Transport Truck #: 393/733	Facility #:	Approval Number: 15-1-110	Load #: 1-1
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Generator's Name and Billing Address: of a/k/a 10000 30th ST LOS ANGELES, CA 90030-0777	Generator's Phone #: 310-330-1500	Customer Account Number: 735000
	Person to Contact: M. DRACUP INVOICE	
	FAX#:	

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #: (626) 790-6101	Customer Account Number: 27PARSON
	Person to Contact:	
	FAX#:	

Generation Site (Transport from): (name & address) 50 CAL GAS - ALAMEDA MGP 792 ALAMEDA ST LOS ANGELES, CA	Site Phone #:	
	Person to Contact: KATHLEEN ONEYNE	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12320 KIDUSSUS AVE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001	
	Person to Contact: DELEENA JEFFREY	
	FAX#: (760) 244-8004	

Transporter Name and Mailing Address: DELSHIRE ENVIRONMENTAL 29971 TOWNE CENTRE DR LANE FOREST, CA 92410	Transporter's Phone #:	
	Person to Contact: LARRY FOOTWART	
	FAX#: 1006180	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	181	SOIL			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: **Per # 40107** Scale Ticket # **11**

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: ON FILE	Month Day Year: 11 20 13
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Transporter	Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.
	Print or Type Name: PAUL DELGADO Signature and date: <i>[Signature]</i> Month Day Year: 11 20 13

Recycling Facility	Discrepancies:
	Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Print or Type Name: PAUL DELGADO Signature and date: <i>[Signature]</i>

Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/21/13	Responsible for Payment: <i>[Signature]</i>	Transport Truck #: 33	Facility #:	Approval Number: 14-1121	Load #: 13
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Generator's Name and Billing Address: gasco PO BOX 06777 LOS ANGELES, CA 90080-0777	Generator's Phone #: (310) 415-7101	
	Person to Contact: THOMAS W. INVOICE	
	FAX#:	Customer Account Number: 7gasco

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #: (626) 797-6101	
	Person to Contact:	
	FAX#:	Customer Account Number: 72PARSO

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA HOF 782 ALAMEDA ST LOS ANGELES, CA	Site Phone #:	
	Person to Contact: KATHLEEN CHEYNE	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12820 MIDISCUS AVE ARLINGTON, CA 92301	Facility Phone #: (909) 862-0001	
	Person to Contact: HELENA JEFFREY	
	FAX#: (949) 246-8004	

Transporter Name and Mailing Address: WELSHIRE ENVIRONMENTAL 25971 TOWNE CENTRE DR LAKE FOREST, CA 92610	Transporter's Phone #: (949) 440-0300	
	Person to Contact: LARRY HOOTHART	
	FAX#: 1000123	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: <i>[Signature]</i>	Month: 11 Day: 21 Year: 13
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Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: <i>[Signature]</i>	Signature and date: <i>[Signature]</i>	Month: 11 Day: 21 Year: 13
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Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: U. JEFFREY - U. ENVIRONMENTAL	Signature and date:
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Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/21/13 Responsible for Payment: [Signature] Transport Truck #: 333 1773 Facility #: Approval Number: 101001-511101 Load #

Generator's Name and Billing Address: [Signature]
LOS ANGELES, CA 90090-0777
Generator's Phone #: [Signature]
Person to Contact: [Signature]
FAX#: [Signature] INVOICE
Customer Account Number: 7096000

Consultant's Name and Billing Address: PARSONS
100 WEST WALNUT STREET
PASADENA, CA 91104
Consultant's Phone #: [Signature]
Person to Contact: [Signature]
FAX#: [Signature]
Customer Account Number: 720000

Generation Site (Transport from): (name & address)
50 CAL GAS - ALAMEDA MOP
732 ALAMEDA ST
LOS ANGELES, CA
Site Phone #: [Signature]
Person to Contact: KATHLEEN CHEYNE
FAX#: [Signature]

Designated Facility (Transport to): (name & address)
SOIL SAFE OF CALIFORNIA, INC
12320 HINDSBOUS AVE
ADELANTO, CA 92301
Facility Phone #: (800) 962-8001
Person to Contact: DELLENA JEFFREY
FAX#: (760) 246-8004

Transporter Name and Mailing Address:
WELSHIRE ENVIRONMENTAL
25971 TOWNE CENTRE DR
LAKE FOREST, CA 92510
Transporter's Phone #: [Signature]
Person to Contact: LARRY BROTHART
FAX#: [Signature]
Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	184	SOIL			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: RIN# 105CT Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: [Signature] Month: 11 Day: 21 Year: 13

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: [Signature] Signature and date: [Signature] Month: 11 Day: 21 Year: 13

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:
Print or Type Name: [Signature] Signature and date: [Signature]

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type.

GENERATOR/CONSULTANTS COPY

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/22/13	Responsible for Payment: Gensco	Transport Truck #: 33	Facility #:	Approval Number: 11-079	Load #: 11
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Generator's Name and Billing Address: Gensco PO BOX 10777 LOS ANGELES, CA 90080-0777	Generator's Phone #: 310-441-1111	
	Person to Contact: MELISSA WOODRUFF	
	FAX#:	Customer Account Number: Gensco

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #: 626-792-5121	
	Person to Contact:	
	FAX#:	Customer Account Number: PARSONS

Generation Site (Transport from): (name & address) 50 CAL GAS - ALAMEDA MOP 700 ALAMEDA ST LOS ANGELES, CA	Site Phone #:	
	Person to Contact: KATHLEEN CHEYNE	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12926 HIBISCUS AVE ADELANTO, CA 92301	Facility Phone #: (909) 462-8001	
	Person to Contact: DELENA JEFFREY	
	FAX#: (909) 246-0004	

Transporter Name and Mailing Address: DEL SHIRE ENVIRONMENTAL 23971 TOWNE CENTRE DR LAKE FOREST, CA 92640	Transporter's Phone #: 949-407-3000	
	Person to Contact: LARRY HOOTNATT	
	FAX#: 1000123	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: _____ Scale Ticket # _____

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: _____ Month: 11 Day: 22 Year: 13

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: _____ Signature and date: _____ Month: 11 Day: 22 Year: 13

Recycling Facility

Discrepancies: _____

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: _____ Signature and date: _____

Please print or type

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/22/13 Responsible for Payment: WALNUT ST Transport Truck #: 392 733 Facility #: 10248500 Approval Number: 10248500 Load #: 11

Generator's Name and Billing Address:
PARSONS
100 WEST WALNUT STREET
PASADENA, CA 91124

Generator's Phone #: 10248500
Person to Contact: INVOICE
FAX#: INVOICE Customer Account Number: 730430

Consultant's Name and Billing Address:
PARSONS
100 WEST WALNUT STREET
PASADENA, CA 91124

Consultant's Phone #: 10248500
Person to Contact: INVOICE
FAX#: INVOICE Customer Account Number: 730430

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MSP
792 ALAMEDA ST
LOS ANGELES, CA

Site Phone #: INVOICE
Person to Contact: WYNLEEN ONEYNE
FAX#: INVOICE

Designated Facility (Transport to): (name & address)
SOIL SAFE OF CALIFORNIA, INC
12929 KIDDISCUS AVE
ADELANTO, CA 92301

Facility Phone #: (800) 842-8001
Person to Contact: DELENA JEFFREY
FAX#: (760) 244-8004

Transporter Name and Mailing Address:
BELOSHIRE ENVIRONMENTAL
25971 TOWNE CENTRE DR
LAKE FOREST, CA 72410

Transporter's Phone #: 1000123
Person to Contact: INVOICE
FAX#: INVOICE Customer Account Number: 1000123

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	<u>184</u>	<u>SOIL</u>			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: with PR71291 m Scale Ticket #

Generator's and/or consultant's certification: *I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name: Generator Consultant Signature and date: RM FIVE Month, Day Year: 11/22/13

Transporter's certification: *I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

Print or Type Name: PAUL DELIGAD Signature and date: [Signature] Month, Day Year: 11/22/13

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: J. JEFFREY Signature and date: [Signature]

Please print or type.

GENERATOR/CONSULTANTS COPY

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11-27-13 Responsible for Payment: WORLDWIDE Transport Truck #: 393/735 Facility #: Approval Number: 11-1570 Load #: 1/1

Generator's Name and Billing Address: Worldwide
1401 W. 10th St
LOS ANGELES, CA 90008-0727
Generator's Phone #: (213) 475-1111
Person to Contact: WORLDWIDE INVOICE
FAX#: Customer Account Number: 7350000

Consultant's Name and Billing Address: PARSONS
100 WEST WALNUT STREET
PASADENA, CA 91124
Consultant's Phone #: (626) 799-0121
Person to Contact:
FAX#: Customer Account Number: 7350000

Generation Site (Transport from): (name & address)
SO CAL GAS - ALAMEDA MGP
782 ALAMEDA ST
LOS ANGELES, CA
Site Phone #:
Person to Contact: KATHLEEN CHEYNE
FAX#:

Designated Facility (Transport to): (name & address)
SOIL SAFE OF CALIFORNIA, INC
12828 HIBISCUS AVE
WIDELAND, CA 92901
Facility Phone #: (800) 862-8001
Person to Contact: DELENA JEFFREY
FAX#: (740) 246-8004

Transporter Name and Mailing Address: BELSHIRE ENVIRONMENTAL
25971 TOWNE CENTRE DR
LAKE FOREST, CA 92610
Transporter's Phone #: (714) 928-8000
Person to Contact: LARRY MOSTWART
FAX#: 1000193 Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	<u>164</u>	<u>SOIL</u>			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: RIN 0% CT Scale Ticket #:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: ON FILE Month: 11 Day: 27 Year: 13

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Paul Williams Signature and date: Month: 11 Day: 27 Year: 13

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. RITTEY - J. MCQUARRIE Signature and date:

Manifest

SOIL SAFE OF CA - TPST

Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 12-10-13	Responsible for Payment: <i>(signature)</i>	Transport Truck #: 399/722	Facility #:	Approval Number: 06-1500	Load #: 14
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Generator's Name and Billing Address: <i>(signature)</i> CO DIV 20777 LOS ANGELES, CA 90030-0777	Generator's Phone #: 323-418-1111	Person to Contact: AP INVOICE
	FAX#:	Customer Account Number: 729400

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #: (626) 440-0151	Person to Contact:
	FAX#:	Customer Account Number: 729400

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MSP 790 ALAMEDA ST LOS ANGELES, CA	Site Phone #:	Person to Contact: MATHLEEN CHEYNE
	FAX#:	Customer Account Number:

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12920 HIBISCUS AVE ROSELAND, CA 92301	Facility Phone #: (800) 852-8001	Person to Contact: DELLENA JEFFREY
	FAX#: (760) 246-8004	Customer Account Number:

Transporter Name and Mailing Address: DELSHIRE ENVIRONMENTAL 25971 TOWNE CENTRE DR LAKE FOREST, CA 92640	Transporter's Phone #: 714-452-0000	Person to Contact: LARRY MOOTHART
	FAX#: 1000173	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	174	SOIL			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: **Batch 62 ca** Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: <i>(signature)</i> ON FILE	Month: 12 Day: 10 Year: 13
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Transporter	Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.
	Print or Type Name: Kevin Dunlop Signature and date: <i>(signature)</i> Month: 12 Day: 10 Year: 13

Recycling Facility	Discrepancies:
	Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Print or Type Name: RECYCLING FACILITY Signature and date: <i>(signature)</i>

Please print or type.

GENERATOR/CONSULTANTS COPY

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 12-11-13	Responsible for Payment: <i>(signature)</i>	Transport Truck #: 3991733	Facility #:	Approval Number: W 1500	Load #: 171
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Generator's Name and Billing Address: SOIL SAFE PO BOX 30777 LOS ANGELES, CA 90030-0777	Generator's Phone #: (310) 442-8001	
	Person to Contact: PHILIP/HP DVOICE	
	FAX#:	Customer Account Number: 794520

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #: (626) 440-9101	
	Person to Contact:	
	FAX#:	Customer Account Number: 777PARSO

Generation Site (Transport from): (name & address) SO CAL GAS - ALAMEDA MGP 792 ALAMEDA ST LOS ANGELES, CA	Site Phone #:	
	Person to Contact: MATHLEEN CHEYNE	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12328 WITBISCHS AVE RIMELANTO, CA 92301	Facility Phone #: (800) 862-8001	
	Person to Contact: DELLENA JEFFREY	
	FAX#: (760) 242-8004	

Transporter Name and Mailing Address: DELSHIRE ENVIRONMENTAL 25971 TOWNE CENTRE DR LAKE FOREST, CA 92640	Transporter's Phone #: 760-405200	
	Person to Contact: LARRY MOYTHART	
	FAX#: 1800193	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	18y	SOIL			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: **WAT R2992202** Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: ON FILE	Month: 12 Day: 11 Year: 13
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Transporter	Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.
	Print or Type Name: MARK DELORENZO Signature and date: <i>(signature)</i> Month: 12 Day: 11 Year: 13

Recycling Facility	Discrepancies:
	Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Print or Type Name: D. JEFFREY C. PPD/HP/AL Signature and date:

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 12-12-13	Responsible for Payment: Generator	Transport Truck #: 198/426	Facility #:	Approval Number: 12/13	Load #: 1-2
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Generator's Name and Billing Address: WALNUT 700 W 30TH ST LOS ANGELES, CA 90030-0777	Generator's Phone #: 310-333-3333
	Person to Contact: DUPLICATE/AP INVOICE
	FAX#:
Customer Account Number: 74985000	

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #: (626) 440-6101
	Person to Contact:
	FAX#:
Customer Account Number: 77PARSO	

Generation Site (Transport from): (name & address) 30 CAL GAS - ALAMEDA MGP 732 ALAMEDA ST LOS ANGELES, CA	Site Phone #:
	Person to Contact: KATHLEEN ONEYNE
	FAX#:

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12826 Hibiscus Ave ADELANTO, CA 92301	Facility Phone #: (909) 842-1001
	Person to Contact: DELLENA JEFFREY
	FAX#: (909) 246-8004

Transporter Name and Mailing Address: BELSHIRE ENVIRONMENTAL 25971 TOWNE CENTRE DR LAKE FOREST, CA 92640	Transporter's Phone #: 714-885-2300
	Person to Contact: LARRY HOFFMANN
	FAX#: 1000198
Customer Account Number:	

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>	134				
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: **Bin# 5604** Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: **DU FILE** Month: **12** Day: **12** Year: **13**

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: **DUPLICATE** Signature and date:  Month: **12** Day: **12** Year: **13**

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:
Print or Type Name: Signature and date:

Please print or type.

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 12/13/13	Responsible for Payment: <i>[Signature]</i>	Transport Truck #: 394/322	Facility #:	Approval Number: 10-120	Load #: 1
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Generator's Name and Billing Address: PG&E PO BOX 20079 LOS ANGELES, CA 90080-0777	Generator's Phone #: (310) 350-3500	
	Person to Contact: M. DILLON/INVOICE	
	FAX#:	Customer Account Number: 7298000

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124	Consultant's Phone #: (626) 600-6101	
	Person to Contact:	
	FAX#:	Customer Account Number: 7298000

Generation Site (Transport from): (name & address) 50 CAL GAS - ALAMEDA MGP 732 ALAMEDA ST LOS ANGELES, CA	Site Phone #:	
	Person to Contact: KATHLEEN CHEYNE	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12228 HERRISCUSS AVE DELANTO, CA 92301	Facility Phone #: (800) 862-8001	
	Person to Contact: DELLENA JEFFREY	
	FAX#: (760) 244-8004	

Transporter Name and Mailing Address: BELSHIRE ENVIRONMENTAL 25971 TOWNE CENTRE DR LAKE FOREST, CA 92640	Transporter's Phone #: 760-408-2000	
	Person to Contact: LARRY WOODHART	
	FAX#: 1000193	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	187				
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: **1312# R/S/2013** Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: <i>[Signature]</i> ON FILE	Month: 12 Day: 13 Year: 13
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Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Karin Durdal	Signature and date: <i>[Signature]</i>	Month: 12 Day: 13 Year: 13
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Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:	
Print or Type Name: U.S. RECYCLING & DISPOSAL	Signature and date:

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 12/16/13	Responsible for Payment: Generator	Transport Truck #: 392 723	Facility #:	Approval Number: 109-1070	Load #: 1-1
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Generator's Name and Billing Address: DELTA 191 BULFORD ST LOS ANGELES, CA 90030-0777	Generator's Phone #: (213) 291-1111	
	Person to Contact: M. DLAN/AP INVOICE	
	FAX#:	Customer Account Number: 722222

Consultant's Name and Billing Address: PARSONS 100 WEST WALNUT STREET PASADENA, CA 91104	Consultant's Phone #: (626) 440-3101	
	Person to Contact:	
	FAX#:	Customer Account Number: 22PARSO

Generation Site (Transport from): (name & address) 50 CAL GAS - ALAMEDA MSP 792 ALAMEDA ST LOS ANGELES, CA	Site Phone #:	
	Person to Contact: KATHLEEN ONEYNE	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE OF CALIFORNIA, INC 12029 MIDCROSS AVE ADELANTO, CA 92301	Facility Phone #: (800) 862-9001	
	Person to Contact: DELLENA JEFFREY	
	FAX#: (760) 246-8004	

Transporter Name and Mailing Address: DELTAIRE ENVIRONMENTAL 25971 TOLME CENTRE DR LAKE FOREST, CA 92610	Transporter's Phone #: 714-241-2110	
	Person to Contact: LARRY WOTHART	
	FAX#: 1800199	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>	18y	SOIL			
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: **RIN # 28941/2** Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: **ON FILE** Month: **12** Day: **16** Year: **13**

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: **ALL** Signature and date: **[Signature]** Month: **12** Day: **16** Year: **13**

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: **E. WITTEK** Signature and date: **[Signature]**

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: <i>12/17/12</i>	Responsible for Payment: <i>Generator</i>	Transport Truck #: <i>393/722</i>	Facility #:	Approval Number: <i>12-1079</i>	Load #:
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Generator's Name and Billing Address: <i>WILLIAMS 191 (RD) 20172 LOS ANGELES, CA 90030-0777</i>	Generator's Phone #: <i>310-201-2100</i>	Generator's Phone #:
	Person to Contact: <i>THOMAS GUY D'VOICE</i>	Person to Contact:
	FAX#:	Customer Account Number: <i>74385800</i>

Consultant's Name and Billing Address: <i>PARSONS 100 WEST WALNUT STREET PASADENA, CA 91124</i>	Consultant's Phone #: <i>(626) 440-2100</i>	Consultant's Phone #:
	Person to Contact:	Person to Contact:
	FAX#:	Customer Account Number: <i>7270860</i>

Generation Site (Transport from): (name & address) <i>SO CAL GAS - ALAMEDA MGP 730 ALAMEDA ST LOS ANGELES, CA</i>	Site Phone #:	Site Phone #:
	Person to Contact: <i>NATHALEEN CHEYNE</i>	Person to Contact:
	FAX#:	FAX#:

Designated Facility (Transport to): (name & address) <i>SOIL SAFE OF CALIFORNIA, INC 12828 HIBISCUS AVE ADELANTO, CA 92301</i>	Facility Phone #: <i>(800) 862-8001</i>	Facility Phone #:
	Person to Contact: <i>DELLENA JEFFREY</i>	Person to Contact:
	FAX#: <i>(760) 246-8006</i>	FAX#:

Transporter Name and Mailing Address: <i>DELSHIRE ENVIRONMENTAL 25971 TOWNE CENTRE DR LIVE FOREST, CA 92610</i>	Transporter's Phone #: <i>714-405-2200</i>	Transporter's Phone #:
	Person to Contact: <i>LARRY MONTANA</i>	Person to Contact:
	FAX#: <i>1000193</i>	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	<i>184</i>	<i>SOIL</i>			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above: *2148 R29907 PL* Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: *on file* Month, Day Year: *12 17 12*

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: *MICHELLE DAVIS* Signature and date: *[Signature]* Month, Day Year: *12 17 12*

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: *D. JEFFREY* Signature and date: *[Signature]*

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 12/10/13 Responsible for Payment: Generator Transport Truck #: 1451476 Facility #: Approval Number: 13-000 Load #: 1

Generator's Name and Billing Address: SOIL SAFE OF CALIFORNIA, INC
12926 NIBISCUS AVE
ADELANTO, CA 92301
Generator's Phone #: (760) 246-0004
Person to Contact: DELLENA JEFFREY
FAX#: (760) 246-0004 Customer Account Number: 227980

Consultant's Name and Billing Address: PARSONS
100 WEST WALNUT STREET
PASADENA, CA 91104
Consultant's Phone #: (626) 798-6601
Person to Contact:
FAX#: Customer Account Number: 227980

Generation Site (Transport from): (name & address)
30 CAL GAS - ALAMEDA HOF
792 ALAMEDA ST
LOS ANGELES, CA
Site Phone #:
Person to Contact: KATHLEEN CHEYME
FAX#:

Designated Facility (Transport to): (name & address)
SOIL SAFE OF CALIFORNIA, INC
12926 NIBISCUS AVE
ADELANTO, CA 92301
Facility Phone #: (760) 246-0004
Person to Contact: DELLENA JEFFREY
FAX#: (760) 246-0004

Transporter Name and Mailing Address: SELSHIRE ENVIRONMENTAL
25971 TOWNE CENTRE DR
LAKE FOREST, CA 92640
Transporter's Phone #: (714) 982-0000
Person to Contact: LENNY BROTHART
FAX#: (714) 982-0000 Customer Account Number: (000)193

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>	184				
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above: Bin # 4504 Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Consultant Signature and date: DELLENA JEFFREY Month: Day: Year:

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: LENNY BROTHART Signature and date: Month: 12 Day: 10 Year: 13

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: JOHN DEPLEY Signature and date:

Please print or type.

Import Soil Weigh Tickets

Former Alameda MGP Site
Import soil for backfilling

Date	Number of loads	Total weight Ton	Soil Source
9/25/2013	1	12.61	Vulcan
9/25/2013	1	12.97	Vulcan
9/26/2013	1	12.74	Vulcan
9/26/2013	1	12.49	Vulcan
9/26/2013	1	12.56	Vulcan
9/26/2013	1	12.60	Vulcan
9/26/2013	1	10.99	Vulcan
11/26/2013	7	124.25	North Hollywood
11/27/2013	5	86.30	North Hollywood
12/2/2013	5	84.35	North Hollywood
12/3/2013	1	17.67	North Hollywood
12/9/2013	2	35.34	North Hollywood
12/10/2013	2	35.34	North Hollywood
12/12/2013	2	35.34	North Hollywood
12/13/2013	2	35.34	North Hollywood
12/16/2013	2	35.34	North Hollywood
Total	35	576.23	

Attachment C

Geotechnical Recommendations and Compaction Report

Geotechnical Soilutions, Inc.

501 S. Fairfax Ave, Suite 101, Los Angeles, CA 90036 – Phone (323) 937-1097 – Fax (323) 937-1099

Page 1

Project No. GS 6106A
November 21, 2013

Dr. Shala Craig
Parsons
100 West Walnut Street
Pasadena, CA 91124

Subject: Recommendations for excavation along the property line north side of the cleanup area, Alameda MGP, at 732 South Alameda Street, Los Angeles, California.

Dear Dr. Craig:

As requested, this letter presents recommendations for excavation along the north side of the cleanup area along the property line with the northern adjacent neighboring property. The property to the north is a bus parking lot.

Currently the excavation is approximately 100 feet long and 4 feet deep along the north side. It is proposed to extend the excavation few feet towards the north, pass the iron fence and up to the chain link fence. The iron fence will be removed during the cleanup, but the chain link fence will remain in place and will be protected.

In order not to surcharge the vertical wall of the temporary excavation, we recommend to maintain a minimum 5 foot setback between the top of the excavation and the buses. In addition, the excavation and backfill should be performed in four or five sections. Each section should be excavated and backfilled prior to the excavation of the adjacent sections.

The recommendations presented herein have been performed in general accordance with generally accepted geotechnical engineering practice.

Please feel free to contact us should you have any questions or if we can be of further service.

Respectfully submitted,
Geotechnical Soilutions, Inc.

Mesrop A. Mesrop, RGE 2561
Principal Engineer

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY

ENGINEERING CERTIFICATION OF COMPLIANCE FOR COMPACTED EARTH FILLS

LOCATION OF FILL:
TRACT NO. TR 52046-01
LOT: 3

SOIL TESTING AGENCY: GEOTECHNICAL SOILUTIONS, INC.

JOB ADDRESS: 732 SOUTH ALAMEDA STREET, LOS ANGELES, CA 90021

PROPERTY OWNER: ALAMEDA TRADE CENTER ASSOCIATION
LIM, CHANG Y AND MEE H TRS FAMILY TRUST

OWNER'S ADDRESS: 4625 DISTRICT BLVD
VERMON, CA 90058

CONTRACTOR: EL CAPITAN ENVIRONMENTAL ENGINEERING, INC.

PER GEOTECHNICAL REPORTS: ENVIRONMENTAL CLEANUP PROJECT.
GEOTECHNICAL REPORT WAS NOT REQUIRED

COMPACTION REPORT DATE: 01/24/2014

DATE COMPACTION STARTED: 09/26/2013


DATE BACKFILL WAS COMPLETED: 01/09/2014

DATE OF THIS CERTIFICATE: 01/24/2014

TO THE SUPERINTENDENT OF BUILDING:

*I hereby certify that I have personally inspected and tested the placing of compacted on the above described property, and on the basis of these inspections and tests, it is my opinion that the same was placed in conformity with the requirements of the Los Angeles City Building Code for primary non structural fill in the planter areas and secondary structural fill in the parking areas as indicated in the report.





Geotechnical Engineer
California Certificate No. GE 2561

*For the purpose of this Certificate to "have personally inspected and tested" shall include inspection and testing performed by any person responsible to the licensed engineer signing this certificate. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the licensed engineer whose signature is affixed thereon.

Compaction Observation and Testing Report
During Environmental Cleanup
Former Alameda Street MGP Site
732 South Alameda Street
City of Los Angeles, California.

Prepared for
Parsons
100 West Walnut Street
Pasadena, CA 91124

Subject:

Compaction observation and testing report for the environmental cleanup project at former Alameda Street MGP Site, at 732 South Alameda Street in City of Los Angeles, California.

Project Description:

The area of the removal and backfill (cleanup) was on the north side of the property along the property line with Greyhound. The environmental cleanup was in the planters and small portions of the parking area as shown on plate 1 in the Appendix. The width of the excavation was approximately 8 feet on the east side, 20 feet in the middle and approximately 40 feet near the west side. The depth of the excavation was between 2 feet in the parking area to 3 to 4 feet in the planter areas, except for localized areas in the planters where the depth of excavation was about 6 feet. Import soil was used to backfill the excavation. The cleanup excavation was performed in stages. First was the east side, then the west side and the last stage was adjacent to the property line in small sections.

We periodically observed the backfill and tested the compaction. The location of the excavation and backfill is shown on the attached “Compaction Test Location” Plot Plan, Plate 1.

The bottom of the excavations exposed native soil on the south side, and native and old fill on the north side of the excavation adjacent to the property line. The native soil and the fill consisted of silty sand.

Laboratory Testing:

The maximum dry density and optimum moisture content of the backfill soil materials were determined per Laboratory Standard Test Method ASTM D1557-91 which utilizes a four inch diameter mold having 1/30 cubic foot of volume and a ten pound hammer dropped eighteen inches for five layers, twenty five blows per layer. The maximum density results are as follows:

<u>Soil Description</u>	<u>Optimum Moisture (%)</u>	<u>Maximum Dry Density (pcf)</u>
Import, silty sand	7.3	129.4
Import, silty sand	8.7	129.5
Base	6.5	136.5

Backfilling and Test Results:

Fill was placed in approximately 8-inch thick lifts, moisture conditioned as necessary, and compacted to a minimum of 90% relative compaction in the planter areas and 95% relative compaction in the parking area.

Six inches of asphalt and eight inches of base were placed in the parking area. The base was compacted to a minimum 95% relative compaction. Compaction test results are provided in the Tables at the end of the text.

The relative compaction of backfill soil placed at the site, were determined by a nuclear gauge D2922 and the sand cone test method ASTM D1557-91. The fill was compacted with hand compactors, and vibratory compactor attached to a mini-excavator. The compaction tests were performed at one to two-foot vertical intervals. Where the minimum relative compaction was not achieved, the area was reworked, recompactd further and retested until the minimum relative compaction was achieved.

The results of the in-situ density testing and the maximum dry density/ optimum moisture content are shown on the attached Tables, Field Density Test Results at the end of the text. Test locations are shown on the attached Compaction Test Location Plot Plan (Plate 1).

Conclusions & Recommendations:

Approximately 2 to 4 feet of compacted fill was placed in the planter areas and less than one foot of import compacted fill was placed under the pavement section in the parking area. At two localized areas along the north side of the site, the depth of the cleanup excavation was up to 6 feet. Fill placed in the planter areas was compacted to a minimum 90% relative compaction, and fill placed in the parking area was compacted to a minimum 95% relative compaction.

Based on the results of our field observation and density testing, it is our professional opinion that the earthwork and backfill operations as discussed in this report, in the areas discussed herein, and during the period covered by this report were performed in general conformance with the project plans and Gas Company's requirements.

The 3 to 4 feet backfill placed in the planters is considered non structural fill, and the fill placed in the parking area, which is less than a foot, placed on top of the native soil, is considered secondary structural fill to support the asphalt pavement.

A geotechnical investigation should be performed for any future structures in these areas.

Limitations:

The services provided as described in this report include professional opinions and judgment based on the data collected during our field observation. Our conclusions are limited to conditions actually observed. The services performed as described herein have been performed in general accordance with generally accepted geotechnical engineering practice. No other warranty, expressed or implied, is made. The conclusions presented herein apply to observation and testing of grading and backfill operations performed during the period covered by this report.

Any construction work subsequent to this period should be performed in conjunction with appropriate observation and testing.

If you have any questions regarding the content of this report, please do not hesitate to contact us. This opportunity to be of professional service is greatly appreciated.

Sincerely,
Geotechnical Soilutions, Inc.
Mesrop A. Mesrop
RGE 2561

Attachment:
Plot Plan (Plate 1)
Max Density Graphs

TABLE 1
 Compaction Test Results of Import Soil

Test No.	*Test Depth Below Ground Surface (ft)	Date	Dry Density (pcf)	Moisture Content (%)	Maximum Dry Density (pcf) / Optimum Moisture %	Relative Compaction (%)	Comments
1	0.5	09/26/13	116.7	8.8	129.4/7.3	90	Pass (Planter)
2	0.5	09/26/13	115.9	7.0	129.4/7.3	90	Pass (Planter)
3	0.5	09/26/13	111.8	8.6	129.4/7.3	86	Fail (Planter)
4	0.5	09/26/13	115.9	9.5	129.4/7.3	90	Pass, retest of 3 (Planter)
5	0.5	09/27/13	118.6	5.0	129.4/7.3	92	Fail (Parking)
6	0.5	09/27/13	116.8	6.2	129.4/7.3	90	Pass (Planter)
7	0.5	09/27/13	127.2	6.1	129.4/7.3	98	Pass, retest of 5 (Parking)
8	0	12/03/13	123.8	9.0	129.5/8.7	96	Pass (Parking)
9	0	12/03/13	125.0	7.0	129.5/8.7	97	Pass (Parking)
10	0	12/03/13	126.9	7.0	129.5/8.7	98	Pass (Parking)
11	0	12/04/13	123.1	8.0	129.5/8.7	95	Pass (Parking)
12	0	12/04/13	123.9	8.0	129.5/8.7	96	Pass (Planter)
13	0	12/04/13	124.5	8.0	129.5/8.7	96	Pass (Planter)
14	0	12/09/13	123.0	7.2	129.5/8.7	95	Pass (Planter)
15	2	12/10/13	124.7	8.2	129.5/8.7	96	Pass (Planter)
16	3	12/11/13	116.5	6.7	129.5/8.7	90	Pass (Planter)
17	2	12/11/13	117.4	6.8	129.5/8.7	91	Pass (Planter)
18	0	12/12/13	116.8	6.0	129.5/8.7	90	Pass (Planter)
19	0	12/12/13	118.2	6.2	129.5/8.7	91	Pass (Planter)
20	2	12/13/13	125.1	7.2	129.5/8.7	97	Pass (Planter)
21	2.5	12/17/13	121.2	7.7	129.5/8.7	94	Pass (Planter)
22	1.5	12/17/13	121.0	7.9	129.5/8.7	93	Pass (Planter)





*In the Planter areas the ground surface is the actual ground surface (dirt), where in the parking areas the ground surface is the subgrade level below the base indicated as 0 Elevation.

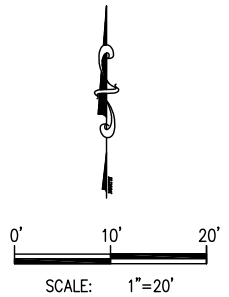
TABLE 2
 Compaction Test Results of Base Material

Test No.	Test Depth Below Ground Surface (ft)	Date	Dry Density (pcf)	Moisture Content (%)	Maximum Dry Density (pcf) / Optimum Moisture %	Relative Compaction (%)	Comments
1	Base	01/09/14	133.6	5.4	136.5/6.5	98	pass
2	Base	01/09/14	134.0	4.3	136.5/6.5	98	pass
3	Base	01/09/14	133.5	5.6	136.5/6.5	98	pass
4	Base	01/09/14	133.7	4.1	136.5/6.5	98	pass
5	Base	01/09/14	132.5	6.0	136.5/6.5	97	pass
6	Base	01/09/14	132.3	5.4	136.5/6.5	97	pass

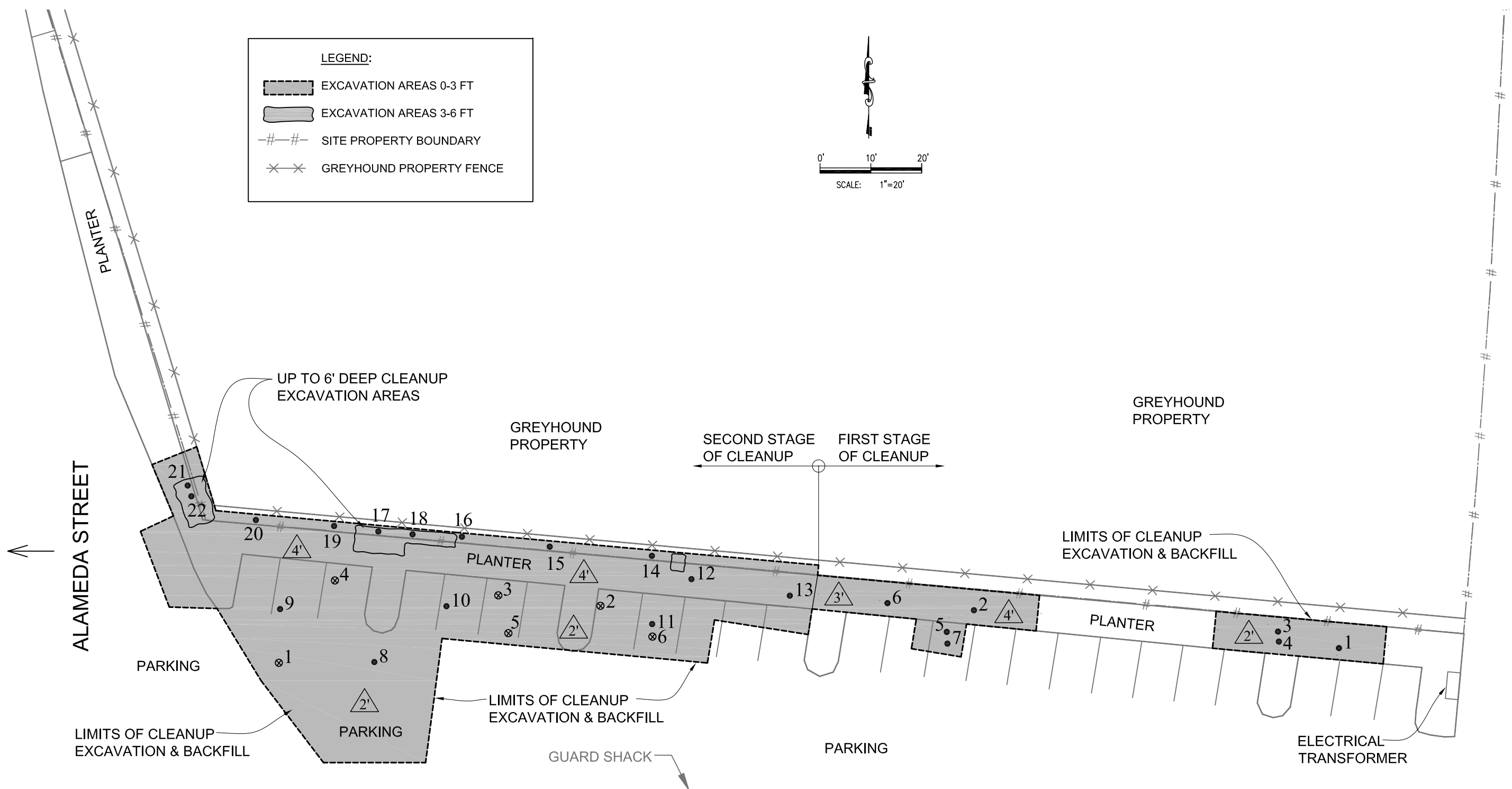
APPENDIX

LEGEND:

-  EXCAVATION AREAS 0-3 FT
-  EXCAVATION AREAS 3-6 FT
-  SITE PROPERTY BOUNDARY
-  GREYHOUND PROPERTY FENCE



SCALE: 1"=20'



KEY:

- 19 SOIL BACKFILL COMPACTION TEST
- ⊗4 BASE COMPACTION TEST
- △2' CLEANUP EXCAVATION DEPTH MEASURED FROM GROUND SURFACE

NOTE:

THE BASE MAP IS TAKEN FROM PARSONS FIGURE 3, DATED JANUARY 13, 2014

732 SOUTH ALAMEDA

SOUTHERN CALIFORNIA GAS COMPANY		
FORMER ALAMEDA STREET MGP SITE		
SCALE: 1" = 20'	DATE: 1 - 24 - 14	JOB No. GS 6106
COMPACTION TEST LOCATION		
Geotechnical Soilutions, Inc. 501 SOUTH FAIRFAX AVE., SUITE 101 LOS ANGELES, CA 90036		PLATE 1

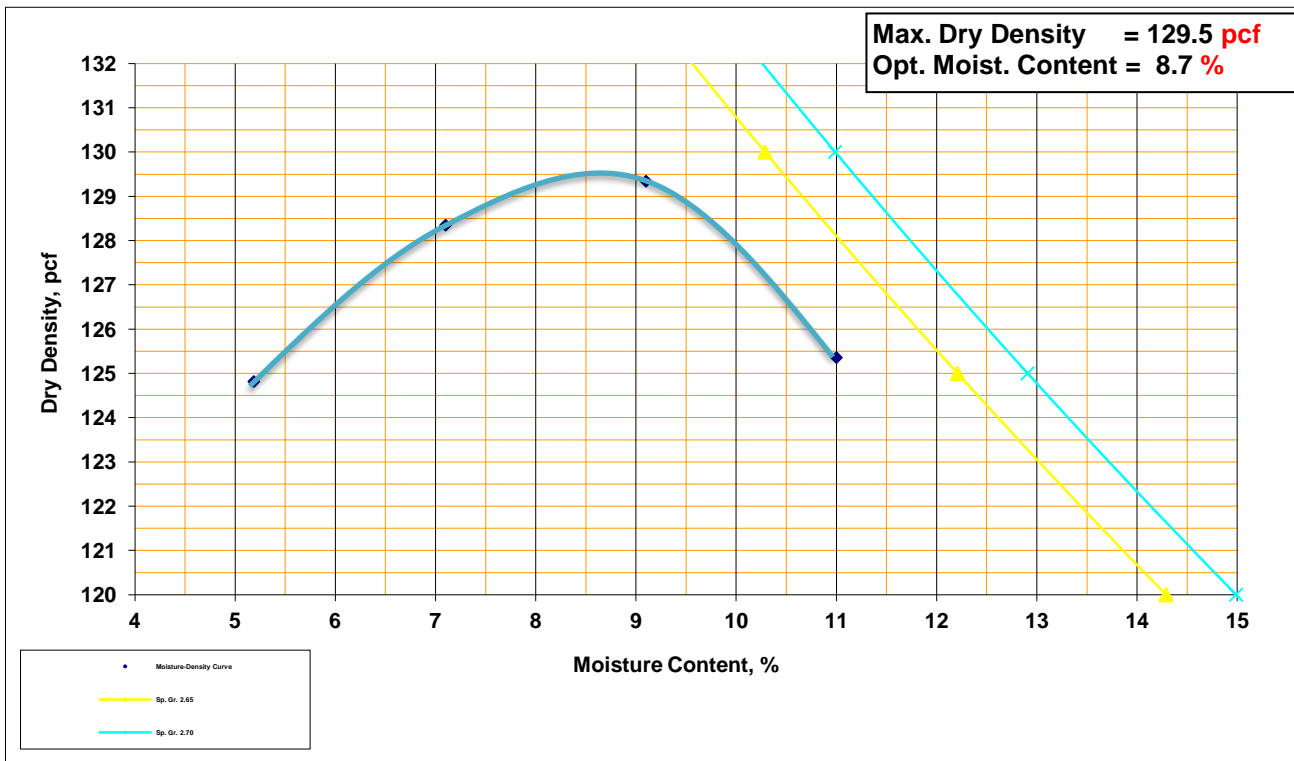
Laboratory Compaction Characteristic of Soil Using Modified Effort ASTM D1557

Project: Parsons, Gas Company
 Address: Alameda MGP Site

Job No.: **GS 6106A**
 Date: 11/23/2013
 Date Sampled: 11/21/2013
 Date Tested: 11/23/2013
 Tested By: VD
 Sampled By: GSI

Material Source: Import Soil
 Sample Location:
 Depth:
 Sample Description: Silty sand
 Method: "B"

	0.0333		0.033	
Volume of Mold				
Weight of Wet Soil + Mold	4226.70	4320.00	4375.20	4345.50
Weight of Mold	2241.60	2241.60	2241.60	2241.60
Weight of Wet Soil	4.38	4.58	4.70	4.64
Wet Density	131.3	137.5	141.1	139.1
Moisture Content Determination:				
Wet Weight + Tare	759.3	764.4	757.1	1322.3
Dry Weight + Tare	744.3	743.9	731.9	1236.4
Weight Loss	15.0	20.5	25.2	85.9
Weight of Tare	455.1	455.1	455.1	455.1
Weight of Dry Soil	289.2	288.8	276.8	781.3
Moisture Content, %	5.2	7.1	9.1	11.0
Dry Density, pcf	124.8	128.3	129.3	125.4



GEOTECHNICAL SOILUTION INC

Project: Parsons, Gas Company
 Site Loc.: Alameda MGP Site

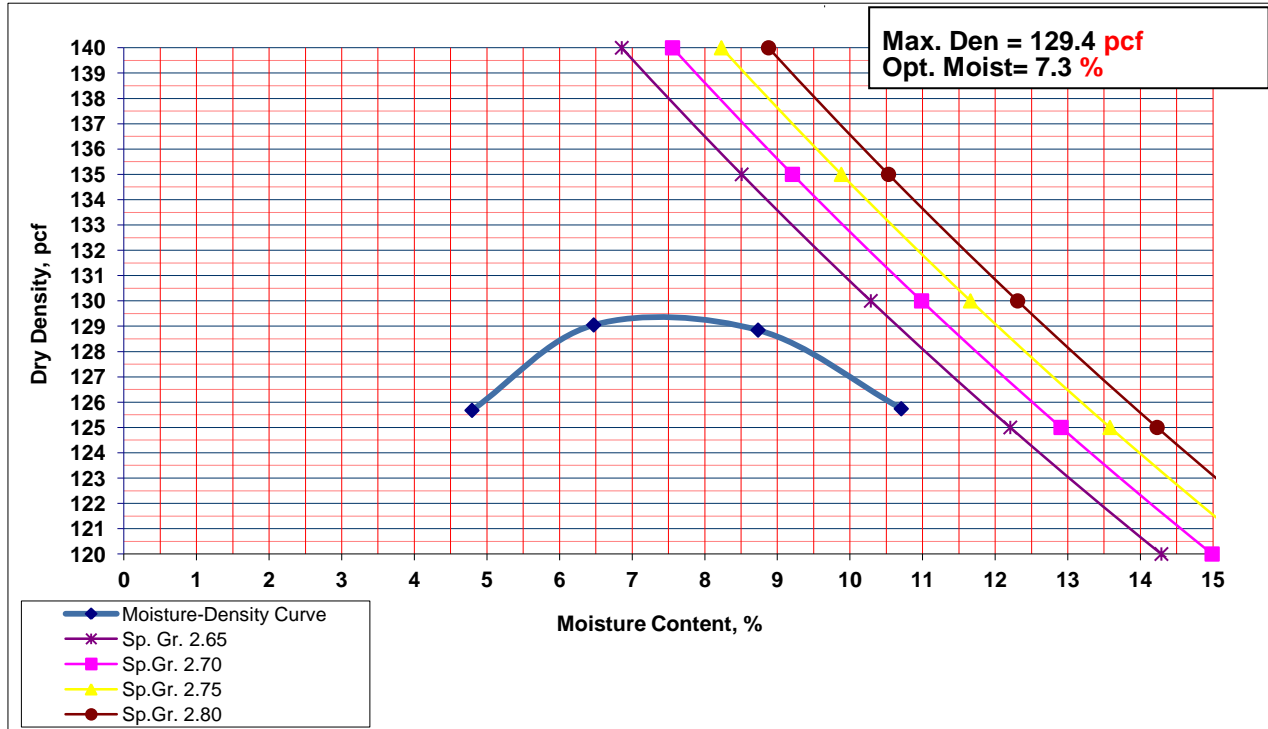
Job No.: GS 6106A
 Date Sampled: 9/15/2013
 Date Tested: 9/22/2013
 Tested By: RT
 Sampled By: RT

Depth:
 Sample Location: Import Soil
 Sample Description: Silty sand

Remarks:

Method "B"

	0.0333		0.033	
Volume of Mold	8.84	9.03	9.12	9.09
Weight of Wet Soil + Mold	4.45	4.45	4.45	4.45
Weight of Mold	4.39	4.58	4.67	4.64
Weight of Wet Soil	131.7	137.4	140.1	139.2
Moisture Content Determination:				
Wet Weight + Tare	416.3	422.0	489.5	546.0
Dry Weight + Tare	400.0	400.0	455.0	499.0
Weight Loss	16.3	22.0	34.5	47.0
Weight of Tare	60.0	60.0	60.0	60.0
Weight of Dry Soil	340.0	340.0	395.0	439.0
Moisture Content, %	4.8	6.5	8.7	10.7
Dry Density, pcf	125.7	129.0	128.8	125.7



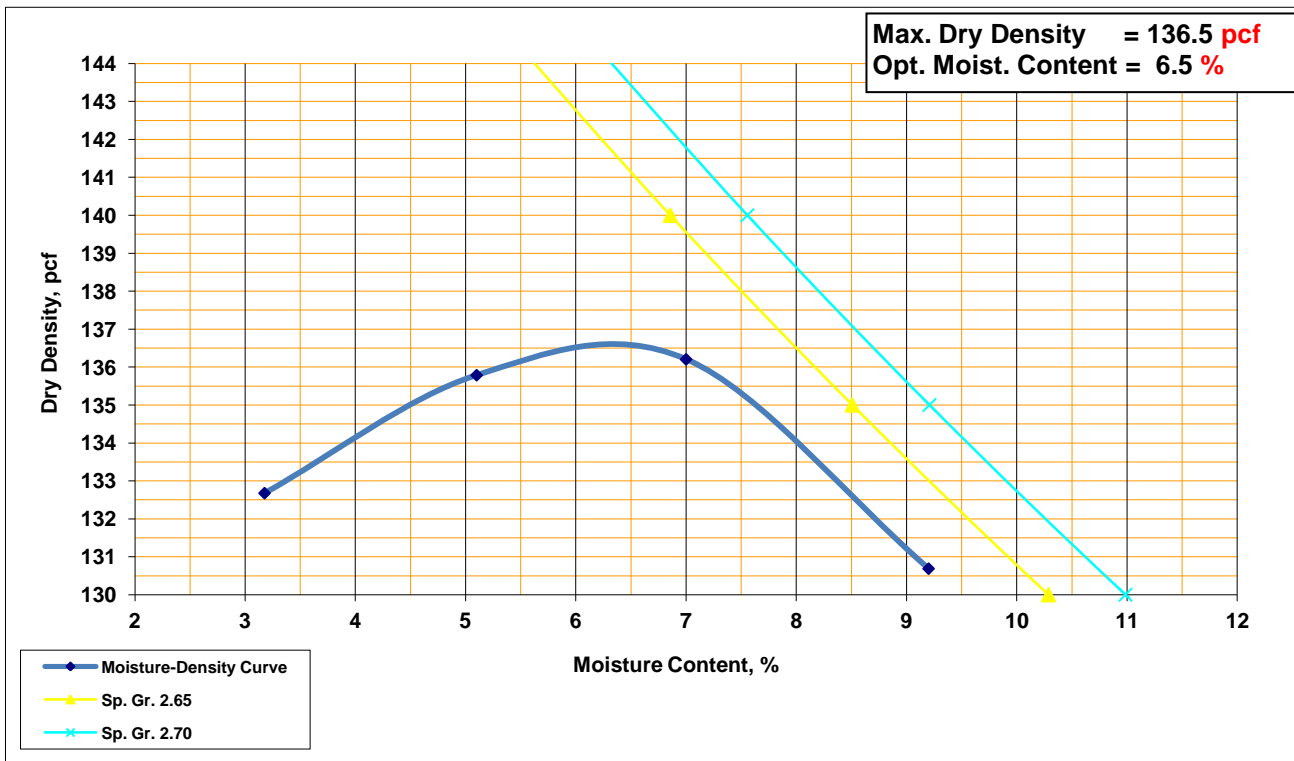
Laboratory Compaction Characteristic of Soil Using Modified Effort ASTM D1557

Project: Parsons, Gas Company
 Address: Alameda MGP Site

Job No.: GS 6106A
 Date: 1/9/2014
 Date Sampled: 1/9/2014
 Date Tested: 1/9/2014
 Tested By: VD
 Sampled By: GSI

Reference No:
 Material Source: Hanson
 Sample Location: Irwindale Crushed Agg
 Depth:
 Sample Description: Base Material (CAB)
 Remarks: Method "C"

	0.0750		0.033	
Volume of Mold				
Weight of Wet Soil + Mold	7457.00	7655.00	7758.00	7655.00
Weight of Mold	2800.00	2800.00	2800.00	2800.00
Weight of Wet Soil	10.27	10.70	10.93	10.70
Wet Density	136.9	142.7	145.7	142.7
Moisture Content Determination:				
Wet Weight + Tare	715.0	747.7	766.1	766.8
Dry Weight + Tare	707.0	733.5	745.8	740.5
Weight Loss	8.0	14.2	20.3	26.3
Weight of Tare	455.1	455.1	455.1	455.1
Weight of Dry Soil	251.9	278.4	290.7	285.4
Moisture Content, %	3.2	5.1	7.0	9.2
Dry Density, pcf	132.7	135.8	136.2	130.7



**Los Angeles Building and Safety Grading Department - Comments on Compaction
Report**



City of Los Angeles
COMPACTION REPORT CORRECTION LIST

LOG# 83254 DATE 2-25-14 COMPACTION FILE - 5
JOB ADDRESS 732 S. ALAMEDA ST DISTRICT OFFICE METRO
TRACT 52046-01 COUNTY REF. #
BLOCK PERMIT No. 13030-10000-04671
LOT 3 ARB
USE OF FILL: SECONDARY STRUCTURAL FILL
REPORT PREPARED BY: GEOTECHNICAL SOLUTIONS INC. DATED 1-24-14
REPORT #: GS 6106A DATED
OVERSIZED DOCUMENTS X-REF DATED
REVIEWED BY JOHNNY KAZARIAN TELEPHONE 213-482-0394

The compaction report(s) have been reviewed by the Grading Section of the Department and you are advised that the approval of the report(s) is withheld for the reasons hereinafter set forth. The approval of the reports will not permit the violation of any section of the Building Code, or other local ordinance or state law.

NOTE: Numbers in parenthesis () refer to Code sections of the 1998 edition of the California Building Code, Information Bulletin (P/BC).

INSTRUCTIONS

- Corrections with circled item numbers apply to this report review. 3, 13
• Submit three copies of the report to the grading section. At least one copy of the report shall be an original with wet signatures.

- 1. Address and legal description of the site, and the grading permit under which the work is authorized. (Address and legal description of the report, Certificate of Compliance, and grading permit shall be the same.)
g) building footprints and adjacent structures/sidewalks, etc.;
h) toe and top of slopes;
i) subsurface cross sections required at
2. Plot plan with:
a) north arrow & scale;
b) showing location limits of fill;
c) showing depth of fill;
d) location of in-place density tests;
e) location of retaining walls and their subdrains;
f) property boundaries; and streets;
(3) Statement that inspection and approval by the soils engineer of:
a) the bottom of excavation before placing the fill;
b) subdrains before placing gravel backfill. (108.9 and 7011.3)

4. Statement of purpose and use of fill: (primary structural for supporting footings, secondary structural for supporting walkways/paving, non-structural for landscaping, etc.)
5. Description of each of the following:
 - a) Materials encountered at the bottom of the excavation;
 - b) Preparation of the bottom prior to placement of fill;
 - c) Fill/backfill placement, and preparation;
 - d) Method of mechanical compaction;
 - e) Identify fill material used with Unified Soil Classification System, maximum dry density, and optimum moisture;
 - f) Moisture content control method and results;
 - g) Thickness of the uncompacted fill lifts (typically 6-8 inches).
6. Results of all density tests with applicable ASTM or UBC standard designation numbers, compaction standard, and depths.
7. _____ is not on the list of City-Approved Soil Testing Laboratories. Call the Department's Materials Control Division (213)977-6907 for information on licensing procedures.
(P/BC 2001-58)
8. Soils engineer may employ a City Approved Laboratory to perform the testing, if the Department is provided with: a letter of responsibility, stating that the soils engineer concurs with the test data and results, and accepts responsibility for using it. A copy of the laboratory report signed and stamped by the laboratory engineer shall also be provided.
9. Field tests should be taken at every two vertical feet or for every 500 cubic yards of fill placed, whichever is more restrictive.
10. Test results showing less than required relative compaction (90%, 92%, 95%, or higher percentage if recommended to, and approved, by the Department) are not acceptable.
11. Description of removal and recompaction of the unacceptable fill and its retesting shall be included.
12. Statement that nuclear testing was performed in conformance with P/BC 2001-28.

13. At least one sandcone test (A.S.T.M. 1556) shall be taken for each five nuclear test (A.S.T.M. 6938-08).
14. Recommended bearing capacities and minimum embedments of footings in compacted fill (primary structural fill).
15. Expansion index testing shall be provided or recommendations for special design for highly expansive soil (supporting material is Class of Material No.5 in Table 18-I-A).
16. Where design values exceed those shown in Table 18-1-A and are not justified by an approved soils investigation report, additional tests for maximum dry density, moisture content, direct shear tests, and consolidation may be required. Where support may be provided by import materials additional tests may be required.
17. As-built subsurface cross sections and shear test results conducted on undisturbed samples taken during grading for buttress fills and slopes steeper than 2:1.
18. A Certificate of Compliance that is completed, signed, and sealed by the Soils Engineer (correct address and legal description shall match permit).
19. Attach a copy of the Department Approval letter for the Soils Investigation and a single copy of the previously approved Soils Investigation Report.

ADDITIONAL COMMENTS

Geotechnical Soilutions Inc. – Response to Comments on Compaction Report by the Los Angeles Building and Safety Grading Department

Dr. Shala Craig
100 West Walnut Street
Pasadena, CA 91124

Subject: Response to City of Los Angeles Compaction Report Correction List, dated February 25, 2014, Log # 83254, for Gas Company Alameda MGP Environmental Cleanup project in the Planter and Parking, at 732 South Alameda Street, Los Angeles, California.

Reference: Compaction Observation and Testing Report during Environmental Cleanup Former Alameda Street MGP Site at 732 South Alameda Street, Los Angeles, California, by Geotechnical Soilutions Inc., report dated January 24, 2014, GS 6106A.

Dear Dr. Craig:

We prepared this letter in response to questions raised in the above referenced City review letter. The responses are as follows:

Item 3a:

Statement that inspection and approval by the soils engineer of:

- a) The bottom of the excavation before placing the fill.

Response 3a:

The bottom of the environmental cleanup excavation in the parking areas exposed dense native soil consists of silty sand. Less than one foot of compacted fill was placed on top of the native soil and was compacted to 95 percent relative compaction. We have inspected and approved this area to be considered as secondary structural fill to support (replace) the asphalt pavement. This item is addressed in our compaction report dated January 24, 2014, page 3, under Conclusions and Recommendations, third paragraph.

Item 13:

At least one sandcone test shall be taken for five nuclear tests.

Response 13:

The relative compaction of all the backfill soil placed at the site was determined by sand cone test method. The relative compaction of the base under the asphalt pavement was determined by nuclear gauge.

We hope we answered the reviewer's questions satisfactorily. If you have any questions or need additional information, please contact us.

Sincerely,
Geotechnical Soilutions, Inc
Mesrop Mesrop GE

Attachment D

Air Monitoring Logs

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 12-16-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:15	0.0			Prep for EX-N	1:30	0.0			Resuming EX-N
7:30	0.0			- - -	2:45	0.0			EX-N Zone
7:45	0			- - -	2:00	0.0			From 3'
8:00	0.0			- - -	2:15	0.0			- - -
8:15	0.0			- - -	2:30	0.0			From 2.5'
8:30	0.0			Resuming EX-N	2:45	0.0			
8:45	0.0			West St Area	3:00	0.0			
9:00	0.0			- - -	3:15	0.0			
9:15	0.0			- - -	3:30				
9:30	0.0			- - -					
9:45	0.0			From 1'					
10:00	0.0			From 2'					
10:15	0.0			- - -					
10:30	0.0			- - -					
10:45	0.0			- - -					
11:00				Lunch					
11:45	0.0			Resuming EX-N					
12:00	0.0			EX-N Zone					
12:15	0.0			- - -					
12:30	0.0			- - -					
12:45	0.0			- - -					
1:00	0.0			EX-N on Roll					
1:15	0.0			- - -					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan.

In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature:

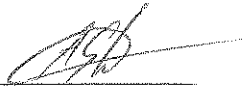
Date: 12-16-13

NOISE MONITORING LOG

Former Alameda MGP
 732 S. Alameda Street
 Los Angeles, CA 90021

Monitored by: Ashot S.
 Monitored Equipment: SLM
 Date: 12-16-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	By the Gate	70	S. Deere
8:00	By the Gate	72	S. Deere
8:30	West St. Area	73	S. Deere, CAT 305.5E
9:00	- 11 -	75	- 11 -
9:30	- 11 -	75	- 11 -
10:00	- 11 -	77	- 11 -
10:30	- 11 -	76	- 11 -
11:00	- 11 -	-	- 11 -
11:45	EX-A Zone	71	S. Deere, CAT 305.5E
12:00	- 11 -	74	- 11 -
12:30	- 11 -	74	- 11 -
1:00	- 11 -	72	S. Deere.
1:30	- 11 -	75	S. Deere - CAT 305.5E
2:00	- 11 -	77	- 11 -
2:30			
3:00			
3:30			

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 12-13-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:15	0.0			Begin. of Ex-1					
7:30	0.0			West Station A.					
7:45	0.0			- 11 -					
8:00	0.0			- 11 -					
8:15	0.0			- 11 -					
8:30	0.0			From 4'					
8:45	0.0			- 11 -					
9:00	0.0			From 4.5'					
9:15	0.0			- 11 -					
9:30	0.0			- 11 -					
9:45	0.0			- 11 -					
10:00	0.0			- 11 -					
10:15	0.0			On Hold Moving					
10:30	0.0			Resuming EX-1					
10:45	0.0			EX-1 20m					
11:00	—			Lunch					
11:30	0.0			Resuming EX-1					
11:45	0.0			EX-1 20m					
12:00	0.0			End of Ex-1 for the day.					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature:


Date: 12-13-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashraf S.
Monitored Equipment: SLM
Date: 12-13-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	West Station / EX-4 Zone	72	CAT, S. Deere
8:00	- 11 -	72	- 11 -
8:30	- 11 -	77	- 11 -
9:00	- 11 -	74	- 11 -
9:30	- 11 -	70	CAT
10:00	- 11 -	75	CAT, S Deere
10:30	- 11 -	75	- 11 -
11:00	Lunch	—	—
11:30	EX-11 Zone	70	CAT, S Deere
12:00	- 11 -	71	CAT
12:30	By the Gate	78	CAT, KOMATSU
1:00	- 11 -	77	- 11 -
1:30	West Station Area	78	- 11 -
2:00	- 11 -	73	KOMATSU
2:30	- 11 -	75	KOMATSU, CAT
3:00	- 11 -	73	KOMATSU
3:30	End of the day	—	—

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 12-12-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:15	0.0			Beginning of EX-A					
7:30	0.0			EX-A Zone					
7:45	0.0			-11-					
8:00	0.0			-11-					
8:15	0.0			From 3.5'					
8:30	0.0			-11-					
8:45	0.0			-11-					
9:00	0.0			From 4'					
9:15	0.0			-11-					
9:30	0.0			From 4.5'					
9:45	0.0			-11-					
10:00	0.0			From 5'					
10:15	0.0			-11-					
10:30	0.0			-11-					
10:45	0.0			-11-					
11:00	—			Lunch					
11:30	0.0			Resuming EX-A					
11:45	0.0			EX-A Zone					
12:00	0.0			-11-					
12:15	0.0			-11-					
12:30	0.0			End of EX-A					
12:45	0.0			EX-A Area					
1:00	—			Start time back filling					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan.

In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: _____


Date: 12-12-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashot S.
Monitored Equipment: SLM
Date: 12-12-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	EX-A Zone	72	J. Deere, CAT 305
8:00	- 11 -	75	- 11 -
8:30	- 11 -	73	- 11 -
9:00	- 11 -	73	- 11 -
9:30	- 11 -	75	- 11 -
10:00	- 11 -	77	- 11 -
10:30	- 11 -	77	- 11 -
11:00	—	—	—
11:30	EX-A Zone	72	J. Deere, CAT 305
12:00	- 11 -	70	- 11 -
12:30	Ex-ent Area	64	—
1:00	Backfilling (Ex-ent Area)	71	J. Deere, Komatsu
1:30	- 11 -	72	- 11 -
2:00	- 11 -	74	- 11 -
2:30	Main Gate	67	—
3:00	Land Area	64	—
3:30	End of the day	—	—

Signature: 

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashot S.
Monitored Equipment: SLM
Date: 12-11-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	Ex-11 Zone	72	S. Deere 332, CAT 305
8:00	-11-	72	-11-
8:30	-11-	74	-11-
9:00	-11-	75	-11-
9:30	-11-	77	-11-
10:00	-11-	64	o
10:30	East station	71	S. Deere, CAT
11:00	lunch	-	o
11:45	Ex of Area	70	S. Deere
12:00	Back filling Areas	72	S. Deere, Komatsu.
12:30	-11-	70	-11-
1:00	-11-	71	-11-
1:30	-11-	77	-11-
2:00	-11-	76	-11-
2:30	-11-	66	-11-
3:00	-11-	65	o
3:30	end of the day	-	o

Signature: 

Page 1 of 1

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 12-10-18	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:30	0.0			Beginning of EX-10					
7:45	0.0			EX-10 20cm					
8:00	0.0			-11-					
8:05	0.0			-11-					
8:30	0.0			-11-					
8:45	0.0			-11-					
9:00	0.0			EX-10 on Mohl					
9:15	0.0			From the pile					
9:30	0.0			Reading EX-10					
9:45	0.0			From 2'					
10:00	0.0			From 2.5'					
10:15	0.0			From 3'					
10:30	0.0			End of EX-10					
10:45	0.0			cleanup					
11:00	---			lunch					
11:45	0.0			EX-10 Area					
12:00				-11-					
No more EX-10 for today									

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

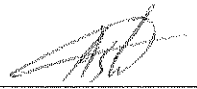
Signature: _____ *AS* _____ Date: 12-10-18

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Asbot S.
Monitored Equipment: SLM
Date: 12-10-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	Ex n zone	73	CAT 305 and J. Deere
8:00	- 11 -	77	- 11 -
8:30	- 11 -	75	- 11 -
9:00	- 11 -	68	0
9:30	- 11 -	70	CAT 305
10:00	- 11 -	77	CAT 305, J. Deere
10:30	- 11 -	75	J. Deere
11:00	Garcho	—	0
11:45	EX. of Area	72	Komatsu
12:00	Backfill Area W	72	Komatsu, J. Deere
12:30	- 11 -	80	- 11 -
1:00	- 11 -	79	- 11 -
1:30	Backfill Area S	77	- 11 -
2:00	- 11 -	76	- 11 -
2:30	- 11 -	74	- 11 -
3:00	End of Area	—	0
3:30	End of the day	—	0

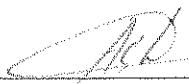
Signature: 

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Asht S.
Monitored Equipment: SLM
Date: 12-9-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	Ex. 11 Zone	77	CAT, S. Deere
8:00	- 11 -	75	- 11 -
8:30	- 11 -	77	- 11 -
9:00	- 11 -	74	- 11 -
9:30	- 11 -	73	- 11 -
10:00	- 11 -	68	Ø
10:30	- 11 -	76	CAT, S. Deere
11:00	Lunch	—	Ø
12:00	By the Gate	71	Komatsu, S. Deere
12:30	- 11 -	77	- 11 -
1:00	- 11 -	71	- 11 -
1:30	- 11 -	70	Komatsu
2:00	- 11 -	73	Komatsu, S. Deere
2:30	North Area	77	- 11 -
3:00	- 11 -	70	Ø
3:30	End of the day	—	Ø

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 11-22-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Reading	Hexane Factor	Adjusted Reading			Every 15 min.	Reading	Hexane Factor	
7:15	0.0			Prep for Exca	1:30	0.2			From 2.5'
7:30	0.0			-11-	1:45	0.0			-11-
7:45	0.0			beginning of Exca	2:00	0.0			End of Exca
8:00	0.0			EXCA ZONE	2:15	0.0			cleanup
8:15	0.0			-11-	2:30	0.0			-11-
8:30	0.0			-11-	2:45	0.0			-11-
8:45	0.0			-11-	3:00	0.0			Prep for next day
9:00	0.0			-11-	3:15	0.0			-11-
9:15	0.0			EXCA ON HOLD	3:30				End of the day
9:30	0.0			-11-					
9:45	0.0			-11-					
10:00	0.0			Resuming Exca					
10:15	0.0			EXCA ZONE					
10:30	0.0			-11-					
10:45	0.0			EXCA ON HOLD					
11:00				cleanup					
11:45	0.0			loading for					
12:00	0.0			-11-					
12:15	0.0			Resuming Exca					
12:30	0.0			EXCA ZONE					
12:45	0.0			-11-					
1:00	0.0			-11-					
1:15	0.1			From 2'					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature:

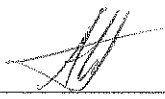
Date: 11-22-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashraf S. M. Khan
Monitored Equipment: SLM
Date: 11-22-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	EX-N Zone	70	CAT, J. Deere
8:00	- " -	71	- " -
8:30	- " -	72	- " -
9:00	- " -	73	- " -
9:30	- " -	70	J. Deere
10:00	- " -	70	J. Deere
10:30	- " -	75	CAT & J. Deere
11:00	lunch	-	-
11:45	Loading Area	72	J. Deere
12:00	- " -	71	- " -
12:30	EX-N Zone	73	CAT
1:00	- " -	77	CAT, J. Deere
1:30	- " -	75	- " -
2:00	- " -	68	-
2:30	EX-ed Area	65	-
3:00	Main Gate	62	-
3:30	-	-	End of the day

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 11-20-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Reading	Hexane Factor	Adjusted Reading			Every 15 min.	Reading	Hexane Factor	
7:15	0.0		Ex-01	Area	1:30	0.0		East Station	
7:30	0.0		Removed	soil	1:45	0.0		EX-01/Hand dig.	
7:45	0.0		Beginning	of Ex-01	2:00	0.0		- 11 -	
8:00	0.0		- 11 -		2:15	0.0		- 11 -	
8:15	0.0		- 11 -		2:30	0.0		End of Ex-01.	
8:30	0.0		Ex-01 on	Hold.	2:45	0.0		cleaner	
8:45	0.0		- 11 -		3:00	0.0		Prep for Rain	
9:00	0.0		Resuming	EX-01	3:15	0.0		- 11 -	
9:15	0.0		EX-01,	Hand digger	3:30			End of the day	
9:30	0.0		- 11 -						
9:45	0.0		- 11 -						
10:00	0.0		- 11 -						
10:15	0.0		- 11 -						
10:30	0.0		- 11 -						
10:45	0.0		Ex-01	Hold.					
11:00				unch					
11:45	0.0		Hand	digger					
12:00	0.0		- 11 -						
12:15	0.0		- 11 -						
12:30	0.0		- 11 -						
12:45	0.0		- 11 -						
1:00	0.0		- 11 -						
1:15	0.0		- 11 -						

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: AS

Date: 11-20-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashot Shteyn
Monitored Equipment: SLM
Date: 11-20-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	By the Gate	70	⊖
8:00	Ex-n Zone	73	CAT
8:30	- -	78	CAT, S. Deere / Hand diggers
9:00	- -	75	CAT
9:30	- -	77	CAT, S. Deere
10:00	- -	77	- -
10:30	- -	71	⊖
11:00	_____	_____	lunch
11:45	NE Area	67	⊖
12:00	- -	62	⊖
12:30	- -	64	⊖
1:00	By the Gate/E. St.	70	CAT
1:30	- -	71	S. Deere
2:00	- -	78	S. Deere, CAT
2:30	- -	62	⊖
3:00	- -	64	⊖
3:30	End of the day.	—	⊖

Signature: 

Rule 1166 Soil Monitoring Records

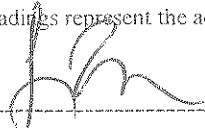
Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 11/19/13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: L. [Signature]	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Reading	Hexane Factor	Adjusted Reading			Every 15 min.	Reading	Hexane Factor	
7:30	0.0			LOADING AREA	7:30	0.1			EXN AREA
7:45	0.0			EXN-AREA	7:45	0.0			" "
8:00	0.0			LOADING AREA	8:00	0.2			" "
8:15	0.1			" "	8:15	0.1			LOADING AREA
8:30	0.0			EXN ZONE	8:30	0.0			EXCAVATOR BUCKET
8:45	0.1			" "	8:45	0.0			EXN ZONE
9:00	0.2			EXN AREA	9:00	0.0			LOADING A.
9:15	0.0			LOADING AREA	9:15	0.0			EXN AREA
9:30	0.1			" "	9:30	0.0			END OF THE
9:45	0.0			" "					SHIFT.
10:00	0.0			EXN-ZONE					
10:15	0.0			PERIMETER					
10:30	0.2			EXN-AREA					
10:45	0.1			EXCAVATOR BUCKET					
11:00	0.0			LUNCH B.					
11:30	0.1			EXN AREA					
11:45	0.0			" "					
12:00	0.0			EXCAVATOR BUCKET					
12:15	0.0			EXN ZONE					
12:30	0.3			PERIMETER					
12:45	0.2			LOADING A.					
1:00	0.0			" "					
1:15	0.1			EXN-ZONE					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: _____



Date: 11/19/13

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 11-18-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Reading	Hexane Factor	Adjusted Reading			Every 15 min.	Reading	Hexane Factor	
7:30	0.0		Ex. of Hexane		2:00	0.0		Ex. of Hexane	
7:45	0.0		- 11 -		2:15	0.0		- 11 -	
8:00	0.0		- 11 -		2:30	0.0		End of Ex. 1	
8:15	0.0		No Ex. on site		2:45	0.0		Close up	
8:30	0.0		- 11 -		3:00	0.0		- 11 -	
9:00	0.0		Beginning of Ex. 2		3:15	0.0		- 11 -	
9:15	0.0		Ex. 2 Zone		3:30	---		End of the day	
9:30	0.0		- 11 -						
9:45	0.0		- 11 -						
10:00	0.0		- 11 -						
10:15	0.0		- 11 -						
10:30	0.0		- 11 -						
10:45	0.0		- 11 -						
11:00	---		Lunch						
11:45	0.0		Resuming Ex. 2						
12:00	0.0		Ex. 2, Had digging						
12:15	0.0		- 11 -						
12:30	0.0		- 11 -						
12:45	0.0		- 11 -						
1:00	0.0		- 11 -						
1:15	0.0		- 11 -						
1:30	0.0		- 11 -						
1:45	0.0		- 11 -						

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: ASD

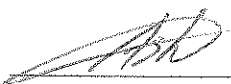
Date: 11-18-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashot Sakhyan
Monitored Equipment: SLM
Date: 11-18-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	Ex-Ed Area	75	CAT, J. Decra
8:00	- 11 -	75	- 11 -
8:30	- 11 -	77	- 11 -
9:00	EX-A Zone	77	- 11 -
9:30	- 11 -	78	- 11 -
10:00	- 11 -	73	CAT
10:30	- 11 -	71	CAT
11:00	Lunch	—	—
11:45	EX-A Zone	77	CAT, J. Decra
12:00	- 11 -	76	- 11 -
12:30	- 11 -	77	- 11 -
1:00	- 11 -	77	- 11 -
1:30	- 11 -	75	- 11 -
2:00	- 11 -	71	
2:30	- 11 -	64	—
3:00	- 11 -		—
3:30	End of shift		

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 11-15-17	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Reading	Hexane Factor	Adjusted Reading			Every 15 min.	Reading	Hexane Factor	
7:00	0.0		End of Area		7:15	0.0		Removing Asphalt	
7:15	0.0		- 11 -		7:30	0.0		- 11 -	
7:30	0.0		Loading Asphalt		7:45	0.0		- 11 -	
7:45	0.0		- 11 -		8:00	0.0		Loading Asphalt	
8:00	0.0		Beginning of EX-A		8:15	0.0		- 11 -	
8:15	0.0		EX-A Zone		8:30	0.0		- 11 -	
8:30	0.0		- 11 -		8:45	0.0		End of location	
8:45	0.0		- 11 -		9:00	0.0		EX-A Area	
9:00	0.0		- 11 -		9:15	0.0		- 11 -	
9:15	0.0		- 11 -		9:30	0.0		End of the day	
9:30	0.0		- 11 -		9:45	0.0		- 11 -	
9:45	0.0		Loading Asphalt		10:00	0.0		- 11 -	
10:00	0.0		- 11 -		10:15	0.0		EX-A Zone	
10:15	0.0		- 11 -		10:30	0.0		- 11 -	
10:30	0.0		- 11 -		10:45	0.0		- 11 -	
10:45	0.0		- 11 -		11:00	0.0		Gravel	
11:00	0.0		- 11 -		11:15	0.0		Loading Concrete	
11:15	0.0		- 11 -		12:00	0.0		- 11 -	
12:00	0.0		No EX-A on site		12:15	0.0		- 11 -	
12:15	0.0		- 11 -		12:30	0.0		- 11 -	
12:30	0.0		- 11 -		12:45	0.0		- 11 -	
12:45	0.0		- 11 -		1:00	0.0		- 11 -	

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature:

Date: 11-15-17
page 1 of 1

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashutosh Shukhyan
Monitored Equipment: SLM
Date: 11-15-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:00	By the bot/EXED Area	63	—
7:30	— 11 —	70	S. Deere
8:00	EX-n Zone	75	S. Deere, CAT
8:30	— 11 —	75	— 11 —
9:00	— 11 —	77	— 11 —
9:30	— 11 —	78	— 11 —
10:00	Loading Area	72	S. Deere
10:30	EX-n Zone	78	S. Deere, CAT
11:00	Lunch	—	—
11:30	Loading Area	75	S. Deere, CAT
12:00	— 11 —	71	— 11 —
12:30	— 11 —	69	— 11 —
1:00	West Station.	70	S. Deere
1:30	East Station	78	S. Deere, CAT
2:00	Loading Area	77	— 11 —
2:30	— 11 —	77	— 11 —
3:00	EXED Area	64	—
3:30	End of the day	—	—

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 11-14-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: MS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:00	—			Prep.	2:30	0.0			Loading Area
7:15	0.0			Loading 7'1'	1:45	0.0			—
7:30	0.0			Loading A.	2:00	0.0			End of Loading
7:45	0.0			—	2:15	0.0			Clean up
8:00	0.0			—	2:30	0.0			—
8:15	0.0			—	2:45	0.0			—
8:30	0.0			—	3:00	0.0			Prep for next day
8:45	0.0			Removal of EX	3:15	0.0			EX-ED Area
9:00	0.0			EX-a zone	3:30	0.0			End of the day
9:15	0.0			—					
9:30	0.0			By the East St.					
9:45	0.0			—					
10:00	0.0			—					
10:15	0.0			From 2'					
10:30	0.0			EX-a on Hold					
10:45	—			—					
11:00	—			Work					
11:30	0.0			EX-ed Area					
12:15	0.0			From 2'					
12:30	0.0			From 2.5'					
12:45	0.0			—					
1:00	0.0			—					
1:15	0.0			—					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature:

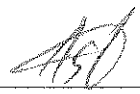
Date: 11-19-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashwini Sakthya
Monitored Equipment: SLM
Date: 11-14-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	Landing Area	75	S. Deere
8:00	- 11 -	77	- 11 -
8:30	- 11 -	77	- 11 -
9:00	Ex-a Zone	78	S. Deere CAT
9:30	- 11 -	74	CAT
10:00	- 11 -	73	CAT
10:30	East Station	66	0
11:00	Lunch	-	0
11:30	Ex-ed Area W. Station	65	0
12:00	By the Gate	71	S. Deere, CAT
12:30	Ex-a Zone	77	- 11 -
1:00	- 11 -	77	- 11 -
1:30	Landing Area	78	- 11 -
2:00	- 11 -	73	- 11 -
2:30	East Station	70	0
3:00	West Station	68	0
3:30	End of the day	-	0

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 11-13-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Reading	Hexane Factor	Adjusted Reading			Every 15 min.	Reading	Hexane Factor	
7:00	0.0			From Pile	1:15	0.0			EX-11 S.P.
7:15	0.0			EX-11 Area	1:30	0.0			-11-
7:30	0.0			Loading Asphalt	1:45	0.0			-11-
7:45	0.0			-11-	2:00	0.0			-11-
8:00	0.0			Loading TPS	2:15	0.0			-11-
8:15	0.0			1st tracer	2:30	0.0			End of EX-11
8:30	0.0			-11-	2:45	0.0			Moving equipment
8:45	0.0			2nd tracer	3:00	0.0			From the Air
9:00	0.0			-11-	3:15	0.0			Clean up
9:15	0.0			End of loading	3:30	---			End of the day
9:30	0.0			Prep. for EX-11					
9:45	0.0			EX-11 Zone					
10:00	0.0			-11-					
10:15	0.0			-11-					
10:30	0.0			Loading Concrete					
10:45	0.0			-11-					
11:00	---			Lunch					
11:45	0.0			Reburied area					
12:00	0.0			Loading TPS					
12:15	0.0			-11-					
12:30	0.0			-11-					
12:45	0.0			-11-					
1:00	0.0			End of loading					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: AS Date: 11-13-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Abel S. Reyes
Monitored Equipment: SLM
Date: 11-13-73

Time	Location	Noise Level (dB)	Equipment in Operation
7:00	By the Pile	70	S. Deere
7:30	- 11 -	70	- 11 -
8:00	Loading Area	68	- 11 -
8:30	- 11 -	71	- 11 -
9:00	- 11 -	74	S. Deere, CAT
9:30	Ex-n Area 2nd Palm.	75	- 11 -
10:00	- 11 -	75	- 11 -
10:30	- 11 -	77	- 11 -
11:00	Lunch	-	0
11:45	Loading Area	73	S. Deere
12:00	- 11 -	73	- 11 -
12:30	- 11 -	77	S. Deere, CAT
1:00	- 11 -	73	- 11 -
1:30	Ex-n Zone	77	CAT
2:00	- 11 -	78	CAT, S. Deere
2:30	- 11 -	72	S. Deere
3:00	Pile Area	65	0
3:30	End of the day	-	0

Signature: Abel S. Reyes

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 11-12-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:30	0.0			From the pile	1:45	0.0			From 2.5'
7:45	0.0			Prep to load.	2:00	0.0			From 3'
8:00	0.0			loading 1st ft.	2:15	0.0			EX-A on hole
8:15	0.0			- 11 -	2:30	0.0			Resuming EX-A
8:30	0.0			loading 2nd ft.	2:45	0.0			- 11 -
8:45	0.0			- 11 -	3:00	0.0			- 11 -
9:00	0.0			End of loading	3:15	0.0			End of EX-A
9:15	0.0			beginning of EX-A	3:30				End of the day
9:30	0.0			EX-A zone					
9:45	0.0			From 3'					
10:00	0.0			- 11 -					
10:15	0.0			- 11 -					
10:30	0.0			EX-A on hole					
10:45	0.0			From pile					
11:00				Lunch.					
11:35	0.0			resuming EX-A					
12:00	0.0			Gate Area					
12:15	0.0			loading area					
12:30	0.0			- 11 -					
12:45	0.0			EX-A, hand diggy					
1:00	0.0			- 11 -					
1:15	0.0			- 11 -					
1:30	0.0			- 11 -					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan.

In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: AS

Date: 11-12-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashutosh Shikhan
Monitored Equipment: SLM
Date: 11-12-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	By the pile	70	S. Deere
8:00	Loading Area	72	- 11 -
8:30	- 11 -	73	- 11 -
9:00	- 11 -	73	- 11 -
9:30	(SE) Excavation Area	76	S. Deere, CAT 305.
10:00	- 11 -	70	- 11 -
10:30	- 11 -	77	- 11 -
11:00	Lunch	—	—
11:35	West Station Area	72	CAT 305
12:00	Cake Area	70	- 11 -
12:30	Loading Ar	70	S. Deere
1:00	EX-A Zone	73	- 11 -
1:30	- 11 -	77	S. Deere, CAT
2:00	- 11 -	77	- 11 -
2:30	- 11 -	76	- 11 -
3:00	- 11 -	77	- 11 -
3:30	End of the day	—	—

Signature: 

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: AshA Shikhan
Monitored Equipment: SLM
Date: 11-1-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	loading Area	68	CAT, S. DARE
8:00	- 11 -	70	- 11 -
8:30	- 11 -	77	- 11 -
9:00	- 11 -	74	- 11 -
9:30	EX-A Zone	77	- 11 -
10:00	- 11 -	77	- 11 -
10:30	- 11 -	73	- 11 -
11:00	Wind	-	-
11:30	loading Ar.	72	S. DARE
12:00	- 11 -	70	- 11 -
12:30	- 11 -	72	- 11 -
1:00	EX-A Zone	75	S. DARE, CAT
1:30	- 11 -	75	- 11 -
2:00	- 11 -	75	- 11 -
2:30	- 11 -	73	- 11 -
3:00	East station	70	-
3:30	End of the day	-	-

Signature: AshA

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 11-8-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:30	0.0			From the P/L	1:30				Loading Ar
7:45	0.0			EX-ed Ar	1:45				End of loading
8:00	0.0			Loading Ar	2:00				Clearance
8:15	0.0			- 11 -	2:15				EX-a Zone
8:30	0.0			- 11 -	2:30				- 11 -
8:45	0.0			- 11 -	2:45				- 11 -
9:00	0.0			End of loading/P/L	3:00				End of EX-a
9:15	0.0			Beginning of EX-a	3:15				Moving Equipment
9:30	0.0			EX-a Zone	3:30				End of work day
9:45	0.0			- 11 -					
10:00	0.0			- 11 -					
10:15	0.0			- 11 -					
10:30	0.0			- 11 -					
10:45	0.0			- 11 -					
11:00				Break					
11:30				Prep for TTS					
11:45				- 11 -					
12:00				- 11 -					
12:15				Clearance					
12:30				- 11 -					
12:45				- 11 -					
1:00				2 nd round of Off Road					
1:15				Loading					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

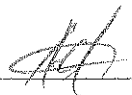
Signature: _____  Date: 11-08-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashley Shklyar
Monitored Equipment: SLM
Date: 11-8-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	By the Pipe	65	—
8:00	Loading Area	70	S. Deere 332
8:30	- 11 -	71	- 11 -
9:00	- 11 -	72	- 11 -
9:30	EX-N Zone	75	S. Deere, CAT 305
10:00	- 11 -	73	- 11 -
10:30	- 11 -	70	- 11 -
11:00	unch.	—	—
11:30	Prep For TBS, L.A.	68	—
12:00	Loading Area	71	S. Deere 332
12:30	- 11 -	73	S. Deere, CAT
1:00	- 11 -	77	- 11 -
1:30	- 11 -	75	- 11 -
2:00	- 11 -	74	S. Deere
2:30	EX-N Zone	72	CAT 305
3:00	- 11 -	72	- 11 -
3:30	End of the bag.	—	—

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 3000	Date: 11-7-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:15	0.0			Prep for Ex-n	2:00	0.0			Ex-n, 5' P.L.
7:30	0.0			Ex-n in Light Pole	2:15	0.0			- 11 -
7:45	0.0			Light Pole Area	2:30	0.0			End of Ex-n
8:00	0.0			By the Pole Tree	2:45	0.0			P.L.
8:15	0.0			- 11 -	3:00	0.0			Excavated Area
8:30	0.0			- 11 -	3:15	0.0			clean up
8:45	0.0			Ex-n in Hole	3:30	-			- 11 -
9:00	0.0			From the P.L.	3:45	-			- 11 -
9:15	0.0			Returning Ex-n	4:00	-			End of the day
9:30	0.0			From 2'					
9:45	0.0			- 11 -					
10:00	0.0			Ex-n in Hole					
10:30	0.0			clean up					
11:00	-			catch					
11:45	0.0			P.L. Area					
12:00	0.0			Prep to load					
12:15	0.0			- 11 -					
12:30	0.0			loading TPS					
12:45	0.0			- 11 -					
1:00	0.0			- 11 -					
1:15	0.0			End of loading					
1:30	0.0			Starting Ex-n					
1:45	0.0			From 1.5'					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: AS

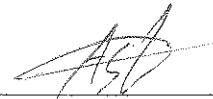
Date: 11-7-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashok Shikhan
Monitored Equipment: SLM
Date: 11-7-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	Light Pole (E)	70	CAT, J. Deere
8:00	- 11 -	75	- 11 -
8:30	- 11 -	70	- 11 -
9:00	EX-N Zone	77	- 11 -
9:30	- 11 -	73	- 11 -
10:00	Main Gate	65	⊙
10:30	street	63	⊙
11:00	Lunch.	—	⊙
11:45	By the Pile	72	CAT 305.
12:00	Loading Area	74	J. Deere 332 D
12:30	- 11 -	75	- 11 -
1:00	- 11 -	73	- 11 -
1:30	East Station Area	77	J. Deere & CAT 305
2:00	EX-N Zone	75	- 11 -
2:30	- 11 -	70	⊙
3:00	EX-ED Area	62	⊙
3:30	- 11 -	—	⊙
4:00	End of the day	—	⊙

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 11-6-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:15	0.0			Prep for Ex-n.	1:15	0.0			Hand Digging
7:30	0.0			beginning of Ex-n	1:30	0.0			" "
7:45	0.0			side-walk	1:45	0.0			" "
8:00	0.0			" "	2:00	0.0			End of Ex-n.
8:15	0.0			" "	2:15	0.0			Hand Digging
8:30	0.0			" "	2:30	0.0			" "
8:45	0.0			" "	2:45	0.0			End of digging
9:00	0.0			" "	3:00	0.0			clearance
9:15	0.0			EX-n Hold	3:15				" "
9:30	0.0			From the pit	3:30				End of the day
9:45	0.0			Main Gate					
10:00	0.0			Resuming Ex-n					
10:15	0.0			EX-n zone					
10:30	0.0			Hand Digging					
10:45	0.0			EX-n on Hold					
11:00				lunch					
11:30	0.0			Resuming ones.					
12:45	0.0			Moving Equip					
12:00	0.0			Starting New area of Ex					
12:15	0.0			East Area (Gate)					
12:30	0.0			EX-n zone					
12:45	0.0			From pit					
1:00	0.0			From 1.5'					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan.

In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: _____



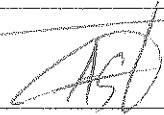
Date: 11-6-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashraf Shukhyan
Monitored Equipment: SLM
Date: 11-6-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	Main Gate Area	71	S. Deere 332, CAT
8:00	Sidewalk/West Station	70	- 11 -
8:30	- 11 -	68	- 11 -
9:00	- 11 -	75	- 11 -
9:30	- 11 -	65	o
10:00	EX-A Zone	73	S. Deere 332, CAT
10:30	- 11 -		S. Deere
11:00	Lunch	-	o
11:30	by the Lunch Area	70	S. Deere, CAT
12:00	East Station	73	- 11 -
12:30	- 11 -	75	- 11 -
1:00	EX-A Zone (Gate)	77	- 11 -
1:30	- 11 -	74	S. Deere 332
2:00	- 11 -	68	o
2:30	- 11 -	65	o
3:00	Main Gate Area	65	o
3:30	End of the log	-	o

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 3000	Date: 11-5-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:30	0.0			Prep to remove Asp	1:45	0.0			Main Center H
7:45	0.0			- 11 -	2:00	0.0			By the pile
8:00	0.0			Removing Asphalt	2:15	0.0			End of EX-11
8:15	0.0			- 11 -	2:30	0.0			Hand Digging
8:30	0.0			Loading Asphalt	2:45	0.0			- 11 -
8:45	0.0			- 11 -	3:00	0.0			Cleaner
9:00	0.0			Asphalt Removal	3:15	0.0			- 11 -
9:15	0.0			- 11 -	3:30				End of the day
9:30	0.0			2nd load of Asphalt					
9:45	0.0			Loading Area					
10:00	0.0			Asphalt Removal Area					
10:15	0.0			- 11 -					
10:30	0.0			3rd load Asphalt					
10:45	0.0			- 11 -					
11:00				Cleanup					
11:45	0.0			Removing Asp. Remo					
12:00	0.0			4th load Asphalt					
12:15	0.0			- 11 -					
12:30	0.0			Cleanup					
12:45	0.0			- 11 -					
1:00	0.0			- 11 -					
1:15	0.0			EX-11 by South A.					
1:30	0.0			- 11 -					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

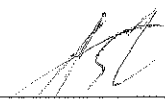
Signature:  Date: 11-5-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashot Shalbyan
Monitored Equipment: SLM
Date: 11-5-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	South East Area	73	J. Deere 332D & Cat 305
8:00	- 11 -	74	- 11 -
8:30	- 11 -	75	- 11 -
9:00	- 11 -	71	- 11 -
9:30	loading Area	73	- 11 -
10:00	East station	75	CAT 305
10:30	loading Area	73	J. Deere 332D
11:00	Walk	---	0
11:45	West station	72	CAT 305
12:00	- 11 -	80	J. Deere, CAT 305
12:30	- 11 -	73	0
1:00	- 11 -	71	0
1:30	East station	74	CAT 305, J. Deere
2:00	By the pile	70	- 11 -
2:30	Main Gate		0
3:00	West Station		0
3:30	End of the day	---	

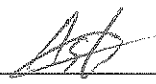
Signature: 

NOISE MONITORING LOG

Former Alameda MGP
 732 S. Alameda Street
 Los Angeles, CA 90021

Monitored by: Ashraf Shabbir
 Monitored Equipment: SLM
 Date: 9-25-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	by the gate	68	Komatsu and CAT
8:00	- 11 -	70	
8:30	- 11 -	63	o
9:00	- 11 -	70	o
9:30	- 11 -	65	o
10:00	Street	63	Komatsu
10:30	- 11 -	75	- 11 -
11:00	comb.	—	o
11:30	Electric box	65	o
12:00	- 11 -	69	Komatsu CAT
12:30	- 11 -	67	o
1:00	Main Gate	63	o
1:30	- 11 -	68	Komatsu
2:00	- 11 -	69	- 11 -
2:30	Electric box	62	o
3:00	Wind Area	64	o
3:30	End of the log	—	—

Signature: 

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashot Shukhyan
Monitored Equipment: SLM
Date: 9-26-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:00	By the Gate	70	o
7:30	- 11 -	77	Komatsu, CAT
8:00	- 11 -	78	- 11 -
8:30	- 11 -	72	- 11 -
9:00	By the Light P.	78	- 11 -
9:30	- 11 -	71	- 11 -
10:00	- 11 -	70	Komatsu.
10:30	Backfill area	77	- 11 -
11:00	lunch	-	o
11:30	North Station Area	70	o
12:00	- 11 -	68	Komatsu.
12:30	South Station	70	Komatsu, CAT
1:00	By the Main Gate	70	- 11 -
1:30	- 11 -	75	- 11 -
2:00	Gate Gate Area	77	Komatsu
2:30	- 11 -	67	o
3:00	Main Gate	65	o
3:30	End of work days	-	o

Signature: 

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashut shukhyan
Monitored Equipment: SLM
Date: 9-27-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:00	Gate Area	70	Truck with top soil
7:30	- 11 -	68	- 11 -
8:00	- 11 -	71	Komatsu.
8:30	Water tank	65	⊙
9:00	- 11 -	63	CAT
9:30	Main Gate	70	CAT
10:00	- 11 -	63	⊙
10:30	- 11 -	72	CAT
11:00	Lunch	-	⊙
11:30	Main Gate	71	Import Truck
12:00	- 11 -	70	- 11 -
12:30	Electric Box	63	Komatsu.
1:00	- 11 -	67	⊙
1:30	- 11 -	75	CAT
2:00	- 11 -	77	CAT
2:30	Main Gate	63	⊙
3:00	Lunch Area	64	⊙
3:30	End of Work Day.	⊙	⊙

Signature: 

Rule 1166 Soil Monitoring Records

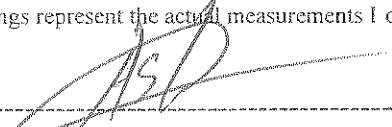
Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #
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Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 9-24-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
12:00				Beginning EX-n					
12:15	0.0			EX-n Zone					
12:30	0.0			From the back					
12:45	0.0			- 11 -					
1:00	0.0			- 11 -					
1:15	0.0			- 11 -					
1:30	0.0			- 11 -					
1:45	0.0			EX-n on Hold					
2:00	0.0			From the pile					
2:15	0.0			Gate Area					
2:30	0.0			Resuming EX-n					
2:45	0.0			From the back					
3:00	0.0			- 11 -					
3:15	0.0			End of EX-n.					
3:30	—			Cleanup.					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: _____  Date: 9-24-13
page 1 of 1

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #		
Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: <u>9-19-13</u>	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: <u>AS</u>	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:30	0.0			Hand digging L.P.	1:45	0.0			By K. Gale
7:45	0.0			- 11 -	2:00	0.0			Back stop
8:00	0.0			Exc n by the L.P.	2:15	0.0			Remaining EX-n
8:15	0.0			- 11 -	2:30	0.0			EX-n zone
8:30	0.0			EX-n zone	2:45	0.0			- 11 -
8:45	0.0			- 11 -	3:00	0.0			End of EX-n
9:00	0.0			EX-n on hold	3:15				cleanup
9:15	0.0			From the pit	3:30				- 11 -
9:30	0.0			Remaining EX-n					
9:45	0.0			From the back					
10:00	0.0			EX-n on hold					
10:15	0.0			From the pit					
10:30	0.0			EX-n area					
10:45	0.0			- 11 -					
11:00				Lunch					
11:45	0.0			Remaining EX-n					
12:00	0.0			EX-n zone					
12:15	0.0			- 11 -					
12:30	0.0			- 11 -					
12:45	0.0			- 11 -					
1:00	0.0			- 11 -					
1:15	0.0			- 11 -					
1:30	0.0			Hand Digging					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan.

In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: _____



Date: _____


9-19-13

NOISE MONITORING LOG

Former Alameda MGP
 732 S. Alameda Street
 Los Angeles, CA 90021

Monitored by: Ashraf Siddiqui
 Monitored Equipment: SLM
 Date: 9-12-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	By the Light P.	72	Komatsu.
8:00	- 11 -	75	Komatsu, CAT
8:30	Ex-n Zone	75	- 11 -
9:00	- 11 -	70	0
9:30	- 11 -	77	Komatsu, CAT
10:00	- 11 -	72	CAT
10:30	- 11 -	67	0
11:00	Lunch	—	Komatsu, CAT 0
11:45	Ex-n - zone	77	Komatsu CAT
12:00	- 11 -	77	- 11 -
12:30	- 11 -	76	- 11 -
1:00	- 11 -	72	- 11 -
1:30	- 11 -	75	- 11 -
2:00	East station	71	- 11 -
2:30	EX-n Zone	75	- 11 -
3:00	Ex-n West station	68	0
3:30	Cate Area	64	0

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #
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Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: <u>9-16-13</u>	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: <u>AS</u>	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:30	0.0			Prep for Ex-n.					
7:45	0.0			Starting Ex-n.					
8:00	0.0			From Backhoe					
8:15	0.0			- 11 -					
8:30	0.0			- 11 -					
8:45	0.0			- 11 -					
9:00	0.0			Ex-n on Hold					
9:15	0.0			Hand Digging					
9:30	0.0			- 11 -					
9:45	0.0			Moving Equipment					
10:00	0.0			Resuming Ex					
10:15	0.0			Ex-n 20m					
10:30	0.0			- 11 -					
10:45	0.0			- 11 -					
11:00	0.0			End of Ex-n					
11:15	-			Catch					
12:00	0.0			From the Pit					
12:15	0.0			Ex-n Area					
12:30	0.0			End of spec.					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: _____

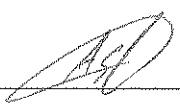
Date: 9-16-13

NOISE MONITORING LOG

Former Alameda MGP
 732 S. Alameda Street
 Los Angeles, CA 90021

Monitored by: Ashraf S.
 Monitored Equipment: SLM
 Date: 9-16-13

Time	Location	Noise Level (dB)	Equipment in Operation
7:30	Ex-n Zone	70	Ø
8:00	- 11 -	77	Komatsu, CAT 262R
8:30	- 11 -	77	- 11 -
9:00	- 11 -	73	Ex-n OAHs
9:30	- 11 -	72	Komatsu
10:00	- 11 -	75	Komatsu, CAT 262R
10:30	- 11 -	77	- 11 -
11:00	- 11 -	68	Ø
11:15	Lunch	—	Ø
12:00	By the Gate	65	Ø
12:30	End of work day		Ø


Signature: 

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashutosh Shikhyan
Monitored Equipment: SLM
Date: 9-13-13

Time	Location	Noise Level (dB)	Equipment in Operation
8:00	Ex-a zone light p.	71	Komatsu, CAT 202B
8:30	- 11 -	72	- 11 -
9:00	- 11 -	75	- 11 -
9:30	- 11 -	77	- 11 -
10:00	- 11 -	77	- 11 -
10:30	- 11 -	78	- 11 -
11:00	_____	_____	unch.
11:45	Ex-a zone by the L.P.	63	0
12:00	- 11 -	72	Komatsu, CAT
12:30	- 11 -	76	- 11 -
1:00	- 11 -	70	0
1:15	- 11 -	71	Komatsu.
1:30	- 11 -	74	Komatsu, CAT
2:00	- 11 -	75	- 11 -
2:30	- 11 -	70	0
3:00	- 11 -	67	0
3:30	End of work day		

Signature: 

Rule 1166 Soil Monitoring Records

Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #
--------	------

Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: 9-12-13	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: AS	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:45	0.0			Ex-11 Ar en/Al	2:15	0.0			Hard dig site
8:00	0.0			Starting Ex-11	2:30	0.0			Resuming Ex-11
8:15	0.0			From the bucket	2:45	0.0			Pile
8:30	0.0			- 11 -	3:00	0.0			End of Ex-11
8:45	0.0			Ex-11 on Hold	3:15	0.0			cleaner
9:00	0.0			From the pile	3:30				End of work day
9:15	0.0			Resuming Ex-11					
9:30	0.0			By the Main Gate					
9:45	0.0			From the bucket					
10:00	0.0			- 11 -					
10:15	0.0			- 11 -					
10:30	0.0			- 11 -					
10:45	0.0			Ex-11 on Hold					
11:00				Lunch					
11:45	0.0			Resuming Ex-11					
12:00	0.0			Ex-11 zone					
12:30	0.0			- 11 -					
12:45	0.0			- 11 -					
1:00	0.0			From the bucket					
1:15	0.0			- 11 -					
1:30	0.0			- 11 -					
1:45	0.0			- 11 -					
2:00	0.0			Ex-11 on Hold					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: _____

Date: 9-12-13

page 1 of 1

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashfa Siddiqui
Monitored Equipment: SLM
Date: 3-12-13

Time	Location	Noise Level (dB)	Equipment in Operation
8:00	EX-A Zone	71	KOMATSU
8:30	- 11 -	77	KOMATSU & CAT 262 B
9:00	By the Pile	65	o
9:30	EX-A Zone	74	KOMATSU & CAT 262 B.
10:00	- 11 -	77	- 11 -
10:30	- 11 -	75	- 11 -
11:00	Lunch	o	o
12:00	EX-A Zone	74	KOMATSU, CAT 262 B.
12:30	- 11 -	77	- 11 -
1:00	- 11 -	73	- 11 -
1:30	- 11 -	75	- 11 -
2:00	- 11 -	65	o
2:30	- 11 -		KOMATSU
3:00	- 11 -		o
3:30	End of work day	—	o

Signature: *Ashfa Siddiqui*

Rule 1166 Soil Monitoring Records

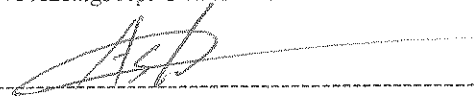
Company Name El Capitan Environmental Services 11080 Tuxford Street Sun Valley, CA. 91352	Facility/ Site Information Former Alameda MGP 732 S. Alameda Street Los Angeles, CA. 90021
Reference No.	

Plan #	ID #
--------	------

Monitor Info.	Calibration Data	Monitoring Personnel	Excavation Summary <small>(upon completion of each excavation)</small>
Brand: Mini Rae	Gas: Hexane	Name: Ashot Shkhyan	Total CY (this Page)
Model: 2000	Date: <u>3/12/13</u>	Company: El Capitan Environmental	Total CY (to date)
Type: PID	By: <u>AS</u>	Phone: (818) 768-9222	Removed from site(to date)

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV) @ Excavated Load			Comment
	Every 15 min.	Reading	Hexane Factor			Adjusted Reading	Every 15 min.	Reading	
7:45	0.0			From the Pit	2:15	0.0			Hand Digging
8:00	0.0			Excav Area	2:30	0.0			EXCA Zone
8:15	0.0			Prep for EXCA	2:45	0.0			From the Back
8:30	0.0			Starting EXCA	3:00	0.0			End of EXCA
8:45	0.0			EXCA Zone	3:15	0.0			cleanup
9:00	0.0			" "	3:30				End of operations
9:15	0.0			From the back					
9:30	0.0			" "					
9:45	0.0			" "					
10:00	0.0			" "					
10:15	0.0			EXCA Area					
10:30	0.0			Hand Digging					
10:45				" "					
11:00				Lunch					
11:00	0.0			Resuming ops					
12:15	0.0			From the Pit					
12:30	0.0			EXCA Area					
12:45	0.0			By the back					
1:00	0.0			Resuming EXCA					
1:15	0.0			EXCA Zone					
1:30	0.0			" "					
1:45	0.0			" "					
2:00	0.0			From the back					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certified that the above readings represent the actual measurements I observed and recorded during the excavation process.

Signature: _____ 

Date: 3-11-13

NOISE MONITORING LOG

Former Alameda MGP
732 S. Alameda Street
Los Angeles, CA 90021

Monitored by: Ashraf Shkhan
Monitored Equipment: SLM
Date: 3-11-13

Time	Location	Noise Level (dB)	Equipment in Operation
8:00	EX-ed Area	70	KOMATSU
8:30	EX-n Zone	75	Komatsu & CAT 262B
9:00	- 11 -	77	- 11 -
9:30	- 11 -	72	- 11 -
10:00	- 11 -	70	- 11 -
10:30	- 11 -	63	0
11:00	Lunch	—	0
12:00	EX-n zone	74	Komatsu, CAT 262B
12:30	EX-ed Area	62	0
1:00	EX-n Zone	75	Komatsu, CAT 262B
1:30	- 11 -	77	- 11 -
2:00	- 11 -	75	- 11 -
2:30	- 11 -	73	- 11 -
3:00	EX-Parcel Area	67	0
3:30	End of operations	—	0

Signature: 