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By Alameda County Environmental Health 11:54 am, Aug 25, 201

August 1, 2016

Ms. Donna Drogos Alameda County Environmental Health 1131 Harbor Parkway, Suite 250 Oakland, CA 94502-6577

Subject:

DWR Logs

Shore Acres Gas

403 East 12th Street, Oakland, Alameda County, California

RO #0002931 ECG # GHA.19009

Dear Ms. Drogos:

Enclosed please find a copy of the DWR Logs for the above referenced site prepared by our consultant Environmental Compliance Group, LLC.

I declare, under penalty and perjury, that the information and/or recommendations contained in this report are true and correct to the best of my knowledge.

Respectfully,

Rashid Ghafoor

16-5-

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

Project Number: GHA.19009

Shore Acre Gas 403 East 12th Street Oakland, California

Date Drilled: 6/22/11
Drilling Company: RSI Drilling
Drilled By: Jorge
Drilling Method: Hollow—Stem Auger
Sampling Method: Split—Spoon Sampler

Environmental Compliance Group, LLC

> Depth Drilled: 20 Feet Depth To Groundwater ✓ Initial: 12 Feet
> ▼ Static: 12 Feet

	Sampling Method: Split-Spoon Sampler								
Sample Number	Blow Count	PID Reading In ppm	Sample Interval	Soil Description	USCS Classification	Graphic Representation	Depth In Feet	Well Construction	Comments
MW-1-5	3 5 7	19	3 4 5 6 8 7 7 8	CLAYEY SILT, olive black (5Y 2/1), poorly graded, loose, damp, slight odor.	ML		1 2 3 4 5 6 7 8 8		 Grout 2-Inch Sch 40 PVC Flush Thread Casing Bentonite Seal
MW-1-10	4 7 10	561	9 10 11 12 13	SAND, greenish gray (5GY 6/1), poorly graded, very fine grained, loose to moderately dense, damp, moderate odor.	SP		9 10 11 12 13 14		#3 Monterey Sand #2-Inch Sch 40 PVC
MW-1-15	2 4 8	53	15 16 17 18 9	CLAYEY SILT, greenish gray (5GY 6/1), poorly graded, moderately dense, damp, slight to moderate odor. Slight odor.	ML		15 — 16 — 17 — 18 — 19 —		0.020—Inch Slotted Screen
MW-1-20	3 7 14	13	20 21 22 23 24 25 26 27 28 29	Total depth = 20 feet.			21		Page 1 of 1

Project Number: GHA.19009

Shore Acre Gas 403 East 12th Street Oakland, California

Date Drilled:

6/20-21/11

Drilling Company: RSI Drilling Drilled By: Jorge

Drilling Method: Hollow—Stem Auger Sampling Method: Split—Spoon Sampler

Environmental Compliance Group, LLC

> Depth Drilled: 20 Feet Depth To Groundwater ☑ Initial: 17 Feet

▼ Static: 11 Feet

	Sampling Method: Split—Spoon Sampler								
Sample Number	Blow Count	PID Reading In ppm	Sample Interval	Soil Description	USCS Classification	Graphic Representation	Depth In Feet	Well Construction	Comments
MW-2-20 MW-2-15 MW-2-10 MW-2-5	3 10 12 5 6 12	0 150 269	1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 18 22 1	CLAYEY SILT, moderate yellowish brown, slightly plastic, soft, damp, no odor. Becomes moderate dark gray, moderate odor. Becomes greenish gray (5G 6/1), poorly graded, CLAYEY SANDY SILT, pale yelowish brown (10YR 6/2), moderately graded, medium grained sand, subangular sand, slightly plastic, moderately dense, saturated, slight odor. Total depth = 20 feet.	ML ▼		1		
			23 — 24 — 25 — 26 — 27 — 28 — 29 —				23 — 24 — 25 — 26 — 27 — 28 — 29 — 30 — 30 — 30 — 30 — 30 — 30 — 30 — 3		Page 1 of 1

Project Number: GHA.19009

Shore Acre Gas 403 East 12th Street Oakland, California

Date Drilled: 6/22/11
Drilling Company: RSI Drilling
Drilled By: Jorge
Drilling Method: Hollow—Stem Auger
Sampling Method: Split—Spoon Sampler

Depth Drilled: 20 Feet Depth To Groundwater ☑ Initial:

Environmental

Compliance

Group, LLC

▼ Static:

	Sampling Method: Split-Spoon Sampler								
Sample Number	Blow Count	PID Reading In ppm	Sample Interval	Soil Description	USCS Classification	Graphic Representation	Depth In Feet	Well Construction	Comments
MW-3-5	2 3 6	22	1 2 3 4 5 5 6 m 7 - 8	CLAYEY SILT, dark gray (N3), slightly plastic, loose, damp, slight odor.	ML		1 2 3 4 5 6 7		Grout 2-Inch Sch 40 PVC Flush Thread Casing Bentonite Seal
MW-3-10	5 8 12	1,665	9 10 11 12 13	Becomes greenish gray (5GY 6/1), slightly plastic, moderately dense, moderate odor.			9 10 11 12 13		→ #3 Monterey Sand
MW-3-15	1 3 6	201	17	SANDY CLAYEY SILT, greenish gray (5GY 6/1), moderately graded, fine grained sand, slightly plastic, moderately dense, damp, slight odor.			14 — 15 — 16 — 17 —		2-Inch Sch 40 PVC 0.020-Inch Slotted Screen
MW-3-20	3 5 9	14	20 21 22 23 24 25 26 27 28 29 30	No odor. Total depth = 20 feet.			19		
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Project Number: GHA.19009



Drilling Company: RSI Drilling
Drilled By: Jorge
Drilling H

Drilling Method: Hollow-Stem Auger Sampling Method: Split-Spoon Sampler



Depth Drilled: 20 Feet Depth To Groundwater ☑ Initial: 15 Feet ▼ Static: 11 Feet

	Sampling Method: Split—Spoon Sampler									
	Blow Count	PID Reading In ppm	Sample Interval	Soil Description	USCS Classification	Graphic Representation	Depth In Feet	Well Construction	Comments	
4	6 11 13	3	2 3 4 5 6 7 7 8	CLAYEY SILT with SAND and GRAVEL, moderate yellowish brown (10YR 5/4), well graded, very angular sand and gravel, slightly plastic, soft, damp, no odor.	ML		1 2 3 4 5 6 7 8 8 9 8		→ Grout — 2-Inch Sch 40 PVC Flush Thread Casing — Bentonite Seal	
MW-4-10	5 6 13	235	9 10 11 12 13	CLAYEY SILT, dark gray (N3), soft, damp, moderate odor.	▼		9 10 11 12 13		→ #3 Monterey Sand	
MW-4-15	3 5 10	170	14	SANDY SILT with CLAY, dark gray (N3), poorly graded, fine grained sand, subangular sand, slightly plastic, moderately dense, saturated, moderate odor.	≖		14 15 16 17		2-Inch Sch 40 PVC 0.020-Inch Slotted Screen	
MW-4-20	7 7 13	36	18	SANDY SILT with CLAY, moderate yellowish brown (10YR 5/4), moderately graded, medium grained sand, subangular sand, moderately dense, saturated, slight odor. Total depth = 20 feet.			18 — 19 — 20 — 21 — 22 — 23 — 24 — 25 — 26 — 27 — 28 — 29 — 30			
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Project Number: GHA.19009

Shore Acre Gas 403 East 12th Street Oakland, California

Date Drilled: 6/20-21/11
Drilling Company: RSI Drilling
Drilled By: Jorge
Drilling Method: Hollow-Stem Auger
Sampling Method: Split-Spoon Sampler

Environmental Compliance Group, LLC

> Depth Drilled: 20 Feet Depth To Groundwater ☑ Initial: 10 Feet

▼ Static: 13 Feet

Sample Number	Blow Count	PID Reading In ppm	Sample Interval	Soil Description	USCS Classification	Graphic Representation	Depth In Feet	Well Construction	Comments
MW-5-10 MW-5-5	359	29	1 2 3 4 5 6 6 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	SAND, dark gray, poorly graded, medium grained, angular, loose, damp, moderate odor.	SP	000000000000000000000000000000000000000	1 2 3 4 5 5 6 6 7 8 9 9 10		
9	2	151	11 12 13 14 15 16	SILT, light gray, with iron staining, moderately graded, dense, damp, slight odor. CLAYEY SILT, light gray, poorly graded, slightly plastic, soft, damp, moderate odor.	ML •		11 12 13 14 15 16		——2—Inch Sch 40 PVC 0.020—Inch Slotted Screen
MW-5-20	2 2 2 3 3	74	18 — 19 — 20 — 21 — 22 — 23 — 24 — 25 — 26 — 27 — 28 — 29 — 29	SANDY SILT with CLAY, dark gray (N3), moderately graded, fine grained sand, slightly plastic, moderately dense, saturated, moderate odor. Total depth = 20 feet.		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	118 ———————————————————————————————————		
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Project Number: GHA.19009

Shore Acre Gas 403 East 12th Street Oakland, California

Date Drilled: 6/22/11
Drilling Company: RSI Drilling
Drilled By: Jorge
Drilling Method: Hollow-Stern
Sampling Method: Drilling Method: Hollow-Stem Auger Sampling Method: Split-Spoon Sampler



Depth Drilled: 20 Feet Depth To Groundwater

☑ Initial: **▼** Static:

-	_	Sumpling Method: Split—Spool Sumpler									
Sample Number	Blow Count	PID Reading In ppm	Sample Interval	Soil Description	USCS Classification	Graphic Representation	Depth In Feet	Well Construction	Comments		
MW-6-5	1 Fc 18	វី, 1.0	7	SANDY CLAYEY SILT, dark yellowish brown (10YR 4/2), moderately graded, medium grained sand, subangular, slight plasticity, loose, saturated, slight odor.	ML		1 2 3 4 5 6		Grout 2−Inch Sch 40 PVC Flush Thread Casing Bentonite Seal		
MW-6-10	4 8 13	274	11 12 13 14 14	CLAYEY SILT, olive gray (5Y 4/1), slight plasticity, moderately dense, damp.			9 10 11 12 13		→ #3 Monterey Sand		
MW-6-15	2 5 6	110	15	CLAYEY SAND SILT with sea shells, dark greenish gray (5G 4/1), moderately graded, fine grained sand, slight plasticity, loose, damp, slight odor.			14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19		——2-Inch Sch 40 PVC 0.020-Inch Slotted Screen		
MW-6-20	4 7 9		20 21 22 23 24 25 26 27 28 29 30	Total depth = 20 feet.		2 2 2 2 2 2 2 2 2 2 2	21 22 23 24 25 26 6 7 7 8				
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Project Number: GHA.19009

Shore Acre Gas 403 East 12th Street Oakland, California

Date Drilled: 6/23/11
Drilling Company: RSI Drilling
Drilled By: Jorge
Drilling Method: Hollow—Stem Auger
Sampling Method: Split—Spoon Sampler



Depth Drilled: 20 Feet Depth To Groundwater

☑ Initial: **▼** Static:

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Sample Number	Blow Count	PID Reading In ppm	Sample Interval	Soil Description	USCS Classification	Graphic Representation	Depth In Feet	Well Construction	Comments
VW-1-5	2 2 5	118	7 - 8	SILTY SAND, dark gray (N3), well graded, medium grained sand, subangular sand, plastic layer at 5', loose, damp, moderate odor.	SW		1		 Grout 4-inch Sch 40 PVC Flush Thread Casing Bentonite Seal
VW-1-10	2 3 5	224	12 -				9 10 11 12 13		→ #3 Monterey Sand
W-1-15	4 7 13	38	15	CLAYEY SILT, grayish green, slightly plastic, moderately dense, slight odor.	ML		14 15 16 17		4-inch Sch 40 PVC 0.020-Inch Slotted Screen
VW-1-20	3 7 10		19 20 21 22 23 24 25 26 27 28 29 30	Becomes moderate yellowish brown, saturated. Total depth = 20 feet.			22 - 23 - 24 - 25 - 66 - 77 - 8		
									Page 1 of 1

Project Number: GHA.19009

Shore Acre Gas 403 East 12th Street Oakland, California

Date Drilled: 6/23/11
Drilling Company: RSI Drilling
Drilled By: Jorge
Drilling Method: Hollow—Stern
Sampling Method: Drilling Method: Hollow-Stem Auger Sampling Method: Split-Spoon Sampler



Depth Drilled: 20 Feet Depth To Groundwater

☑ Initial: **▼** Static:

		Sampling Method: Split—Spoon Sampler								
Campo	Suriple Number	DIOW COUNT	PID Reading In ppm	Sample Interval	Soil Description	USCS Classification	Graphic Representation	Depth In Feet	Well Construction	Comments
VW-2-5	2 7 7 12	22	00	3 4 5 6 7 8 9	CLAYEY SILT, olive gray (5Y 4/1), moderately graded, slightly plastic, moderately dense, damp, slight odor.	ML		1 2 3 4 5 6 7 8 8 9		 Grout 4-inch Sch 40 PVC Flush Thread Casing Bentonite Seal
VW-2-10	NF	1,1	140	9 10 11 11 12 113 113 113	SANDY SILT, grayish green (10GY 5/2), moderately graded, fine grained sand, subangular sand, moderately dense, damp, slight odor.		1	9 10 11 2 3		≠ #3 Monterey Sand
VW-2-15	NR	1,4.	37	14 - 15 - 7 - 8	SILTY SAND, grayish green (10GY 5/2), moderately graded, medium grained sand, subangular sand, loose, damp, strong odor.	SW	1	4 5 6 7		4-inch Sch 40 PVC 0.020-Inch Slotted Screen
VW-2-20	NR	180	6 2	9 0 0 2 1 2 2 3 3 4 4 5 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	SANDY SILT with sea shells, grayish green (10GY 5/2), well graded, medium grained sand, subangular sand, slightly plastic, loose, saturated, moderate odor. Total depth = 20 feet.	ML 1	∷ 1 Ш 2	9		
17.2		-								Page 1 of 1