October 15, 2016

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

Subject: First Quarter 2016 Groundwater Monitoring Report
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 October 8, 2016 *First Quarter 2016 Groundwater Monitoring Report* 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

Environmental Compliance Group, LLC

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Turlock, CA 95382
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FIRST QUARTER 2016 GROUNDWATER MONITORING AND REMEDIATION REPORT

SHORE ACRES GAS
403 EAST 12TH STREET
OAKLAND, CALIFORNIA

Prepared for: Rashid Ghafoor

ECG Project Number: GHA.19009
Alameda County Fuel Leak Case No. RO0002931

October 8, 2016

Drew Van Allen
Senior Project Manager

Michael S. Sgourakis
Principal Geologist
CA P.G. No. 7194

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INTRODUCTION

Environmental Compliance Group (ECG) has been authorized by Mr. Rashid Ghafoor to provide this report for the site.

This report describes activities conducted during First Quarter 2016 groundwater monitoring event. Site information is as follows:

Site Location:	403 East 12th Street Oakland, California
Geotracker Global ID:	T0600174667

LIMITATIONS

This report has been prepared for use by Rashid Ghafoor and the relevant regulatory agencies. The conclusions in this report are professional opinions based on the data presented in this report. This report was prepared in general accordance with hydrogeologic and engineering methods and standards. No other warranties are made as to the findings or conclusions presented in this report. The work described in this report was performed under the direct supervision of the professional geologist whose signature and State of California registration are shown above.

SITE DESCRIPTION AND HYDROGEOLOGIC CONDITIONS

SITE DESCRIPTION

The site occupies a parcel on the southeast corner of 4th Avenue and East 12th Street in Oakland, Alameda County, California (Figure 1). The site is situated in a commercial and residential area in central Oakland and is currently vacant. The site was historically used as a gasoline station. The area of interest at the site is the former location of three underground storage tanks (USTs) and fuel dispensers where impacted soil and groundwater was first identified in 2006. A detailed site plan is shown on Figure 2.

HYDROGEOLOGIC CONDITIONS

The site is underlain by Quaternary-age dune sand deposits referred to as the Merritt Sand. The Merritt Sand is typically described as loose, well-sorted fine- to medium-grained sand with a large silt component. The sand is reported to reach a maximum depth of 50-feet bgs in the area.

Based on boring logs from the advancement of 11 soil borings and the installation of six monitoring wells and four extraction wells, the stratigraphy of the site and vicinity consists of silt to approximately 30-feet bgs with discontinuous thin intervals of sandy silt and clayey sand present in the area.

Depth to groundwater is shallow, ranging between 8- to 14-feet bgs. The groundwater flow direction appears to be generally toward the south.

PROJECT BACKGROUND

INVESTIGATIONS

In July 2006, Geofon Incorporated (Geofon) advanced soil borings GP-1 and GP-2 and collected and analyzed soil samples. Results are detailed in Geofon's report entitled *Summary of Phase II Assessment Activities,* dated July 25, 2006.

In August 2009, Wright Environmental Services, Inc. (Wright) removed three USTs, associated fuel dispensers, and all associated piping. Results are detailed in Wright's *Closure Report for Three Underground Storage Tanks,* dated September 2009.

In April 2010, Apex Envirotech, Inc. (Apex) advanced nine soil borings to evaluate the lateral extent of impacted soil and groundwater. Results are documented in Apex's *Subsurface Investigation Results Report* dated June 23, 2010.

In June 2011, ECG supervised the installation of six groundwater monitoring wells (MW-1 through MW-6) and two extraction wells (EW-1 and EW-2). Results are documented in ECG's *Off-Site Investigation and Dual Phase Pilot Test Results with Fourth Quarter 2011 Monitoring Report,* dated January 26, 2012.

RISK ASSESSMENTS

In January 2011, ECG conducted a preferential pathway study for the site. Results are detailed in ECG's *Site Assessment and Soil Vapor Extraction Pilot Test Workplan,* dated February 9, 2011.

In January 2011, ECG conducted a sensitive receptor survey for the site. Results are detailed in ECG's *Site Assessment and Soil Vapor Extraction Pilot Test Workplan,* dated February 9, 2011.

A soil vapor survey has not been completed for the site.

CORRECTIVE ACTIONS

In June 2011, ECG supervised the installation of six groundwater monitoring wells (MW-1 through MW-6) and two extraction wells (EW-1 and EW-2). ECG also performed a 5-day dual phase extraction (DPE) test in June 2011. Results are documented in ECG's *Off-Site Investigation and Dual Phase Pilot Test Results with Fourth Quarter 2011 Monitoring Report,* dated January 26, 2012.

In May 2013, ECG supervised the installation of two extraction wells (EW-3 and EW-4). In September 2013, ECG installed the subsurface piping network from the remediation wells to the remediation compound and the subsurface conduit required by PG&E to install the electrical service required to operate the remediation compound.

In April 2014, the dual phase extraction system began operation. The DPE system includes a 25-horsepower liquid-ring blower capable of up to 400 standardized cubic feet per minute (scfm) flowrate, thermal/catalytic oxidizer, a conveyance piping network, and four individual extraction wells. The blower extracts vapors and groundwater from each extraction wells and through the conveyance piping where the impacted vapor is destroyed in the thermal/catalytic oxidizer prior to

discharge to the atmosphere and the groundwater is treated with an air stripper and granular activated carbon prior to discharge to the municipal sewer system.

The remediation system was started on April 30, 2014 and shut down on June 27, 2014 due to carbon change out requirements. The system was restarted on August 15, 2014. The remediation system was shut down on February 18, 2015 due to complaints from neighbors regarding the propane tank onsite providing supplemental fuel to the remediation equipment. ECG supervised the installation of natural gas provided by PG&E to the site and the system was restarted on August 11, 2015. The system was shut down on December 16, 2015 due to contaminant breakthrough of the first carbon vessel and scheduled carbon change out. The system was restarted January 21, 2016 and shut down on April 11, 2016 due to decreasing contaminant extraction rates and pending regulatory review of ECG's *Fourth Quarter 2015 Monitoring and Remediation System Evaluation Report*, dated August 1, 2016.

The DPE system is operated under Bay Area Air Quality Management District (BAAQMD) permit number 25354 and East Bay Municipal Utility District (EBMUD) Discharge Permit No. 68508758. The DPE system has removed approximately 8,434 pounds of TPHg, 39 pounds of benzene, and 2. pounds of MTBE from the subsurface.

FIRST QUARTER 2016 MONITORING EVENT

WORK PERFORMED AND PROPOSED

The following is a summary of work performed during the first quarter 2016 and work proposed for next quarter at the site.

WORK PERFORMED FIRST QUARTER 2016

1. ECG restarted the remediation system after carbon change out on January 21, 2016.
2. The first quarter 2016 groundwater monitoring event was performed on March 22, 2016.
3. ECG performed DPE system startup, troubleshooting, and maintenance to the O&M unit.
4. The remediation system was shut down April 11, 2016 due to decreasing contaminant extraction rates and pending regulatory review of remediation system evaluation report.

WORK SCHEDULED FOR THIRD QUARTER 2016

1. Prepare and finalize fourth quarter 2015 monitoring and remediation system evaluation report.
2. Prepare and finalize the first quarter 2016 monitoring report.
3. Perform third quarter 2016 monitoring event which will be a post remediation/rebound monitoring event after the remediation system has been down for more than 5 months.

DISCUSSION OF RECENT MONITORING ACTIVITIES

ECG performed the first quarter 2016 groundwater monitoring and sampling event at the site on March 22, 2015. Gauging, development, purging, and sampling were conducted in accordance with ECG's SOPs included in Appendix B. The collected groundwater samples were submitted to California Agricultural and Environmental Labs located in Ceres, California for laboratory analysis under COC protocols (Appendix C).

The following is a summary of the current status of the groundwater monitoring program at the site:

Current Phase of Project:	Remediation
Groundwater Sampling Schedule:	Quarterly
	Wells MW-1 through MW-6, EW-1 through EW-4
Analysis:	TPHg by EPA Method 8015M, BTEX, 5 oxygenates, and 2 lead scavengers by EPA Method 8260B
Is Free Product Present On-Site:	No

The following is a summary of recent field and analytical data:

Average Depth to Groundwater	12.40-feet below ground surface (bgs)
Average Groundwater Elevation	19.46 -feet above mean sea level
Groundwater Gradient Direction	Radially inward
Groundwater Gradient	Not Calculated
TPHg Detected Range	900 ug/L (MW-2) to 22,000 ug/L (EW-2)
Benzene Detected Range	7.3 ug/L (MW-2) to 920 ug/L (EW-4)
MTBE Detected	8.7 ug/L (MW-6) to 81 (EW-4)

Laboratory analytical reports and COCs are provided in Appendix C. Field notes are located in Appendix D. Summaries of groundwater monitoring and analytical data are presented in Tables 4a.

DISCUSSION OF RECENT REMEDIATION ACTIVITIES

ECG performed remediation system monitoring and operations and maintenance activities on January 27, March 1 and 21, and April 11, 2016. Based on the low concentrations from influent vapor results from March 1, 2016 an additional March sample was collected on March 21, 2016 to confirm results. These influent samples also contained low concentrations of contaminant vapors and the remediation system was shut down on April 11, 2016.

Multiple additional visits were made to the site to ensure the operation of the remediation systems and restart them as needed as the unit needed. Operating parameters are recorded twice each month and are included on the field notes in Appendix D. Influent and effluent vapor samples are field screened each visit with a photoionization detector and samples are collected monthly in accordance with BAAQMD permit requirements. The collected vapor samples were submitted to Pace Analytical, LLC, located in Davis, California for laboratory analysis under COC protocols.

The following is a summary of the first quarter 2016 remediation results at the site:

SVE System Operating Hours	1,665.6 hours, 69.4days
Active SVE Extraction Points	Varied
Average Influent Flowrate	140 scfm
TPHg Detected Range in SVE Influent	20 parts per million by volume (ppmv) to 43 ppmv
Benzene Detected Range in SVE Influent	0.73 ppmv to 0.86 ppmv
SVE Destruction Efficiency	>97% or less than 0.109 pounds of benzene per day emission
Average Groundwater Extraction Rate	1.8 gallons per minute (gpm)
Average TPHg Detected in Groundwater Influent	9,750 ug/L

Average Benzene Detected in Groundwater Influent	515 ug/L
Average MTBE Detected in Groundwater Influent	52 ug/L

The remediation system was shut down April 11, 2016 due to decreasing contaminant extraction rates and pending regulatory review of remediation system evaluation report. Summaries of remediation system operating parameters and analytical data are presented in Tables 5a, 5b, and 5c.

RESULTS AND CONCLUSIONS

Water levels and the gradient data were consistent with historical data. Tables 2a, 2b, 3a, 3b, 4a, and 4b tabulate the analytical data for soil and monitoring well sampling data. ECG will keep the remediation system shut down pending regulatory review of remediation system evaluation report. The next groundwater monitoring event will be in third quarter 2016 and will be a rebound monitoring event performed five months after the system was shut down.

The DPE system operated for 69 days during the first quarter of 2016 from January 21, 2016, when the system was restarted to April 11, 2016, when the system was shut down. Approximately 108 pounds of TPHg, 1.7 pounds of benzene, and 0.3 pounds of MTBE were removed from the soil beneath the site during this quarter (Table 5a). Approximately 20 pounds of TPHg, 1.1 pounds of benzene, and 0.11 pounds of MTBE were removed from the groundwater phase during this quarter (Table 5c). The DPE system operated within the rules of the BAAQMD permit issued to the facility.

RECOMENDATIONS

Based on the above findings and the results of ECG's *Fourth Quarter 2015 Monitoring and Remediation System Evaluation Report*, dated August 1, 2016, ECG recommends the following.

Based on the decreasing trends and rebound observed during times of prolonged operation, ECG recommends continued operation of the DPE system after the rebound samples are collected from the monitoring well network.

Based on the data that approximately 3,000 pounds of TPHg remains in the subsurface, most likely around approximately 15-feet bgs but lower extraction rates show difficulty removing the contamination with the current DPE configuration, ECG proposes conducting a pilot test consisting of installing submersible pumps into two extraction wells, EW-3 and EW-4, and extracting additional water while the current DPE system operates. The purpose of this pilot test is to determine what groundwater flow rates are required to further dewater the shallow zone aquifer and what increase in concentrations, if any, is observed during low water conditions. It has been documented during operation and maintenance of the system that higher PID readings coincide with lower water levels. This pilot test will quantify all the parameters to determine the feasibility of implementing full time groundwater pumping. During the test, groundwater from the submersible pumps will be stored in a poly tank for disposal through the system at a very low, controlled flow rate so the current air stripper and transfer pumps are not inundated during the test. Upon concurrence from the ACEHS, ECG will prepare a workplan report detailing the activities suggested above.

ECG will make further conclusions and recommendations after the rebound samples and pilot test are concluded.

FIGURES

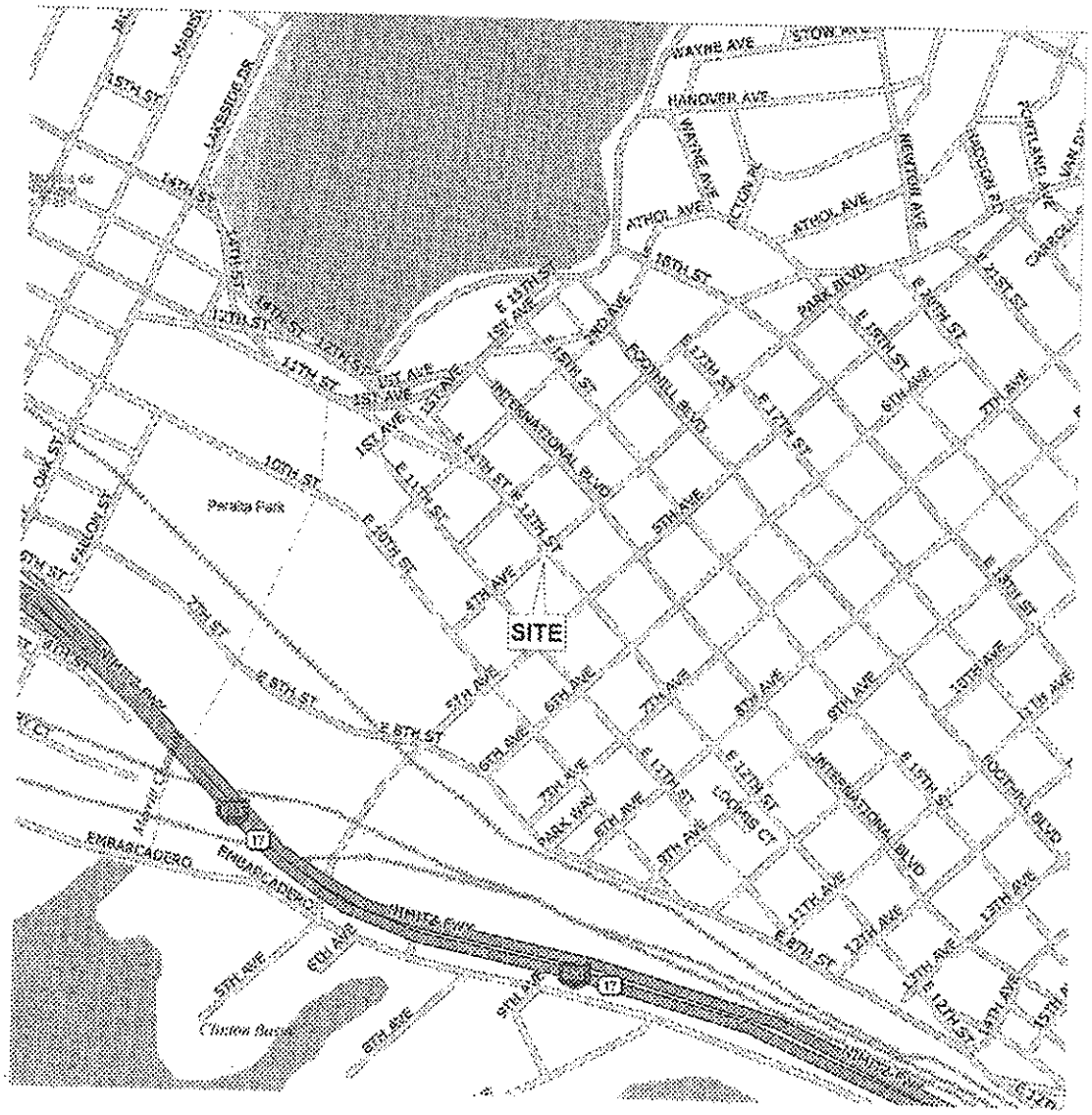


FIGURE 1	**SITE LOCATION MAP**	Environmental Compliance Group, LLC
Project Number: CHA.19009	Shore Acre Gas 403 East 12th Street Oakland, California	270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035
Date: February 9, 2011		

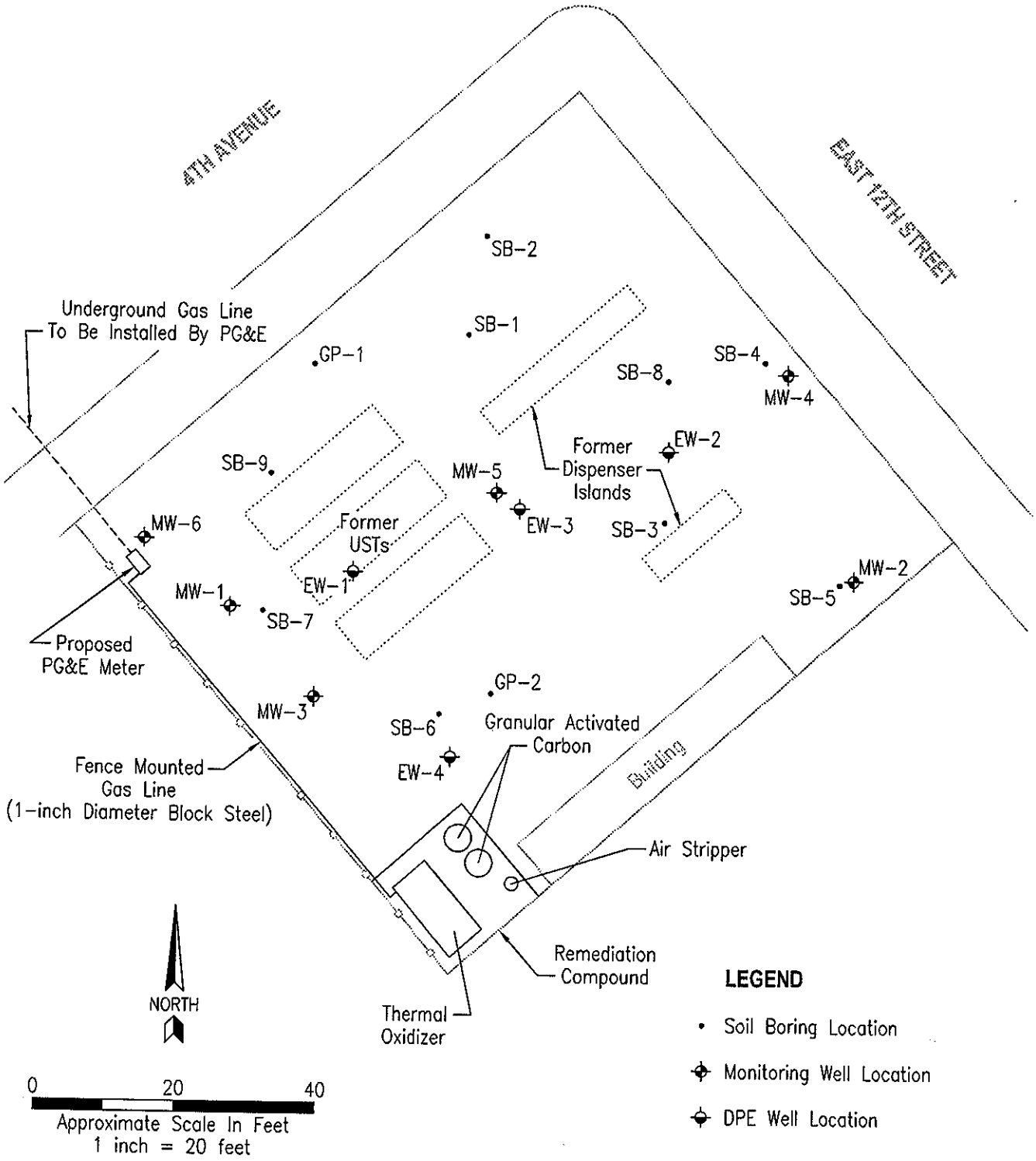


FIGURE 2	**SITE MAP**	**Environmental Compliance Group, LLC**
Project Number: GHA.19009	Shore Acre Gas 403 East 12th Street Oakland, California	270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035
Date: February 26, 2015		

LEGEND

NORTH

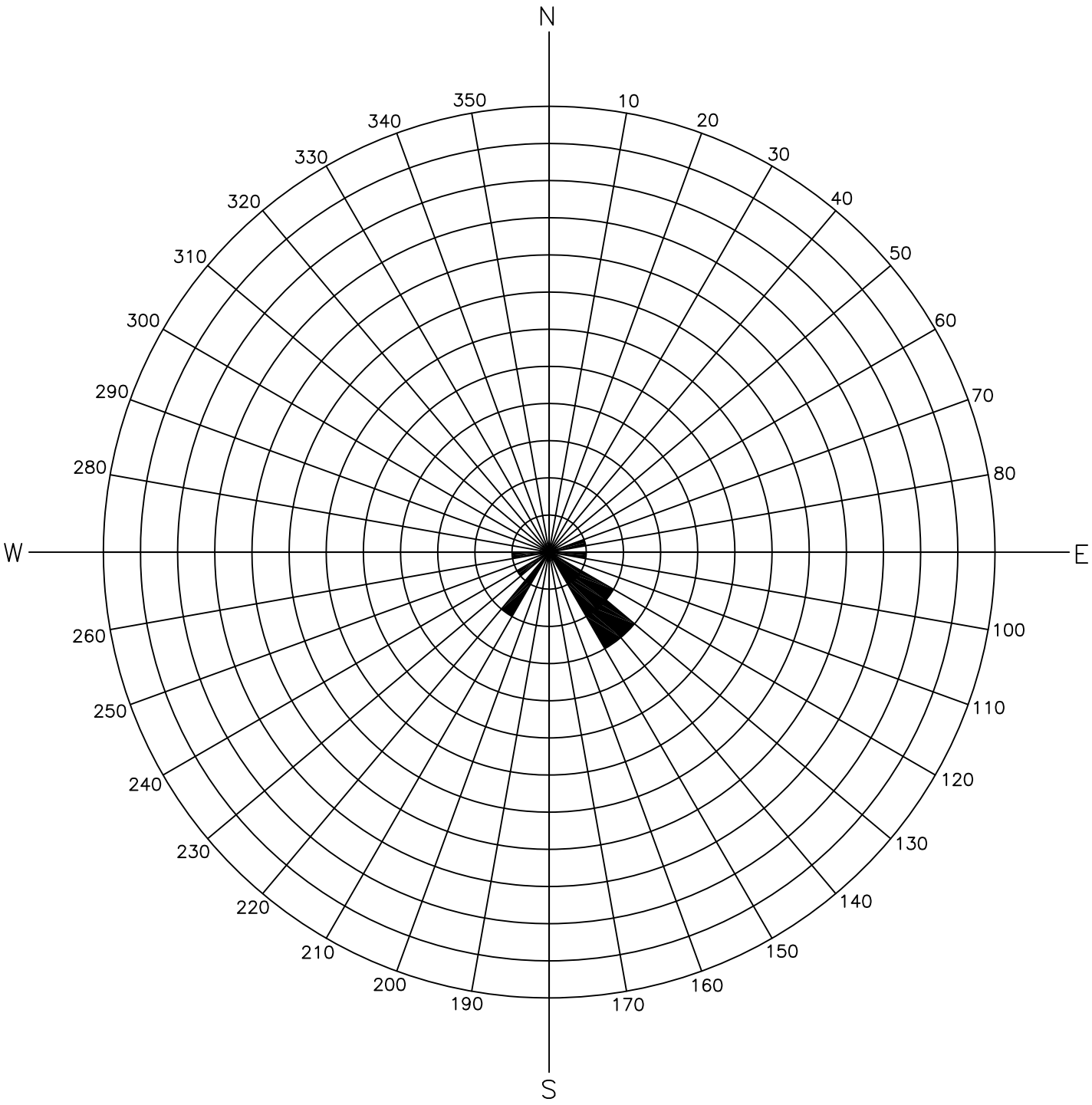
- Monitoring Well Location
- Vapor Extraction Well Location
- (20.69) Elevation Of Groundwater Measured In Feet Above Mean Sea Level
- (20.00) Lines Of Equipotential Measured In Feet Above Mean Sea Level (Dashed Where Inferred)
- Flow Lines

General Gradient Flows Radially Inward

0 50 100

Approximate Scale In Feet
1 inch = 50 feet

FIGURE 3	**POTENTIOMETRIC SURFACE MAP MARCH 22, 2016** Shore Acre Gas 403 East 12th Street Oakland, California	Environmental Compliance Group, LLC 270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035
Project Number: GHA.19009		
Date: November 17, 2016		



Thru 1st Quarter 2016

FIGURE 4	**ROSE DIAGRAM**	Environmental Compliance Group, LLC
Project Number: GHA.19009	Shore Acre Gas 403 East 12th Street Oakland, California	270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035
Date: November 17, 2016		

LEGEND

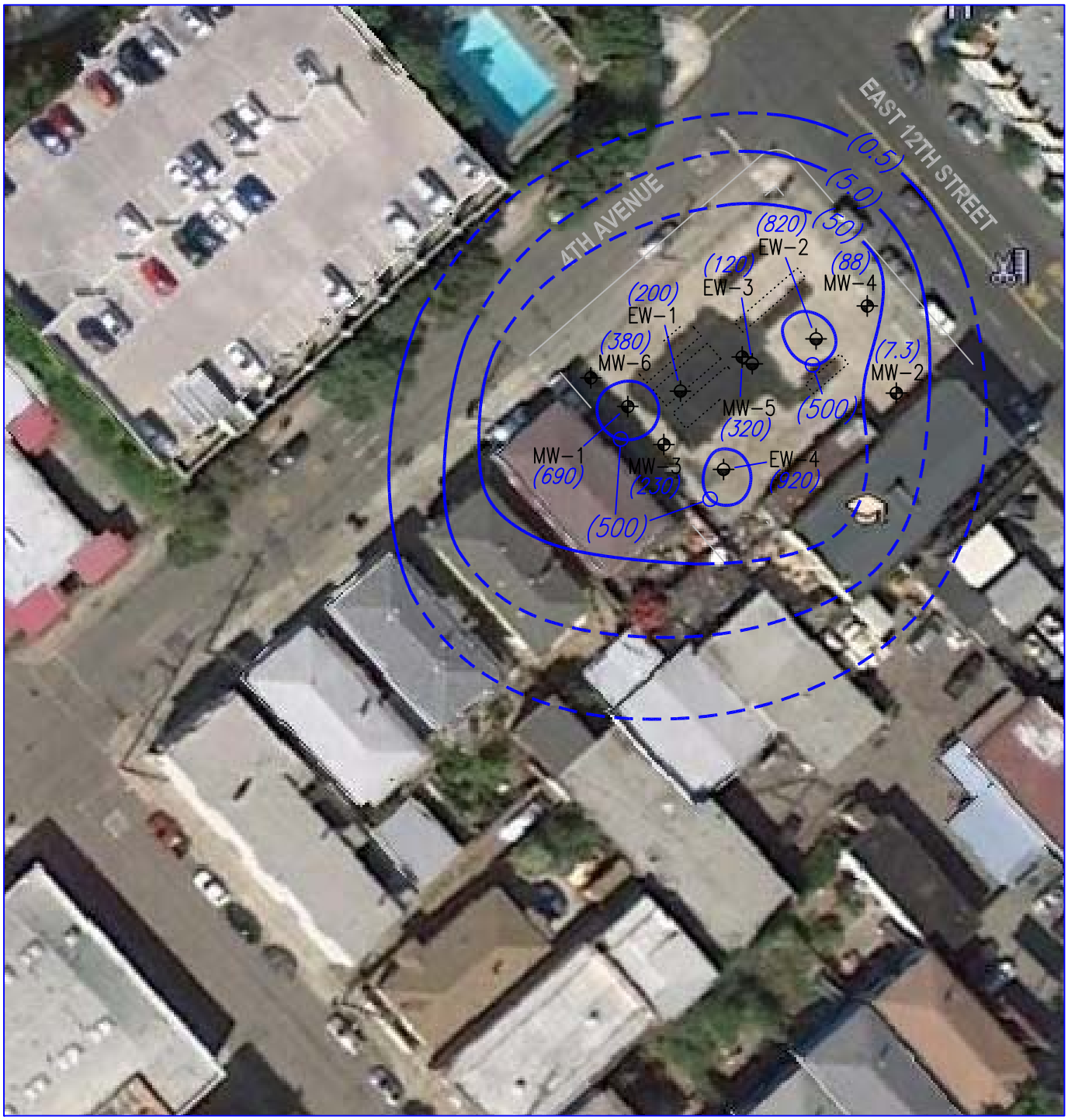
NORTH

- Monitoring Well Location
- Vapor Extraction Well Location
- (22,000) Concentration Of TPHg In Groundwater Measured In ug/L
- (5,000) Line Of Equal Concentration Of TPHg In Groundwater Measured In ug/L (Dashed Where Inferred)
- * Active Extraction From This Well

0 50 100

Approximate Scale In Feet
1 inch = 50 feet

FIGURE 5	**TPHg IN GROUNDWATER ISOCONCENTRATION MAP MARCH 22, 2016** Shore Acre Gas 403 East 12th Street Oakland, California	Environmental Compliance Group, LLC 270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035
Project Number: GHA.19009		
Date: November 17, 2016		



LEGEND

NORTH

Monitoring Well Location

Vapor Extraction Well Location

(920) Concentration Of Benzene In Groundwater Measured In ug/L

(500) Line Of Equal Concentration Of Benzene In Groundwater Measured In ug/L (Dashed Where Inferred)

0 50 100

Approximate Scale In Feet
1 inch = 50 feet

FIGURE 6	**BENZENE IN GROUNDWATER ISOCONCENTRATION MAP MARCH 22, 2016** Shore Acre Gas 403 East 12th Street Oakland, California	Environmental Compliance Group, LLC 270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035
Project Number: GHA.19009		
Date: November 17, 2016		

LEGEND

NORTH

- Monitoring Well Location
- Vapor Extraction Well Location
- (81) Concentration Of MTBE In Groundwater Measured In ug/L
- (50) Line Of Equal Concentration Of MTBE In Groundwater Measured In ug/L (Dashed Where Inferred)

0 50 100

Approximate Scale In Feet
1 inch = 50 feet

FIGURE 7	**MTBE IN GROUNDWATER ISOCONCENTRATION MAP MARCH 22, 2016** Shore Acre Gas 403 East 12th Street Oakland, California	Environmental Compliance Group, LLC 270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035
Project Number: GHA.19009		
Date: November 17, 2016		

TABLES

Table 1
Well Construction Details
Shore Acres Gas
403 East 12th Street
Oakland, California

Well ID	Date Installed	TOC Elevation (ft amsl)	Well Depth (ft bgs)	Casing Diameter (inches)	Casing Material	Screen/ Filter	Screen Interval (ft bgs)
Monitoring Wells							
MW-1	June 2011	30.81	20	2	PVC	0.020/#3	10-20
MW-2		31.29	20	2	PVC	0.020/#3	10-20
MW-3		31.30	18	2	PVC	0.020/#3	8-18
MW-4		31.21	19	2	PVC	0.020/#3	9-19
MW-5		31.35	20	2	PVC	0.020/#3	10-20
MW-6		30.79	20	2	PVC	0.020/#3	10-20
Dual Phase Extraction Wells							
EW-1	June 2011	31.46	20	4	PVC	0.020/#3	5-20
EW-2		31.43	20	4	PVC	0.020/#3	5-20
EW-3	May 2012	---	20	6	PVC	0.020/#3	5-20
EW-4		---	20	6	PVC	0.020/#3	5-20

Notes:

TOC - denotes top of casing
ft - denotes feet
amsl - denotes above mean sea level
bgs - denotes below ground surface
PVC - denotes polyvinyl chloride

Table 2a
Historical Soil Analytical Data
TPH and BTEX
Shore Acres Gas
403 East 12th Street
Oakland, California

Boring ID	Sample Depth (feet)	Collection Date	TPHd (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total xylenes (mg/kg)
UST Removal Samples								
SS-D1	2	August 2009	1,800*	3,000	<0.25	0.34	39	180
SS-D2	2		900*	2,400	<0.25	<0.25	36	120
SS-D3	2		460*	1,000	<0.15	<0.15	12	14
SS-D4	2		540*	640	<0.090	1.0	6.1	51
SS-D5	2		320	140	<0.025	<0.025	1.3	3.2
SS-D6	2.0		320*	260	<0.025	0.054	1.0	8.0
SS-J1	2.0		39*	160	<0.025	<0.025	0.71	0.94
SS-Isle	4.0		560*	100	<0.025	<0.025	0.30	0.084
SS-7	18.0		310*	1,600	6.9	76	39	200
Tank 1-SS-1	14.0		830*	2,500	4.2	100	69	360
Tank 1-SS-2	14.0		62*	480	1.8	5.3	14	62
Tank 2-SS-1	14.0		120*	290	0.37	2.4	6.3	31
Tank 2-SS-2	14.0		330*	80	0.074	0.051	1.2	5.8
Tank 3-SS-1	14.0		480*	2,100	2.4	41	62	320
Tank 3-SS-2	14.0		75*	130	0.23	0.26	3.1	15
Soil Borings								
GP-1-15.5	15.5	July 2006	13.0	18.0	0.63	0.052	0.69	0.13
GP-1-18.0	18.0		<1.0	<1.0	0.0056	0.0082	<0.005	0.019
GP-2-12.0	12.0		600	3,600	17	180	98	440
GP-2-20.0	20.0		79	1,100	3.2	41	25	130
SB-1-9.5	9.5	April 2010	---	1,600	5.1	43	30	180
SB-1-24.5	24.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-1-29.5	29.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-2-9.5	9.5		---	2.2	0.26	<0.010	0.066	<0.020
SB-2-24.5	24.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-2-29.5	29.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-3-14.5	14.5		---	17	17	100	42	240
SB-3-24.5	24.5		---	<1.0	<0.005	0.005	<0.005	0.013
SB-3-29.5	29.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-4-14.5	14.5		---	1,700	13	79	28	170
SB-4-19.5	19.5		---	<1.0	<0.005	0.009	<0.005	0.026
SB-4-29.5	29.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-5-14.5	14.5		---	470	<0.20	0.45	6.2	37
SB-5-24.5	24.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-5-29.5	29.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-6-9.5	9.5		---	6,100	21	170	95	580
SB-6-29.5	29.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-6-32	32.0		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-7-9.5	9.5		---	4,000	12	46	55	360
SB-7-29.5	29.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-7-32	32.0		---	<1.0	<0.005	<0.005	<0.005	<0.010

Table 2a
Historical Soil Analytical Data
TPH and BTEX
Shore Acres Gas
403 East 12th Street
Oakland, California

Boring ID	Sample Depth (feet)	Collection Date	TPHd (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total xylenes (mg/kg)
SB-8-9.5	9.5	April 2010	---	**2,500**	**16**	**110**	**63**	**370**
SB-8-24.5	24.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-8-29.5	29.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-9-14.5	14.5		---	**390**	**3.0**	**3.0**	**9.1**	**41**
SB-9-29.5	29.5		---	<1.0	<0.005	<0.005	<0.005	<0.010
SB-9-32	32.0		---	<1.0	<0.005	<0.005	<0.005	<0.010
Groundwater Wells								
MW-1-5	5	June 2011	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-1-15	15		<5.0	**18**	**0.55**	<0.050	**0.87**	**1.2**
MW-1-20	20		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-2-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-2-10	10		<5.0	**69**	<0.005	<0.005	<0.005	<0.010
MW-2-15	15		<5.0	**50**	<0.050	**0.48**	**3.1**	**19**
MW-2-20	20		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-3-5	5		<5.0	<1.0	<0.010	<0.010	<0.010	<0.020
MW-3-10	10		<15	**840**	**3.4**	**33**	**20**	**140**
MW-3-15	15		<5.0	**380**	**3.0**	**4.5**	**7.3**	**41**
MW-3-20	20		<5.0	<1.0	**0.019**	<0.005	**0.006**	<0.010
MW-4-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-4-10	10		<15	**420**	**1.7**	**2.6**	**9.2**	**51**
MW-4-15	15		<5.0	**3.1**	**0.036**	**0.20**	**0.15**	**0.95**
MW-4-20	20		<5.0	<1.0	**0.007**	**0.017**	**0.010**	**0.039**
MW-5-5	5		<5.0	**76**	<0.10	<0.10	**1.3**	**0.76**
MW-5-10	10		<15	**3,200**	**4.6**	**6.5**	**72**	**410**
MW-5-15	15		<5.0	**600**	**1.3**	**13**	**15**	**110**
MW-6-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-6-10	10		<5.0	**5.1**	**0.015**	<0.010	**3.4**	**1.0**
MW-6-15	15		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-6-20	20		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
VW-1-5	5		<5.0	**34**	<0.005	<0.005	**0.16**	**0.31**
VW-1-10	10		<15	**85**	<0.10	<0.10	**2.2**	**0.89**
VW-1-15	15		<15	**420**	**2.1**	**4.1**	**9.4**	**55**
VW-1-20	20		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
VW-2-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
VW-2-10	10		<5.0	**130**	<0.10	<0.10	**2.9**	**15**
VW-2-15	15		<15	**5,500**	**29**	**430**	**120**	**910**
VW-2-20	20		<5.0	<1.0	**0.14**	**0.054**	**0.025**	**0.14**

Notes:

TPHd - denotes total petroleum hydrocarbons as diesel
TPHg - denotes total petroleum hydrocarbons as gasoline
mg/kg - denotes milligrams per kilogram
< - denotes less than the detection limit
--- denotes no data

Table 2b
Historical Soil Analytical Data
Oxygenates and Lead Scavengers
Shore Acres Gas
403 East 12th Street
Oakland, California

Boring ID	Sample Depth (feet)	Collection Date	DIPE (mg/kg)	ETBE (mg/kg)	MTBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
UST Removal Samples									
SS-D1	2	August 2009	<0.25	<0.25	<0.25	<0.25	<1.5	---	---
SS-D2	2		<0.25	<0.25	<0.25	<0.25	<1.5	---	---
SS-D3	2		<0.15	<0.15	<0.15	<0.15	<0.70	---	---
SS-D4	2		<0.090	<0.090	<0.090	<0.090	<0.50	---	---
SS-D5	2		<0.025	<0.025	<0.025	<0.025	<0.15	---	---
SS-D6	2		<0.025	<0.025	<0.025	<0.025	<0.15	---	---
SS-J1	2		<0.025	<0.025	<0.025	<0.025	<0.15	---	---
SS-Isle	4		<0.025	<0.025	<0.025	<0.025	<0.15	---	---
SS-7	18		<0.25	<0.25	<0.25	<0.25	<1.5	<0.25	<0.25
Tank 1-SS-1	14		<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50
Tank 1-SS-2	14		<0.040	<0.040	**0.37**	<0.040	**0.51**	<0.040	<0.040
Tank 2-SS-1	14		<0.050	<0.050	**0.18**	<0.050	**0.35**	<0.050	<0.050
Tank 2-SS-2	14		<0.025	<0.025	**0.090**	<0.025	**0.16**	<0.025	<0.025
Tank 3-SS-1	14		<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50
Tank 3-SS-2	14		<0.025	<0.025	**0.19**	<0.025	**0.15**	<0.025	<0.025
Soil Borings									
GP-1-15.5	15.5	July 2006	<0.005	<0.005	**0.029**	<0.005	**0.27**	---	---
GP-1-18.0	18.0		<0.005	<0.005	**0.54**	<0.005	**0.33**	---	---
GP-2-12.0	12.0		<0.50	<0.50	<0.50	<0.50	<2.5	---	---
GP-2-20.0	20.0		<0.025	<0.025	**0.041**	<0.025	<0.15	---	---
SB-1-9.5	9.5	April 2010	<0.80	<0.80	<0.80	<0.80	<8.0	<0.80	<0.80
SB-1-24.5	24.5		<0.005	<0.005	**0.11**	<0.005	<0.050	<0.005	<0.005
SB-1-29.5	29.5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-2-9.5	9.5		<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010
SB-2-24.5	24.5		<0.005	<0.005	**0.053**	<0.005	<0.050	<0.005	<0.005
SB-2-29.5	29.5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-3-14.5	14.5		<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-3-24.5	24.5		<0.005	<0.005	**0.10**	<0.005	<0.050	<0.005	<0.005
SB-3-29.5	29.5		<0.005	<0.005	**0.010**	<0.005	<0.050	<0.005	<0.005
SB-4-14.5	14.5		<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0
SB-4-19.5	19.5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-4-29.5	29.5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-5-14.5	14.5		<0.20	<0.20	<0.20	<0.20	<2.0	<0.20	<0.20
SB-5-24.5	24.5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-5-29.5	29.5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-6-9.5	9.5		<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-6-29.5	29.5		<0.005	<0.005	**0.20**	<0.005	<0.050	<0.005	<0.005
SB-6-32	32.0		<0.005	<0.005	**0.18**	<0.005	<0.050	<0.005	<0.005
SB-7-9.5	9.5		<1.0	<1.0	**4.0**	<1.0	<10	<1.0	<1.0
SB-7-29.5	29.5		<0.005	<0.005	**0.18**	<0.005	<0.050	<0.005	<0.005
SB-7-32	32.0		<0.005	<0.005	**0.11**	<0.005	<0.050	<0.005	<0.005

Table 2b
Historical Soil Analytical Data
Oxygenates and Lead Scavengers
Shore Acres Gas
403 East 12th Street
Oakland, California

Boring ID	Sample Depth (feet)	Collection Date	DIPE (mg/kg)	ETBE (mg/kg)	MTBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
SB-8-9.5	9.5	April 2010	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-8-24.5	24.5		<0.005	<0.005	**0.033**	<0.005	<0.050	<0.005	<0.005
SB-8-29.5	29.5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-9-14.5	14.5		<0.20	<0.20	**5.5**	<0.20	<2.0	<0.20	<0.20
SB-9-29.5	29.5		<0.005	<0.005	**0.090**	<0.005	**0.15**	<0.005	<0.005
SB-9-32	32.0		<0.005	<0.005	**0.11**	<0.005	<0.050	<0.005	<0.005
Groundwater Wells									
MW-1-5	5	June 2011	<0.005	<0.005	**0.35**	<0.005	**0.093**	<0.005	<0.005
MW-1-15	15		<0.050	<0.050	**1.1**	<0.050	<0.50	<0.050	<0.050
MW-1-20	20		<0.005	<0.005	**0.31**	<0.005	**0.58**	<0.005	<0.005
MW-2-5	5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-2-10	10		<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
MW-2-15	15		<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
MW-2-20	20		<0.005	<0.005	**0.006**	<0.005	<0.050	<0.005	<0.005
MW-3-5	5		<0.010	<0.010	**1.5**	<0.010	**0.37**	<0.010	<0.010
MW-3-10	10		<0.80	<0.80	**1.3**	<0.80	<8.0	<0.80	<0.80
MW-3-15	15		<0.20	<0.20	**3.0**	<0.20	<2.0	<0.20	<0.20
MW-3-20	20		<0.005	<0.005	**0.036**	<0.005	**0.16**	<0.005	<0.005
MW-4-5	5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-4-10	10		<0.40	<0.40	<0.40	<0.40	<4.0	<0.40	<0.40
MW-4-15	15		<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010
MW-4-20	20		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-5-5	5		<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
MW-5-10	10		<4.0	<4.0	<4.0	<4.0	<40	<4.0	<4.0
MW-5-15	15		<0.40	<0.40	<0.40	<0.40	<4.0	<0.40	<0.40
MW-6-5	5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-6-10	10		<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010
MW-6-15	15		<0.005	<0.005	**0.026**	<0.005	**0.088**	<0.005	<0.005
MW-6-20	20		<0.005	<0.005	**0.010**	<0.005	**0.37**	<0.005	<0.005
VW-1-5	5		<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
VW-1-10	10		<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
VW-1-15	15		<0.40	<0.40	**0.59**	<0.40	<4.0	<0.40	<0.40
VW-1-20	20		<0.005	<0.005	**0.009**	<0.005	**0.16**	<0.005	<0.005
VW-2-5	5		<0.005	<0.005	**0.25**	<0.005	**0.14**	<0.005	<0.005
VW-2-10	10		<0.10	<0.10	**0.33**	<0.10	<1.0	<0.10	<0.10
VW-2-15	15		<4.0	<4.0	<4.0	<4.0	<40	<4.0	<4.0
VW-2-20	20		<0.005	<0.005	**0.008**	<0.005	**0.26**	<0.005	<0.005

Notes:

mg/kg - denotes milligrams per kilogram
< - denotes less than the detection limi
--- - denotes not analyzed/applicable
DCA - denotes dichloroethane
EDB - denotes ethylene dibromide
MTBE - denotes methyl tertiary butyl ether
DIPE - denotes di-isopropyl ether
ETBE - denotes ethyl tertiary butyl ether
TAME - denotes tertiary amyl ether
TBA - denotes tertiary butyl alcohol

Table 3a
Grab Groundwater Sample Results
TPH and BTEX
Shore Acres Gas
403 East 12th Street
Oakland, California

Sample ID	Collection Date	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
Excavation							
Pit Sample 1	August 2009	**21,000**	**21,000**	**3,800**	**1,000**	**1,200**	**3,700**
Direct Push Grab Groundwater Samples							
SB-1	April 2010	---	**60**	**2.9**	**6.7**	**2.1**	**9.7**
SB-2		---	<50	<0.5	<0.5	<0.5	<1.0
SB-3		---	**170**	**1.5**	**11**	**4.8**	**27**
SB-4		---	**6,500**	**78**	**440**	**190**	**960**
SB-5		---	<50	<0.5	<0.5	<0.5	<1.0
SB-6		---	**440**	<20	<20	<20	<40
SB-7		---	**270**	<12	<12	<12	<25
SB-8		---	<50	**0.6**	**1.3**	**0.6**	**3.3**
SB-9		---	<50	<10	<10	<10	<20
SB-10	December 2011	---	<50	<0.5	<0.5	<0.5	<1.0
SB-11		---	**2,300**	**83**	**1.9**	**140**	**43**
SB-12		---	**4,700**	**620**	**290**	**84**	**400**
SB-13		---	**400**	**51**	**2.4**	**4.2**	**9.7**
SB-14		---	<50	**1.7**	<0.5	**2.1**	<1.0
SB-15		---	**320**	**32**	**0.7**	**33**	**25**
SB-16		---	**4,800**	**1,600**	**10**	**49**	<20
SB-17		---	**990**	**290**	**7.2**	**27**	**4.3**
SB-18		---	**560**	**8.7**	**4.9**	**23**	**83**
SB-19		---	**260**	**7.1**	<0.5	**16**	**7.0**
SB-21		---	<50	<0.5	<0.5	<0.5	<1.0

Notes:

TPHd - denotes total petroleum hydrocarbons as diesel

TPHg - denotes total petroleum hydrocarbons as gasoline

ug/L - denotes micrograms per liter

< - denotes less than the detection limit

--- - denotes not analyzed/applicable

Table 3b
Grab Groundwater Sample Results
Oxygenates and Lead Scavengers
Shore Acres Gas
403 East 12th Street
Oakland, California

Sample ID	Collection Date	DIPE (ug/L)	ETBE (ug/L)	MTBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)
Excavation								
Water	February 2000	<10	<10	**15,000**	**39**	**17,000**	<10	<10
Direct Push Grab Groundwater Samples								
SB-1	April 2010	<0.5	<0.5	**14**	<0.5	<5.0	<0.5	<0.5
SB-2		<0.5	<0.5	**45**	<0.5	<5.0	<0.5	<0.5
SB-3		<0.5	<0.5	**110**	<0.5	**32**	<0.5	<0.5
SB-4		<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0
SB-5		<0.5	<0.5	**0.6**	<0.5	<5.0	<0.5	<0.5
SB-6		<20	<20	**4,000**	<20	<200	<20	<20
SB-7		<12	<12	**2,500**	<12	<120	<12	<12
SB-8		<0.5	<0.5	**26**	<0.5	**98**	<0.5	<0.5
SB-9		<10	<10	**1,800**	<10	**5,300**	<10	<10
SB-10	December 2011	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-11		<1.0	<1.0	**22**	<1.0	**140**	<1.0	<1.0
SB-12		<5.0	<5.0	**100**	<5.0	**550**	<5.0	<5.0
SB-13		<2.0	<2.0	**39**	<2.0	**3,900**	<2.0	<2.0
SB-14		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-15		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-16		<10	<10	<10	<10	<100	<10	<10
SB-17		<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-18		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-19		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-21		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5

Notes:

ug/L - denotes micrograms per liter
< - denotes less than the detection limit
DCA - denotes dichloroethane
EDB - denotes ethylene dibromide
MTBE - denotes methyl tertiary butyl ether
DIPE - denotes di-isopropyl ether
ETBE - denotes ethyl tertiary butyl ether
TAME - denotes tertiary amyl ether
TBA - denotes tertiary butyl alcohol

Table 4a
Monitoring Well Data
Water Level, TPH, and BTEX
Shore Acres Gas
403 East 12th Street
Oakland, California

Well ID TOC	Date Measured	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft amsl)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
Monitoring Wells									
MW-1	6/23/2011	10.46	20.35	<250	23,000	4,500	820	1,700	3,800
	9/22/2011	12.13	18.68	<50	21,000	4,000	1,500	980	3,000
	12/11/2011	11.69	19.12	---	23,000	2,900	1,000	720	3,000
	3/30/2012	Inaccessible							
	6/1/2012	11.04	19.77	---	40,000	4,100	800	2,700	6,100
	9/14/2012	12.96	17.85	<100	20,000	2,700	160	830	2,600
	3/27/2013	8.57	22.24	<50	15,000	1,700	150	400	830
	5/20/2013	8.57	22.24	<100	22,000	2,800	870	560	2,000
	9/4/2013	9.29	21.52	<250	12,000	2,900	130	190	370
	12/6/2013	9.11	21.70	<120	15,000	3,000	780	580	2,400
	6/27/2014	8.92	21.89	<120	15,000	2,500	280	2,400	2,400
	9/19/2014	10.98	19.83	---	11,000	530	190	460	950
	12/15/2014	7.66	23.15	---	11,000	1,100	140	310	420
	3/31/2015	8.81	22.00	---	38,000	1,200	230	810	2,600
	9/18/2015	12.23	18.58	---	7,600	890	38	240	360
	12/16/2015	12.02	18.79	---	**8,900**	**580**	**16**	**110**	**110**
MW-2	6/23/2011	10.70	20.59	<250	13,000	1,000	160	370	1,600
	9/22/2011	12.42	18.87	<50	12,000	300	130	470	1,400
	12/11/2011	11.98	19.31	---	8,300	170	120	450	1,500
	3/30/2012	8.55	22.74	<250	17,000	850	700	710	2,900
	6/1/2012	11.26	20.03	---	5,300	830	260	630	1,700
	9/14/2012	13.11	18.18	<50	10,000	260	190	600	1,900
	3/27/2013	9.43	21.86	<50	12,000	440	98	320	810
	5/20/2013	9.41	21.88	<100	6,600	300	74	190	500
	9/4/2013	10.11	21.18	<100	5,300	300	50	180	280
	12/6/2013	9.93	21.36	<50	4,300	280	39	140	160
	6/27/2014	9.93	21.36	<50	1,300	200	22	85	160
	9/19/2014	12.49	18.80	---	990	42	12	97	110
	12/15/2014	8.65	22.64	---	85	14	3.3	5.2	13
	3/31/2015	9.83	21.46	---	---	---	---	---	---
	9/18/2015	12.45	18.84	---	1,300	29	8.9	44	120
	12/16/2015	12.57	18.72	---	**880**	**8.2**	**2.9**	**16**	**30**

Table 4a
Monitoring Well Data
Water Level, TPH, and BTEX
Shore Acres Gas
403 East 12th Street
Oakland, California

Well ID TOC	Date Measured	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft amsl)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
MW-3	6/23/2011	10.79	20.51	<250	55,000	15,000	3,600	2,000	4,300
	9/22/2011	12.60	18.70	<250	77,000	15,000	3,900	1,700	4,900
	12/11/2011	12.13	19.17	---	64,000	12,000	3,100	1,600	4,500
	3/30/2012	7.90	23.40	<120	100,000	17,000	10,000	2,000	8,400
	6/1/2012	11.47	19.83	---	83,000	15,000	6,000	2,900	10,000
	9/14/2012	13.42	17.88	<200	69,000	10,000	1,500	1,800	5,900
	3/27/2013	9.15	22.15	<200	63,000	7,100	2,100	1,900	7,700
	5/20/2013	9.16	22.14	<250	80,000	9,700	2,900	2,400	8,600
	9/4/2013	9.87	21.43	<250	47,000	7,200	470	1,200	5,000
	12/6/2013	9.69	21.61	<50	19,000	5,600	240	520	1,600
	6/27/2014	9.49	21.81	<50	12,000	5,800	240	860	760
	9/19/2014	11.62	19.68	---	9,500	610	160	220	400
	12/15/2014	8.10	23.20	---	1,300	260	69	39	120
	3/31/2015	9.37	21.93	---	13,000	1,300	270	230	700
	9/18/2015	13.13	18.17	---	8,300	1,000	150	150	440
	12/16/2015	13.09	18.21	---	**11,000**	**1,100**	**130**	**290**	**350**
MW-4	6/23/2011	10.62	20.59	<250	47,000	3,500	7,100	2,300	11,000
	9/22/2011	12.25	18.96	<250	46,000	2,000	2,400	1,100	5,300
	12/11/2011	11.89	19.32	---	46,000	2,100	3,400	1,800	7,000
	3/30/2012	8.51	22.70	<250	60,000	6,800	8,200	1,200	5,700
	6/1/2012	11.14	20.07	---	72,000	9,700	8,500	2,300	9,000
	9/14/2012	12.97	18.24	<50	15,000	940	880	450	1,700
	3/27/2013	9.05	22.16	<50	25,000	1,800	2,200	660	2,500
	5/20/2013	9.03	22.18	<250	18,000	1,600	1,700	470	1,900
	9/4/2013	9.68	21.53	<50	15,000	510	410	260	820
	12/6/2013	9.54	21.67	<50	9,600	630	650	240	970
	6/27/2014	9.58	21.63	<50	3,300	550	2,900	200	420
	9/19/2014	11.61	19.60	---	2,100	110	54	92	210
	12/15/2014	8.45	22.76	---	720	58	32	29	33
	3/31/2015	9.46	21.75	---	---	---	---	---	---
	9/18/2015	12.03	19.18	---	17,000	130	33	70	200
	12/16/2015	12.41	18.80	---	**8,200**	**160**	**44**	**88**	**130**

Table 4a
Monitoring Well Data
Water Level, TPH, and BTEX
Shore Acres Gas
403 East 12th Street
Oakland, California

Well ID TOC	Date Measured	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft amsl)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
MW-5	6/23/2011	10.12	21.23	<250	130,000	7,100	25,000	13,000	94,000
	9/22/2011	12.53	18.82	<250	120,000	6,900	7,600	3,800	17,000
	12/11/2011	12.09	19.26	---	110,000	7,800	14,000	4,200	20,000
	3/30/2012	8.06	23.29	Sheen - not sampled					
	6/1/2012	11.38	19.97	Sheen - not sampled					
	9/14/2012	13.61	17.74	Free product - not sampled					
	3/27/2013	9.21	22.14	Free product - not sampled					
	5/20/2013	9.17	22.18	Free product - not sampled					
	9/4/2013	9.70	21.65	Free product - not sampled					
	12/6/2013	9.67	21.68	<250	81,000	10,000	13,000	5,500	21,000
	6/27/2014	9.51	21.84	Free product - not sampled					
	9/19/2014	12.91	18.44	---	56,000	1,000	270	1,000	4,100
	12/15/2014	---	---	---	13,000	840	530	450	1,700
	3/31/2015	9.36	21.99	---	34,000	1,100	570	500	2,000
	9/18/2015	---	---	---	9,800	290	23	140	270
	12/16/2015	---	---	---	**6,100**	**220**	**5.8**	**92**	**35**
MW-6	6/23/2011	10.43	20.36	<250	11,000	2,400	120	480	840
	9/22/2011	12.10	18.69	<50	15,000	1,500	270	880	2,500
	12/11/2011	11.69	19.10	---	13,000	660	190	610	1,500
	3/30/2012	7.50	23.29	<250	9,500	1,200	160	250	520
	6/1/2012	11.04	19.75	---	23,000	2,200	220	1,300	3,000
	9/14/2012	12.96	17.83	<50	14,000	1,000	86	420	1,200
	3/27/2013	---	---	Inaccessible					
	5/20/2013	---	---	Inaccessible					
	9/4/2013	9.19	21.60	<100	9,500	1,400	120	1,400	1,600
	12/6/2013	9.03	21.76	<100	14,000	1,200	24	1,400	810
	6/27/2014	8.80	21.99	<100	9,800	1,200	75	2,800	530
	9/19/2014	10.68	20.11	---	6,500	240	21	490	110
	12/15/2014	7.62	23.17	---	4,700	520	25	110	43
	3/31/2015	8.75	22.04	---	10,000	330	12	80	73
	9/18/2015	11.61	19.18	---	7,000	430	24	120	110
	12/16/2015	11.58	19.21	---	**8,200**	**460**	**12**	**17**	**26**

Table 4a
Monitoring Well Data
Water Level, TPH, and BTEX
Shore Acres Gas
403 East 12th Street
Oakland, California

Well ID TOC	Date Measured	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft amsl)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
DPE Wells									
EW-1	6/28/2011	---	---	---	20,000	2,000	490	1,000	2,400
	9/22/2011	12.55	18.71	<120	39,000	3,900	610	1,400	4,600
	12/11/2011	12.09	19.17	---	27,000	2,600	270	1,400	4,400
	3/30/2012	8.06	23.20	<120	21,000	3,100	160	910	2,300
	6/1/2012	11.42	19.84	---	21,000	2,800	100	1,200	3,100
	9/14/2012	13.37	17.89	<50	22,000	1,900	50	1,000	2,600
	3/27/2013	9.06	22.20	<50	15,000	630	36	360	590
	5/20/2013	9.06	22.20	<100	11,000	600	28	210	350
	9/4/2013	9.77	21.49	<50	9,300	610	19	170	250
	12/6/2013	9.63	21.83	<100	11,000	740	17	260	340
	6/27/2014	9.55	21.91	<100	12,000	1,400	210	1,900	2,400
	9/19/2014	12.41	19.05	---	28,000	1,000	450	1,400	3,900
	12/15/2014	8.20	23.26	---	4,000	560	29	150	150
	3/31/2015	9.30	22.16	---	---	---	---	---	---
	9/18/2015	13.25	18.21	---	6,900	370	5.5	190	210
	12/16/2015	13.22	18.24	---	**6,000**	**250**	**5.3**	**31**	31
EW-2	6/28/2011	---	---	---	33,000	3,100	2,000	790	3,500
	9/22/2011	12.50	18.90	<250	66,000	2,400	4,500	2,000	11,000
	12/11/2011	12.12	19.28	---	70,000	2,800	6,900	2,700	13,000
	3/30/2012	8.48	22.92	<250	57,000	5,800	5,500	1,200	5,400
	6/1/2012	11.40	20.00	---	82,000	8,800	8,600	3,300	13,000
	9/14/2012	13.27	18.13	<100	32,000	2,600	2,400	1,000	4,500
	3/27/2013	9.24	22.16	<100	18,000	940	790	390	1,700
	5/20/2013	9.21	22.19	<50	10,000	540	430	220	790
	9/4/2013	9.88	21.52	<250	10,000	680	580	480	1,700
	12/6/2013	9.96	21.47	<50	13,000	620	380	350	1,600
	6/27/2014	9.85	21.58	<50	27,000	3,200	5,600	1,200	8,000
	9/19/2014	16.80	14.63	---	18,000	690	1,300	360	2,400
	12/15/2014	8.73	22.70	---	11,000	510	500	160	1,100
	3/31/2015	9.90	21.53	---	---	---	---	---	---
	9/18/2015	15.10	16.33	---	16,000	1,400	2,400	520	3,400
	12/16/2015	16.57	14.86	---	**29,000**	**1,400**	**3,300**	**400**	**2,500**

Table 4a
Monitoring Well Data
Water Level, TPH, and BTEX
Shore Acres Gas
403 East 12th Street
Oakland, California

Well ID TOC	Date Measured	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft amsl)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
EW-3	5/20/2013	8.82	---	<50	1,300	430	540	280	1,000
	9/4/2013	9.49	---	<100	9,800	480	220	560	1,800
	12/6/2013	10.05	---	<50	10,000	810	580	260	1,100
	6/27/2014	9.90	---	<50	27,000	4,300	4,300	1,200	7,900
	9/19/2014	13.00	---	---	15,000	670	650	530	2,400
	12/15/2014	8.20	---	---	26,000	1,200	1,100	350	2,000
	3/31/2015	9.31	---	---	8,000	170	18	130	560
	9/18/2015	13.98	---	---	12,000	340	110	180	1,900
	12/16/2015	14.31	---	---	11,000	360	75	110	920
EW-4	5/20/2013	9.12	---	<50	8,100	720	160	94	430
	9/4/2013	9.85	---	<250	11,000	990	580	310	1,200
	12/6/2013	9.62	---	<50	4,400	150	170	140	670
	6/27/2014	9.47	---	<50	8,400	1,500	940	540	2,100
	9/19/2014	12.48	---	---	9,000	680	1,600	450	3,000
	12/15/2014	8.50	---	---	7,700	570	170	320	1,000
	3/31/2015	9.78	---	---	23,000	1,000	1,200	420	1,700
	9/18/2015	15.45	---	---	7,200	860	62	55	130
	12/16/2015	16.08	---	---	5,200	1,200	35	40	81

Notes:

TOC - denotes top of casing elevation
TPHg - denotes total petroleum hydrocarbons as gasoline
TPHd - denotes total petroleum hydrocarbons as diesel
ft bgs - denotes feet below top of casing
ft amsl - denotes feet above mean sea level
ug/L - denotes micrograms per liter
< - denotes less than the detection limit
--- - denotes not available/applicable
FLH - denotes floating liquid hydrocarbons
* - denotes less than six inches of water and considered dry

Table 4b
Monitoring Well Data
Oxygenates and Lead Scavengers
Shore Acres Gas
403 East 12th Street
Oakland, California

Well ID TOC	Date Measured	DIPE (ug/L)	ETBE (ug/L)	MTBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)
Monitoring Wells								
MW-1	6/23/2011	<25	<25	3,000	<25	3,900	<25	<25
	9/22/2011	<50	<50	2,600	<50	2,500	<50	<50
	12/11/2011	<20	<20	1,800	<20	1,600	<20	<20
	3/30/2012	Inaccessible						
	6/1/2012	<20	<20	2,800	<20	1,300	<20	<20
	9/14/2012	<10	<10	2,200	<10	1,600	<10	<10
	3/27/2013	<0.5	<0.5	590	<0.5	350	<0.5	<0.5
	5/20/2013	<10	<10	1,100	<10	620	<10	<10
	9/4/2013	<10	<10	240	<10	<100	<10	<10
	12/6/2013	<5.0	<5.0	350	<50	<100	<5.0	<5.0
	6/27/2014	<10	<10	97	<10	<100	<10	<10
	9/19/2014	<10	<10	150	<10	<100	<10	<10
	12/15/2014	<0.5	<0.5	310	<0.5	98	<0.5	<0.5
	3/31/2015	<5.0	<5.0	330	<5.0	<50	<5.0	<5.0
	9/18/2015	<5.0	<5.0	150	<5.0	<50	<5.0	<5.0
	12/16/2015	<5.0	<5.0	57	<5.0	<50	<5.0	<5.0
MW-2	6/23/2011	<10	<10	240	<10	640	<10	<10
	9/22/2011	<5.0	<5.0	110	<5.0	260	<5.0	<5.0
	12/11/2011	<2.5	<2.5	45	<2.5	110	<2.5	<2.5
	3/30/2012	<5.0	<5.0	140	<5.0	490	<5.0	<5.0
	6/1/2012	<5.0	<5.0	180	<5.0	490	<5.0	<5.0
	9/14/2012	<5.0	<5.0	65	<5.0	190	<5.0	<5.0
	3/27/2013	<0.5	<0.5	120	<0.5	930	<0.5	<0.5
	5/20/2013	<2.5	<2.5	120	<2.5	1,800	<2.5	<2.5
	9/4/2013	<5.0	<5.0	100	<5.0	780	<5.0	<5.0
	12/6/2013	<5.0	<5.0	63	<5.0	230	<5.0	<5.0
	6/27/2014	<5.0	<5.0	21	<5.0	<50	<5.0	<5.0
	9/19/2014	<5.0	<5.0	16	<5.0	<50	<5.0	<5.0
	12/15/2014	<0.5	<0.5	7.3	<0.5	23	<0.5	<0.5
	3/31/2015	---	---	---	---	---	---	---
	9/18/2015	<0.5	<0.5	4.1	<0.5	<5.0	<0.5	<0.5
	12/16/2015	<0.5	<0.5	1.0	<0.5	<5.0	<0.5	<0.5

Table 4b
Monitoring Well Data
Oxygenates and Lead Scavengers
Shore Acres Gas
403 East 12th Street
Oakland, California

Well ID TOC	Date Measured	DIPE (ug/L)	ETBE (ug/L)	MTBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)
MW-3	6/23/2011	<100	<100	8,200	<100	6,400	<100	<100
	9/22/2011	<100	<100	11,000	<100	2,800	<100	<100
	12/11/2011	<100	<100	7,400	<100	1,800	<100	<100
	3/30/2012	<100	<100	13,000	<100	<1,000	<100	<100
	6/1/2012	<50	<50	12,000	<50	<500	<50	<50
	9/14/2012	<50	<50	9,400	<50	<500	<50	<50
	3/27/2013	<0.5	<0.5	7,900	<0.5	3,800	<0.5	<0.5
	5/20/2013	<25	<25	10,000	<25	5,000	<25	<25
	9/4/2013	<25	<25	5,300	<25	2,100	<25	<25
	12/6/2013	<25	<25	1,400	<25	640	<25	<25
	6/27/2014	<25	<25	520	<25	260	<25	<25
	9/19/2014	<25	<25	390	<25	370	<25	<25
	12/15/2014	<0.5	<0.5	110	<0.5	140	<0.5	<0.5
	3/31/2015	<5.0	<5.0	980	<5.0	610	<5.0	<5.0
	9/18/2015	<5.0	<5.0	410	<5.0	410	<5.0	<5.0
	12/16/2015	<5.0	<5.0	290	<5.0	<50	<5.0	<5.0
MW-4	6/23/2011	<50	<50	<50	<50	<500	<50	<50
	9/22/2011	<25	<25	<25	<25	<250	<25	<25
	12/11/2011	<25	<25	<25	<25	<250	<25	<25
	3/30/2012	<50	<50	56	<50	<500	<50	<50
	6/1/2012	<50	<50	180	<50	<500	<50	<50
	9/14/2012	<20	<20	<20	<20	<200	<20	<20
	3/27/2013	<0.5	<0.5	77	<0.5	450	<0.5	<0.5
	5/20/2013	<10	<10	61	<10	360	<10	<10
	9/4/2013	<2.5	<2.5	17	<2.5	64	<2.5	<2.5
	12/6/2013	<2.5	<2.5	6.6	<2.5	<25	<2.5	<2.5
	6/27/2014	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5
	9/19/2014	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5
	12/15/2014	<0.5	<0.5	<0.5	<0.5	13	<0.5	<0.5
	3/31/2015	---	---	---	---	---	---	---
	9/18/2015	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0
	12/16/2015	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0

Table 4b
Monitoring Well Data
Oxygenates and Lead Scavengers
Shore Acres Gas
403 East 12th Street
Oakland, California

Well ID TOC	Date Measured	DIPE (ug/L)	ETBE (ug/L)	MTBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)
MW-5	6/23/2011	<120	<120	440	<120	<1,200	<120	<120
	9/22/2011	<50	<50	670	<50	1,500	<50	<50
	12/11/2011	<120	<120	690	<120	1,600	<120	<120
	3/30/2012	Sheen - not sampled						
	6/1/2012	Sheen - not sampled						
	9/14/2012	Free product - not sampled						
	3/27/2013	Free product - not sampled						
	5/20/2013	Free product - not sampled						
	9/4/2013	Free product - not sampled						
	12/6/2013	<25	<25	270	<25	<250	<25	<25
	6/27/2014	Free product - not sampled						
	9/19/2014	<25	<25	75	<25	<250	<25	<25
	12/15/2014	<0.5	<0.5	370	<0.5	340	<0.5	<0.5
	3/31/2015	<5.0	<5.0	71	<5.0	280	<5.0	<5.0
	9/18/2015	<5.0	<5.0	15	<5.0	<50	<5.0	<5.0
	12/16/2015	<5.0	<5.0	17	<5.0	<50	<5.0	<5.0
MW-6	6/23/2011	<25	<25	1,100	<25	4,000	<25	<25
	9/22/2011	<12	<12	600	<12	2,800	<12	<12
	12/11/2011	<10	<10	290	<10	1,300	<10	<10
	3/30/2012	<10	<10	990	<10	3,500	<10	<10
	6/1/2012	<10	<10	1,400	<10	2,200	<10	<10
	9/14/2012	<10	<10	580	<10	2,000	<10	<10
	3/27/2013	Inaccessible						
	5/20/2013	Inaccessible						
	9/4/2013	<5.0	<5.0	29	<5.0	140	<5.0	<5.0
	12/6/2013	<2.5	<2.5	12	<2.5	<25	<2.5	<2.5
	6/27/2014	<2.5	<2.5	4.9	<2.5	<25	<2.5	<2.5
	9/19/2014	<2.5	<2.5	7.1	<2.5	<25	<2.5	<2.5
	12/15/2014	<0.5	<0.5	33	<0.5	88	<0.5	<0.5
	3/31/2015	<5.0	<5.0	12	<5.0	<50	<5.0	<5.0
	9/18/2015	<2.5	<2.5	9.6	<2.5	<25	<2.5	<2.5
	12/16/2015	<5.0	<5.0	10	<5.0	<50	<5.0	<5.0

Table 4b
Monitoring Well Data
Oxygenates and Lead Scavengers
Shore Acres Gas
403 East 12th Street
Oakland, California

Well ID TOC	Date Measured	DIPE (ug/L)	ETBE (ug/L)	MTBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)
DPE Wells								
EW-1	6/28/2011	<25	<25	1,500	<25	5,300	<25	<25
	9/22/2011	<50	<50	640	<50	1,800	<50	<50
	12/11/2011	<25	<25	490	<25	1,000	<25	<25
	3/30/2012	<20	<20	370	<20	1,100	<20	<20
	6/1/2012	<25	<25	500	<25	1,700	<25	<25
	9/14/2012	<10	<10	370	<10	1,400	<10	<10
	3/27/2013	<0.5	<0.5	270	<0.5	560	<0.5	<0.5
	5/20/2013	<5.0	<5.0	250	<5.0	560	<5.0	<5.0
	9/4/2013	<2.5	<2.5	220	<2.5	590	<2.5	<2.5
	12/6/2013	<2.5	<2.5	130	<2.5	270	<2.5	<2.5
	6/27/2014	<10	<10	40	<10	<100	<10	<10
	9/19/2014	<20	<20	300	<20	<200	<20	<20
	12/15/2014	<0.5	<0.5	170	<0.5	110	<0.5	<0.5
	3/31/2015	---	---	---	---	---	---	---
	9/18/2015	<2.5	<2.5	100	<2.5	<25	<2.5	<2.5
	12/16/2015	<5.0	<5.0	24	<5.0	<50	<5.0	<5.0
EW-2	6/28/2011	<25	<25	670	<25	4,100	<25	<25
	9/22/2011	<50	<50	740	<50	1,600	<50	<50
	12/11/2011	<50	<50	540	<50	880	<50	<50
	3/30/2012	<50	<50	1,800	<50	2,800	<50	<50
	6/1/2012	<50	<50	2,600	<50	3,300	<50	<50
	9/14/2012	<20	<20	1,100	<20	2,400	<20	<20
	3/27/2013	<0.5	<0.5	360	<0.5	1,800	<0.5	<0.5
	5/20/2013	<2.5	<2.5	390	<2.5	2,600	<2.5	<2.5
	9/4/2013	<5.0	<5.0	460	<5.0	1,400	<5.0	<5.0
	12/6/2013	<10	<10	210	<10	560	<10	<10
	6/27/2014	<10	<10	110	<10	<100	<10	<10
	9/19/2014	<25	<25	96	<25	<250	<25	<25
	12/15/2014	<0.5	<0.5	94	<0.5	66	<0.5	<0.5
	3/31/2015	---	---	---	---	---	---	---
	9/18/2015	<10	<10	50	<10	<100	<10	<10
	12/16/2015	<50	<50	58	<50	<500	<50	<50

Table 4b
Monitoring Well Data
Oxygenates and Lead Scavengers
Shore Acres Gas
403 East 12th Street
Oakland, California

Well ID TOC	Date Measured	DIPE (ug/L)	ETBE (ug/L)	MTBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)
EW-3	5/20/2013	<2.5	<2.5	140	<2.5	1,100	<2.5	<2.5
	9/4/2013	<2.5	<2.5	120	<2.5	650	<2.5	<2.5
	12/6/2013	<2.5	<2.5	96	<2.5	690	<2.5	<2.5
	6/27/2014	<5.0	<5.0	150	<5.0	360	<5.0	<5.0
	9/19/2014	<25	<25	75	<25	<250	<25	<25
	12/15/2014	<0.5	<0.5	160	<0.5	700	<0.5	<0.5
	3/31/2015	<5.0	<5.0	38	<5.0	68	<5.0	<5.0
	9/18/2015	<5.0	<5.0	120	<5.0	<50	<5.0	<5.0
	12/16/2015	<5.0	<5.0	81	<5.0	<50	<5.0	<5.0
EW-4	5/20/2013	<5.0	<5.0	480	<5.0	1,900	<5.0	<5.0
	9/4/2013	<5.0	<5.0	220	<5.0	1,300	<5.0	<5.0
	12/6/2013	<5.0	<5.0	58	<5.0	430	<5.0	<5.0
	6/27/2014	<2.5	<2.5	82	<2.5	65	<2.5	<2.5
	9/19/2014	<20	<20	120	<20	520	<20	<20
	12/15/2014	<0.5	<0.5	100	<0.5	110	<0.5	<0.5
	3/31/2015	<5.0	<5.0	140	<5.0	310	<5.0	<5.0
	9/18/2015	<5.0	<5.0	140	<5.0	420	<5.0	<5.0
	12/16/2015	<5.0	<5.0	87	<5.0	390	<5.0	<5.0

Notes:

ug/L - denotes micrograms per liter
< - denotes less than the detection limit
DCA - denotes dichloroethane
EDB - denotes ethylene dibromide
MTBE - denotes methyl tertiary butyl ether
DIPE - denotes di-isopropyl ether
ETBE - denotes ethyl tertiary butyl ether
TAME - denotes tertiary amyl ether
TBA - denotes tertiary butyl alcohol
--- - denotes no data available

Table 5a
Soil Vapor Extraction System Performance Calculations
Shore Acres Gas
403 East 12th Street
Oakland, California

Date	Meter* (hours)	Influent Flow Rate (scfm)	Influent Sample Results			Extraction Rates (lb/day)			Cumulative Extraction (lb)		
			TPHg (ppmv)	Benzene (ppmv)	MTBE (ppmv)	TPHg (lb/day)	Benzene (lb/day)	MTBE (lb/day)	TPHg (lb)	Benzene (lb)	MTBE (lb)
05/27/14	590.3	106.0	2,500	14	0.73	112	0.5	0.0	2,745	11.4	0.7
06/17/14	961.5	125.0	40	1.4	0.18	2.1	0.05	0.0	2,778	12.3	0.8
06/27/14	988.2	Unit shut down for Carbon Change Out									
08/15/14	988.2	Restart Unit									
08/19/14	992.6	125.0	33	0.79	0.13	1.7	0.03	0.0	2,780	12.3	0.8
09/25/14	1,535.7	163.0	2,100	15	< 0.1	144	0.77	0.0	6,042	29.7	0.9
10/28/14	1,750.4	146.0	130	2.4	0.44	8.0	0.11	0.0	6,114	30.6	1.1
12/09/14	2,142.4	154.0	610	2.6	0.23	40	0.13	0.0	6,760	32.7	1.3
02/18/15	2,708.3	System shut down, propane tank removed from site									
08/11/15	2,708.9	System restarted									
08/25/15	2,864.4	125.0	344	2.7	< 0.1	18	0.11	0.0	7,305	32.6	1.3
09/29/15	3,428.0	128.0	91	1.4	< 0.1	5	0.06	0.0	7,420	33.9	1.4
10/26/15	3,742.1	122.0	225	0.97	< 0.1	12	0.04	0.0	7,571	34.4	1.5
11/23/15	4,175.9	150.0	407	1.2	< 0.1	26	0.06	0.0	8,036	35.4	1.6
12/16/15	4,613.3	148.0	102	0.84	< 0.1	6	0.04	0.0	8,152	36.1	1.6
12/16/15	4,613.3	Unit shut down for Carbon Change Out									
01/27/16	4,761.0	146.0	23	0.73	< 0.1	1.4	0.03	0.0	8,161	36.1	1.6
03/21/16	5,797.5	138.0	20	0.86	< 0.1	1.2	0.04	0.0	8,211	37.7	1.8
04/11/16	6,279.7	135.0	43	0.86	< 0.1	2.4	0.04	0.0	8,260	38.4	1.9

MW_{TPHg} = Molecular Weight of TPHg = 105 MW_{MTBE} = Molecular Weight of Methyl tert-butyl ether = 88.15
$MW_{Benzene}$ = Molecular Weight of Benzene = 78.11

days of operation during quarter 69.4

ft^3 = cubic feet min = minutes lb/day = pounds per day
ppmv = parts per million by volume = ft^3 / $1x10^6$ ft^3 scfm = standard cubic feet per minute

NS = not sampled NA = not analyzed NC = not calculated

Extraction rate = (flow rate(ft^3/min) x concentration (ft^3 / $1x10^6$ ft^3) x MW_{TPHg}(lb/lb-mol) x 1440 min/day)/(359 ft^3/lb-mol*)

* - Hour meter readings does not match field data sheets because hour meter was 5472.6 when unit was started.

Table 5b
Soil Vapor Extraction System Destruction Efficiency and Emission Calculations
Shore Acres Gas
403 East 12th Street
Oakland, California

Date	Stack Flow Rate (scfm)	Stack Sample Results (ppmv)			Emission Rates (lb/day)			Destruction Efficiency (%)		
		TPHg	Benzene	MTBE	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE
05/27/14	106.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0
06/17/14	125.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0
08/19/14	125.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0
09/25/14	163.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.003	< 0.006	100.0	100.0	100.0
10/28/14	146.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.002	< 0.005	100.0	100.0	100.0
12/09/14	154.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.002	< 0.005	100.0	100.0	100.0
02/18/15	154.0	System shutdown and propane tank removed from site								
08/11/15	121.0	System restart								
08/25/15	125.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0
10/26/15	122.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0
11/23/15	150.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.002	< 0.005	100.0	100.0	100.0
12/16/15	148.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.002	< 0.005	100.0	100.0	100.0
12/16/15		System shutdown and propane tank removed from site								
01/27/16	146.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.002	< 0.005	100.0	100.0	100.0
03/21/16	138.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.005	100.0	100.0	100.0
04/11/16	135.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.005	100.0	100.0	100.0

Note: "<" indicates analytical method detection limit; method detection limits are used as stack concentrations to estimate emission rates.
Destruction efficiency is assumed to be 100%.

Sample Calculations

Emission rate = flow rate(ft^3/min) x concentration (ft^3 / 1x10^6 ft^3) x MW (lb/lb-mole)/359 (ft^3/lb-mole*) x 1440 min/day

Destruction Efficiency = [(Extraction rate - Emission rate)/Extraction rate] x 100%

Stack flow = Catox Influent + Natural Gas flow rate

ft^3 = cubic feet

ppmv = parts per million by volume = ft^3 / 1x10^6 ft^3

lb/day = pounds per day

min = minutes

scfm = standard cubic feet per minute

NS = not sampled

NA = Not applicable

Table 5c
Groundwater Treatment System Performance Data
Shore Acres Gas
403 East 12th Street
Oakland, California

DATE	TOTAL FLOW (gallons)	AVG. PERIOD FLOW RATE (gallons/min)	Influent Water Analytical Results			Estimated Removal Rates			Estimated Removal (Period)			Estimated Removal (Cumulative)		
			TPHg (ug/L)	Benzene (ug/L)	MTBE (ug/L)	TPHg (lb/day)	Benzene (lb/day)	MTBE (lb/day)	TPHg (pounds)	Benzene (pounds)	MTBE (pounds)	TPHg (pounds)	Benzene (pounds)	MTBE (pounds)
04/30/14	189,810							Unit Start Up						
06/27/14	358,850	2.02	18,600	2,600	96	0.45	0.063	0.002	26.21	3.66	0.13	26.21	3.66	0.13
08/19/14	360,060							Unit Stut Down for Carbon Change Out						
09/25/14	463,050	1.93	17,500	760	148	0.41	0.018	0.003	15.03	0.65	0.13	41.24	4.32	0.26
12/15/14	613,230	1.29	12,175	710	131	0.19	0.011	0.002	15.24	0.89	0.16	56.48	5.21	0.43
02/18/15	766,392	1.64	15,500	585	89	0.30	0.011	0.002	19.79	0.75	0.11	76.27	5.95	0.54
02/18/15	766,392							Unit Stut Down for Change from Propane to Natural Gas						
08/11/15	766,392							Unit Restarted						
09/18/15	849,579	1.52	10,525	743	103	0.19	0.014	0.002	40.72	2.87	0.40	117.00	8.83	0.94
12/16/15	1,082,639	1.82	12,800	803	63	0.28	0.018	0.001	35.49	2.23	0.17	152.49	11.05	1.11
12/16/15	1,082,639							Unit Stut Down for Carbon Change Out						
01/21/16	1,082,639							Unit Restarted						
03/22/16	1,239,526	1.79	9,750	515	52	0.21	0.011	0.001	20.28	1.07	0.11	172.77	12.13	1.22

156,887 total gallons pumped during current reporting period
2615 average gallons per day during current reporting period
1.8 average gallons per minute during current reporting period

20.28 1.07 0.11

Notes:
Influent concentrations are an average of extraction wells EW-1 through EW-4
Groundwater flow meter was 189,910 when unit was started up
Sample Calculations:
Extraction/ disposal rate = flow rate(gallons/min) * concentration (ug/L) * 3.785 L/gallon *lb/454,000,000 ug * 1440 min/day

NC - Not calculated
NS - Not Sampled
--- - Not Analyzed

MTBE - Methyl tertiary butyl ether
TPHg - Total Petroleum Hydrocarbons as gasoline
TBA -Tertiary butyl ether

lb/day - pounds per day
ug/L - micrograms per liter

APPENDICES

ENVIRONMENTAL COMPLIANCE GROUP, LLC
STANDARD OPERATING AND SAFETY AND LOSS CONTROL PROCEDURES

1.0 SOIL BORING/DRILLING SAMPLE COLLECTION AND CLASSIFICATION PROCEDURES

ECG will prepare a site-specific Health and Safety Plan as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR.1910.120). The document will be reviewed and signed by all ECG personnel and subcontractors prior to performing work at the site.

Prior to conducting and subsurface work at the site, Underground Services Alert (USA) will be contacted to delineate subsurface utilities near the site with surface markings. In addition, the first five feet of every location will be hand cleared to a diameter larger than the diameter of the auger or probe as a further precaution against damaging underground utilities. Sites that are currently operated as gas stations will be cleared with a private utility locator prior to drilling activities.

Soil samples to be submitted for chemical analyses are collected into brass or stainless steel tubes. The tubes are placed in an 18-inch long split-barrel sampler. The split-barrel sampler is driven its entire length hydraulically or by 140-pound drop hammer. The split-barrel sampler is removed from the borehole and the tubes are removed. When the tubes are removed from the split-barrel sampler, the tubes are trimmed and capped with Teflon sheets and plastic caps or the soil is removed from the tubes and placed in other appropriate sample containers. The samples are sealed, labeled, and placed in ice under chain-of-custody to be delivered to the analytical laboratory. All samples will be kept refrigerated until their delivery to the analytical laboratory.

One soil sample collected from each split-barrel sampler is field screened with a photoionization detector (PID), flame ionization detector (FID), or other equivalent field screening meter. The soil sample is sealed in a plastic bag or other appropriate container to allow volatilization of volatile organic compounds (VOCs). The field meter is used to measure the VOC concentration in the container's headspace and is recorded on the boring logs at the appropriate depth interval.

Other soil samples collected from each split-barrel sampler are inspected and documented to identify the soil stratigraphy beneath the site and classify the soil types according to the United Soil Classification System. The soil types are recorded on boring logs with the appropriate depth interval and any pertinent field observations. Drilling and sampling equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections and boreholes and after use.

2.0 SOIL EXCAVATION SAMPLE COLLECTION AND CLASSIFICATION PROCEDURES

Soil samples to be submitted for chemical analyses are collected into brass or stainless steel tubes or other appropriate containers. The samples are sealed, labeled, and placed in ice under chain-of-custody (COC) to be delivered to the analytical laboratory. All samples will be kept refrigerated until their delivery to the analytical laboratory.

Select soil samples are placed into a sealed plastic bag or other appropriate container and field screened using a PID, FID, or equivalent meter. Other soil samples collected are inspected and documented to identify the soil stratigraphy beneath the site and classify the soil types according to the United Soil Classification System. The soil types are recorded field notes with the appropriate depth interval and any pertinent field observations. Sampling equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections, and after use. Soil cuttings and rinseate water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

3.0 SAMPLE IDENTIFICATION AND COC PROCEDURES

Sample containers are labeled with job number, job name, sample collection time and date, sample collection point, and analyses requested. Sampling method, sampler's name, and any pertinent field observations are recorded on boring logs or excavation field notes. COC forms track the possession of the sample from the time of its collection until the time of its delivery to the analytical laboratory. During sample transfers, the person with custody of the samples will relinquish them to the next person by signing the COC and documenting the time and date. The analytical laboratory Quality Control/Quality Assurance (QA/QC) staff will document the receipt of the samples and confirm the analyses requested on the COC matches the sample containers and preservative used, if any. The analytical laboratory will assign unique log numbers for identification during the analyses and reporting. The log numbers will be added to the COC form and maintained in a log book maintained by the analytical laboratory.

4.0 ANALYTICAL LABORATORY QA/QC PROCEDURES

The analytical laboratory analyzes spikes, replicates, blanks, spiked blanks, and certified reference materials to verify analytical methods and results. The analytical laboratory QA/QC also includes:

Routine instrument calibration,
Complying with state and federal laboratory accreditation and certification programs,
Participation in U.S. EPA performance evaluation studies,
Standard operating procedures, and
Multiple review of raw data and client reports

5.0 HOLLOW STEM AUGER WELL INSTALLATION

Boreholes for wells are often drilled with a truck-mounted hollow stem auger drill rig. The borehole diameter is at least 4 inches wider than the outside diameter of the well casing. Soil samples are collected and screened as described in **Section 1.0** and decontamination procedures are also the same as described in **Section 1.0**.

Wells are cased with both blank and factory-perforated Schedule 40 PVC. The factory perforations are typically 0.020 inches wide by 1.5 inch long slots, with 42 slots per foot. A PVC cap is typically installed at the bottom of the casing with stainless steel screws. No solvents or cements are used in the construction of the wells. Well stabilizers or centering devices may be installed around the casing to ensure the filter material and grout in the annulus are evenly distributed. The casing is purchased pre-cleaned or steam cleaned and washed prior to installation in the borehole.

The casing is set inside the augers and sand, gravel, or other filter material is poured into the annulus to fill the borehole from the bottom to approximately 1-2 feet above the perforations. A two foot thick bentonite plug is placed above the filter material to prevent the grout from filling the filter pack. Neat cement or sand-cement grout is poured into the annulus from the top of the bentonite plug to the surface. For wells located in parking lots or driveways, or roads, a traffic rated well box is installed around the well. For wells located in landscaped areas or fields, a stovepipe well protection device is installed around the well. Soil cuttings and rinseate water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

6.0 MUD AND AIR ROTARY WELL INSTALLATION

Boreholes for wells can also be drilled with a truck-mounted air rotary or mud rotary drill rig. Air or mud can be used as a drill fluid to fill the borehole and prevent the borehole from caving in and remove drill cuttings. Mud or air can be chosen depending on the subsurface conditions. Soil samples are collected and screened as described in **Section 1.0** and decontamination procedures are also the same as described in **Section 1.0**.

Wells are cased with both blank and factory-perforated Schedule 40 PVC. The factory perforations are typically 0.020 inches wide by 1.5 inch long slots, with 42 slots per foot. A PVC cap is typically installed at the bottom of the casing with stainless steel screws. No solvents or cements are used in the construction of the wells. Well stabilizers or centering devices may be installed around the casing to ensure the filter material and grout in the annulus are evenly distributed. The casing is purchased pre-cleaned or steam cleaned and washed prior to installation in the borehole. Soil cuttings and drilling fluids are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

The casing is set inside the augers and sand, gravel, or other filter material is poured into the annulus to fill the borehole from the bottom to approximately 1-2 feet above the perforations. A two foot thick bentonite plug is placed above the filter material to prevent the grout from filling the filter pack. Neat cement or sand-cement grout is poured into the annulus from the top of the bentonite plug to the surface. For wells located in parking lots or driveways, or roads, a traffic rated well box is installed around the well. For wells located in landscaped areas or fields, a stovepipe well protection device is installed around the well. Soil cuttings and rinseate water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

7.0 WELL DEVELOPMENT

After well installation, the wells are developed to remove residual drilling materials from the annulus and to improve well production by fine materials from the filter pack. Possible well development methods include pumping, surging, bailing, jetting, flushing, and air lifting. Development water is temporarily stored onsite pending laboratory analytical results and proper transport and disposal. Development equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections and after use. After well development the wells are typically allowed to stabilize for at least 24 hours prior to purging and sampling.

8.0 LIQUID LEVEL MEASUREMENTS

Liquid level measurements are made with a water level meter and/or interface probe and disposable bailers. The probe tip attached to a measuring tape is lowered into the well and into the groundwater when a beeping tone indicates the probe is in the groundwater. The probe and measuring tape (graduated to hundredths of a foot) are slowly raised until the beeping stops and the depth to water measurement is recorded. If the meter makes a steady tone, this indicates the presence of floating liquid hydrocarbons (FLH) and the probe and measuring tape are raised until the steady tone stops and the depth to the FLH is measured. Once depth to water and depth to FLH (if present) has been recorded, the probe and measuring tape are lowered to the bottom of the well where the total depth of the well is measured. The depth to water, depth to FLH, and depth to bottom are measured again to confirm the results.

If FLH is encountered in the well, a disposable bailer is lowered into the well and brought back to the surface to confirm the thickness/presence of FLH. To minimize potential for cross contamination between wells, all measurements are done from cleanest to dirtiest well. Prior to beginning liquid level measurements, in between measurements in all wells, and at the completion of liquid level measurements, the water level probe and measuring tape is cleaned with solution (Alconox, Simple Green, or equivalent) and rinsed with deionized water.

9.0 WELL PURGING AND SAMPLING

Each well is typically purged of at least three well casing volumes of groundwater prior to collecting a groundwater sample. Purging can continue beyond three well casing volumes if field parameters including pH, temperature, electrical conductivity are not stabilizing during the purging process. If the well is purged dry before the three well casing volumes has been purged, the well is typically allowed to recharge to 80 percent of its initial water level before a groundwater sample is collected.

Purging equipment can include submersible pumps, PVC purging bailers, disposable bailers, air lift pumps, or pneumatic pumps. Prior to beginning well purging, in between each well purging, and at the completion of purging activities, all non-dedicated purging equipment is cleaned with solution (Alconox, Simple Green, or equivalent) and rinsed with deionized water.

Once the well has been purged, it will be sampled with a disposable bailer, PVC bailer, stainless steel bailer, or through a low flow groundwater pump. The groundwater sample is transferred from the bottom of the bailer to reduce volatilization to the appropriate sample container. The sample containers are specified by the analytical laboratory depending on the analyses requested. Sample containers typically include volatile organic compound (VOA) vials with septa of Teflon like materials. The groundwater sample is collected into the VOAs to minimize air bubbles and once the cap has been placed on the VOA, the VOA is tipped upside down to see if air bubbles are present in the VOA. Typically a duplicate VOA is collected from each well to be analyzed by the analytical laboratory, if warranted, to verify results.

Sample containers are labeled as described in **Section 3.0** and placed immediately in an ice chest and kept refrigerated until its delivery to the analytical laboratory. A trip blank may also be prepared by the analytical laboratory to travel with the ice chest during transport to the laboratory. Field blanks from equipment that has been decontaminated may be collected in between use in different wells to verify the decontamination procedure is effective. To minimize potential for cross contamination between wells, all wells are purged and sampled from cleanest to dirtiest well.

10.0 TEDLAR BAG SOIL VAPOR SAMPLING

Sampling equipment to collect Tedlar bag soil vapor samples includes an air pump, a Tedlar bag which can range in size from 1 to 10 liters, and 3/16-inch diameter polyethylene tubing. The air pump should be equipped with 3/16-inch hose barbs for the polyethylene tubing to attach to. The Tedlar bag must be equipped with a valve for filling and sealing the bag.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with a 3/16-inch hose barb. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. One end of the polyethylene tubing is connected to the sample collection port and one end is connected to the influent of the air pump, creating an air tight seal. The air pump is turned on and soil vapor from the sample collection port is pumped through the air pump for at least one minute. The air pump is turned off and one end of another piece of polyethylene tubing is connected to the effluent of the air pump and one end is connected to the valve on the Tedlar bag. The valve is opened and the air pump is turned on filling the Tedlar bag with the soil vapor sample until the bag has reached 75% capacity, when the valve on the Tedlar bag is closed and the air pump is turned off.

Tedlar bags are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.

11.0 SUMMA CANISTER SOIL VAPOR SAMPLING

Sampling equipment to collect Summa canister soil vapor samples includes a sterilized Summa stainless steel canister under vacuum, ¼-inch diameter polyethylene tubing, and a laboratory calibrated flow meter, if required.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with brass connection with silicone septa that has been threaded into a tapped hole on the piping network. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. One end of the polyethylene tubing is connected to the brass sample collection port and one end is connected to the canister valve or flow meter, creating an air tight seal. Prior to collecting the soil vapor sample, the valve on the Summa canister is opened to verify the Summa canister has the required vacuum which is recorded. Three well volumes of vapor will be purged at a rate less than 200 milliliters per minute (ml/min.), including sand pack pore volume from each soil vapor probe prior to sample collection. The sample valve or flow meter is opened and the soil vapor sample is collected into the Summa canister and the sample valve is closed and the final vacuum reading (typically greater than 5 inches per square inch) on the Summa canister is recorded.

Per the DTSC *Advisory Active Soil Gas Investigations*, April 2012, high quality soil gas data collection is driven by project-specific data quality objectives (DQOs) and can be enhanced by using a shroud and a gaseous tracer compound. This method of leak detection ensures that soil gas wells are properly constructed and the sample train components do not leak. Most gaseous tracer compounds do not affect target analyte measurements nor does their detection require sample dilution. Also, gaseous leak tracer compounds allow a quantitative determination of a leak either in the sampling train or from ambient air intrusion down the borehole.

The shroud will be designed to contain the entire sampling train and the soil gas well annulus. The sampling train will be constructed of material that does not react with the sample analytes and will not off gas or adsorb volatile compounds. The sampling equipment will be clean and shut-in tested prior to use. The gaseous leak tracer compound (isobutylene 100 ppm) concentration inside the shroud will be monitored frequently to verify initial concentrations. A photoionization detector will be used to monitor tracer gas concentrations.

Summa canisters are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory.

12.0 SYRINGE SOIL VAPOR SAMPLING

Sampling equipment to collect syringe soil vapor samples includes a sterilized, 100 cubic centimeter, gas tight syringe and silicone septa.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with brass connection with silicone septa that has been threaded into a tapped hole on the piping network. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. The syringe is inserted into the silicone septa and the plunger is purged or pumped at least three times. The sample is collected the fourth time the syringe plunger is extracted and the syringe is removed from the sample collection port and the needle on the syringe is capped with a rubber stopper.

Syringes are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory.

13.0 TEMPORARY SAMPLING POINTS

A temporary borehole is advanced using either a slam bar or a direct push drill rig. In the case of the slam bar, once the borehole has been created, a temporary soil vapor probe is inserted into the borehole and advanced with a slide hammer or other physical force two additional feet. A bentonite seal is then placed in the borehole above the soil vapor probe to create an air tight seal and prevent ambient air from entering the sample collection space. In the case of the direct push drill rig, the sampling rod is advanced to the desired depth with a 6-inch retractable vapor screen at the tip. The sample screen on the 6-inch vapor screen is removed and a bentonite seal is then placed in the borehole above the soil vapor probe to create an air tight seal and prevent ambient air from entering the sample collection space.

Once the bentonite seal has set, at least one hour, the soil vapor survey samples are collected into Tedlar bags as described in **Section 10.0** or Suma canisters as described in **Section 11.0.** Samples are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.

14.0 REPEATABLE SAMPLING POINTS

A borehole is advanced using either a hand auger or a drill rig. A 6-inch slotted probe with caps on both ends is placed in the borehole. A Swagelok fitting is attached to one end cap and 3/16-inch diameter Nylon tubing is attached to the Swagelok fitting. A one foot sand pack is placed around the probe and the remainder of the borehole is sealed with a layer of dry bentonite powder, followed by a layer of bentonite chips, and an additional layer of dry bentonite powder. A well box is placed on the surface of the repeatable sampling point and the excess Nylon tubing is placed inside the well box.

Soil vapor survey samples will be collected at least one week after probe installation. In addition, soil vapor survey samples will only be collected after five consecutive precipitation free days and after any onsite irrigation has been suspended.

The soil vapor survey samples are collected into Tedlar bags as described in **Section 10.0** or Summa canisters as described in **Section 11.0.** Tedlar bags or Summa canisters are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.

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2905 Railroad Avenue, Ceres, CA 95307
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Fax: (209) 581-9282

12 April 2016

Environmental Compliance Group, LLC
Mike Sgourakis
270 Vintage Drive
Turlock, CA 95382

RE: Shore Acres Gas Project Data

Enclosed are the results for sample(s) received on 03/25/16 15:40 by California Agriculture & Environmental Laboratory. The sample(s) were analyzed according to instructions in accompanying chain-of-custody. Results are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

The sample(s) will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

Thank you for the opportunity to service the needs of your company.

Sincerely,

Wayne Scott

Lab Manager

Argon Analytical Services, Inc.
CHAIN OF CUSTODY

03.2

S6008027160325C124

Project Information:
Project No: GHA.19009
Project Title: Shore Acres Gas
Location: 403 East 12th Street, Oakland, CA
Sampler's Name: (print)
Sampler's Signature: [signature]

Report To:
Consultant: Environmental Compliance Group, LLC
Address: 270 Vintage Drive, Turlock, CA 95382
Contact: Mike Sgourakis
Phone: 916.600.4580
Fax: 209.664.1040

Bill To:
Client: Environmental Compliance Group, LLC
Address: 270 Vintage Drive, Turlock, CA

Samples Submitted To:
Laboratory: Argon Labs
Address: 2905 Railroad Avenue, Ceres, CA 95307
Contact:
Phone: (209) 581-9280
Fax: (209) 581-9282
Date Results Required:
Date Report Required:

TURN AROUND TIME
RUSH ☐ 24 Hour ☐ 48 Hour ☐ Standard (5 days) ☐ Special (10-14 days) ☒

ANALYSIS

	Sample ID.	Date	Time	# Containers	Matrix	TPHg by EPA Method 8015M	BTEX, 6 oxygenates, 1,2-DCA, EDB by EPA Method 8260B									EDF Reports	COMMENTS
-01	MW-1	3/22/16	1230	3	water	X	X									X	Preservative
-02	MW-2	↓	1153	2	↓	↓	↓									↓	
-03	MW-3	↓	1248	3	↓	↓	↓									↓	
-04	MW-4	↓	1206	↓	↓	↓	↓									↓	
-05	MW-5	↓	1320	↓	↓	↓	↓									↓	
-06	MW-6	↓	1308	↓	↓	↓	↓									↓	
-07	EW-1	↓	1330	↓	↓	↓	↓									↓	
-08	EW-2	↓	1335	↓	↓	↓	↓									↓	
-09	EW-3	↓	1340	↓	↓	↓	↓									↓	
-10	EW-4	↓	1345	↓	↓	↓	↓									↓	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	3/25/16	1510	[signature]	3/25/16	15:40

SPECIAL INSTRUCTIONS:
Global ID#
T0600174667

Argon Laboratories Sample Receipt Checklist

Client Name: Environmental Compliance Group, LLC Date & Time Received: 03/25/16 15:40

Project Name: Shore Acres Gas Client Project Number: GHA.19009

Received By: MC Matrix: Water ☑ Soil ☐ Sludge ☐

Sample Carrier: Client ☑ Laboratory ☐ Fed Ex ☐ UPS ☐ Other ☐

Argon Labs Project Number: S603027/1603250124

Shipper Container in good condition? N/A____ Yes ☑ No ☐

Samples received under refrigeration? Yes ☑ No ☐

Chain of custody present? Yes ☑ No ☐

Chain of Custody signed by all parties? Yes ☑ No ☐

Chain of Custody matches all sample labels? Yes ☑ No ☐

Samples received in proper containers? Yes ☑ No ☐

Samples received intact? Yes ☑ No ☐

Sufficient sample volume for requested tests? Yes ☑ No ☐

Samples received within holding time? Yes ☑ No ☐

Do samples contain proper preservative? N/A ☐ Yes ☑ No ☐

Do VOA vials contain zero headspace? (None submitted ☐) Yes ☑ No ☐

ANY "No" RESPONSE MUST BE DETAILED IN THE COMMENTS SECTION BELOW

Date Client Contacted: _____ Person Contacted: _____

Contacted By: _____ Subject: _____

Comments:

Action Taken:

ADDITIONAL TEST(S) REQUEST / OTHER

Contacted By: _____ Date: _____ Time: _____

Call Received By: _____

Comments:

♥ ♣ ♦ ♠

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LABORATORY
2905 Railroad Avenue, Ceres, CA 95307
Phone: (209) 581-0280
Fax: (209) 581-0282

Environmental Compliance Group, LLC	Project Number: GHA.19009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	S603027-01	Water	03/22/16 12:30	03/25/16 15:40
MW-2	S603027-02	Water	03/22/16 11:53	03/25/16 15:40
MW-3	S603027-03	Water	03/22/16 12:48	03/25/16 15:40
MW-4	S603027-04	Water	03/22/16 12:06	03/25/16 15:40
MW-5	S603027-05	Water	03/22/16 13:20	03/25/16 15:40
MW-6	S603027-06	Water	03/22/16 13:08	03/25/16 15:40
EW-1	S603027-07	Water	03/22/16 13:30	03/25/16 15:40
EW-2	S603027-08	Water	03/22/16 13:35	03/25/16 15:40
EW-3	S603027-09	Water	03/22/16 13:40	03/25/16 15:40
EW-4	S603027-10	Water	03/22/16 13:45	03/25/16 15:40

Wayne E. Smith

Approved By

California Agriculture & Environmental Laboratory, California D.O.H.S. Cert. #2359

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Environmental Compliance Group, LLC	Project Number: GHA.19009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

Total Petroleum Hydrocarbons @ Gasoline

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-1 (S603027-01) Water Sampled: 22-Mar-16 12:30 Received: 25-Mar-16 15:40							
Total Petroleum Hydrocarbons @ Gasoline	18000	500	ug/L	10	29-Mar-16	8015M	
Surr. Rec.:	*113 %*				"	"	
MW-2 (S603027-02) Water Sampled: 22-Mar-16 11:53 Received: 25-Mar-16 15:40							
Total Petroleum Hydrocarbons @ Gasoline	900	500	ug/L	10	29-Mar-16	8015M	
Surr. Rec.:	*76 %*				"	"	
MW-3 (S603027-03) Water Sampled: 22-Mar-16 12:48 Received: 25-Mar-16 15:40							
Total Petroleum Hydrocarbons @ Gasoline	1500	50	ug/L	1	30-Mar-16	8015M	
Surr. Rec.:	*117 %*				"	"	
MW-4 (S603027-04) Water Sampled: 22-Mar-16 12:06 Received: 25-Mar-16 15:40							
Total Petroleum Hydrocarbons @ Gasoline	1900	50	ug/L	1	30-Mar-16	8015M	
Surr. Rec.:	*120 %*				"	"	
MW-5 (S603027-05) Water Sampled: 22-Mar-16 13:20 Received: 25-Mar-16 15:40							
Total Petroleum Hydrocarbons @ Gasoline	6300	500	ug/L	10	29-Mar-16	8015M	
Surr. Rec.:	*101 %*				"	"	
MW-6 (S603027-06) Water Sampled: 22-Mar-16 13:08 Received: 25-Mar-16 15:40							
Total Petroleum Hydrocarbons @ Gasoline	5900	500	ug/L	10	29-Mar-16	8015M	
Surr. Rec.:	*125 %*				"	"	
EW-1 (S603027-07) Water Sampled: 22-Mar-16 13:30 Received: 25-Mar-16 15:40							
Total Petroleum Hydrocarbons @ Gasoline	3900	500	ug/L	10	30-Mar-16	8015M	
Surr. Rec.:	*111 %*				"	"	

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Environmental Compliance Group, LLC	Project Number: GHA.19009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

Total Petroleum Hydrocarbons @ Gasoline

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
EW-2 (S603027-08) Water Sampled: 22-Mar-16 13:35 Received: 25-Mar-16 15:40							
Total Petroleum Hydrocarbons @ Gasoline	**22000**	500	ug/L	10	30-Mar-16	8015M	
Surr. Rec.:		*114 %*			"	"	
EW-3 (S603027-09) Water Sampled: 22-Mar-16 13:40 Received: 25-Mar-16 15:40							
Total Petroleum Hydrocarbons @ Gasoline	**5700**	500	ug/L	10	30-Mar-16	8015M	
Surr. Rec.:		*112 %*			"	"	
EW-4 (S603027-10) Water Sampled: 22-Mar-16 13:45 Received: 25-Mar-16 15:40							
Total Petroleum Hydrocarbons @ Gasoline	**7400**	500	ug/L	10	30-Mar-16	8015M	
Surr. Rec.:		*124 %*			"	"	

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Environmental Compliance Group, LLC	Project Number: GHA.19009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-1 (S603027-01) Water Sampled: 22-Mar-16 12:30 Received: 25-Mar-16 15:40							
Benzene	690	50	ug/L	100	05-Apr-16	8260B	
Toluene	66	50	"	"	"	"	
Xylenes, total	1900	50	"	"	"	"	
Ethylbenzene	540	50	"	"	"	"	
t-Butanol	ND	200	"	"	"	"	
Methyl tert-Butyl Ether	ND	50	"	"	"	"	
Di-Isopropyl Ether	ND	50	"	"	"	"	
Ethyl tert-Butyl Ether	ND	50	"	"	"	"	
tert-Amyl Methyl Ether	ND	50	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	
Surr. Rec.:		*98 %*			"	"	
Surr. Rec.:		*90 %*			"	"	
MW-2 (S603027-02) Water Sampled: 22-Mar-16 11:53 Received: 25-Mar-16 15:40							
Benzene	7.3	0.5	ug/L	1	06-Apr-16	8260B	
Toluene	2.4	0.5	"	"	"	"	
Xylenes, total	34	0.5	"	"	"	"	
Ethylbenzene	16	0.5	"	"	"	"	
t-Butanol	3.7	2.0	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	"	"	"	"	
Di-Isopropyl Ether	ND	0.5	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	"	"	"	"	
tert-Amyl Methyl Ether	ND	0.5	"	"	"	"	
1,2-Dichloroethane	ND	0.5	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	"	"	"	"	
Surr. Rec.:		*93 %*			"	"	
Surr. Rec.:		*88 %*			"	"	

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Environmental Compliance Group, LLC	Project Number: GHA.19009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-3 (S603027-03) Water Sampled: 22-Mar-16 12:48 Received: 25-Mar-16 15:40							
Benzene	**230**	5.0	ug/L	10	05-Apr-16	8260B	
Toluene	**23**	5.0	"	"	"	"	
Xylenes, total	**53**	5.0	"	"	"	"	
Ethylbenzene	**14**	5.0	"	"	"	"	
t-Butanol	**56**	20	"	"	"	"	
Methyl tert-Butyl Ether	**71**	5.0	"	"	"	"	
Di-Isopropyl Ether	ND	5.0	"	"	"	"	
Ethyl tert-Butyl Ether	ND	5.0	"	"	"	"	
tert-Amyl Methyl Ether	ND	5.0	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	
Surr: Rec.:		*97 %*			"	"	
Surr: Rec.:		*90 %*			"	"	
MW-4 (S603027-04) Water Sampled: 22-Mar-16 12:06 Received: 25-Mar-16 15:40							
Benzene	**88**	5.0	ug/L	10	05-Apr-16	8260B	
Toluene	**71**	5.0	"	"	"	"	
Xylenes, total	**91**	5.0	"	"	"	"	
Ethylbenzene	**43**	5.0	"	"	"	"	
t-Butanol	ND	20	"	"	"	"	
Methyl tert-Butyl Ether	ND	5.0	"	"	"	"	
Di-Isopropyl Ether	ND	5.0	"	"	"	"	
Ethyl tert-Butyl Ether	ND	5.0	"	"	"	"	
tert-Amyl Methyl Ether	ND	5.0	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	
Surr: Rec.:		*99 %*			"	"	
Surr: Rec.:		*90 %*			"	"	

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Environmental Compliance Group, LLC	Project Number: GHA.19009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-5 (S603027-05) Water Sampled: 22-Mar-16 13:20 Received: 25-Mar-16 15:40							
Benzene	**320**	5.0	ug/L	10	06-Apr-16	8260B	
Toluene	**58**	5.0	"	"	"	"	
Xylenes, total	**480**	5.0	"	"	"	"	
Ethylbenzene	**190**	5.0	"	"	"	"	
t-Butanol	**110**	20	"	"	"	"	
Methyl tert-Butyl Ether	**26**	5.0	"	"	"	"	
Di-Isopropyl Ether	ND	5.0	"	"	"	"	
Ethyl tert-Butyl Ether	ND	5.0	"	"	"	"	
tert-Amyl Methyl Ether	ND	5.0	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	
Surr: Rec.:		*104 %*			"	"	
Surr: Rec.:		*105 %*			"	"	
MW-6 (S603027-06) Water Sampled: 22-Mar-16 13:08 Received: 25-Mar-16 15:40							
Benzene	**380**	5.0	ug/L	10	06-Apr-16	8260B	
Toluene	**15**	5.0	"	"	"	"	
Xylenes, total	**83**	5.0	"	"	"	"	
Ethylbenzene	**87**	5.0	"	"	"	"	
t-Butanol	**28**	20	"	"	"	"	
Methyl tert-Butyl Ether	**8.7**	5.0	"	"	"	"	
Di-Isopropyl Ether	ND	5.0	"	"	"	"	
Ethyl tert-Butyl Ether	ND	5.0	"	"	"	"	
tert-Amyl Methyl Ether	ND	5.0	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	
Surr: Rec.:		*109 %*			"	"	
Surr: Rec.:		*109 %*			"	"	

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Environmental Compliance Group, LLC	Project Number: GHA.19009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
EW-1 (S603027-07) Water Sampled: 22-Mar-16 13:30 Received: 25-Mar-16 15:40							
Benzene	**200**	5.0	ug/L	10	06-Apr-16	8260B	
Toluene	ND	5.0	"	"	"	"	
Xylenes, total	**53**	5.0	"	"	"	"	
Ethylbenzene	**46**	5.0	"	"	"	"	
t-Butanol	**46**	20	"	"	"	"	
Methyl tert-Butyl Ether	**40**	5.0	"	"	"	"	
Di-Isopropyl Ether	ND	5.0	"	"	"	"	
Ethyl tert-Butyl Ether	ND	5.0	"	"	"	"	
tert-Amyl Methyl Ether	ND	5.0	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	
Surr. Rec.:		*108 %*			"	"	
Surr. Rec.:		*108 %*			"	"	
EW-2 (S603027-08) Water Sampled: 22-Mar-16 13:35 Received: 25-Mar-16 15:40							
Benzene	**820**	250	ug/L	500	06-Apr-16	8260B	
Toluene	**2100**	250	"	"	"	"	
Xylenes, total	**2800**	250	"	"	"	"	
Ethylbenzene	**420**	250	"	"	"	"	
t-Butanol	ND	1000	"	"	"	"	
Methyl tert-Butyl Ether	ND	250	"	"	"	"	
Di-Isopropyl Ether	ND	250	"	"	"	"	
Ethyl tert-Butyl Ether	ND	250	"	"	"	"	
tert-Amyl Methyl Ether	ND	250	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	
Surr. Rec.:		*106 %*			"	"	
Surr. Rec.:		*107 %*			"	"	

Wayne E. Kotts

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California Agriculture & Environmental Laboratory, California D.O.H.S. Cert. #2359

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Environmental Compliance Group, LLC	Project Number: GHA.19009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
EW-3 (S603027-09) Water Sampled: 22-Mar-16 13:40 Received: 25-Mar-16 15:40							
Benzene	**120**	2.5	ug/L	5	06-Apr-16	8260B	
Toluene	**6.7**	2.5	"	"	"	"	
Xylenes, total	**170**	2.5	"	"	"	"	
Ethylbenzene	**90**	2.5	"	"	"	"	
t-Butanol	**84**	10	"	"	"	"	
Methyl tert-Butyl Ether	**33**	2.5	"	"	"	"	
Di-Isopropyl Ether	ND	2.5	"	"	"	"	
Ethyl tert-Butyl Ether	ND	2.5	"	"	"	"	
tert-Amyl Methyl Ether	ND	2.5	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	
Surr. Rec.:		*106 %*			"	"	
Surr. Rec.:		*104 %*			"	"	
EW-4 (S603027-10) Water Sampled: 22-Mar-16 13:45 Received: 25-Mar-16 15:40							
Benzene	**920**	25	ug/L	50	06-Apr-16	8260B	
Toluene	**83**	25	"	"	"	"	
Xylenes, total	**350**	25	"	"	"	"	
Ethylbenzene	**120**	25	"	"	"	"	
t-Butanol	**250**	100	"	"	"	"	
Methyl tert-Butyl Ether	**81**	25	"	"	"	"	
Di-Isopropyl Ether	ND	25	"	"	"	"	
Ethyl tert-Butyl Ether	ND	25	"	"	"	"	
tert-Amyl Methyl Ether	ND	25	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	
Surr. Rec.:		*98 %*			"	"	
Surr. Rec.:		*89 %*			"	"	

Wayne E. Kotts

Approved By

California Agriculture & Environmental Laboratory, California D.O.H.S. Cert. #2359

CALIFORNIA
AGRICULTURE & ENVIRONMENTAL
LABORATORY
2905 Railroad Avenue, Ceres, CA 95307
Phone: (209) 581-9280
Fax: (209) 581-9282

Environmental Compliance Group, LLC	Project Number: GHA.19009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

Total Petroleum Hydrocarbons @ Gasoline - Quality Control

California Agriculture & Environmental Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch S600281 - EPA 5030B										
Blank (S600281-BLK1)				Prepared & Analyzed: 03/30/16						
Surrogate: a,a,a-Trifluorotoluene	*44.0*		*ug/L*	*50*		*88*	*70-130*			
Total Petroleum Hydrocarbons @ Gasoline	ND	50	"							
LCS (S600281-BS1)				Prepared & Analyzed: 03/30/16						
Surrogate: a,a,a-Trifluorotoluene	*62.5*		*ug/L*	*50*		*125*	*70-130*			
Total Petroleum Hydrocarbons @ Gasoline	1080		"	1000		108	80-120			
LCS Dup (S600281-BSD1)				Prepared & Analyzed: 03/30/16						
Surrogate: a,a,a-Trifluorotoluene	*61.5*		*ug/L*	*50*		*123*	*70-130*			
Total Petroleum Hydrocarbons @ Gasoline	1100		"	1000		110	80-120	2	20	
Matrix Spike (S600281-MS1)		Source: S603027-03		Prepared & Analyzed: 03/30/16						
Surrogate: a,a,a-Trifluorotoluene	*63.5*		*ug/L*	*50*		*127*	*70-130*			
Total Petroleum Hydrocarbons @ Gasoline	2460		"	1000	1510	95	70-130			
Matrix Spike Dup (S600281-MSD1)		Source: S603027-03		Prepared & Analyzed: 03/30/16						
Surrogate: a,a,a-Trifluorotoluene	*60.0*		*ug/L*	*50*		*120*	*70-130*			
Total Petroleum Hydrocarbons @ Gasoline	2540		"	1000	1510	103	70-130	3	20	
Batch S600283 - EPA 5030B										
Blank (S600283-BLK1)				Prepared & Analyzed: 03/29/16						
Surrogate: a,a,a-Trifluorotoluene	*44.5*		*ug/L*	*50*		*89*	*70-130*			
Total Petroleum Hydrocarbons @ Gasoline	ND	50	"							
LCS (S600283-BS1)				Prepared & Analyzed: 03/29/16						
Surrogate: a,a,a-Trifluorotoluene	*61.0*		*ug/L*	*50*		*122*	*70-130*			
Total Petroleum Hydrocarbons @ Gasoline	1020		"	1000		102	80-120			
LCS Dup (S600283-BSD1)				Prepared & Analyzed: 03/29/16						
Surrogate: a,a,a-Trifluorotoluene	*59.0*		*ug/L*	*50*		*118*	*70-130*			
Total Petroleum Hydrocarbons @ Gasoline	1040		"	1000		104	80-120	2	20	
Matrix Spike (S600283-MS1)		Source: S603026-05		Prepared & Analyzed: 03/29/16						

Approved By Wayne E. Kurtz

California Agriculture & Environmental Laboratory, California D.O.H.S. Cert. #2359

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AGRICULTURE & ENVIRONMENTAL
LABORATORY
2905 Railroad Avenue, Ceres, CA 95307
Phone: (209) 581-9280
Fax: (209) 581-9282

Environmental Compliance Group, LLC	Project Number: GHA.19009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

Total Petroleum Hydrocarbons @ Gasoline - Quality Control

California Agriculture & Environmental Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch S600283 - EPA 5030B										
Matrix Spike (S600283-MS1)		**Source: S603026-05**		Prepared & Analyzed: 03/29/16						
Surrogate: a,a,a-Trifluorotoluene	*60.5*		*ug/L*	*50*		*121*	*70-130*			
Total Petroleum Hydrocarbons @ Gasoline	1010		"	1000	ND	101	70-130			
Matrix Spike Dup (S600283-MSD1)		**Source: S603026-05**		Prepared & Analyzed: 03/29/16						
Surrogate: a,a,a-Trifluorotoluene	*57.0*		*ug/L*	*50*		*114*	*70-130*			
Total Petroleum Hydrocarbons @ Gasoline	1000		"	1000	ND	100	70-130	1	20	

Approved By
California Agriculture & Environmental Laboratory, California D.O.H.S. Cert. #2359

CALIFORNIA
AGRICULTURE & ENVIRONMENTAL
LABORATORY
2905 Railroad Avenue, Ceres, CA 95307
Phone: (209) 581-9280
Fax: (209) 581-9282

Environmental Compliance Group, LLC	Project Number: GHA.19009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

California Agriculture & Environmental Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch S600308 - EPA 5030B										
Blank (S600308-BLK1)				Prepared: 04/05/16 Analyzed: 04/11/16						
Surrogate: Dibromofluoromethane	*49.5*		*ug/L*	*50*		*99*	*70-130*			
Surrogate: Toluene-d8	*44.5*		*"*	*50*		*89*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*43.5*		*"*	*50*		*87*	*70-130*			
Benzene	ND	0.5	"							
Toluene	ND	0.5	"							
Xylenes, total	ND	0.5	"							
Ethylbenzene	ND	0.5	"							
t-Butanol	ND	2.0	"							
Methyl tert-Butyl Ether	ND	0.5	"							
Di-Isopropyl Ether	ND	0.5	"							
Ethyl tert-Butyl Ether	ND	0.5	"							
tert-Amyl Methyl Ether	ND	0.5	"							
1,2-Dichloroethane	ND	0.5	"							
1,2-Dibromoethane (EDB)	ND	0.5	"							
LCS (S600308-BS1)				Prepared: 04/05/16 Analyzed: 04/11/16						
Surrogate: Dibromofluoromethane	*49.5*		*ug/L*	*50*		*99*	*70-130*			
Surrogate: Toluene-d8	*44.5*		*"*	*50*		*89*	*70-130*			
Benzene	24.2		"	25		97	80-120			
Toluene	24.2		"	25		97	80-120			

Approved By

California Agriculture & Environmental Laboratory, California D.O.H.S. Cert. #2359

CALIFORNIA
AGRICULTURE & ENVIRONMENTAL
LABORATORY
2905 Railroad Avenue, Ceres, CA 95307
Phone: (209) 581-9286
Fax: (209) 581-9282

Environmental Compliance Group, LLC	Project Number: GHA.T9009	Work Order No.:
270 Vintage Drive	Project Name: Shore Acres Gas	S603027
Turlock, CA 95382	Project Manager: Mike Sgourakis	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Approved By
California Agriculture & Environmental Laboratory, California D.O.H.S. Cert. #2359

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

February 03, 2016

Drew Van Allen
Environmental Compliance Group
270 Vintage Dr
Turlock, CA 95382

RE: Project: Shore Acres Gas
Pace Project No.: 1260377

Dear Drew Van Allen:
Enclosed are the analytical results for sample(s) received by the laboratory on January 29, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott M Forbes
scott.forbes@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

CERTIFICATIONS

Project: Shore Acres Gas
Pace Project No.: 1260377

Davis Cerification IDs
2795 Second Street Suite 300 Davis, CA 95618
North Dakota Certification #: R-214
Oregon Certification #: CA300002
Washington Certification #: C926-15a
California Certification #: 08263CA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

SAMPLE SUMMARY

Project: Shore Acres Gas
Pace Project No.: 1260377

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1260377001	Effluent	Air	01/27/16 10:00	01/29/16 10:00
1260377002	Influent	Air	01/27/16 10:05	01/29/16 10:00

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
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(530) 297-4800

SAMPLE ANALYTE COUNT

Project: Shore Acres Gas
Pace Project No.: 1260377

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1260377001	Effluent	EPA 8260B	LM	6	PASI-DAV
1260377002	Influent	EPA 8260B	LM	6	PASI-DAV

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

ANALYTICAL RESULTS

Project: Shore Acres Gas
Pace Project No.: 1260377

Sample: Effluent **Lab ID: 1260377001** Collected: 01/27/16 10:00 Received: 01/29/16 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV AIR	Analytical Method: EPA 8260B							
Benzene	ND	ppbv	50.0	1		01/29/16 19:53	71-43-2	
Ethylbenzene	ND	ppbv	50.0	1		01/29/16 19:53	100-41-4	
Methyl-tert-butyl ether	ND	ppbv	100	1		01/29/16 19:53	1634-04-4	
Toluene	ND	ppbv	50.0	1		01/29/16 19:53	108-88-3	
TPH as Gas	ND	ppbv	5000	1		01/29/16 19:53		
Xylene (Total)	ND	ppbv	100	1		01/29/16 19:53	1330-20-7	

Sample: Influent **Lab ID: 1260377002** Collected: 01/27/16 10:05 Received: 01/29/16 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV AIR	Analytical Method: EPA 8260B							
Benzene	**733**	ppbv	50.0	1		01/29/16 16:49	71-43-2	
Ethylbenzene	**168**	ppbv	50.0	1		01/29/16 16:49	100-41-4	
Methyl-tert-butyl ether	ND	ppbv	100	1		01/29/16 16:49	1634-04-4	
Toluene	**740**	ppbv	50.0	1		01/29/16 16:49	108-88-3	
TPH as Gas	**23100**	ppbv	5000	1		01/29/16 16:49		
Xylene (Total)	**1570**	ppbv	100	1		01/29/16 16:49	1330-20-7	

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
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QUALITY CONTROL DATA

Project: Shore Acres Gas
Pace Project No.: 1260377

QC Batch: DAVM/2988
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV AIR
Associated Lab Samples: 1260377001, 1260377002

METHOD BLANK: 284618 Matrix: Air
Associated Lab Samples: 1260377001, 1260377002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppbv	ND	50.0	01/29/16 16:21	
Ethylbenzene	ppbv	ND	50.0	01/29/16 16:21	
Methyl-tert-butyl ether	ppbv	ND	100	01/29/16 16:21	
Toluene	ppbv	ND	50.0	01/29/16 16:21	
TPH as Gas	ppbv	ND	5000	01/29/16 16:21	
Xylene (Total)	ppbv	ND	100	01/29/16 16:21	

LABORATORY CONTROL SAMPLE: 284619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppbv	520	523	101	75-125	
Ethylbenzene	ppbv	515	485	94	70-135	
Methyl-tert-butyl ether	ppbv	515	520	101	75-125	
Toluene	ppbv	515	518	101	75-125	
Xylene (Total)	ppbv	768	733	95	73-133	

SAMPLE DUPLICATE: 284625

Parameter	Units	1260377002 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ppbv	733	753	3	30	
Ethylbenzene	ppbv	168	171	2	30	
Methyl-tert-butyl ether	ppbv	ND	64J		30	
Toluene	ppbv	740	766	3	30	
TPH as Gas	ppbv	23100	21000	10	30	
Xylene (Total)	ppbv	1570	1630	4	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALIFIERS

Project: Shore Acres Gas
Pace Project No.: 1260377

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-DAV Pace Analytical Services - Davis

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Shore Acres Gas
Pace Project No.: 1260377

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1260377001	Effluent	EPA 8260B	DAVM/2988		
1260377002	Influent	EPA 8260B	DAVM/2988		

PACE ANALYTICAL

2795 2nd Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 1260377

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Drew Van Allen	California EDF Report? ☑ Yes ☐ No
Company / Address: 270 Vintage Drive, Turlock, CA 95382	Sampling Company Log Code: ECGT
Phone Number: 209.664.1035	Global ID: T0600174667
Fax Number: 209.664.1040	EDF Deliverable To (Email Address): ecg.ust@gmail.com
Project #: GHA.19009 / P.O. #:	Bill to: ECG LLC
Project Name: Shore Acres Gas	Sampler Print Name: Drew Van Allen
	Sampler Signature:

Project Address: 403 East 12th Street, Oakland, CA

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Sleeve	Poly	Glass	Tedlar	Preservative: HCl	HNO_3	None	Matrix: Water	Soil	Air	MTBE @ 0.5 ppb (EPA 8260B)	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	CAM 17 Metals (EPA 200.7 / 6010)	5 Waste Oil Metals (Cd,Cr,Ni,Pb,Zn) (EPA 200.7 / 6010)	Mercury (EPA 245.1 / 7470 / 7471)	Total Lead (EPA 200.7 / 6010)	W.E.T. Lead (STLC)	TPHg, BTEX, and MTBE by EPA 8260B				TAT: 12 hr ☐ / 24 hr ☐ / 48hr ☐ / 72hr ☐ / 1 wk ☑	For Lab Use Only
			PLEASE CIRCLE METHOD																																
Effluent	1/27/2016	1000					X						X																	X					001
Influent	1/27/2016	1005					X						X																	X					002

Relinquished by:	Date: 1/28/16	Time: 1500	Received by:
Relinquished by:	Date: 01/29/16	Time: 1000	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

Remarks:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Distribution: White - Lab, Pink - Originator
Rev. 061705

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 25Feb2015 Page 1 of 1
	Document No.: F-DAV-C-002-rev.02	Issuing Authority: Pace Davis, CA Quality Office

Sample Condition Upon Receipt

Client Name: ECC

Project #: WO# : 1260377

1260377

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ OnTrac ☐ Other:

Tracking Number: 7755 2069 6569

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other: **Temp Blank?** ☐ Yes ☒ No

Thermom. Used: ☐ DA1434 ☐ DA2285 **Type of Ice:** ☐ Wet ☐ Blue ☐ Dry Ice ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read(°C): N/A **Cooler Temp Corrected(°C):**

Temp should be above freezing to 6°C **Correction Factor:**

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Date and Initials of Person Examining Contents: 01/28/16

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☒ Yes	☐ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: AR	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☒ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 1/28/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

March 07, 2016

Drew Van Allen
Environmental Compliance Group
270 Vintage Dr
Turlock, CA 95382

RE: Project: Shore Acres Gas
Pace Project No.: 1261849

Dear Drew Van Allen:
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott M Forbes
scott.forbes@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

CERTIFICATIONS

Project: Shore Acres Gas
Pace Project No.: 1261849

Davis Cerification IDs
2795 Second Street Suite 300 Davis, CA 95618
North Dakota Certification #: R-214
Oregon Certification #: CA300002
Washington Certification #: C926-15a
California Certification #: 08263CA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

SAMPLE SUMMARY

Project: Shore Acres Gas
Pace Project No.: 1261849

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1261849001	Influent	Air	03/01/16 10:15	03/02/16 10:25

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

SAMPLE ANALYTE COUNT

Project: Shore Acres Gas
Pace Project No.: 1261849

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1261849001	Influent	EPA 8260B	LM	6	PASI-DAV

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

ANALYTICAL RESULTS

Project: Shore Acres Gas
Pace Project No.: 1261849

Sample: Influent Lab ID: **1261849001** Collected: 03/01/16 10:15 Received: 03/02/16 10:25 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV AIR	Analytical Method: EPA 8260B							
Benzene	**277**	ppbv	50.0	1		03/02/16 17:50	71-43-2	
Ethylbenzene	**79.7**	ppbv	50.0	1		03/02/16 17:50	100-41-4	
Methyl-tert-butyl ether	ND	ppbv	100	1		03/02/16 17:50	1634-04-4	
Toluene	**466**	ppbv	50.0	1		03/02/16 17:50	108-88-3	
TPH as Gas	**5450**	ppbv	5000	1		03/02/16 17:50		
Xylene (Total)	**517**	ppbv	100	1		03/02/16 17:50	1330-20-7	

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALITY CONTROL DATA

Project: Shore Acres Gas
Pace Project No.: 1261849

QC Batch: DAVM/3204
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV AIR
Associated Lab Samples: 1261849001

METHOD BLANK: 293261
Matrix: Air
Associated Lab Samples: 1261849001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppbv	ND	50.0	03/02/16 15:15	
Ethylbenzene	ppbv	ND	50.0	03/02/16 15:15	
Methyl-tert-butyl ether	ppbv	ND	100	03/02/16 15:15	
Toluene	ppbv	ND	50.0	03/02/16 15:15	
TPH as Gas	ppbv	ND	5000	03/02/16 15:15	
Xylene (Total)	ppbv	ND	100	03/02/16 15:15	

LABORATORY CONTROL SAMPLE: 293262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppbv	520	483	93	75-125	
Ethylbenzene	ppbv	515	438	85	70-135	
Methyl-tert-butyl ether	ppbv	515	488	95	75-125	
Toluene	ppbv	515	484	94	75-125	
Xylene (Total)	ppbv	768	641	83	73-133	

SAMPLE DUPLICATE: 293263

Parameter	Units	1261879001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ppbv	0.073 ppmv	72.5	1	30	
Ethylbenzene	ppbv	0.12 ppmv	143	16	30	
Methyl-tert-butyl ether	ppbv	1.9 ppmv	1920	3	30	
Toluene	ppbv	0.95 ppmv	934	1	30	
TPH as Gas	ppbv	129 ppmv	136000	5	30	E
Xylene (Total)	ppbv	6.3 ppmv	6220	1	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALIFIERS

Project: Shore Acres Gas
Pace Project No.: 1261849

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-DAV Pace Analytical Services - Davis

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Shore Acres Gas
Pace Project No.: 1261849

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1261849001	Influent	EPA 8260B	DAVM/3204		

PACE ANALYTICAL

2795 2nd Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 261849

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Drew Van Allen	California EDF Report? ☑ Yes ☐ No
Company / Address: 270 Vintage Drive, Turlock, CA 95382	Sampling Company Log Code: ECGT
Phone Number: 209.664.1035	Global ID: T0600174667
Fax Number: 209.664.1040	EDF Deliverable To (Email Address): ecg.ust@gmail.com
Project #: GHA.19009 / P.O. #:	Bill to: ECG LLC
Project Name: Shore Acres Gas	Sampler Print Name: Drew Van Allen
	Sampler Signature:

Project Address: 403 East 12th Street, Oakland, CA

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Sleeve	Poly	Glass	Tedlar	Preservative: HCl	HNO_3	None	Matrix: Water	Soil	Air	MTBE @ 0.5 ppb (EPA 8260B)	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	CAM 17 Metals (EPA 200.7 / 6010)	6 Waste Oil Metals (Cd,Cr,Ni,Pb,Zn) (EPA 200.7 / 6010)	Mercury (EPA 245.1 / 7470 / 7471)	Total Lead (EPA 200.7 / 6010)	W.E.T. Lead (STLC)	TPHg, BTEX, and MTBE by EPA 8260B				TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72hr ☑ 1 wk	For Lab Use Only
														PLEASE CIRCLE METHOD																						
Influent	3/1/2016	1015					X						X																	X					08

Relinquished by:	Date	Time	Received by:
Drew Van Allen	3/1/16	1600	Fedex
Relinquished by:	Date	Time	Received by:
	030216	1025	PACE Analytical
Relinquished by:	Date	Time	Received by Laboratory:

Remarks:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Page 9 of

Distribution: White - Lab; Pink - Originator
REV: 061708

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 25Feb2015 Page 1 of 1
	Document No.: F-DAV-C-002-rev.02	Issuing Authority: Pace Davis, CA Quality Office

Sample Condition Upon Receipt

Client Name: ECG

Project #: WO#: 1261849

1261849

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ OnTrac ☐ Other:

Tracking Number: 8091 9863 7461

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other: **Temp Blank?** ☐ Yes ☑ No

Thermom. Used: ☐ DA1434 ☐ DA2285 **Type of Ice:** ☐ Wet ☐ Blue ☐ Dry Ice ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read(°C): N/A **Cooler Temp Corrected(°C):**

Temp should be above freezing to 6°C **Correction Factor:**

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Date and Initials of Person Examining Contents: Eng 030216

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6. Eng 030216
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: AR	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☑ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Date/Time: **Field Data Required?** ☐ Yes ☐ No

Comments/Resolution:

Project Manager Review: Scott Flora **Date:** 3/2/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

CERTIFICATIONS

Project: Shore Acres Gas
Pace Project No.: 1262884

Davis Cerification IDs
2795 Second Street Suite 300 Davis, CA 95618
North Dakota Certification #: R-214
Oregon Certification #: CA300002
Washington Certification #: C926-15a
California Certification #: 08263CA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

SAMPLE SUMMARY

Project: Shore Acres Gas
Pace Project No.: 1262884

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1262884001	Effluent	Air	03/21/16 12:40	03/22/16 09:50
1262884002	Influent	Air	03/21/16 12:45	03/22/16 09:50

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SAMPLE ANALYTE COUNT

Project: Shore Acres Gas
Pace Project No.: 1262884

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1262884001	**Effluent**	EPA 8260B	LM	6	PASI-DAV
1262884002	**Influent**	EPA 8260B	LM	6	PASI-DAV

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Shore Acres Gas
Pace Project No.: 1262884

Sample: Effluent Lab ID: **1262884001** Collected: 03/21/16 12:40 Received: 03/22/16 09:50 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV AIR	Analytical Method: EPA 8260B							
Benzene	ND	ppbv	50.0	1		03/23/16 17:30	71-43-2	
Ethylbenzene	ND	ppbv	50.0	1		03/23/16 17:30	100-41-4	
Methyl-tert-butyl ether	ND	ppbv	100	1		03/23/16 17:30	1634-04-4	
Toluene	ND	ppbv	50.0	1		03/23/16 17:30	108-88-3	
TPH as Gas	ND	ppbv	5000	1		03/23/16 17:30		
Xylene (Total)	ND	ppbv	100	1		03/23/16 17:30	1330-20-7	

Sample: Influent Lab ID: **1262884002** Collected: 03/21/16 12:45 Received: 03/22/16 09:50 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV AIR	Analytical Method: EPA 8260B							
Benzene	**865**	ppbv	50.0	1		03/23/16 16:41	71-43-2	
Ethylbenzene	**176**	ppbv	50.0	1		03/23/16 16:41	100-41-4	
Methyl-tert-butyl ether	ND	ppbv	100	1		03/23/16 16:41	1634-04-4	
Toluene	**809**	ppbv	50.0	1		03/23/16 16:41	108-88-3	
TPH as Gas	**20200**	ppbv	5000	1		03/23/16 16:41		
Xylene (Total)	**1390**	ppbv	100	1		03/23/16 16:41	1330-20-7	

Pace Analytical Services, Inc.
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(530) 297-4800

QUALITY CONTROL DATA

Project: Shore Acres Gas
Pace Project No.: 1262884

QC Batch: DAVM/3354
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV AIR
Associated Lab Samples: 1262884001, 1262884002

METHOD BLANK: 299713 Matrix: Air
Associated Lab Samples: 1262884001, 1262884002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppbv	ND	50.0	03/23/16 16:16	
Ethylbenzene	ppbv	ND	50.0	03/23/16 16:16	
Methyl-tert-butyl ether	ppbv	ND	100	03/23/16 16:16	
Toluene	ppbv	ND	50.0	03/23/16 16:16	
TPH as Gas	ppbv	ND	5000	03/23/16 16:16	
Xylene (Total)	ppbv	ND	100	03/23/16 16:16	

LABORATORY CONTROL SAMPLE: 299714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppbv	520	519	100	75-125	
Ethylbenzene	ppbv	515	487	95	70-135	
Methyl-tert-butyl ether	ppbv	515	525	102	75-125	
Toluene	ppbv	515	537	104	75-125	
Xylene (Total)	ppbv	768	718	93	73-133	

SAMPLE DUPLICATE: 299715

Parameter	Units	1262884002 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ppbv	865	867	0	30	
Ethylbenzene	ppbv	176	183	4	30	
Methyl-tert-butyl ether	ppbv	ND	64.3J		30	
Toluene	ppbv	809	795	2	30	
TPH as Gas	ppbv	20200	20800	3	30	
Xylene (Total)	ppbv	1390	1440	3	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALIFIERS

Project: Shore Acres Gas
Pace Project No.: 1262884

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-DAV Pace Analytical Services - Davis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Shore Acres Gas
Pace Project No.: 1262884

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1262884001	Effluent	EPA 8260B	DAVM/3354		
1262884002	Influent	EPA 8260B	DAVM/3354		

PACE ANALYTICAL

2795 2nd Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 1262884

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Drew Van Allen	California EDF Report? ☑ Yes ☐ No
Company / Address: 270 Vintage Drive, Turlock, CA 95382	Sampling Company Log Code: ECGT
Phone Number: 209.664.1035	Global ID: T0600174667
Fax Number: 209.664.1040	EDF Deliverable To (Email Address): eco.ust@gmail.com
Project #: GHA.19009 / P.O. #:	Bill to: ECG LLC
Project Name: Shore Acres Gas	Sampler Print Name: Drew Van Allen
	Sampler Signature:

Project Address: 403 East 12th Street, Oakland, CA

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative:	Matrix: Water	Matrix: Soil	Matrix: Air
Effluent	3/21/2016	1240					X							X
Influent	3/21/2016	1245					X							X

Analysis Request

MTBE @ 0.5 ppb (EPA 8260B)	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	CAM 17 Metals (EPA 200.7 / 6010)	5 Waste Oil Metals (Cd,Cr,Ni,Pb,Zn) (EPA 200.7 / 6010)	Mercury (EPA 245.1 / 7470 / 7471)	Total Lead (EPA 200.7 / 6010)	W.E.T. Lead (STLC)	TPHg, BTEX, and MTBE by EPA 8260B				
																X					
																X					

PLEASE CIRCLE METHOD

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72hr ☑ 1 wk

For Lab Use Only

Relinquished by:	Date	Time	Received by:
Drew Van Allen	3/21/16	1550	Pace
Relinquished by:	Date	Time	Received by:
	032216	0950	Pace Analytical
Relinquished by:	Date	Time	Received by Laboratory:

Remarks:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Page 6

Distribution: White - Lab; Pink - Originator
Rev: 061708

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 25Feb2015 Page 1 of 1
	Document No.: F-DAV-C-002-rev.02	Issuing Authority: Pace Davis, CA Quality Office

Sample Condition Upon Receipt Client Name: ELG Project #: WO#: 1262884

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ OnTrac ☐ Other:

Tracking Number: 7759 2658 5130

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other: Temp Blank? ☐ Yes ☒ No

Thermom. Used: ☐ DA1434 ☐ DA2285 Type of Ice: ☐ Wet ☐ Blue ☐ Dry Ice ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read(°C): N/A Cooler Temp Corrected(°C): Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C Correction Factor: Date and Initials of Person Examining Contents: EG 032216

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☒ Yes	☐ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: AR	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☒ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 3/22/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

April 13, 2016

Drew Van Allen
Environmental Compliance Group
270 Vintage Dr
Turlock, CA 95382

RE: Project: Shore Acres Gas
Pace Project No.: 1263943

Dear Drew Van Allen:
Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott M Forbes
scott.forbes@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

CERTIFICATIONS

Project: Shore Acres Gas
Pace Project No.: 1263943

Davis Cerification IDs
2795 Second Street Suite 300 Davis, CA 95618
North Dakota Certification #: R-214
Oregon Certification #: CA300002
Washington Certification #: C926-15a
California Certification #: 08263CA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

SAMPLE SUMMARY

Project: Shore Acres Gas
Pace Project No.: 1263943

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1263943001	**Effluent**	Air	04/11/16 10:25	04/12/16 09:45
1263943002	**Influent**	Air	04/11/16 10:30	04/12/16 09:45

Pace Analytical Services, Inc.
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SAMPLE ANALYTE COUNT

Project: Shore Acres Gas
Pace Project No.: 1263943

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1263943001	Effluent	EPA 8260B	JCP	9	PASI-DAV
1263943002	Influent	EPA 8260B	JCP	9	PASI-DAV

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Shore Acres Gas
Pace Project No.: 1263943

Sample: Effluent **Lab ID: 1263943001** Collected: 04/11/16 10:25 Received: 04/12/16 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV AIR	Analytical Method: EPA 8260B							
Benzene	ND	ppbv	50.0	1		04/12/16 15:42	71-43-2	
Ethylbenzene	ND	ppbv	50.0	1		04/12/16 15:42	100-41-4	
Methyl-tert-butyl ether	ND	ppbv	100	1		04/12/16 15:42	1634-04-4	
Toluene	**62.3**	ppbv	50.0	1		04/12/16 15:42	108-88-3	
TPH as Gas	ND	ppbv	5000	1		04/12/16 15:42		
Xylene (Total)	ND	ppbv	100	1		04/12/16 15:42	1330-20-7	
Surrogates								
Toluene-d8 (S)	95	%.	75-125	1		04/12/16 15:42	2037-26-5	
1,2-Dichloroethane-d4 (S)	111	%.	75-125	1		04/12/16 15:42	17060-07-0	
4-Bromofluorobenzene (S)	79	%.	75-125	1		04/12/16 15:42	460-00-4	

Sample: Influent **Lab ID: 1263943002** Collected: 04/11/16 10:30 Received: 04/12/16 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV AIR	Analytical Method: EPA 8260B							
Benzene	**865**	ppbv	50.0	1		04/12/16 14:05	71-43-2	
Ethylbenzene	**190**	ppbv	50.0	1		04/12/16 14:05	100-41-4	
Methyl-tert-butyl ether	ND	ppbv	100	1		04/12/16 14:05	1634-04-4	
Toluene	**437**	ppbv	50.0	1		04/12/16 14:05	108-88-3	
TPH as Gas	**43100**	ppbv	5000	1		04/12/16 14:05		
Xylene (Total)	**1740**	ppbv	100	1		04/12/16 14:05	1330-20-7	
Surrogates								
Toluene-d8 (S)	87	%.	75-125	1		04/12/16 14:05	2037-26-5	
1,2-Dichloroethane-d4 (S)	109	%.	75-125	1		04/12/16 14:05	17060-07-0	
4-Bromofluorobenzene (S)	82	%.	75-125	1		04/12/16 14:05	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALITY CONTROL DATA

Project: Shore Acres Gas
Pace Project No.: 1263943

QC Batch: DAVM/3486
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV AIR
Associated Lab Samples: 1263943001, 1263943002

METHOD BLANK: 305253 Matrix: Air
Associated Lab Samples: 1263943001, 1263943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppbv	ND	50.0	04/12/16 13:41	
Ethylbenzene	ppbv	ND	50.0	04/12/16 13:41	
Methyl-tert-butyl ether	ppbv	ND	100	04/12/16 13:41	
Toluene	ppbv	ND	50.0	04/12/16 13:41	
TPH as Gas	ppbv	ND	5000	04/12/16 13:41	
Xylene (Total)	ppbv	ND	100	04/12/16 13:41	
1,2-Dichloroethane-d4 (S)	%.	102	75-125	04/12/16 13:41	
4-Bromofluorobenzene (S)	%.	82	75-125	04/12/16 13:41	
Toluene-d8 (S)	%.	95	75-125	04/12/16 13:41	

LABORATORY CONTROL SAMPLE: 305254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppbv	520	418	80	75-125	
Ethylbenzene	ppbv	515	534	104	70-135	
Methyl-tert-butyl ether	ppbv	515	438	85	75-125	
Toluene	ppbv	515	430	84	75-125	
Xylene (Total)	ppbv	768	805	105	73-133	
1,2-Dichloroethane-d4 (S)	%.			104	75-125	
4-Bromofluorobenzene (S)	%.			82	75-125	
Toluene-d8 (S)	%.			90	75-125	

SAMPLE DUPLICATE: 305255

Parameter	Units	1263943002 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ppbv	865	883	2	30	
Ethylbenzene	ppbv	190	202	6	30	
Methyl-tert-butyl ether	ppbv	ND	92.2J		30	
Toluene	ppbv	437	443	1	30	
TPH as Gas	ppbv	43100	46500	8	30	
Xylene (Total)	ppbv	1740	1830	5	30	
1,2-Dichloroethane-d4 (S)	%.	109	110	1		
4-Bromofluorobenzene (S)	%.	82	81	1		
Toluene-d8 (S)	%.	87	89	2		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALIFIERS

Project: Shore Acres Gas
Pace Project No.: 1263943

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-DAV Pace Analytical Services - Davis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Shore Acres Gas
Pace Project No.: 1263943

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1263943001	**Effluent**	EPA 8260B	DAVM/3486		
1263943002	**Influent**	EPA 8260B	DAVM/3486		

PACE ANALYTICAL

2795 2nd Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 1263943

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Drew Van Allen	California EDF Report? ☑ Yes ☐ No
Company / Address: 270 Vintage Drive, Turlock, CA 95382	Sampling Company Log Code: ECGT
Phone Number: 209.664.1035	Global ID: T0600174667
Fax Number: 209.664.1040	EDF Deliverable To (Email Address): ecg.ust@gmail.com
Project #: GHA.19009 / P.O. #:	Bill to: ECG LLC
Project Name: Shore Acres Gas	Sampler Print Name: Drew Van Allen
	Sampler Signature:

Project Address: 403 East 12th Street, Oakland, CA

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Container:	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative:	Matrix: Water	Matrix: Soil	Matrix: Air
Effluent	4/11/2016	1025					X								X
Influent	4/11/2016	1030					X								X

Analysis Request (PLEASE CIRCLE METHOD)

MTBE @ 0.5 ppb (EPA 8260B)	
BTEX (EPA 8260B)	
TPH Gas (EPA 8260B)	
5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	
7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	
Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	
Volatile Halocarbons (EPA 8260B)	
Volatile Organics Full List (EPA 8260B)	
Volatile Organics (EPA 524.2 Drinking Water)	
TPH as Diesel (EPA 8015M)	
TPH as Motor Oil (EPA 8015M)	
CAM 17 Metals (EPA 200.7 / 6010)	
5 Waste Oil Metals (Cd,Cr,Ni,Pb,Zn) (EPA 200.7 / 6010)	
Mercury (EPA 245.1 / 7470 / 7471)	
Total Lead (EPA 200.7 / 6010)	
W.E.T. Lead (STLC)	
TPHg, BTEX, and MTBE by EPA 8260B	X / X

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72hr ☑ 1 wk

For Lab Use Only: 001 002

Relinquished by:	Date	Time	Received by:
Drew Van Allen	4/11/16	1530	FedEx
Relinquished by:	Date	Time:	Received by:
	041216	0945	Pace Analytical
Relinquished by:	Date	Time:	Received by Laboratory:

Remarks:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

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Distribution: White - Lab; Pink - Originator
ReQ 051708

Pace Analytical®	Document Name: Sample Condition Upon Receipt Form	Document Revised: 25Feb2015 Page 1 of 1
	Document No.: F-DAV-C-002-rev.02	Issuing Authority: Pace Davis, CA Quality Office

Sample Condition Upon Receipt

Client Name: ECG

Project #: WO# : 1263943

1263943

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ OnTrac ☐ Other:

Tracking Number: 7760 8008 5489

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other: **Temp Blank?** ☐ Yes ☑ No

Thermom. Used: ☐ DA1434 ☐ DA2285 **Type of Ice:** ☐ Wet ☐ Blue ☐ Dry Ice ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read(°C): N/A **Cooler Temp Corrected(°C):**

Temp should be above freezing to 6°C **Correction Factor:**

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Date and Initials of Person Examining Contents: EJG 04/12/16

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☑ Yes	☐ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container:
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SYR	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☑ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Scott Klein **Date:** 4/12/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

GROUNDWATER LEVEL DATA FORM

PROJECT NAME: Shore Acres
PROJECT NUMBER: GHA.19009
PROJECT MANAGER: MSS
TASK NUMBER:
SITE ADDRESS: 403 East 12th Street, Oakland, Ca

WELL ID	TIME	DEPTH TO BOTTOM	DEPTH TO WATER	DEPTH TO PRODUCT	PRODUCT THICKNESS	PRODUCT THICKNESS X 0.8	COMMENTS
MW-1	1102	19.92	10.49				
MW-2	1056	19.95	11.11				
MW-3	1104	17.83	11.39				
MW-4	1058	18.71	11.22				
MW-5	1114	19.31	12.26				
MW-6	1100	19.92	10.10				
EW-1	1106		11.54				sampled directly from treatment system ↓
EW-2	1112		16.56				
EW-3	1108		12.63				
EW-4	1110		16.74				

FIELD TECHNICIAN: DM
DATE: 3/22/16

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres
PROJECT NUMBER: GHA.19009
PROJECT MANAGER: MSS
TASK NUMBER:
SITE ADDRESS: 403 East 12th Street, Oakland, Ca

WELL ID: MW-1
TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
Well Total Depth: 19.92
Depth to Water: 10.48
Water Column Length: 9.44

WELL DIAMETER:
2-inch: ✓
4-inch:
6-inch:

PURGE VOLUME CALCULATION:
Water Column Length x Multiplier x No. Volumes = Purge Volume

9.44 (Water Column Length) x 0.17 (Multiplier) x 3 (No. Volumes) = 5 (Purge Volume)

MULTIPLIER DATA:
Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:

2-inch:	0.17
4-inch:	0.65
6-inch:	1.5

PURGE METHOD:
Disposable Bailer: ✓
PVC Bailer:
Submersible Pump:
Other:

SAMPLE METHOD:
Disposable Bailer: ✓
Pump:
Other:

TIME	VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
1220	1.5	7.39	18.2	794			
1224	3.2	7.31	18.2	791			
1228	5	7.32	18.1	790			
1230							SAMPLED

FIELD TECHNICIAN: DHA
DATE: 3/22/16

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres
PROJECT NUMBER: GHA.19009
PROJECT MANAGER: MSS
TASK NUMBER:
SITE ADDRESS: 403 East 12th Street, Oakland, Ca

WELL ID: MW-2
TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
Well Total Depth: 19.85
Depth to Water: 11.11
Water Column Length: 8.84

WELL DIAMETER:
2-inch: ✓
4-inch:
6-inch:

PURGE VOLUME CALCULATION:
Water Column Length x Multiplier x No. Volumes = Purge Volume

8.84 (Water Column Length) x 0.17 (Multiplier) x 3 (No. Volumes) = 4.5 (Purge Volume)

MULTIPLIER DATA:
Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:
2-inch: 0.17
4-inch: 0.65
6-inch: 1.5

PURGE METHOD:
Disposable Bailer: ✓
PVC Bailer:
Submersible Pump:
Other:

SAMPLE METHOD:
Disposable Bailer: ✓
Pump:
Other:

TIME	VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
1142	1.5	7.71	19.2	881			
1146	3	7.61	19.2	871			
1150	4.5	7.67	18.8	860			
1153							sample

FIELD TECHNICIAN: DWA
DATE: 3/22/16

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres
PROJECT NUMBER: GHA.19009
PROJECT MANAGER: MSS
TASK NUMBER:
SITE ADDRESS: 403 East 12th Street, Oakland, Ca

WELL ID: MW-3
TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
Well Total Depth: 17.83
Depth to Water: 11.39
Water Column Length: 6.44

WELL DIAMETER:
2-inch: ✓
4-inch:
6-inch:

PURGE VOLUME CALCULATION:
Water Column Length x Multiplier x No. Volumes = Purge Volume

6.44 (Water Column Length) x 0.17 (Multiplier) x 3 (No. Volumes) = 3.5 (Purge Volume)

MULTIPLIER DATA:
Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:

2-inch:	0.17
4-inch:	0.65
6-inch:	1.5

PURGE METHOD:
Disposable Bailer: /
PVC Bailer:
Submersible Pump:
Other:

SAMPLE METHOD:
Disposable Bailer: ✓
Pump:
Other:

TIME	VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
1240	1.0	7.37	17.6	1121			
1243	2.1	7.35	17.4	1129			
1246	3.1	7.38	17.5	1130			
1248							sample

FIELD TECHNICIAN: DLA
DATE: 3/22/16

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres
PROJECT NUMBER: GHA.19009
PROJECT MANAGER: MSS
TASK NUMBER:
SITE ADDRESS: 403 East 12th Street, Oakland, Ca

WELL ID: MW-4
TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
Well Total Depth: 18.71
Depth to Water: 11.22
Water Column Length: 7.49

WELL DIAMETER:
2-inch: ✓
4-inch:
6-inch:

PURGE VOLUME CALCULATION:
Water Column Length x Multiplier x No. Volumes = Purge Volume

7.49 (Water Column Length) x 0.17 (Multiplier) x 3 (No. Volumes) = 3.75 (Purge Volume)

MULTIPLIER DATA:
Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:

2-inch:	0.17
4-inch:	0.65
6-inch:	1.5

PURGE METHOD:
Disposable Bailer: ✓
PVC Bailer:
Submersible Pump:
Other:

SAMPLE METHOD:
Disposable Bailer: ✓
Pump:
Other:

TIME	VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
1157	1.25	7.86	19.6	602			
1200	~~2.50~~	7.92	19.7	611			
1204	3.75	7.90	19.6	576			
1206							SG MV

FIELD TECHNICIAN: DW
DATE: 3/22/16

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres
PROJECT NUMBER: GHA.19009
PROJECT MANAGER: MSS
TASK NUMBER:
SITE ADDRESS: 403 East 12th Street, Oakland, Ca

WELL ID: MW-5
TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
Well Total Depth: 19.31
Depth to Water: 12.26
Water Column Length: 7.05

WELL DIAMETER:
2-inch: ✓
4-inch:
6-inch:

PURGE VOLUME CALCULATION:
Water Column Length x Multiplier x No. Volumes = Purge Volume

7.05	x	0.17	x	3	=	3.6
Water Column Length		Multiplier		No. Volumes		Purge Volume

MULTIPLIER DATA:
Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:

2-inch:	0.17
4-inch:	0.65
6-inch:	1.5

PURGE METHOD:
Disposable Bailer: ✓
PVC Bailer:
Submersible Pump:
Other:

SAMPLE METHOD:
Disposable Bailer: ✓
Pump:
Other:

TIME	VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
1312	1.25	7.39	19.2	1081			
1315	2.5	7.21	18.9	1043			
1318	3.6	7.28	18.8	1070			
1320							sample

FIELD TECHNICIAN: DJA
DATE: 3/22/16

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres
PROJECT NUMBER: GHA.19009
PROJECT MANAGER: MSS
TASK NUMBER:
SITE ADDRESS: 403 East 12th Street, Oakland, Ca

WELL ID: MW-6
TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
Well Total Depth: 19.92
Depth to Water: 10.10
Water Column Length: 9.82

WELL DIAMETER:
2-inch: ✓
4-inch:
6-inch:

PURGE VOLUME CALCULATION:
Water Column Length x Multiplier x No. Volumes = Purge Volume

9.82 (Water Column Length) x 0.17 (Multiplier) x 3 (No. Volumes) = 5 (Purge Volume)

MULTIPLIER DATA:
Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:
2-inch: 0.17
4-inch: 0.65
6-inch: 1.5

PURGE METHOD:
Disposable Bailer: ✓
PVC Bailer:
Submersible Pump:
Other:

SAMPLE METHOD:
Disposable Bailer: ✓
Pump:
Other:

TIME	VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
1256	1.5	7.31	18.4	783			
1301	3.2	7.21	18.2	791			
1305	5	7.25	17.7	763			
1308							

FIELD TECHNICIAN: AMA
DATE: 3/22/16

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	12/16/15
Time of arrival:	09:30
Time of departure:	12:00

ECG employee:	dva
System status upon arrival:	operating
System status upon departure:	shut down

SOIL VAPOR EXTRACTION SYSTEM

	Vapor Manifold (influent)			INFLUENT	Traviani			
Oil Level	ΔP	Temp.	Pressure	Flow	Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(°F)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK				148.0		0	10,085.9	09:30

UTILITIES					SAMPLES COLLECTED AND SAMPLE TIMES			
	Natural Gas		Gas Train	EFFLUENT		Time	Sampler	PID
	Meter	Flow Rate	Pressure	Flow		(hours)		(ppmv)
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)	EFFLUENT	10:55	dva	2.1
				148.0	INFLUENT	11:00	dva	109.0

VAPOR EXTRACTION WELL MANIFOLD LINES

	% Open	Vacuum	Delta PI	Temp	Field PID
Line	(%)	("Hg)	("w.c.)	(°F)	(ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	0%	---	---	---	---

MISC. FIELD NOTES

System shut down for carbon change out
temp 1454 dil 1407

Groundwater flow meter 1082639

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	01/21/16
Time of arrival:	09:30
Time of departure:	12:00

ECG employee:	dva
System status upon arrival:	shut down
System status upon departure:	operating

SOIL VAPOR EXTRACTION SYSTEM

	Vapor Manifold (influent)			INFLUENT	Traviani			
Oil Level	ΔP	Temp.	Pressure	Flow	Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(°F)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK				0.0		0	10,085.9	09:30

UTILITIES					SAMPLES COLLECTED AND SAMPLE TIMES			
	Natural Gas		Gas Train	EFFLUENT		Time	Sampler	PID
	Meter	Flow Rate	Pressure	Flow		(hours)		(ppmv)
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)	EFFLUENT			
				0.0	INFLUENT			

VAPOR EXTRACTION WELL MANIFOLD LINES

	% Open	Vacuum	Delta PI	Temp	Field PID
Line	(%)	("Hg)	("w.c.)	(°F)	(ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	0%	---	---	---	---

MISC. FIELD NOTES

Carbon change out completed and unit restarted

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	01/27/16
Time of arrival:	09:30
Time of departure:	13:30

ECG employee:	dva
System status upon arrival:	operating
System status upon departure:	operating

SOIL VAPOR EXTRACTION SYSTEM

	Vapor Manifold (influent)			INFLUENT	Traviani			
Oil Level	ΔP	Temp.	Pressure	Flow	Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(°F)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK				146.0		0	10,233.6	09:30

UTILITIES					SAMPLES COLLECTED AND SAMPLE TIMES			
	Natural Gas		Gas Train	EFFLUENT		Time	Sampler	PID
	Meter	Flow Rate	Pressure	Flow		(hours)		(ppmv)
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)	EFFLUENT	10:00	dva	1.5
				146.0	INFLUENT	10:05	dva	52.0

VAPOR EXTRACTION WELL MANIFOLD LINES

	% Open	Vacuum	Delta PI	Temp	Field PID
Line	(%)	("Hg)	("w.c.)	(°F)	(ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	0%	---	---	---	---

MISC. FIELD NOTES

Shut down system to clean AS system, restarted unit
temp 1449 dil 1403

Groundwater flow meter 111042.9

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	02/03/16
Time of arrival:	09:30
Time of departure:	11:30

ECG employee:	dva
System status upon arrival:	operating
System status upon departure:	operating

SOIL VAPOR EXTRACTION SYSTEM

	Vapor Manifold (influent)			INFLUENT	Traviani			
Oil Level	ΔP	Temp.	Pressure	Flow	Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(°F)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK				159.0		0	10,399.3	09:30

UTILITIES					SAMPLES COLLECTED AND SAMPLE TIMES			
	Natural Gas		Gas Train	EFFLUENT		Time	Sampler	PID
	Meter	Flow Rate	Pressure	Flow		(hours)		(ppmv)
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)	EFFLUENT		dva	
				159.0	INFLUENT		dva	

VAPOR EXTRACTION WELL MANIFOLD LINES

	% Open	Vacuum	Delta PI	Temp	Field PID
Line	(%)	("Hg)	("w.c.)	(°F)	(ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	0%	---	---	---	---

MISC. FIELD NOTES

Leaking hose from bag filter to oxidizer
temp 1458 dil 1410

Groundwater flow meter 113561.0

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	02/05/16
Time of arrival:	09:30
Time of departure:	11:30

ECG employee:	dva
System status upon arrival:	operating
System status upon departure:	operating

SOIL VAPOR EXTRACTION SYSTEM

	Vapor Manifold (influent)			INFLUENT	Traviani			
Oil Level	ΔP	Temp.	Pressure	Flow	Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(°F)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK				160.0		0	10,448.0	09:30

UTILITIES					SAMPLES COLLECTED AND SAMPLE TIMES			
	Natural Gas		Gas Train	EFFLUENT		Time	Sampler	PID
	Meter	Flow Rate	Pressure	Flow		(hours)		(ppmv)
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)	EFFLUENT		dva	
				160.0	INFLUENT		dva	

VAPOR EXTRACTION WELL MANIFOLD LINES

	% Open	Vacuum	Delta PI	Temp	Field PID
Line	(%)	("Hg)	("w.c.)	(°F)	(ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	100%	---	---	---	water

MISC. FIELD NOTES

Replaced leaking hose from bag filter to oxidizer
temp 1453 dil 1406

Groundwater flow meter 114268.3

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	02/17/16
Time of arrival:	09:30
Time of departure:	11:30

ECG employee:	dva
System status upon arrival:	shut down
System status upon departure:	shut down

SOIL VAPOR EXTRACTION SYSTEM

	Vapor Manifold (influent)			INFLUENT	Traviani			
Oil Level	ΔP	Temp.	Pressure	Flow	Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(ºF)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK						0		

UTILITIES					SAMPLES COLLECTED AND SAMPLE TIMES			
	Natural Gas		Gas Train	EFFLUENT		Time	Sampler	PID
	Meter	Flow Rate	Pressure	Flow		(hours)		(ppmv)
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)	EFFLUENT		dva	
				0.0	INFLUENT		dva	

VAPOR EXTRACTION WELL MANIFOLD LINES

	% Open	Vacuum	Delta PI	Temp	Field PID
Line	(%)	("Hg)	("w.c.)	(ºF)	(ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	100%	---	---	---	water

MISC. FIELD NOTES

System shut down due to high water in AS
AS would not restart
Manufacturer contacted for repairs

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	02/19/16
Time of arrival:	09:30
Time of departure:	11:30

ECG employee:	dva
System status upon arrival:	shut down
System status upon departure:	operating

SOIL VAPOR EXTRACTION SYSTEM

Oil Level	Vapor Manifold (influent) ΔP	Temp.	Pressure	INFLUENT Flow	Traviani Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(ºF)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK						0		

UTILITIES

	Natural Gas Meter	Natural Gas Flow Rate	Gas Train Pressure	EFFLUENT Flow
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)
				0.0

SAMPLES COLLECTED AND SAMPLE TIMES

	Time (hours)	Sampler	PID (ppmv)
EFFLUENT		dva	
INFLUENT		dva	

VAPOR EXTRACTION WELL MANIFOLD LINES

Line	% Open (%)	Vacuum ("Hg)	Delta PI ("w.c.)	Temp (ºF)	Field PID (ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	100%	---	---	---	water

MISC. FIELD NOTES

System repairs by Manufacturer, system restarted

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	02/24/16
Time of arrival:	09:30
Time of departure:	11:30

ECG employee:	dva
System status upon arrival:	shut down
System status upon departure:	operating

SOIL VAPOR EXTRACTION SYSTEM

	Vapor Manifold (influent)			INFLUENT	Traviani			
Oil Level	ΔP	Temp.	Pressure	Flow	Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(°F)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK				155.0		0	10,832.1	09:30

UTILITIES					SAMPLES COLLECTED AND SAMPLE TIMES			
	Natural Gas		Gas Train	EFFLUENT		Time	Sampler	PID
	Meter	Flow Rate	Pressure	Flow		(hours)		(ppmv)
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)	EFFLUENT		dva	
				155.0	INFLUENT		dva	

VAPOR EXTRACTION WELL MANIFOLD LINES

	% Open	Vacuum	Delta PI	Temp	Field PID
Line	(%)	("Hg)	("w.c.)	(°F)	(ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	100%	---	---	---	water

MISC. FIELD NOTES

System down 2/23/16 due to power outage
Temp 1448 Dil 1357

Groundwater meter 117279.0

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	03/01/16
Time of arrival:	09:30
Time of departure:	11:30

ECG employee:	dva
System status upon arrival:	shut down
System status upon departure:	operating

SOIL VAPOR EXTRACTION SYSTEM

	Vapor Manifold (influent)			INFLUENT	Traviani			
Oil Level	ΔP	Temp.	Pressure	Flow	Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(°F)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK				156.0		0	10,975.8	09:30

UTILITIES					SAMPLES COLLECTED AND SAMPLE TIMES			
	Natural Gas		Gas Train	EFFLUENT		Time	Sampler	PID
	Meter	Flow Rate	Pressure	Flow		(hours)		(ppmv)
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)	EFFLUENT	10:00	dva	1.1
				156.0	INFLUENT	10:15	dva	78.0

VAPOR EXTRACTION WELL MANIFOLD LINES

	% Open	Vacuum	Delta PI	Temp	Field PID
Line	(%)	("Hg)	("w.c.)	(°F)	(ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	100%	---	---	---	water

MISC. FIELD NOTES

Temp 1445 Dil 1403

Groundwater meter 118864.2

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	03/21/16
Time of arrival:	11:30
Time of departure:	13:30

ECG employee:	dva
System status upon arrival:	Shutdown
System status upon departure:	operating

SOIL VAPOR EXTRACTION SYSTEM

	Vapor Manifold (influent)			INFLUENT	Traviani			
Oil Level	ΔP	Temp.	Pressure	Flow	Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(°F)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK				138.0		0	11,270.1	11:30

UTILITIES

	Natural Gas		Gas Train	EFFLUENT
	Meter	Flow Rate	Pressure	Flow
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)
				138.0

SAMPLES COLLECTED AND SAMPLE TIMES

	Time	Sampler	PID
	(hours)		(ppmv)
EFFLUENT	12:40	dva	1.1
INFLUENT	12:45	dva	109.0

VAPOR EXTRACTION WELL MANIFOLD LINES

	% Open	Vacuum	Delta PI	Temp	Field PID
Line	(%)	("Hg)	("w.c.)	(°F)	(ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	100%	---	---	---	water

MISC. FIELD NOTES

Unknown why system down
Temp 1464 Dil 1396
Changed bag filter
Groundwater meter 123952.6

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	04/05/16
Time of arrival:	09:30
Time of departure:	11:30

ECG employee:	dva
System status upon arrival:	Shutdown
System status upon departure:	operating

SOIL VAPOR EXTRACTION SYSTEM

	Vapor Manifold (influent)			INFLUENT	Traviani			
Oil Level	ΔP	Temp.	Pressure	Flow	Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(°F)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK				123.0		0	11,609.5	09:30

UTILITIES					SAMPLES COLLECTED AND SAMPLE TIMES			
	Natural Gas		Gas Train	EFFLUENT		Time	Sampler	PID
	Meter	Flow Rate	Pressure	Flow		(hours)		(ppmv)
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)	EFFLUENT		dva	
				123.0	INFLUENT		dva	

VAPOR EXTRACTION WELL MANIFOLD LINES

	% Open	Vacuum	Delta PI	Temp	Field PID
Line	(%)	("Hg)	("w.c.)	(°F)	(ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	100%	---	---	---	water

MISC. FIELD NOTES

Unknown why system down
Temp 1485 Dil 1411
Changed bag filter
Groundwater meter 131094.1

Shore Acres Gas
403 East 12th Street
Oakland, California

Date of site visit:	04/11/16
Time of arrival:	09:30
Time of departure:	11:30

ECG employee:	dva
System status upon arrival:	operating
System status upon departure:	shut down

SOIL VAPOR EXTRACTION SYSTEM

	Vapor Manifold (influent)			INFLUENT	Traviani			
Oil Level	ΔP	Temp.	Pressure	Flow	Blower	Dilution	Hours	Time
(OK/Low)	("w.c.)	(°F)	("w.c.)	(SCFM)	Pressure	%	(Hours)	(Hours)
OK				135.0		0	11,752.3	09:30

UTILITIES

	Natural Gas		Gas Train	EFFLUENT
	Meter	Flow Rate	Pressure	Flow
	(ft^3 X 1000)	(SCFM)	(psig)	(SCFM)
				135.0

SAMPLES COLLECTED AND SAMPLE TIMES

	Time	Sampler	PID
	(hours)		(ppmv)
EFFLUENT	10:25	dva	1.1
INFLUENT	10:30	dva	52.0

VAPOR EXTRACTION WELL MANIFOLD LINES

	% Open	Vacuum	Delta PI	Temp	Field PID
Line	(%)	("Hg)	("w.c.)	(°F)	(ppmv)
EW-1	0%	---	---	---	---
EW-2	100%	---	---	---	water
EW-3	0%	---	---	---	---
EW-4	100%	---	---	---	water

MISC. FIELD NOTES

System shut down
Temp 1519 Dil 1468

Groundwater meter 134042.5