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Alameda County
Environmental Health

January 26, 2012

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

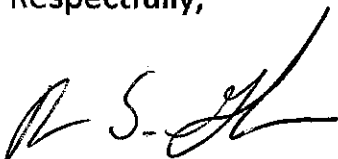
Subject: Offsite Investigation and DPE Pilot Test with Fourth Quarter 2011
Monitoring Report
Shore Acres Gas
403 East 12th Street, Oakland, Alameda County, California
RO #0002931
ECG # GHA.19009

Dear Ms. Drogos:

Enclosed please find a copy of the January 26, 2012 Offsite Investigation and DPE Pilot Test with Fourth Quarter 2011 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

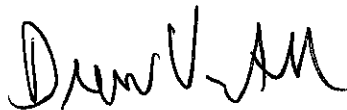
OFF SITE INVESTIGATION AND DUAL
PHASE PILOT TEST RESULTS WITH
FOURTH QUARTER 2011
GROUNDWATER MONITORING REPORT

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

January 26, 2012



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), LLC has been authorized by Mr. Rashid Ghafoor to provide this interim results report for the site.

This report provides details on:

- advancing 12 groundwater grab sample borings off site to delineate the dissolved phase plume,
- conducting the fourth quarter 2011 groundwater monitoring event, and
- summarizing a five-day dual phase extraction (DPE) test.

This interim report was prepared by ECG as specified by the Alameda County Health Care Services (ACHCS) Agency in their directive letter dated June 17, 2011 (Appendix A). This work was conducted according to the workplans prepared by ECG on February 9, April 14, and June 6, 2011, 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 below ground surface (bgs) in the area.

Based on boring logs from the advancement of 21 soil borings and the installation of six monitoring wells and two 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 10- to 13-feet bgs. The groundwater flow direction appears to be toward the south.

CLEANUP CRITERIA

It is prudent to establish cleanup goals for soil and groundwater based upon reaching the residential Environmental Screening Levels (ESLs) established by Region II for sites with shallow soil where groundwater is not a current or potential drinking water source. The primary constituents of concern relative to the site appear to be total petroleum hydrocarbons as diesel (TPHd) and gasoline (TPHg) benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA). Accordingly, the following cleanup goals are proposed:

Constituent	Soil (mg/kg)	Groundwater (ug/L)
TPHd	100	210
TPHg	100	210
Benzene	0.12	46
Toluene	9.3	130
Ethylbenzene	2.3	43
Xylenes	11	100
MTBE	8.4	1,800
TBA	100	18,000

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 (VW-1 and VW-2). Results are documented in ECG's *Interim Results and Second Quarter 2011 Monitoring Report*, dated August 17, 2011.

In December 2011, ECG advanced 12 direct push borings for the collection of grab groundwater samples to delineate the dissolved phase plume in the up, cross, and downgradient from the site. The results are presented in this report.

Well construction details are contained in Table 1.

RISK ASSESSMENTS

In February 2011, ECG conducted a sensitive receptor survey and a preferential pathway study for the site. Results of the sensitive receptor survey and preferential pathway study are contained in the *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 installed two extraction wells (VW-1 and VW-2). Results are documented in ECG's *Interim Results and Second Quarter 2011 Monitoring Report*, dated August 17, 2011. Also in June 2011, ECG performed a five-day DPE test and the results are detailed in this report.

SITE ACTIVITIES

In correspondence dated June 17, 2011 (Appendix A), ACHCS requested a final results report to assess the lateral and vertical extent of soil and groundwater contamination and assess remediation technologies suitable to clean up the site. The following sections complete that request.

BORING INSTALLATIONS

ECG prepared a site-specific Health and Safety Plan for the proposed scope of work as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR.1910.120). The document was 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) was contacted to delineate subsurface utilities near the site with surface markings. In addition, the first five feet of every location was hand cleared as a further precaution against damaging underground utilities. All work was done in accordance to ECG Standard Operating Procedures (SOPs) included as Appendix B.

On December 5, 2011, ECG supervised Resonant Sonic Industries (RSI) of Woodland, California, during the installation of 12 grab groundwater borings (SB-10 through SB-21) at locations shown on Figure 2. The borings were installed using 2-inch diameter direct push techniques. Boring SB-10 was advanced to delineate groundwater in the upgradient direction and borings SB-11 and 12 were advanced in the cross gradient direction. Borings SB-13 through SB-21 were advanced to

laterally delineate impacted groundwater downgradient from the site. Borings were advanced to total depths of 20-feet bgs.

GROUNDWATER SAMPLING

Discrete groundwater samples were collected from all borings at a depth of approximately 19-feet bgs. Water was slow to enter the borings. Soil boring SB-20 did not yield groundwater for sample collection. Groundwater samples were collected into appropriate containers, labeled, and placed in an insulated container for delivery to Argon Analytical Laboratories in Ceres, California under proper chain of custody (COC) documentation. The groundwater samples were analyzed for TPHg, BTEX, five oxygenates, and two lead scavengers by EPA Method 8260B. Laboratory analytical reports and COCs are provided in Appendix C. Summaries of grab groundwater analytical data are presented in Tables 3a and 3b.

FOURTH QUARTER 2011 GROUNDWATER MONITORING EVENT

ECG performed the fourth quarter 2011 groundwater monitoring and sampling event at the site on December 11, 2011. Gauging, development, purging, and sampling were conducted in accordance with ECG's SOPs included in Appendix B. The collected groundwater samples were submitted to Argon Analytical Services, Inc. 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:	Assessment
Groundwater Sampling Schedule:	Quarterly
Analysis:	Wells MW-1 through MW-6, VW-1, and VW-2 TPHg and TPHd 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	11.96-feet bgs
Average Groundwater Elevation	19.21-feet above mean sea level
Groundwater Gradient Direction	West
Groundwater Gradient	0.0020 feet/foot
TPHg Detected Range	260 ug/L (SB-19) to 110,000 ug/L (MW-5)
Benzene Detected Range	7.1 ug/L (SB-19) to 12,000 ug/L (MW-3)
MTBE Detected	22 ug/L (SB-11) to 7,400 (MW-3)

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 and 4b. TPHd was inadvertently not sampled for during this quarterly event.

FIVE DAY EXTRACTION PILOT TEST

ECG conducted the DPE pilot test from June 24 through 28, 2011. A portable DPE unit was rented from Mako Industries in Anaheim, California under their blanket air board permit. The DPE unit used was a Model 300 TCAT, thermal oxidizer capable of extracting and abating soil vapors at a rate of 300 standard cubic feet per minute (scfm) and equipped with a liquid ring pump. System specifications are presented in Appendix E.

Wells VW-1 and VW-2 were used as extraction points during the test. The DPE unit was connected to an individual well using 2-inch diameter above ground flexible tubing. The remaining extraction well and groundwater monitoring wells MW-1 through MW-6 were used to monitor vacuum influence and water levels during the test.

Wells VW-1 and VW-2 were extracted from for 40 and 48 hours, respectively. During daylight hours, readings for influent concentrations, flow rates, system vacuum, and vacuum influence were monitored hourly with field instruments. Field notes are included as Appendix F which include flow rates and field influent concentrations monitored with a photoionization detector (PID). Influent flow rates were difficult to obtain because of the presence of water that was entrained in the vapor stream during the DPE test. Average flow rates of 180 standard cubic feet per minute (scfm) and 50 scfm were estimated for wells VW-1 and VW-2, respectively. PID readings increased from 62 parts per million by volume (ppmv) to 272 by the end of the test at well VW-1. PID reading initially increased to 1,990 ppmv but then reduced to 173 ppmv at the end of the test at well VW-2. Vapor influence was noticed at all site wells during the first test at well VW-1 but positive pressure was recorded at most wells during the test at well VW-2. This is most likely caused by groundwater recovery in these wells after the first test creating positive pressure within the wells' casings.

Influent vapor samples were collected from the conveyance piping after each test ran for three hours, near the middle of the tests, and just prior to the conclusion of the tests on wells VW-1 and VW-2. Vapor samples were collected into one-liter Tedlar bags filled no more than 90 percent to capacity and shipped overnight to Kiff Analytical in Davis, California, a State certified analytical laboratory for analysis. Analytical data, flow rates and extraction rates are shown on Tables 6 and 7. TPHg influent concentrations increased from 190 to 1,400 ppmv during the test for well VW-1 and decreased from 11,000 to 3,200 ppmv at well VW-2 during the tests. TPHg extraction rates were 76 and 58 pounds per day at the conclusion of the tests at wells VW-1 and VW-2, respectively.

Groundwater extraction rates of approximately 3.3 and 2.0 gallons per minute were achieved during extraction from wells VW-1 and VW-2, respectively and drawdown of one to five feet was observed in observation wells, with the furthest distance being 68-feet from well VW-1 to well MW-2. A Distance Drawdown Plot using the data from the test at VW-1 shows a groundwater radius of influence of 88 feet, a transmissivity value of 34 square feet/day, and a hydraulic conductivity value of 0.0012 centimeters per second which is consistent for a silty sand aquifer (Appendix G). A time drawdown plot using the recovery data from well VW-2 shows a transmissivity value of 22 square feet/day and a hydraulic conductivity value of 0.0008 centimeters per second which is also consistent for a silty sand aquifer (Appendix G).

Water samples were collected from the extraction wells at the conclusion of the tests. Analytical data, total groundwater extracted, and a groundwater extraction summary is shown on Table 8. All work was done in accordance to ECG SOPs included as Appendix B.

CONCLUSIONS

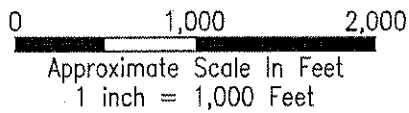
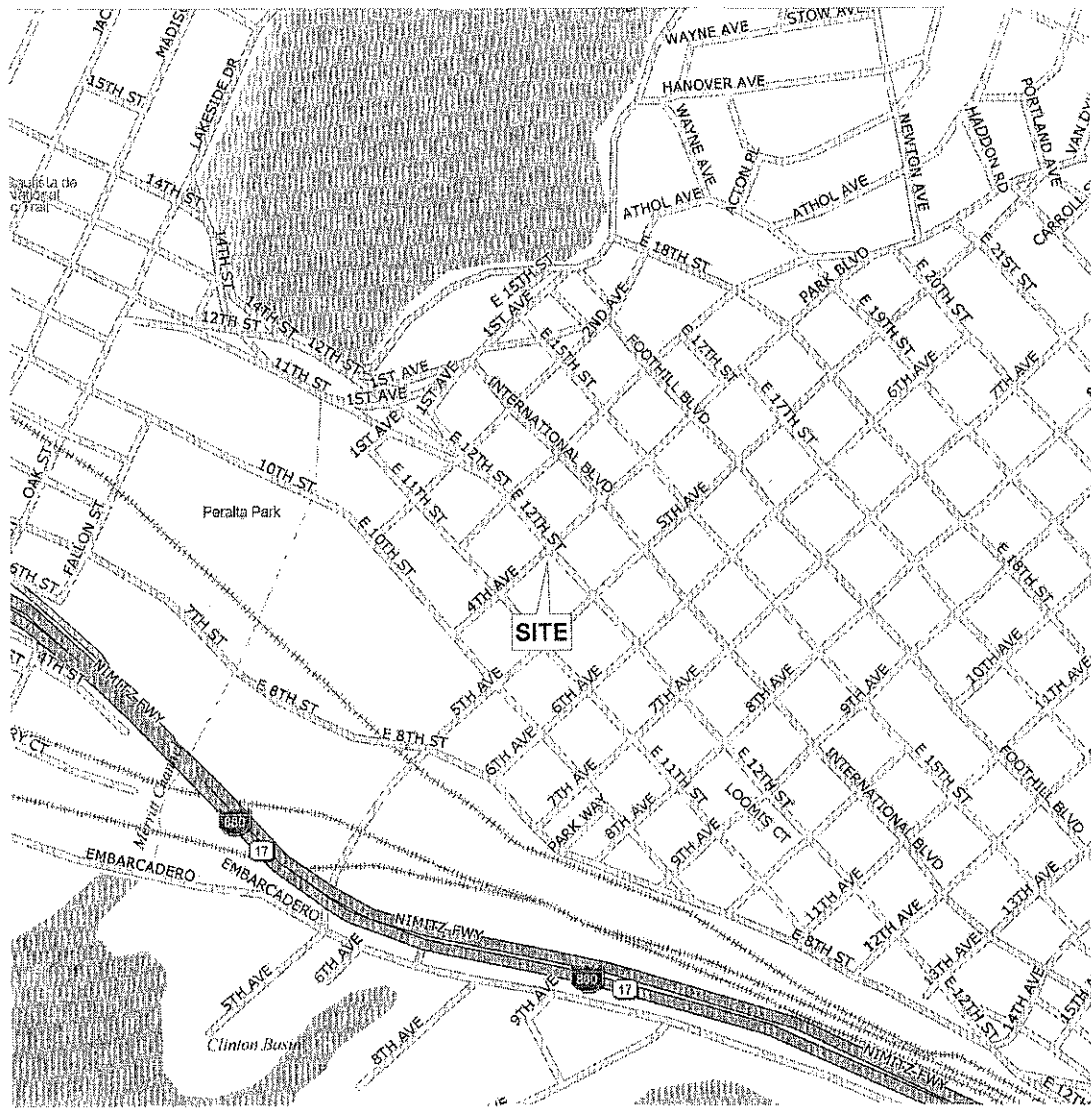
Groundwater concentrations in extraction wells VW-1 and VW-2 and all onsite wells are substantial. Figure 4 through 6 illustrate the dissolved phase groundwater plume is sufficiently delineated in the downgradient direction (southwest) by soil boring SB-14. It appears that a second source is present near the intersection of Fourth Avenue and East Eleventh Street. In addition, the absence of MTBE in the second source area borings provides further evidence that contamination found in this area is not associated with the Shore Acres Gas site.


DPE worked well at the site. During extraction, vapor flow rates averaged at approximately 150 and 50 scfm at wells VW-1 and VW-2, respectively and vapor influence was seen at observation wells approximately 68 feet away from the extraction wells. Groundwater extraction rates of greater than 3-gallons per minute were recorded, and drawdown of over 1-foot was measured in observation wells approximately 68 feet away from extraction wells. Mass removal rates were averaged at approximately 60 pounds per day at the conclusions of each test, which is high enough to warrant installing a full-time DPE unit at the site. DPE would effectively lower the mass while controlling off site migration.

Soil concentration data illustrating the lateral and vertical extents is shown on Figures 7 through 14. Using the soil and groundwater isoconcentration and cross section data, it is warranted to convert well MW-5 to a 4-inch extraction well.

ECG recommends preparing a Feasibility Study and Remedial Action Plan detailing the DPE treatment system appropriate to reduce site conditions to below Region II ESLs in a reasonable amount of time.

FIGURES



<p>FIGURE 1</p>	<p align="center">SITE LOCATION MAP</p> <p align="center">Shore Acre Gas 403 East 12th Street Oakland, California</p>	 <p>Environmental Compliance Group, LLC 270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035</p>
<p>Project Number: GHA.19009</p>		
<p>Date: February 9, 2011</p>		

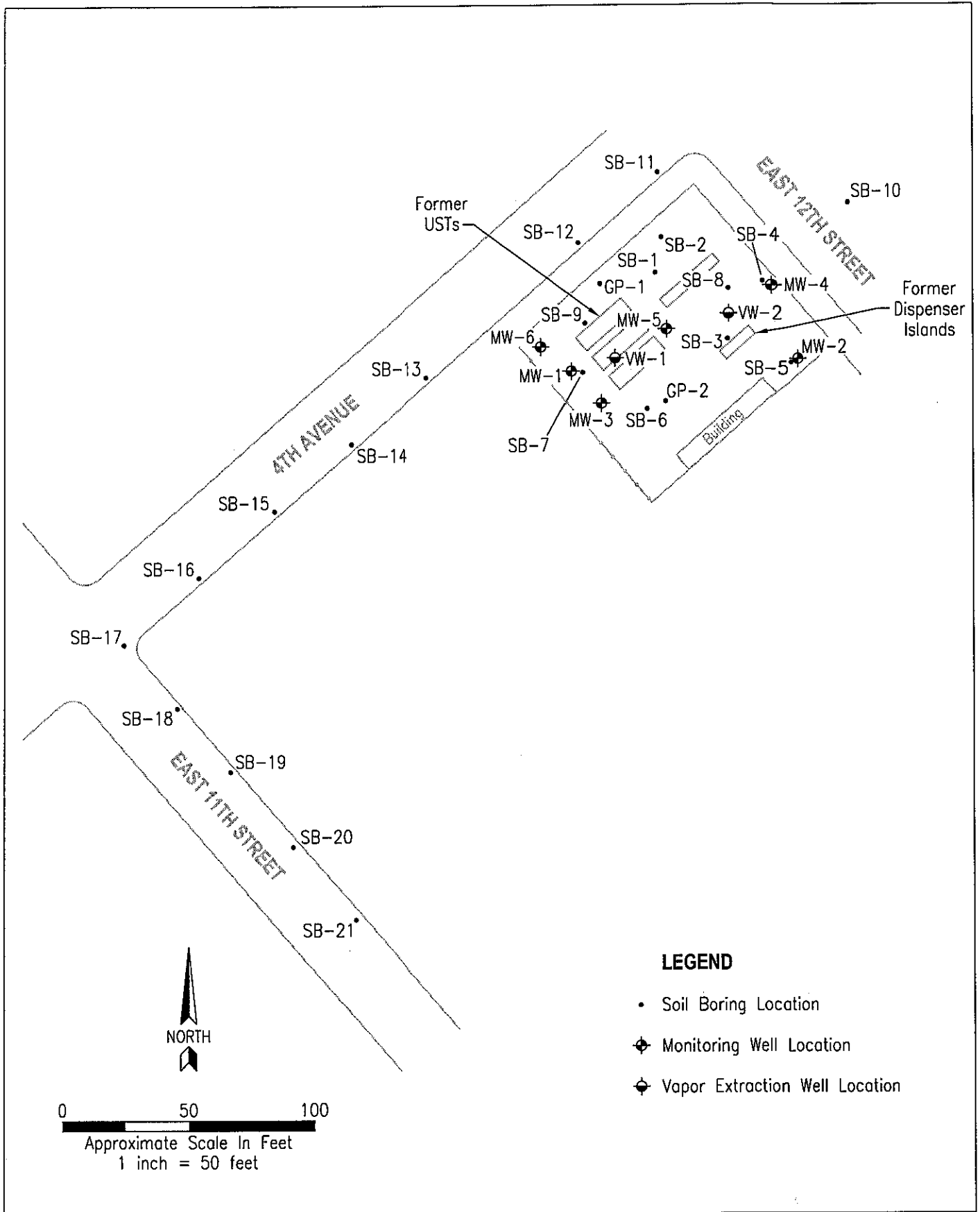


FIGURE 2

Project Number:
GHA.19009

Date:
January 4, 2012

SITE MAP

Shore Acre Gas
403 East 12th Street
Oakland, California



**Environmental
Compliance
Group, LLC**

270 Vintage Drive, Turlock, CA 95382
Phone: (209) 664-1035

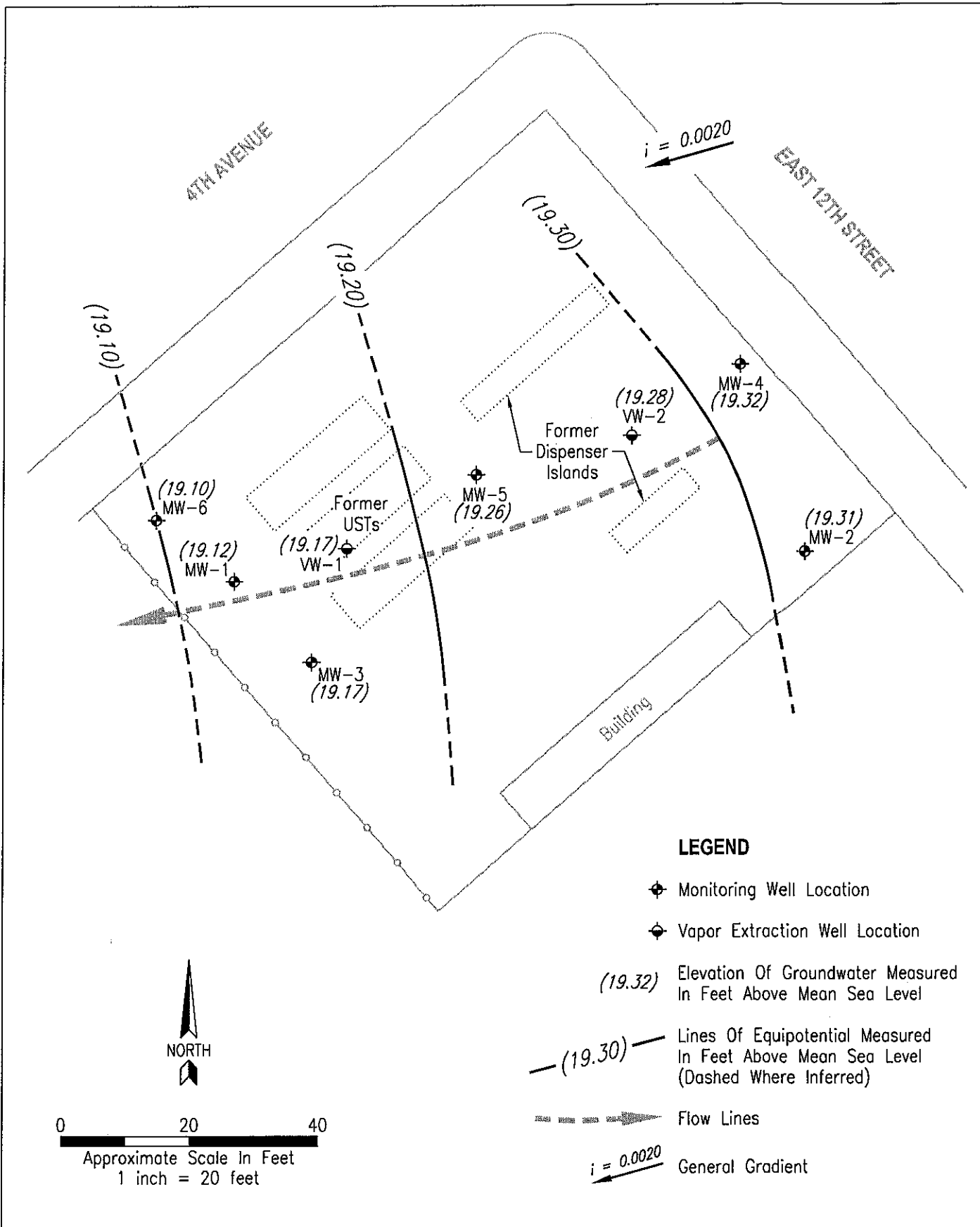


FIGURE 3
Project Number:
GHA.19009
Date:
January 9, 2012

POTENTIOMETRIC SURFACE MAP
DECEMBER 11, 2011
Shore Acre Gas
403 East 12th Street
Oakland, California



Environmental Compliance Group, LLC
270 Vintage Drive, Turlock, CA 95382
Phone: (209) 664-1035

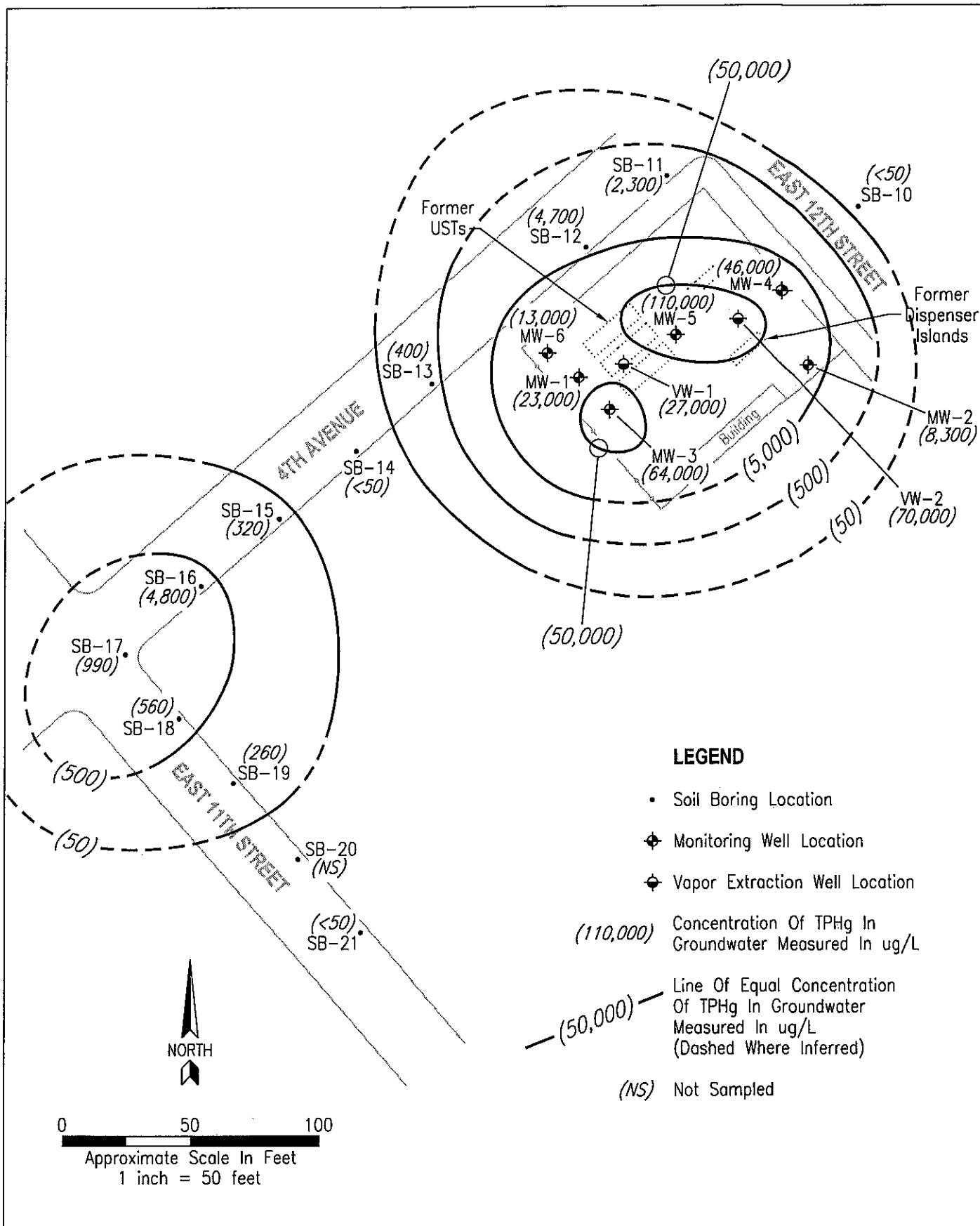
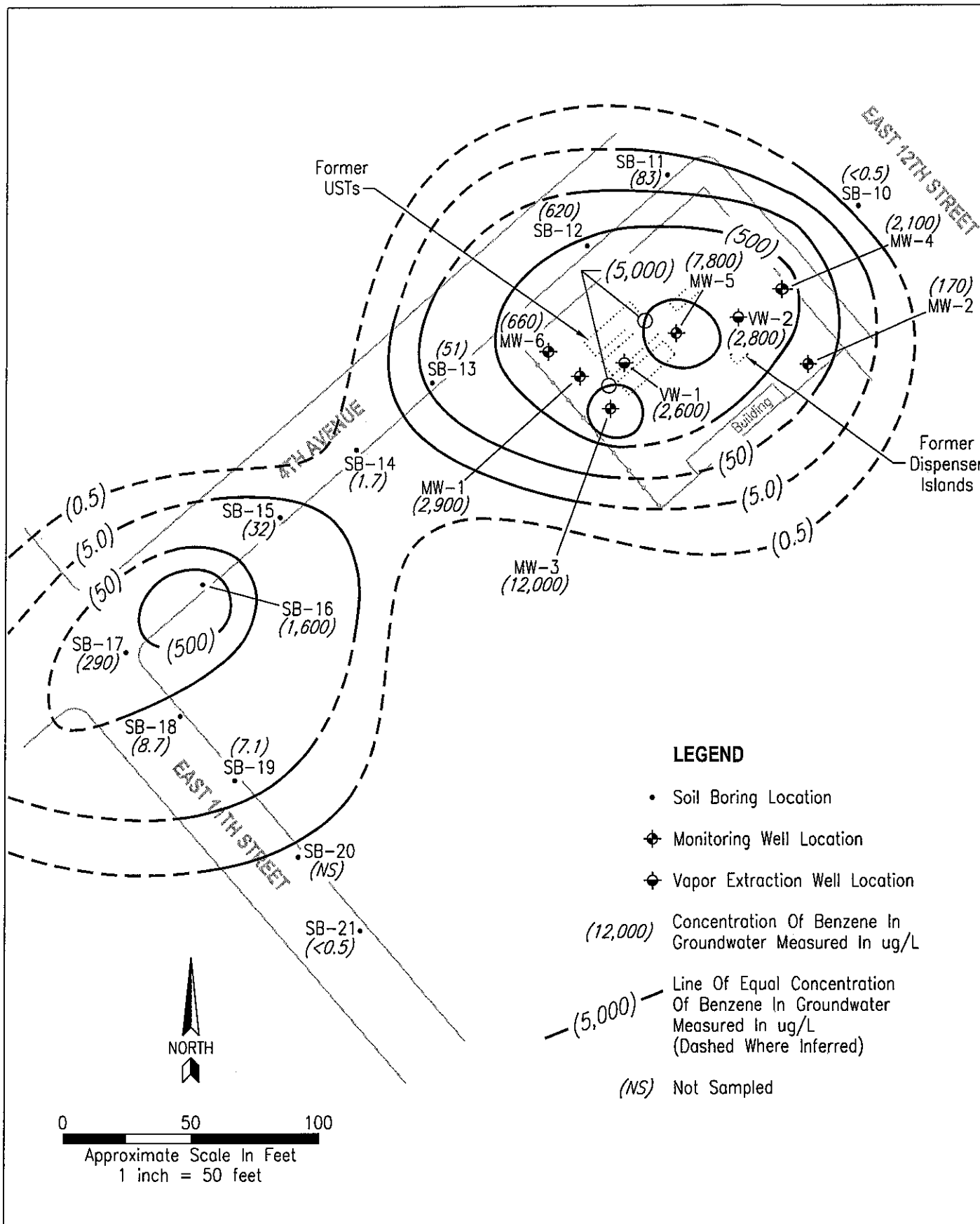


FIGURE 4
 Project Number:
 GHA.19009
 Date:
 January 9, 2012

TPHg IN GROUNDWATER ISOCONCENTRATION MAP
DECEMBER 2011
 Shore Acre Gas
 403 East 12th Street
 Oakland, California



Environmental Compliance Group, LLC
 270 Vintage Drive, Turlock, CA 95382
 Phone: (209) 664-1035



LEGEND

- Soil Boring Location
- ⊕ Monitoring Well Location
- ⊖ Vapor Extraction Well Location

(12,000) Concentration Of Benzene In Groundwater Measured In ug/L

—(5,000)— Line Of Equal Concentration Of Benzene In Groundwater Measured In ug/L (Dashed Where Inferred)

(NS) Not Sampled

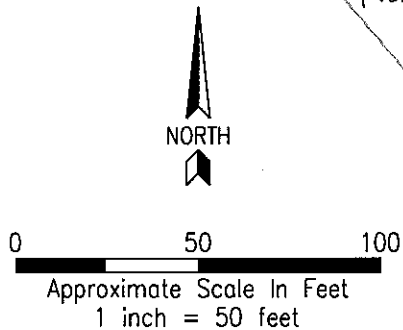


FIGURE 5

**BENZENE IN GROUNDWATER ISOCONCENTRATION MAP
DECEMBER 2011**

Project Number:
GHA.19009

Date:
January 9, 2012

Shore Acre Gas
403 East 12th Street
Oakland, California



270 Vintage Drive, Turlock, CA 95382
Phone: (209) 664-1035

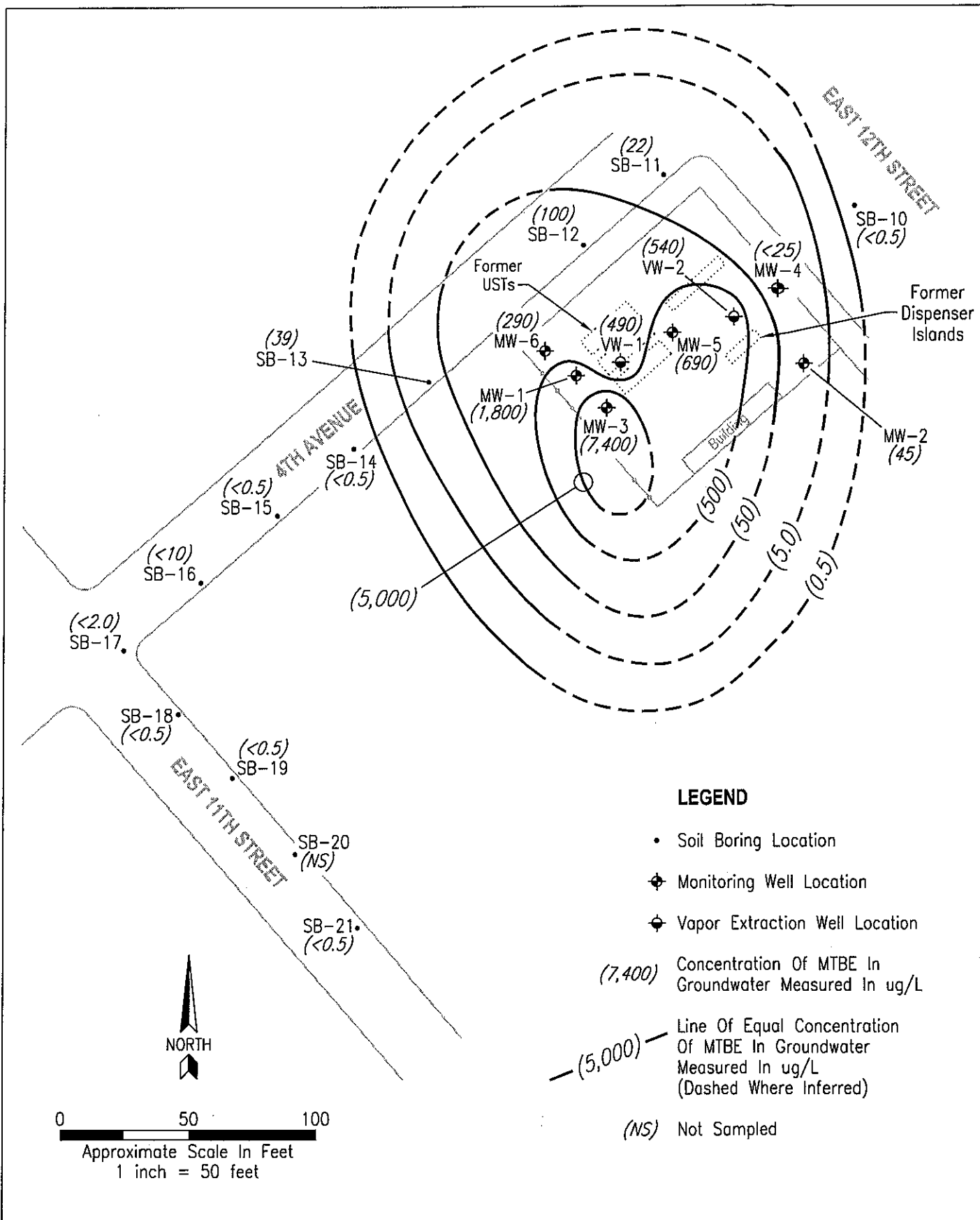


FIGURE 6
 Project Number:
 GHA.19009
 Date:
 January 9, 2012

MTBE IN GROUNDWATER ISOCONCENTRATION MAP
DECEMBER 2011
 Shore Acre Gas
 403 East 12th Street
 Oakland, California



Environmental Compliance Group, LLC
 270 Vintage Drive, Turlock, CA 95382
 Phone: (209) 664-1035

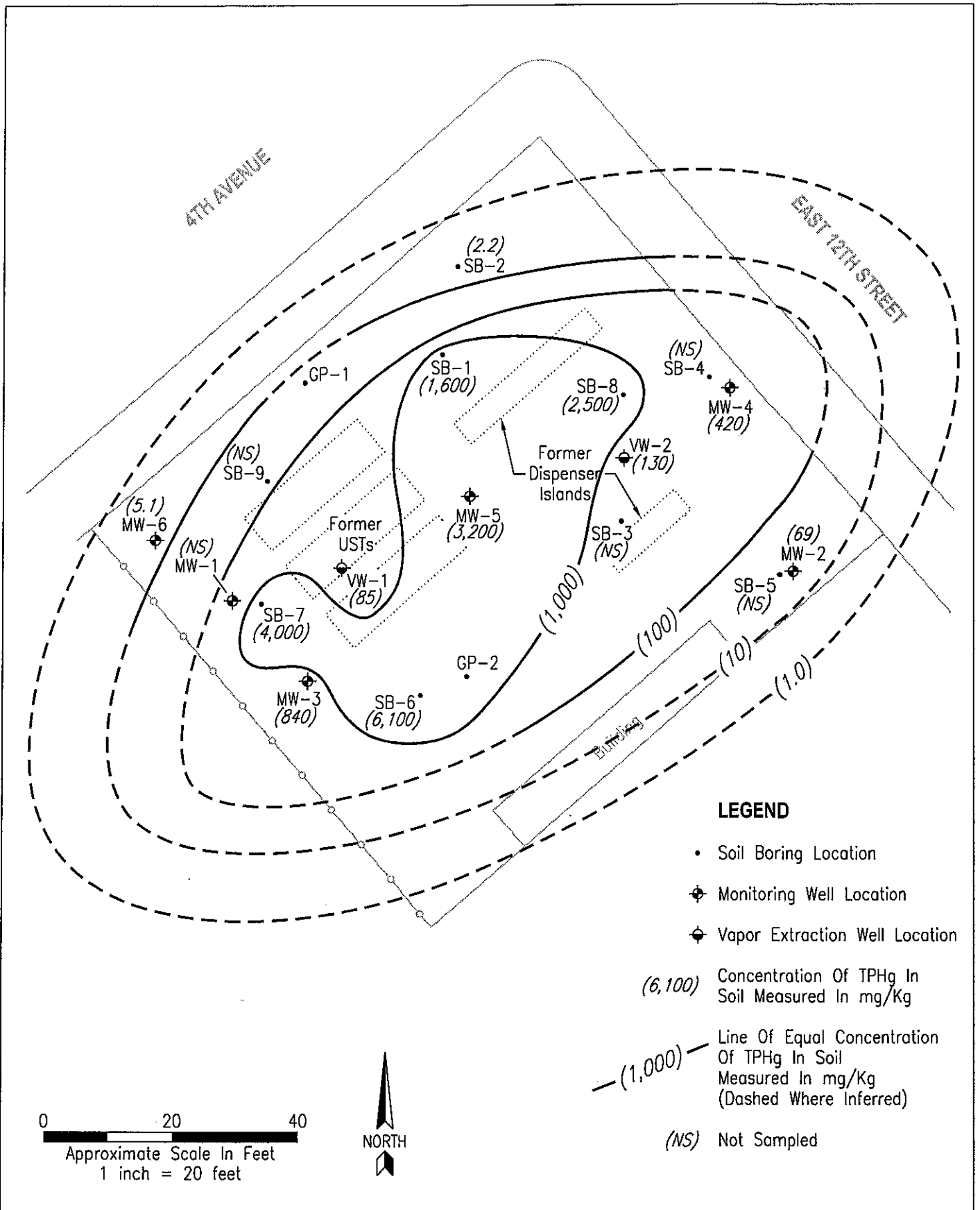



FIGURE 7	TPHg IN SOIL AT 10 FEET bgs ISOCONCENTRATION MAP	 Environmental Compliance Group, LLC 270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035
Project Number: GHA.19009	Shore Acre Gas 403 East 12th Street Oakland, California	
Date: August 16, 2011		

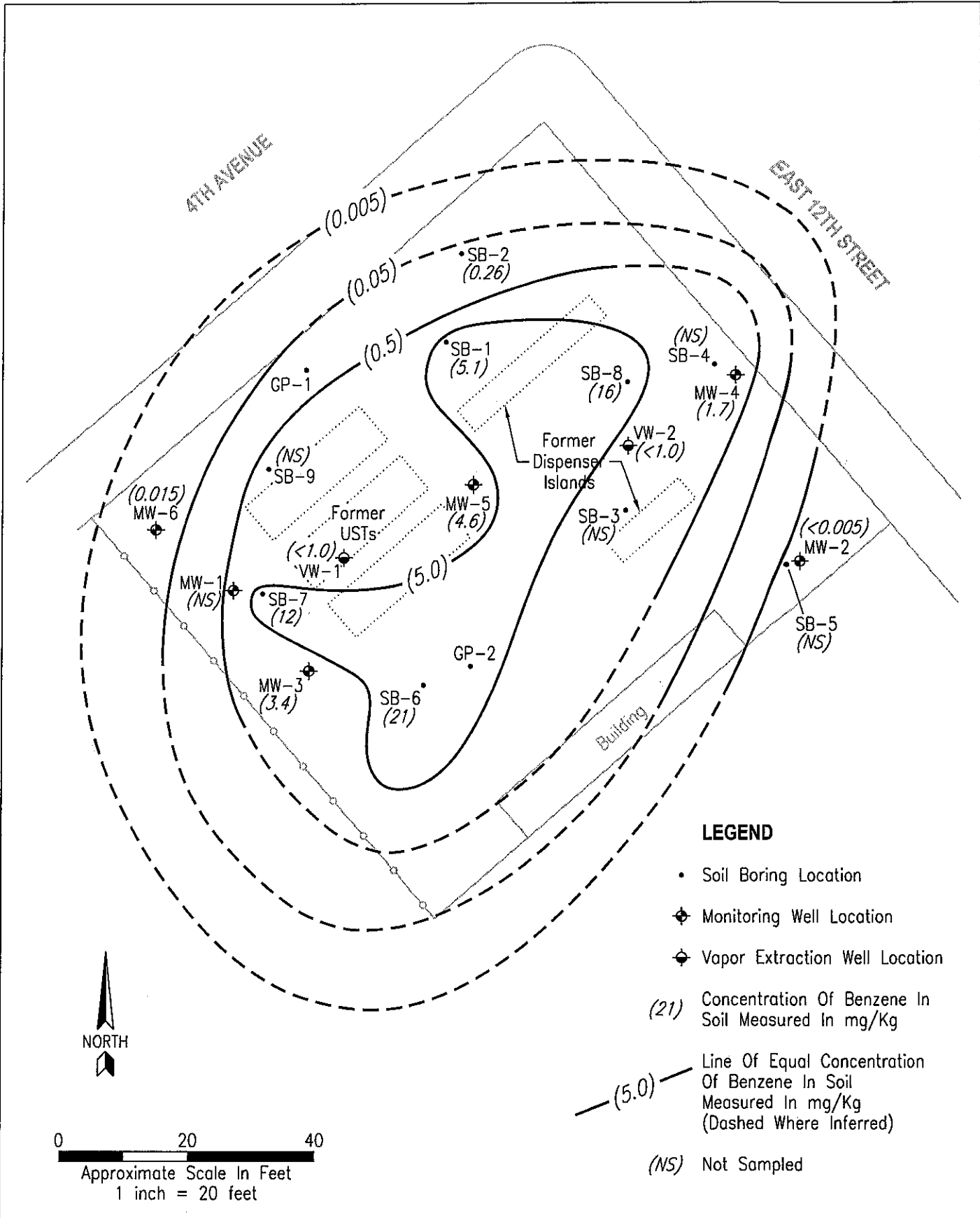



FIGURE 8
 Project Number:
 GHA.19009
 Date:
 August 16, 2011

BENZENE IN SOIL AT 10 FEET bgs ISOCONCENTRATION MAP

Shore Acre Gas
 403 East 12th Street
 Oakland, California



Environmental Compliance Group, LLC
 270 Vintage Drive, Turlock, CA 95382
 Phone: (209) 664-1035

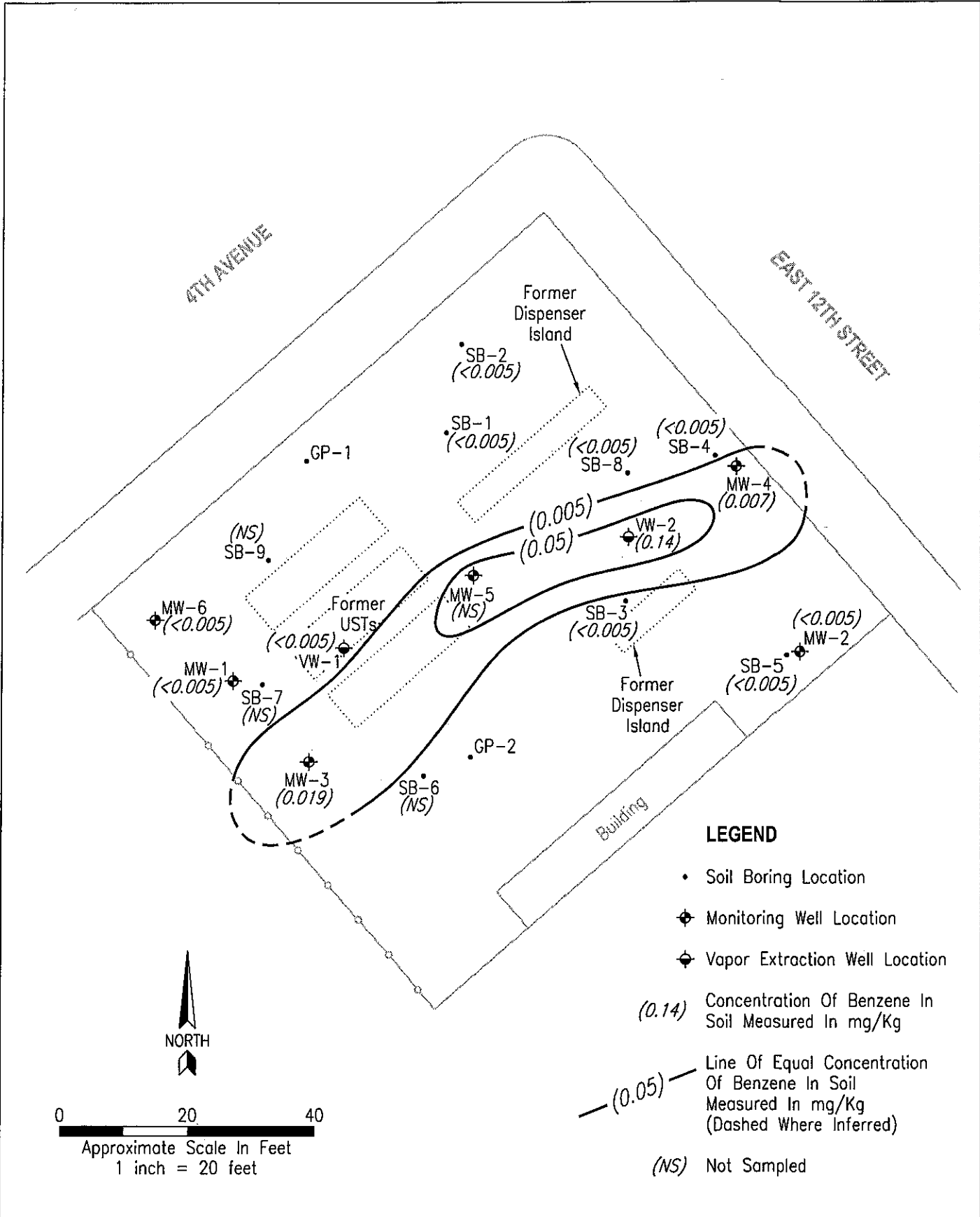


FIGURE 9
 Project Number:
 GHA.19009
 Date:
 August 16, 2011

BENZENE IN SOIL AT 20-25 FEET bgs ISOCONCENTRATION MAP

Shore Acre Gas
 403 East 12th Street
 Oakland, California

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 270 Vintage Drive, Turlock, CA 95382
 Phone: (209) 664-1035

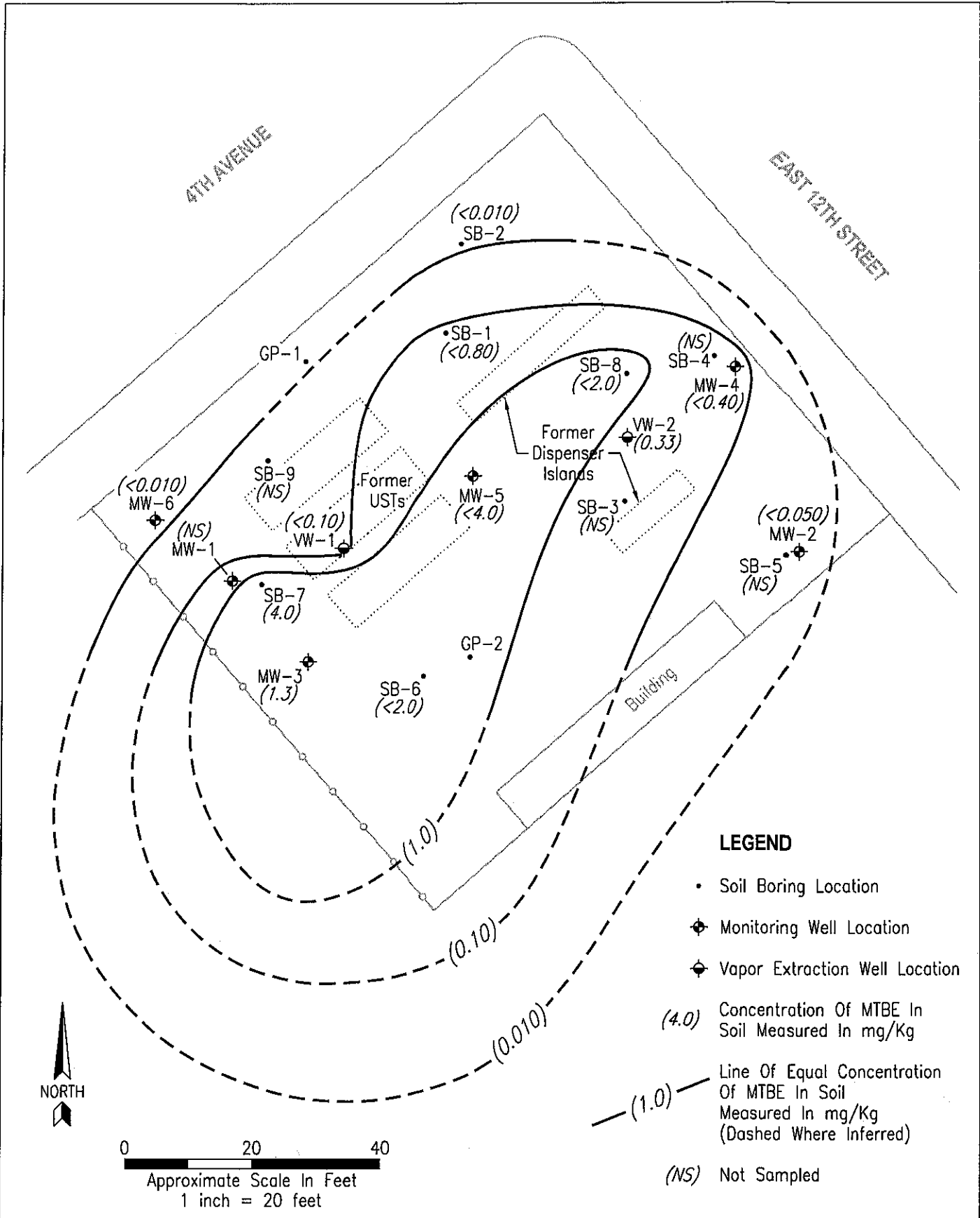


FIGURE 10
 Project Number:
 GHA.19009
 Date:
 August 16, 2011

MTBE IN SOIL AT 10 FEET bgs ISOCONCENTRATION MAP

Shore Acre Gas
 403 East 12th Street
 Oakland, California



Environmental Compliance Group, LLC
 270 Vintage Drive, Turlock, CA 95382
 Phone: (209) 664-1035

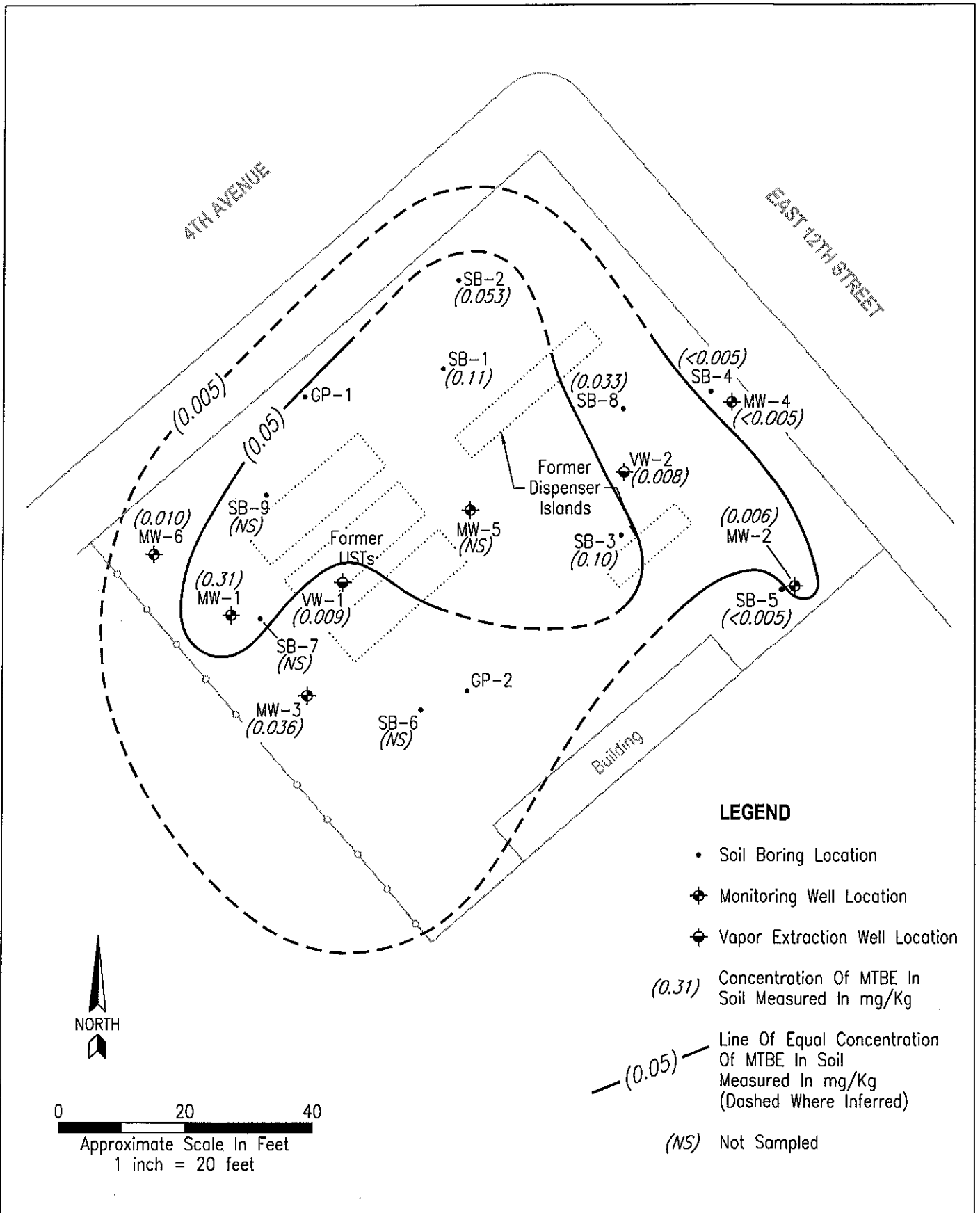

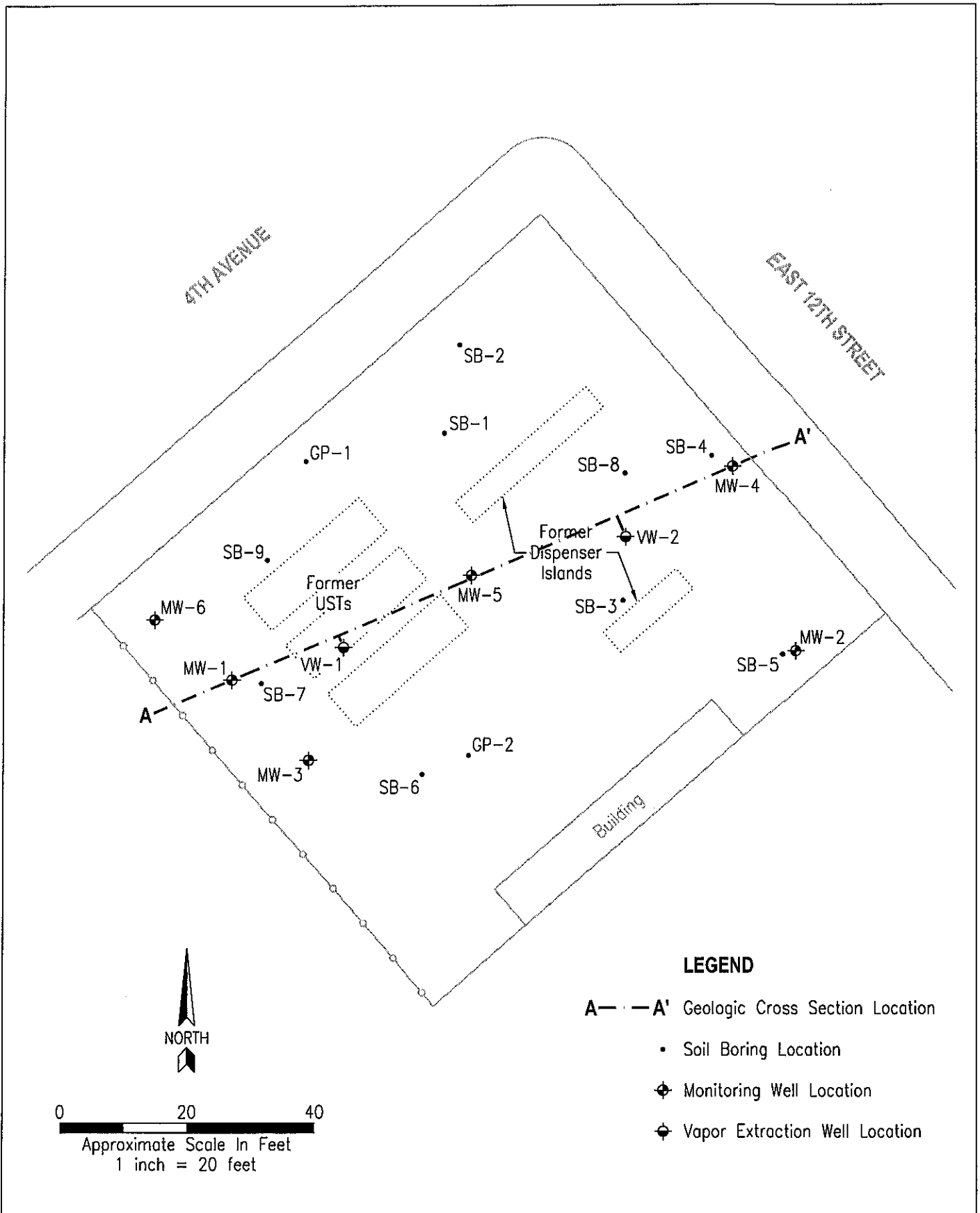


FIGURE 11	MTBE IN SOIL AT 20-25 FEET bgs ISOCONCENTRATION MAP	 Environmental Compliance Group, LLC 270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035
Project Number: GHA.19009	Shore Acre Gas 403 East 12th Street Oakland, California	
Date: August 16, 2011		



LEGEND

- A—A' Geologic Cross Section Location
- Soil Boring Location
- ⊕ Monitoring Well Location
- ⊕ Vapor Extraction Well Location

FIGURE 12

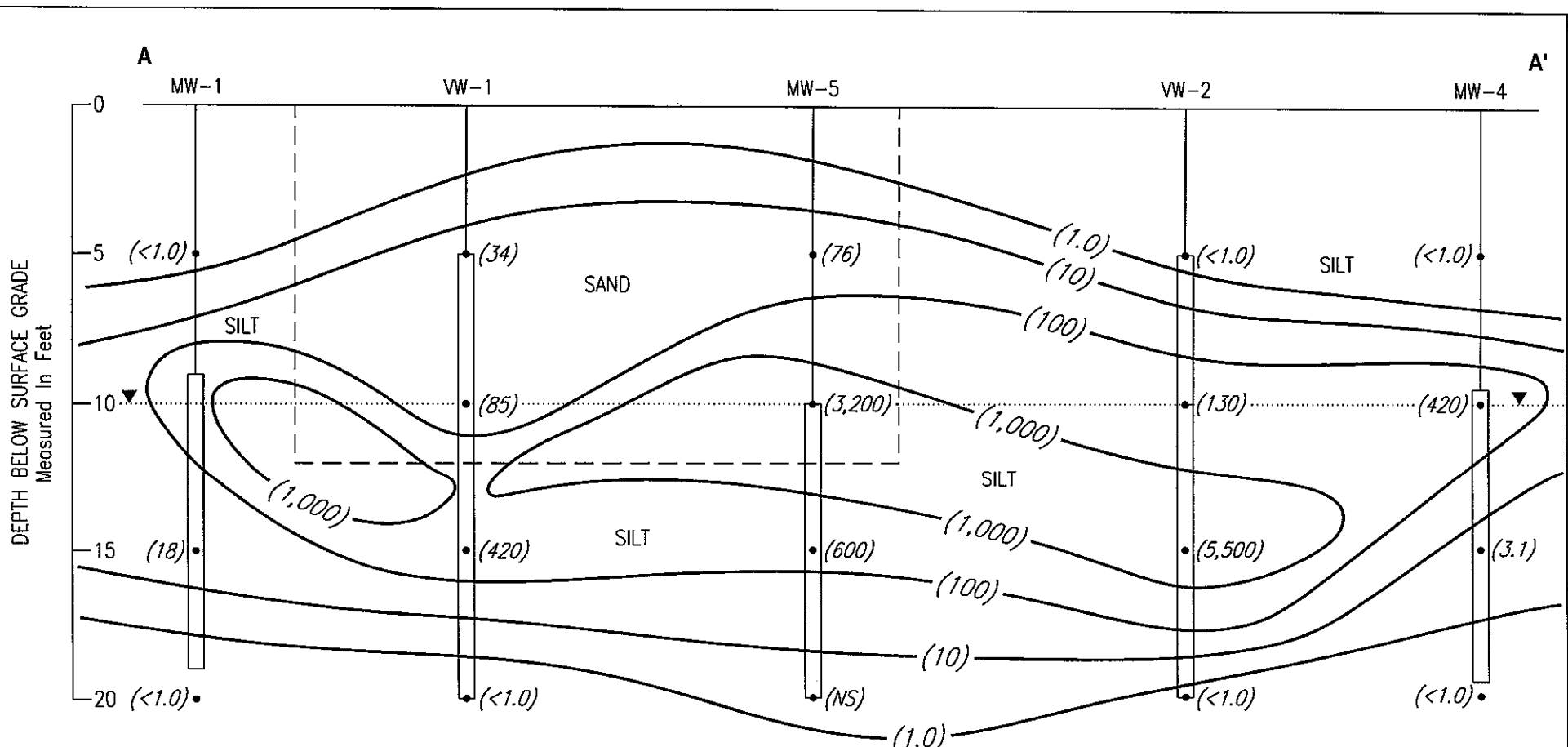
Project Number:
GHA.19009

Date:
August 16, 2011

CROSS SECTION LOCATION MAP

Shore Acre Gas
403 East 12th Street
Oakland, California

**Environmental
Compliance
Group, LLC**
270 Vintage Drive, Turlock, CA 95382
Phone: (209) 664-1035



LEGEND

- Soil Sample Location
- ▭ Screened Interval
- - - Approximate Lithologic Contact
- (NS) Not Sampled
- (5,500) Concentration Of TPHg In Soil Measured In mg/Kg
- ▼ Groundwater Level
- (1,000) - Line Of Equal Concentration Of TPHg In Soil Measured In mg/Kg (Dashed Where Inferred)

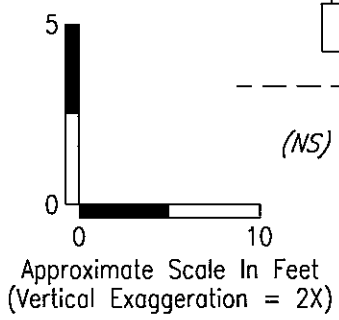
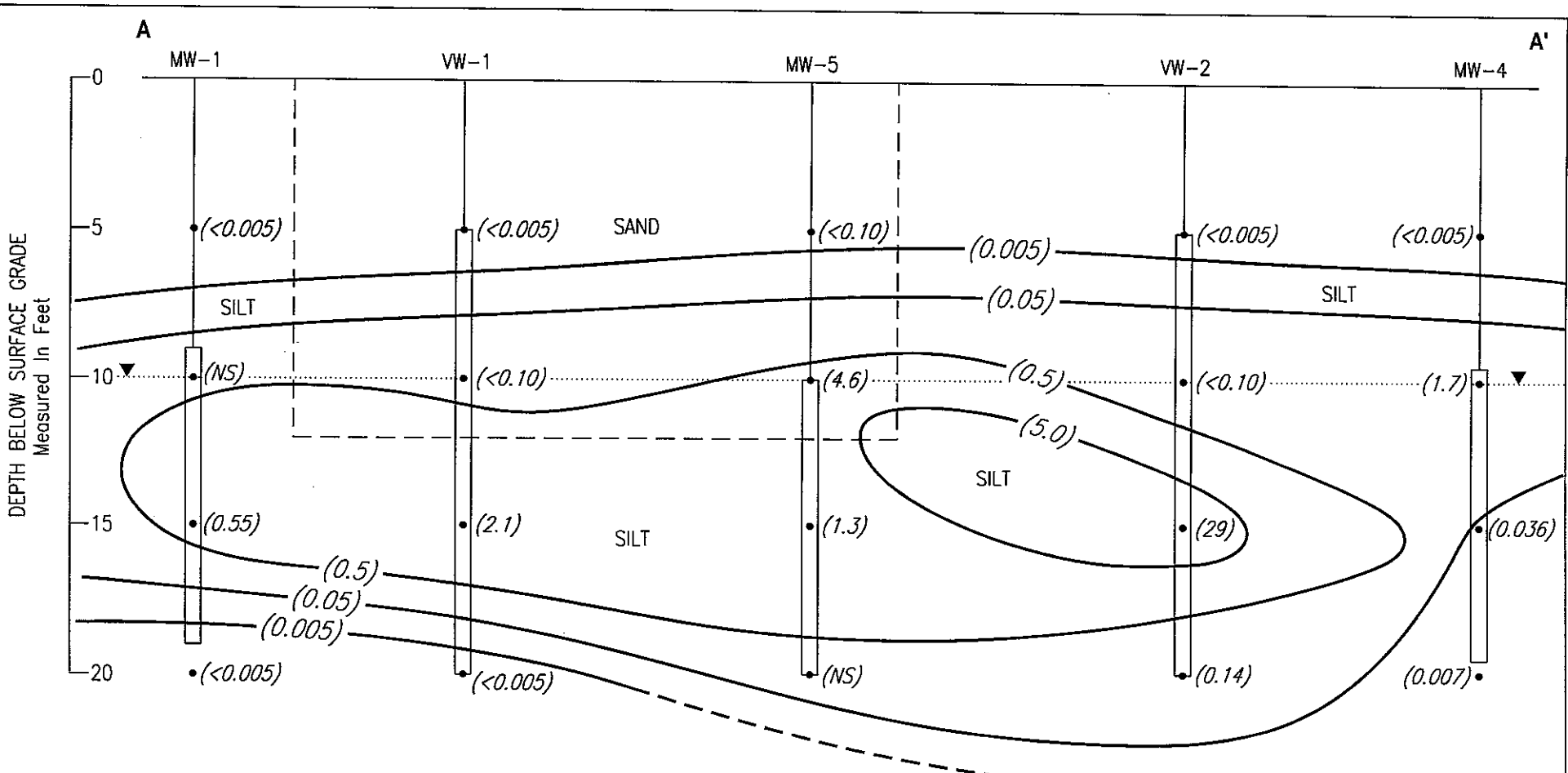


FIGURE 13
Project Number: GHA.19009
Date: August 16, 2011

TPHg IN SOIL ISOCONCENTRATION MAP CROSS SECTION A-A'
 Shore Acre Gas
 403 East 12th Street
 Oakland, California

Environmental Compliance Group, LLC
 270 Vintage Drive, Turlock, CA 95382
 Phone: (209) 664-1035



LEGEND

- Soil Sample Location
- Screened Interval
- - - Approximate Lithologic Contact
- (NS) Not Sampled
- (29) Concentration Of Benzene In Soil Measured In mg/Kg
- Groundwater Level
- (5.0) — Line Of Equal Concentration Of Benzene In Soil Measured In mg/Kg (Dashed Where Inferred)

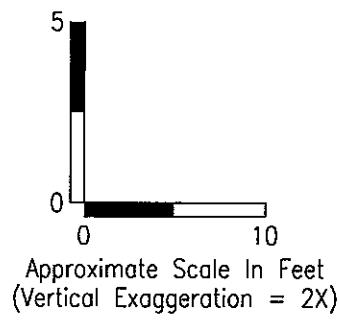


FIGURE 14
 Project Number:
 GHA.19009
 Date:
 August 16, 2011

**BENZENE IN SOIL ISOCONCENTRATION MAP
 CROSS SECTION A-A'**
 Shore Acre Gas
 403 East 12th Street
 Oakland, California

**Environmental
 Compliance
 Group, LLC**
 270 Vintage Drive, Turlock, CA 95382
 Phone: (209) 664-1035

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							
VW-1	June 2011	31.26	20	4	PVC	0.020/#3	5-20
VW-2		31.40	20	4	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)	Ethylbenzene (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	MTBE - denotes methyl tertiary butyl ether
< - denotes less than the detection limit	DIPE - denotes di-isopropyl ether
--- denotes not analyzed/applicable	ETBE - denotes ethyl tertiary butyl ether
DCA - denotes dichloroethane	TAME - denotes tertiary amyl ether
EDB - denotes ethylene dibromide	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 | DIPE - denotes di-isopropyl ether |
| < - denotes less than the detection limit | ETBE - denotes ethyl tertiary butyl ether |
| DCA - denotes dichloroethane | TAME - denotes tertiary amyl ether |
| EDB - denotes ethylene dibromide | TBA - denotes tertiary butyl alcohol |
| MTBE - denotes methyl tertiary butyl ether | |

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
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
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
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
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
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
DPE Wells									
VW-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
VW-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

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
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
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
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
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
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
DPE Wells								
VW-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
VW-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

Notes:

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

Table 5
Sensitive Receptor Survey Data
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

Figure ID	Well Owner	Well Location Description on DWR Log	Well Type	Total Depth (feet bgs.)	Screen Interval (feet bgs.)	Seal Interval (feet bgs.)	Installation Date	Distance/ Direction (feet)	Notes:
1	Port of Oakland	251 5th Avenue, Oakland	Monitoring	13.0	8-13	0-8	6/14/05	1000/SW	
2-3	Kaiser Paving Company	5th Avenue and S.P. Tracks, Oakland	Test Hole	15.0	None	Unknown	4/20/05	1,200/SW	

Notes:

DWR - denotes Department of Water Resources
 --- denotes no data available
 bgs - denotes below ground surface

Table 6
Dual Phase Extraction Pilot Test
Vapor Analytical Results
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

Sample ID	Date Measured	TPHg (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	MTBE (ppmv)
VW-1-INIT	6/24/2011	190	9.4	1.1	1.3	2.7	1.3
VW-1-DAY 2	6/25/2011	500	15	5.8	4.5	10	2.1
VW-1-END	6/26/2011	1,400	21	13	9.0	23	1.9
VW-2-INIT	6/26/2011	11,000	140	240	84	220	9.2
VW-2-DAY 2	6/27/2011	4,700	68	99	24	64	3.6
VW-2-END	6/28/2011	3,200	44	68	16	43	3.1

Notes:

- TPHg - denotes total petroleum hydrocarbons as gasoline
- MTBE - denotes methyl tertiary butyl ether
- ppmv - parts per million by volume
- < - denotes less than the detection limit

Table 7
Dual Phase Extraction Pilot Test
Vapor Extraction Summary
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

Well	Meter (hours)	Influent Flow Rate (scfm)	Influent Sample Results		Extraction Rates (lb/day)		Extraction Mass (lb/day)	
			TPHg (ppmv)	Benzene (ppmv)	TPHg (lb/day)	Benzene (lb/day)	TPHg (lb)	Benzene (lb)
VW-1-INIT	3	150	190	9.4	10.29	0.44	1.29	0.06
VW-1-DAY 2	15	150	500	15	27.08	0.00	13.54	0.00
VW-1-END	39	150	1,400	21	75.81	0.99	75.81	0.99
VW-2-INIT	3.0	50	11,000	140	198.55	2.19	24.82	0.27
VW-2-DAY 2	18.5	50	4,700	68	84.84	1.07	54.79	0.69
VW-2-END	42.5	50	3,200	44	57.76	0.69	57.76	0.69
Total							228.0	2.69

MW_{TPHg} = Molecular Weight of TPHg = 90

MW_{MTBE} = Molecular Weight of Methyl tert-butyl ether = 88.15

MW_{Benzene} = Molecular Weight of Benzene = 78.11

ft³ = cubic feet

min = minutes

lb/day = pounds per day

ppmv = parts per million by volume = ft³ / 1x10⁶ ft³

scfm = standard cubic feet per minute

NS = not sampled

NA = not analyzed

NC = not calculated

Extraction rate = (flow rate(ft³/min) x concentration (ft³ / 1x10⁶ ft³) x MW_{TPHg}(lb/lb-mol) x 1440 min/day)/(359 ft³/lb-mol*)

Table 8
Dual Phase Extraction Pilot Test
Groundwater Extraction Summary
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

Sample ID	Date	Water Extracted (gals.)	Influent Concentration		Extraction Mass	
			TPHg (ug/L)	Benzene (ug/L)	TPHg (lb/day) (lb)	Benzene (lb/day) (lb)
VW-1	6/28/2011	8,200	20,000	2,000	1.37	0.14
VW-2	6/28/2011	5,700	33,000	3,100	1.57	0.15
Totals					2.9	0.3

gals. - denotes gallons

ug/L - denotes micrograms per liter

lb- denotes pounds

< - denotes less than the detection limit

Water extracted values are total gallons of water extracted

Average of the March 11 and 18 concentrations were used to determine mass

APPENDICES



ENVIRONMENTAL HEALTH DEPARTMENT
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

June 17, 2011

Rashid Ghafoor and Waseem Iqbal (Sent via e-mail to rashidz1@aol.com)
226 Havenwood Circle
Pittsburg, CA 94567

Subject: Work Plan Conditional Approval for Fuel Leak Case No. RO0002931 and GeoTracker Global ID T0600174667, Shore Acres Gas, 403 E 12th St., Oakland, CA 94606

Dear Messrs. Ghafoor and Iqbal:

Alameda County Environmental Health (ACEH) staff has reviewed the recently submitted document entitled, *Workplan Addendum to the Site Assessment and Soil Vapor Extraction Pilot Test Workplan* dated April 14, 2011, and *Second Workplan Addendum* dated June 6, 2011 which were prepared by Environmental Compliance Group (ECG), LLC for the subject site. The second work plan recommends installation of four monitoring wells, two soil vapor wells and an off-site transect consisting of four borings. The proposed scope of work may be implemented provided that the modifications requested in the technical comments below are addressed and incorporated during the field implementation. Please perform the work and submit the reports requested below.

TECHNICAL COMMENTS

1. **Proposed Monitoring Well Network** – ACEH notes that fuel contamination is present at locations across the entire site and the proposed monitoring network should be installed to monitor all of these areas. Based on this, ACEH recommends two additional monitoring wells, one in the easternmost corner of the site, and a second approximately 20 feet southwest of proposed VW-2. Additionally, ACEH requests moving well MW-3 approximately 20 feet northwest of the proposed location for a total of six monitoring wells. After the wells are installed, surveyed and sampled, please present the interim results to ACEH by the due date requested below so the locations of the off-site soil borings discussed below can be determined.
2. **Off-Site Investigation** – In both the December 16, 2010 and March 22, 2011 ACEH directive letters, ACEH requested an off-site investigation that evaluates contamination that may be moving onto the school property downgradient of your site. As ECG points out, determining the groundwater flow direction by installing and surveying the new wells, would aid in off-site boring placement. ACEH agrees that this work would be better approached in this phased approach and consequently requests that you evaluate and plot the locations of the MTBE

detected on the school property on 4th Avenue on an expanded site map using an aerial photograph as a basemap, evaluate the groundwater flow direction after you install the on-site monitoring wells and propose off-site boring locations based on the results of your current investigation and the location of contamination at the school site. Please present this data and your recommended boring locations in the interim results report requested below.

3. **Cross Sections** – To help interested parties understand the subsurface in the site vicinity, please prepare cross-sections that show at a minimum: the lithology, soil analytical results, first encountered and static groundwater levels, the location of the former USTs, dispensers, areas excavated, known conduits, etc and submit the results in the SWI requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Barbara Jakub), according to the following schedule:

- **August 17, 2011** – Interim Results Report with Proposed Off-site Boring Locations
- **November 17, 2011** – SWI and Pilot Test Results Report

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please call me at (510) 639-1287 or send me an electronic mail message at barbara.jakub@acgov.org.

Sincerely,

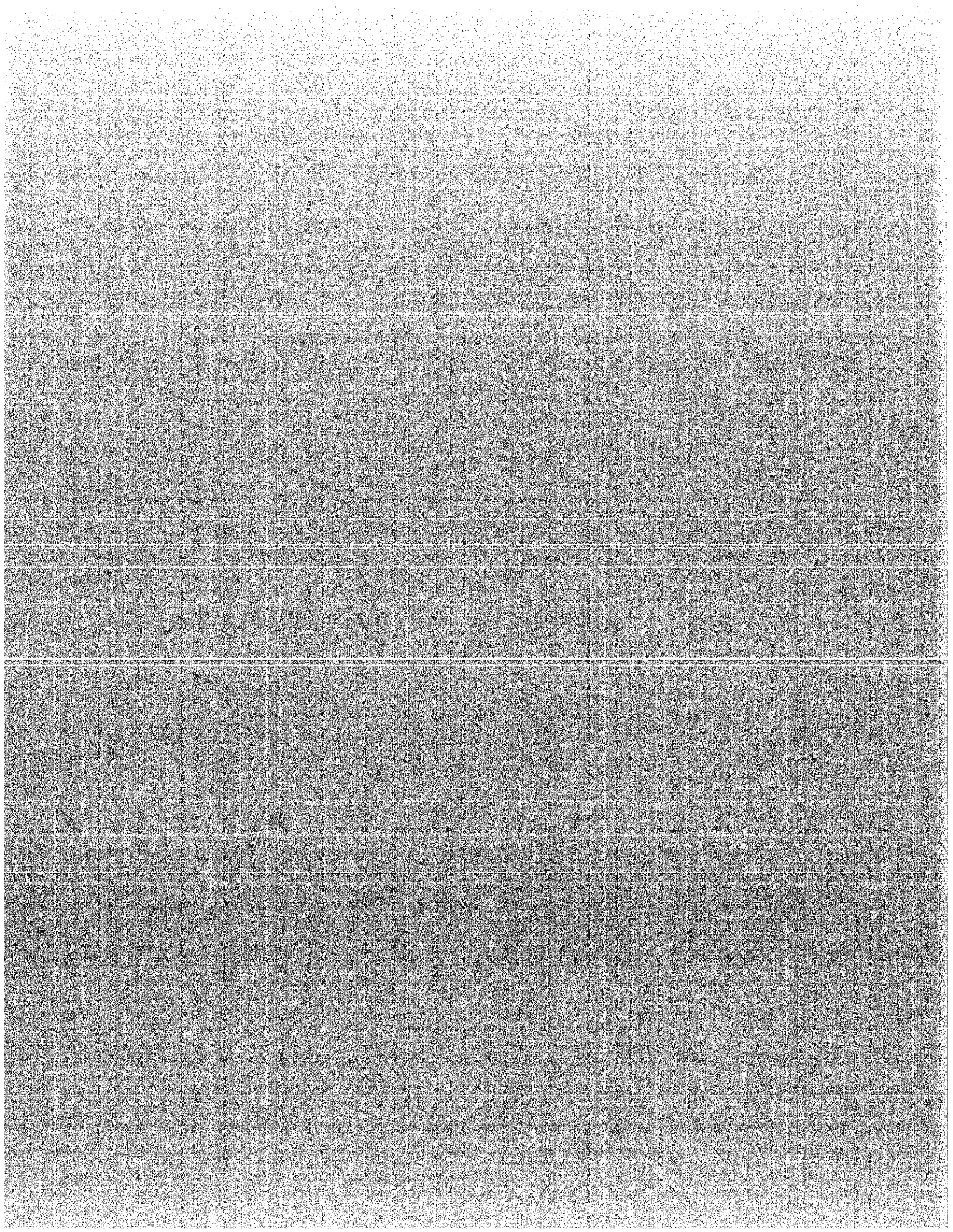


Digitally signed by Barbara J. Jakub
DN: cn=Barbara J. Jakub, o, ou,
email=barbara.jakub@acgov.org,
c=US
Date: 2011.06.17 15:22:51 -07'00'

Barbara J. Jakub, P.G.
Hazardous Materials Specialist

Enclosure: Responsible Party(ies) Legal Requirements/Obligations
ACEH Electronic Report Upload (ftp) Instructions

cc: Michael S. Sgourakis, Environmental Compliance Group, LLC, 270 Vintage Drive, Turlock, CA 95382 (*Sent via E-mail to: ecg.ust@gmail.com*)
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (*Sent via E-mail to: lgriffin@oaklandnet.com*)
Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Barbara Jakub, ACEH (*Sent via E-mail to: barbara.jakub@acgov.org*)
GeoTracker, e-file



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 rinsewater 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 rinsewater 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 rinsewater 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. 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.

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 TEDLAR BAG SOIL VAPOR SURVEY, TEMPORARY SAMPLING POINTS

Sampling equipment to collect Tedlar bag soil vapor survey samples includes an air pump, a Tedlar bag which can range in size from 1 to 10 liters, 3/16-inch diameter polyethylene tubing, and possibly a soil vapor probe. 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.

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**. 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.

13.0 TEDLAR BAG SOIL VAPOR SURVEY, TEMPORARY AND REPEATABLE SAMPLING POINTS

Sampling equipment to collect Tedlar bag soil vapor survey samples includes an air pump, a Tedlar bag which can range in size from 1 to 10 liters, 3/16-inch diameter polyethylene tubing, and possibly a soil vapor probe. 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.

13.1 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.

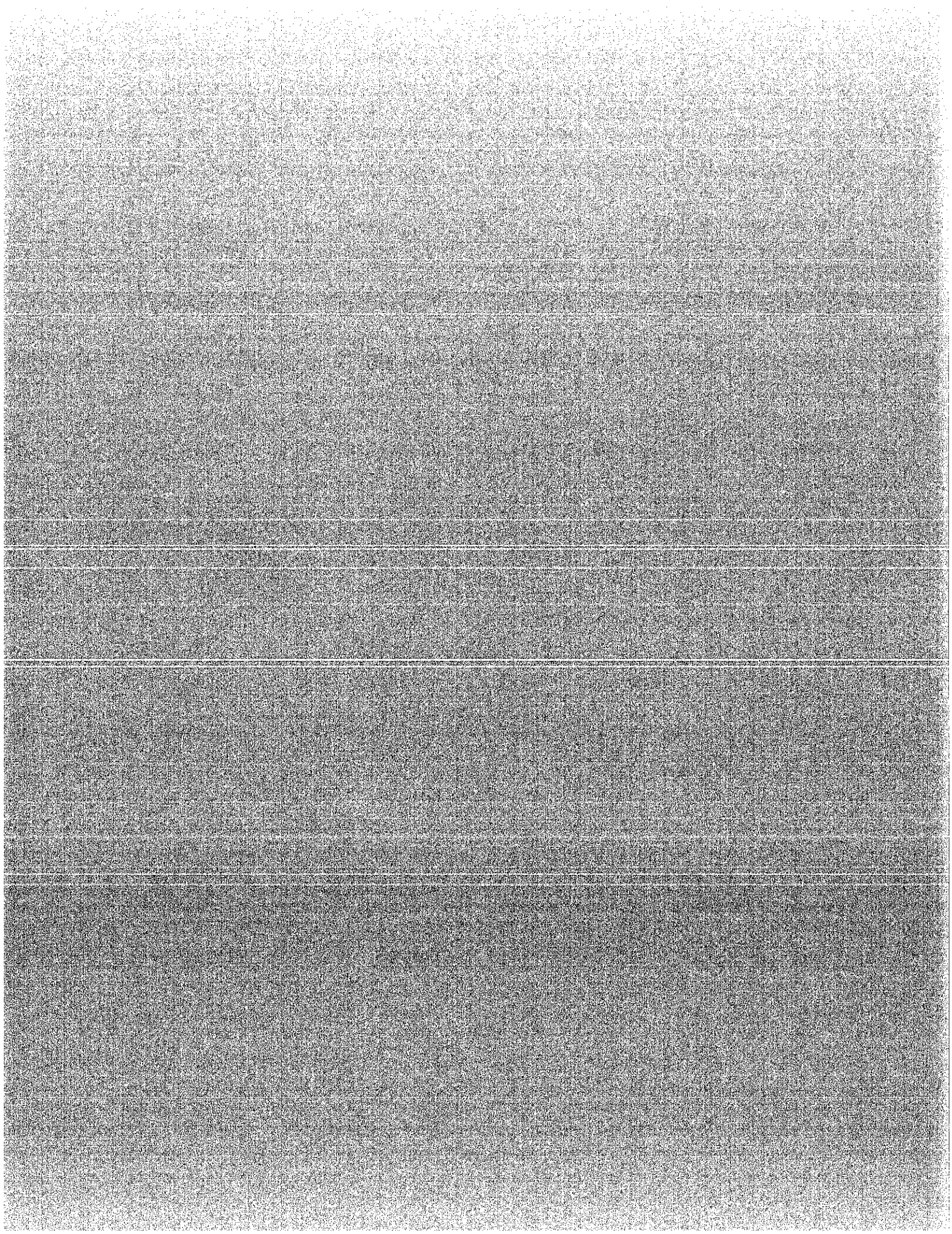
Once the bentonite seal has set, at least one hour, the soil vapor survey samples are collected into Tedlar bags as described in **Section 10.0**. Tedlar bags are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to 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.

13.2 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.



argon laboratories

22 December 2011

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

RE: Shore Acres Gas Project Data

Enclosed are the results for sample(s) received on 12/07/11 16:09 by Argon Laboratories. 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,



Hiram Cueto
Lab Manager

Argon Analytical Services, Inc.
CHAIN OF CUSTODY

Project Information:					Report To:					Samples Submitted To:													
Project No: GHA.19009 Project Title: Shore Acres Gas Location: 403 E. 12th Street Oakland, CA Sampler's Name: Mike Sgourakis Sampler's Signature:					Consultant: Environmental Compliance Group, LLC Address: 270 Vintage Drive Turlock, CA 95322 Contact: Drew Van Allen Phone: 209.664.1035 Fax: 209.664.1040 Bill To: Client: Environmental Compliance Group, LLC Address: 270 Vintage Drive Turlock, CA 95382					Laboratory: Argon Labs Address: 2905 Railroad Avenue Ceres, CA 95307 Contact: Phone: (209) 581-9260 Fax: (209) 581-9262 Date Results Required: Date Report Required:													
TURN AROUND TIME					ANALYSIS																		
RUSH <input type="checkbox"/>	24 Hour <input type="checkbox"/>	48 Hour <input type="checkbox"/>	Standard (5 days) <input type="checkbox"/>	Special (10-14 days) <input checked="" type="checkbox"/>	TPH by EPA Method 8260 <i>8260</i>	BTEX, 5 oxygenates, 1,2-DCA, and EDB by EPA Method 8260B																EDF Reports	COMMENTS
Sample ID.	Date	Time	# Containers	Matrix																		Preservative	
SB-10	12/5/2011	9:30	2	water	x	x																	
SB-11	12/5/2011	11:00	2	water	x	x																	
SB-12	12/5/2011	11:05	2	water	x	x																	
SB-13	12/5/2011	13:30	1	water	x	x																	
SB-14	12/5/2011	13:40	1	water	x	x																	
SB-15	12/5/2011	13:45	1	water	x	x																	
SB-16	12/5/2011	14:30	1	water	x	x																	
SB-17	12/5/2011	14:20	1	water	x	x																	
SB-18	12/5/2011	13:55	1	water	x	x																	
SB-19	12/5/2011	14:25	1	water	x	x																	
SB-21	12/5/2011	14:40	1	water	x	x																	
Relinquished By: <i>Mike Sgourakis</i>					Date: <i>12/7/11</i> Time: <i>16:09</i>		Received By: <i>Mario Aguirre</i>					Date: <i>12/7/11</i> Time: <i>16:09</i>		SPECIAL INSTRUCTIONS: Global ID# T0601359733									
Relinquished By:					Date: Time:		Received By:					Date: Time:											
Relinquished By:					Date: Time:		Received By:					Date: Time:											

Argon Laboratories Sample Receipt Checklist

Client Name: Environmental Compliance Group Date & Time Received: 12/07/11 16:09

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

Received By: M.G. Matrix: Water Soil Sludge

Sample Carrier: Client Laboratory Fed Ex UPS Other

Argon Labs Project Number: L112020

Shipper Container in good condition? N/A Yes No Samples received in proper containers? Yes No

Samples received intact? Yes No

Samples received under refrigeration? Yes No Sufficient sample volume for requested tests? Yes No

Chain of custody present? Yes No Samples received within holding time? Yes No

Chain of Custody signed by all parties? Yes No Do samples contain proper preservative?
N/A Yes No

Chain of Custody matches all sample labels? 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:

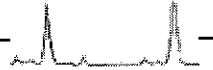
ADDITIONAL TEST(S) REQUEST / OTHER

Contacted By: _____ Date: _____ Time: _____

Call Received By: _____

Comments:





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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

Work Order No.:
L112020

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-10	L112020-01	Water	12/05/11 09:30	12/07/11 16:09
SB-11	L112020-02	Water	12/05/11 11:00	12/07/11 16:09
SB-12	L112020-03	Water	12/05/11 11:05	12/07/11 16:09
SB-13	L112020-04	Water	12/05/11 13:30	12/07/11 16:09
SB-14	L112020-05	Water	12/05/11 13:40	12/07/11 16:09
SB-15	L112020-06	Water	12/05/11 13:45	12/07/11 16:09
SB-16	L112020-07	Water	12/05/11 14:30	12/07/11 16:09
SB-17	L112020-08	Water	12/05/11 14:20	12/07/11 16:09
SB-18	L112020-09	Water	12/05/11 13:55	12/07/11 16:09
SB-19	L112020-10	Water	12/05/11 14:25	12/07/11 16:09
SB-21	L112020-11	Water	12/05/11 14:40	12/07/11 16:09

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis	Work Order No.: L112020
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TPH-gas & Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
SB-10 (L112020-01) Water Sampled: 05-Dec-11 09:30 Received: 07-Dec-11 16:09							
Total Petroleum Hydrocarbons @	ND	50	ug/L	1	14-Dec-11	EPA 8260B	
Gasoline							
Benzene	ND	0.5	"	"	"	"	
Toluene	ND	0.5	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	
Ethyl Benzene	ND	0.5	"	"	"	"	
t-Butanol	ND	5.0	"	"	"	"	
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.:		103 %					
SB-11 (L112020-02) Water Sampled: 05-Dec-11 11:00 Received: 07-Dec-11 16:09							
Total Petroleum Hydrocarbons @	2300	100	ug/L	2	14-Dec-11	EPA 8260B	
Gasoline							
Benzene	83	1.0	"	"	"	"	
Toluene	1.9	1.0	"	"	"	"	
Xylenes, total	43	2.0	"	"	"	"	
Ethyl Benzene	140	1.0	"	"	"	"	
t-Butanol	140	10	"	"	"	"	
Methyl tert-Butyl Ether	22	1.0	"	"	"	"	
Di-Isopropyl Ether	ND	1.0	"	"	"	"	
Ethyl tert-Butyl Ether	ND	1.0	"	"	"	"	
tert-Amyl Methyl Ether	ND	1.0	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	
Surr. Rec.:		95 %					

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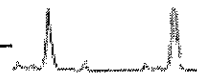


Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis	Work Order No.: L112020
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TPH-gas & Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
SB-12 (L112020-03) Water Sampled: 05-Dec-11 11:05 Received: 07-Dec-11 16:09							
Total Petroleum Hydrocarbons @	4700	500	ug/L	10	14-Dec-11	EPA 8260B	
Gasoline							
Benzene	620	5.0	"	"	"	"	
Toluene	290	5.0	"	"	"	"	
Xylenes, total	400	10	"	"	"	"	
Ethyl Benzene	84	5.0	"	"	"	"	
t-Butanol	550	50	"	"	"	"	
Methyl tert-Butyl Ether	100	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.:		98 %		*	"	"	
SB-13 (L112020-04) Water Sampled: 05-Dec-11 13:30 Received: 07-Dec-11 16:09							
Total Petroleum Hydrocarbons @	400	200	ug/L	4	14-Dec-11	EPA 8260B	
Gasoline							
Benzene	51	2.0	"	"	"	"	
Toluene	2.4	2.0	"	"	"	"	
Xylenes, total	9.7	4.0	"	"	"	"	
Ethyl Benzene	4.2	2.0	"	"	"	"	
t-Butanol	3900	20	"	"	"	"	
Methyl tert-Butyl Ether	39	2.0	"	"	"	"	
Di-Isopropyl Ether	ND	2.0	"	"	"	"	
Ethyl tert-Butyl Ether	ND	2.0	"	"	"	"	
tert-Amyl Methyl Ether	ND	2.0	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	
Surr. Rec.:		104 %			"	"	

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Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis	Work Order No.: L112020
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TPH-gas & Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
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SB-14 (L112020-05) Water Sampled: 05-Dec-11 13:40 Received: 07-Dec-11 16:09

Total Petroleum Hydrocarbons @	ND	50	ug/L	1	14-Dec-11	EPA 8260B	
Gasoline							
Benzene	1.7	0.5	"	"	"	"	
Toluene	ND	0.5	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	
Ethyl Benzene	2.1	0.5	"	"	"	"	
t-Butanol	ND	5.0	"	"	"	"	
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.: 107 %

SB-15 (L112020-06) Water Sampled: 05-Dec-11 13:45 Received: 07-Dec-11 16:09

Total Petroleum Hydrocarbons @	320	50	ug/L	1	14-Dec-11	EPA 8260B	
Gasoline							
Benzene	32	0.5	"	"	"	"	
Toluene	0.7	0.5	"	"	"	"	
Xylenes, total	25	1.0	"	"	"	"	
Ethyl Benzene	33	0.5	"	"	"	"	
t-Butanol	ND	5.0	"	"	"	"	
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.: 105 %

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Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis	Work Order No.: L112020
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TPH-gas & Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
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SB-16 (L112020-07) Water Sampled: 05-Dec-11 14:30 Received: 07-Dec-11 16:09

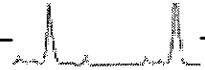
Total Petroleum Hydrocarbons @	4800	1000	ug/L	20	19-Dec-11	EPA 8260B	
Gasoline							
Benzene	1600	10	"	"	"	"	
Toluene	10	10	"	"	"	"	
Xylenes, total	ND	20	"	"	"	"	
Ethyl Benzene	49	10	"	"	"	"	
t-Butanol	ND	100	"	"	"	"	
Methyl tert-Butyl Ether	ND	10	"	"	"	"	
Di-Isopropyl Ether	ND	10	"	"	"	"	
Ethyl tert-Butyl Ether	ND	10	"	"	"	"	
tert-Amyl Methyl Ether	ND	10	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	
Surr. Rec.:		96 %			"	"	

SB-17 (L112020-08) Water Sampled: 05-Dec-11 14:20 Received: 07-Dec-11 16:09

Total Petroleum Hydrocarbons @	990	200	ug/L	4	19-Dec-11	EPA 8260B	
Gasoline							
Benzene	290	2.0	"	"	"	"	
Toluene	7.2	2.0	"	"	"	"	
Xylenes, total	4.3	4.0	"	"	"	"	
Ethyl Benzene	27	2.0	"	"	"	"	
t-Butanol	ND	20	"	"	"	"	
Methyl tert-Butyl Ether	ND	2.0	"	"	"	"	
Di-Isopropyl Ether	ND	2.0	"	"	"	"	
Ethyl tert-Butyl Ether	ND	2.0	"	"	"	"	
tert-Amyl Methyl Ether	ND	2.0	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	
Surr. Rec.:		111 %			"	"	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis	Work Order No.: L112020
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TPH-gas & Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
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SB-18 (L112020-09) Water Sampled: 05-Dec-11 13:55 Received: 07-Dec-11 16:09

Total Petroleum Hydrocarbons @	560	50	ug/L	1	19-Dec-11	EPA 8260B	
Gasoline							
Benzene	8.7	0.5	"	"	"	"	
Toluene	4.9	0.5	"	"	"	"	
Xylenes, total	83	1.0	"	"	"	"	
Ethyl Benzene	23	0.5	"	"	"	"	
t-Butanol	ND	5.0	"	"	"	"	
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.: 100%

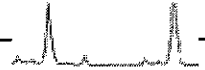
SB-19 (L112020-10) Water Sampled: 05-Dec-11 14:25 Received: 07-Dec-11 16:09

Total Petroleum Hydrocarbons @	260	50	ug/L	1	19-Dec-11	EPA 8260B	
Gasoline							
Benzene	7.1	0.5	"	"	"	"	
Toluene	ND	0.5	"	"	"	"	
Xylenes, total	7.0	1.0	"	"	"	"	
Ethyl Benzene	16	0.5	"	"	"	"	
t-Butanol	ND	5.0	"	"	"	"	
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.: 99%

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



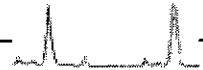
Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis	Work Order No.: L112020
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TPH-gas & Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
SB-21 (L112020-11) Water Sampled: 05-Dec-11 14:40 Received: 07-Dec-11 16:09							
Total Petroleum Hydrocarbons @	ND	50	ug/L	1	19-Dec-11	EPA 8260B	
Gasoline							
Benzene	ND	0.5	"	"	"	"	
Toluene	ND	0.5	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	
Ethyl Benzene	ND	0.5	"	"	"	"	
t-Butanol	ND	5.0	"	"	"	"	
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.:		99 %			"	"	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis	Work Order No.: L112020
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TPH-gas & Volatile Organic Compounds by GC/MS - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L102134 - EPA 5030B

Blank (L102134-BLK1)

Prepared & Analyzed: 12/14/11

<i>Surrogate: Fluorobenzene</i>	50.0		ug/L	50		100	70-130			
Total Petroleum Hydrocarbons @ Gasoline	ND	50	"							
Benzene	ND	0.5	"							
Toluene	ND	0.5	"							
Xylenes, total	ND	1.0	"							
Ethyl Benzene	ND	0.5	"							
t-Butanol	ND	5.0	"							
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 (L102134-BS1)

Prepared & Analyzed: 12/14/11

1,2-Dibromoethane (EDB)	25.7		ug/L	25		103	80-120			
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LCS Dup (L102134-BSD1)

Prepared & Analyzed: 12/14/11

1,2-Dibromoethane (EDB)	25.0		ug/L	25		100	80-120	3	20	
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Matrix Spike (L102134-MS1)

Source: L112020-01

Prepared & Analyzed: 12/14/11

Toluene	26.3		ug/L	25	ND	105	70-130			
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Matrix Spike Dup (L102134-MSD1)

Source: L112020-01

Prepared & Analyzed: 12/14/11

Toluene	26.2		ug/L	25	ND	105	70-130	0.4	20	
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Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis	Work Order No.: L112020
---	---	----------------------------

TPH-gas & Volatile Organic Compounds by GC/MS - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L102135 - EPA 5030B

Blank (L102135-BLK1)		Prepared & Analyzed: 12/19/11								
<i>Surrogate: Fluorobenzene</i>	48.0		ug/L	50		96	70-130			
Total Petroleum Hydrocarbons @ Gasoline	ND	50	"							
Benzene	ND	0.5	"							
Toluene	ND	0.5	"							
Xylenes, total	ND	1.0	"							
Ethyl Benzene	ND	0.5	"							
t-Butanol	ND	5.0	"							
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 (L102135-BS1)		Prepared & Analyzed: 12/19/11								
Methyl tert-Butyl Ether	24.2		ug/L	25		97	80-120			

LCS Dup (L102135-BSD1)		Prepared & Analyzed: 12/19/11								
Methyl tert-Butyl Ether	25.6		ug/L	25		102	80-120	6	20	

Matrix Spike (L102135-MS1)		Source: L112020-11		Prepared & Analyzed: 12/19/11						
Benzene	26.1		ug/L	25	ND	104	70-130			

Matrix Spike Dup (L102135-MSD1)		Source: L112020-11		Prepared & Analyzed: 12/19/11						
Benzene	24.4		ug/L	25	ND	98	70-130	7	20	

Approved By
Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis	Work Order No.: L112020
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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
Argon Laboratories, Inc. California D.O.H.S. Cert. #2359

argon laboratories

12 July 2011

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

RE: Shore Acres Gas Project Data

Enclosed are the results for sample(s) received on 06/28/11 17:00 by Argon Laboratories. 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.

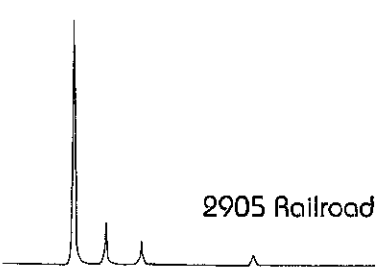
The sample(s) will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

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

Sincerely,



Hiram Cueto
Lab Manager



2905 Railroad Avenue, Ceres, CA 95307 • Phone (209) 581-9280 • Fax (209) 581-9282
email: main@argonlabs.com

Argon Analytical Services, Inc.

2905 Railroad Ave Ceres, CA 95307

(209)581-9280 Fax (209)581-9282 info@argonlabs.com

CHAIN OF CUSTODY

1422

Project No: GHA-19009 Project Title: 403 E. 1212 St. Location: Oakland, CA					Consultant: ECG Address: ECG Contact: ECG Phone: ECG Fax: ECG					<input checked="" type="checkbox"/> EDF Required								
Sampler's Name: Don Van Alk (print) Sampler's Signature: <i>Don Van Alk</i>					Bill To: ECG Client Address: ECG													
TURN AROUND TIME					ANALYSIS													
RUSH	24 Hour	48 Hour	5-day Rush	Standard (10 days)	TPOB, 9/15/11 S 0005, 1, 2, 3, 4 EPA 817 8/26/11													
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>														
Sample ID.	Date	Time	# Containers	Matrix	COMMENTS													
W-1	6/28/11	1405	3	water	<input checked="" type="checkbox"/>													
W-2	↓	1410	↓	↓														
Relinquished By: <i>Don Van Alk</i>					Date: 6/28/11	Time: 1700	Received By: <i>Don Ceuta</i>					Date: 06/28/11	Time: 17:00	SPECIAL INSTRUCTIONS:				
Relinquished By:					Date:	Time:	Received By:					Date:	Time:					
Relinquished By:					Date:	Time:	Received By:					Date:	Time:					

Argon Laboratories Sample Receipt Checklist

Client Name: Environmental Compliance Group Date & Time Received: 06/28/11 17:00

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

Received By: I.C. Matrix: Water Soil Sludge

Sample Carrier: Client Laboratory Fed Ex UPS Other

Argon Labs Project Number: L106079

Shipper Container in good condition? N/A Yes No Samples received in proper containers? Yes No

Samples received intact? Yes No

Samples received under refrigeration? Yes No Sufficient sample volume for requested tests? Yes No

Chain of custody present? Yes No Samples received within holding time? Yes No

Chain of Custody signed by all parties? Yes No Do samples contain proper preservative?

N/A Yes No

Chain of Custody matches all sample labels? Do VOA vials contain zero headspace?

Yes No (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:

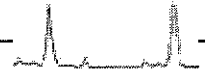
ADDITIONAL TEST(S) REQUEST / OTHER

Contacted By: _____ Date: _____ Time: _____

Call Received By: _____

Comments:





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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

Work Order No.:
L106079

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VW-1	L106079-01	Water	06/28/11 14:05	06/28/11 17:00
VW-2	L106079-02	Water	06/28/11 14:10	06/28/11 17:00

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

Work Order No.:
L106079

TPH-gas & Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	----------	--------	-------

VW-1 (L106079-01) Water Sampled: 28-Jun-11 14:05 Received: 28-Jun-11 17:00

Total Petroleum Hydrocarbons @	20000	2500	ug/L	50	09-Jul-11	EPA 8260B	
Gasoline							
Benzene	2000	25	"	"	"	"	
Toluene	490	25	"	"	"	"	
Xylenes, total	2400	50	"	"	"	"	
Ethyl Benzene	1000	25	"	"	"	"	
t-Butanol	5300	250	"	"	"	"	
Methyl tert-Butyl Ether	1500	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.: 84 %

VW-2 (L106079-02) Water Sampled: 28-Jun-11 14:10 Received: 28-Jun-11 17:00

Total Petroleum Hydrocarbons @	33000	2500	ug/L	50	09-Jul-11	EPA 8260B	
Gasoline							
Benzene	3100	25	"	"	"	"	
Toluene	2000	25	"	"	"	"	
Xylenes, total	3500	50	"	"	"	"	
Ethyl Benzene	790	25	"	"	"	"	
t-Butanol	4100	250	"	"	"	"	
Methyl tert-Butyl Ether	670	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.: 99 %

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

Work Order No.:
L106079

TPH-gas & Volatile Organic Compounds by GC/MS - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Batch L101150 - EPA 5030B

Blank (L101150-BLK1)

Prepared & Analyzed: 07/09/11

Surrogate: Fluorobenzene	44.5		ug/L	50		89	70-130			
Total Petroleum Hydrocarbons @ Gasoline	ND	50	"							
Benzene	ND	0.5	"							
Toluene	ND	0.5	"							
Xylenes, total	ND	1.0	"							
Ethyl Benzene	ND	0.5	"							
t-Butanol	ND	5.0	"							
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 (L101150-BS1)

Prepared & Analyzed: 07/09/11

Methyl tert-Butyl Ether	23.3		ug/L	25		93	80-120			
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LCS Dup (L101150-BSD1)

Prepared & Analyzed: 07/09/11

Methyl tert-Butyl Ether	23.5		ug/L	25		94	80-120	0.9	20	
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Matrix Spike (L101150-MS1)

Source: L106076-01

Prepared & Analyzed: 07/09/11

Total Petroleum Hydrocarbons @ Gasoline	890		ug/L	1000	ND	89	70-130			
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Matrix Spike Dup (L101150-MSD1)

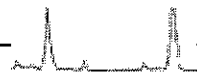
Source: L106076-01

Prepared & Analyzed: 07/09/11

Total Petroleum Hydrocarbons @ Gasoline	902		ug/L	1000	ND	90	70-130	1	20	
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Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgurakis

Work Order No.:
L106079

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

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359

argon laboratories

22 December 2011

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

RE: Shore Acres Gas Project Data

Enclosed are the results for sample(s) received on 12/13/11 16:10 by Argon Laboratories. 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.

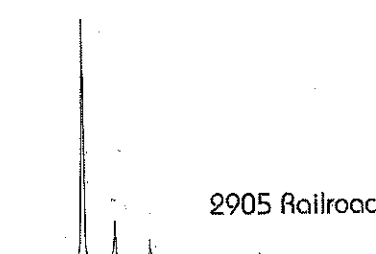
The sample(s) will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

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

Sincerely,



Hiram Cueto
Lab Manager



2905 Railroad Avenue, Ceres, CA 95307 • Phone (209) 581-9280 • Fax (209) 581-9282
email: main@argonlabs.com

Argon Analytical Services, Inc.
CHAIN OF CUSTODY

Project Information:				Report To:				Samples Submitted To:									
Project No: GHA 19009 Project Title: Shore Acres Gas Location: 403 East 12th Street Oakland, CA				Consultant: Environmental Compliance Group, LLC Address: 270 Vintage Drive Turlock, CA 95382 Contact: Mike Sgourakis Phone: 916.600.4580 Fax: 209.664.1040				Laboratory: Argon Labs Address: 2905 Railroad Avenue Ceres, CA 95307 Contact: (209) 581-8280 Phone: (209) 581-8282 Fax: (209) 581-8282									
Sampler's Name: (print) Sampler's Signature:				Bill To: Client: Environmental Compliance Group, LLC Address: 270 Vintage Drive Turlock, CA				Date Results Required: Date Report Required:									
TURN AROUND TIME					ANALYSIS												
RUSH		24 Hour		48 Hour		Standard (5 days)		Special (10-14 days)		TPHg regulated by EPA Method 8015M		BTEX, 5 oxygenates, 1,2-DCA, EDB by EPA Method 8260B		EDF Reports		COMMENTS	
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>									
Sample ID	Date	Time	# Containers	Matrix												Preservative	
MW-1	12/16/11	1045	3	water	X	X											
MW-2		0953															
MW-3		1030															
MW-4		0930															
MW-5		0910															
MW-6		1014															
VW-1		1047															
VW-2		0925															
Relinquished By: <i>Daniel Kim</i>			Date: 12/16/11	Time: 1610	Received By: <i>Sherry Hoffman</i>			Date: 12/16/11	Time: 1610	SPECIAL INSTRUCTIONS: Global ID# T0660174667							
Relinquished By:			Date:	Time:	Received By:			Date:	Time:								
Relinquished By:			Date:	Time:	Received By:			Date:	Time:								

Argon Laboratories Sample Receipt Checklist

Client Name: Environmental Compliance Group Date & Time Received: 12/13/11 16:10

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

Received By: S.H. Matrix: Water Soil Sludge

Sample Carrier: Client Laboratory Fed Ex UPS Other

Argon Labs Project Number: L112042

Shipper Container in good condition? Samples received in proper containers? Yes No

N/A Yes No Samples received intact? Yes No

Samples received under refrigeration? Yes No Sufficient sample volume for requested tests? Yes No

Chain of custody present? Yes No Samples received within holding time? Yes No

Chain of Custody signed by all parties? Yes No Do samples contain proper preservative?
N/A Yes No

Chain of Custody matches all sample labels? Do VOA vials contain zero headspace?
Yes No (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:

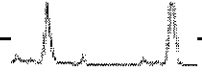
ADDITIONAL TEST(S) REQUEST / OTHER

Contacted By: _____ Date: _____ Time: _____

Call Received By: _____

Comments:





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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

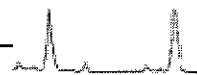
Work Order No.:
L112042

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	L112042-01	Water	12/11/11 10:40	12/13/11 16:10
MW-2	L112042-02	Water	12/11/11 09:53	12/13/11 16:10
MW-3	L112042-03	Water	12/11/11 10:36	12/13/11 16:10
MW-4	L112042-04	Water	12/11/11 09:30	12/13/11 16:10
MW-5	L112042-05	Water	12/11/11 09:10	12/13/11 16:10
MW-6	L112042-06	Water	12/11/11 10:14	12/13/11 16:10
VW-1	L112042-07	Water	12/11/11 10:17	12/13/11 16:10
VW-2	L112042-08	Water	12/11/11 09:25	12/13/11 16:10

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

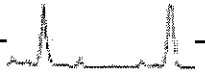
Work Order No.:
L112042

Total Petroleum Hydrocarbons @ Gasoline

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-1 (L112042-01) Water Sampled: 11-Dec-11 10:40 Received: 13-Dec-11 16:10							
Total Petroleum Hydrocarbons @ Gasoline	23000	620	ug/L	12.5	19-Dec-11	8015M	
Surr. Rec.:		120 %			"	"	
MW-2 (L112042-02) Water Sampled: 11-Dec-11 09:53 Received: 13-Dec-11 16:10							
Total Petroleum Hydrocarbons @ Gasoline	8300	250	ug/L	5	19-Dec-11	8015M	
Surr. Rec.:		110 %			"	"	
MW-3 (L112042-03) Water Sampled: 11-Dec-11 10:36 Received: 13-Dec-11 16:10							
Total Petroleum Hydrocarbons @ Gasoline	64000	2000	ug/L	40	19-Dec-11	8015M	
Surr. Rec.:		109 %			"	"	
MW-4 (L112042-04) Water Sampled: 11-Dec-11 09:30 Received: 13-Dec-11 16:10							
Total Petroleum Hydrocarbons @ Gasoline	46000	2000	ug/L	40	19-Dec-11	8015M	
Surr. Rec.:		120 %			"	"	
MW-5 (L112042-05) Water Sampled: 11-Dec-11 09:10 Received: 13-Dec-11 16:10							
Total Petroleum Hydrocarbons @ Gasoline	110000	5000	ug/L	100	19-Dec-11	8015M	
Surr. Rec.:		109 %			"	"	
MW-6 (L112042-06) Water Sampled: 11-Dec-11 10:14 Received: 13-Dec-11 16:10							
Total Petroleum Hydrocarbons @ Gasoline	13000	500	ug/L	10	19-Dec-11	8015M	
Surr. Rec.:		110 %			"	"	
VW-1 (L112042-07) Water Sampled: 11-Dec-11 10:17 Received: 13-Dec-11 16:10							
Total Petroleum Hydrocarbons @ Gasoline	27000	1200	ug/L	25	19-Dec-11	8015M	
Surr. Rec.:		115 %			"	"	

Approved By

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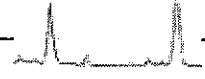
Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis	Work Order No.: L112042
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Total Petroleum Hydrocarbons @ Gasoline

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
VW-2 (L112042-08) Water Sampled: 11-Dec-11 09:25 Received: 13-Dec-11 16:10							
Total Petroleum Hydrocarbons @ Gasoline	70000	2500	ug/L	50	19-Dec-11	8015M	
Surr. Rec.:		113 %			"	"	

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

Project Number: GHA.19009
 Project Name: Shore Acres Gas
 Project Manager: Mike Sgourakis

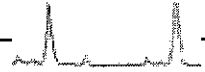
Work Order No.:
 L112042

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-1 (L112042-01) Water Sampled: 11-Dec-11 10:40 Received: 13-Dec-11 16:10							
Benzene	2900	20	ug/L	40	21-Dec-11	8260B	
Toluene	1000	20	"	"	"	"	
Xylenes, total	3000	40	"	"	"	"	
Ethylbenzene	720	20	"	"	"	"	
t-Butanol	1600	200	"	"	"	"	
Methyl tert-Butyl Ether	1800	20	"	"	"	"	
Di-Isopropyl Ether	ND	20	"	"	"	"	
Ethyl tert-Butyl Ether	ND	20	"	"	"	"	
tert-Amyl Methyl Ether	ND	20	"	"	"	"	
1,2-Dichloroethane	ND	20	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	20	"	"	"	"	
Surr. Rec.:		110 %			"	"	
MW-2 (L112042-02) Water Sampled: 11-Dec-11 09:53 Received: 13-Dec-11 16:10							
Benzene	170	2.5	ug/L	5	21-Dec-11	8260B	
Toluene	120	2.5	"	"	"	"	
Xylenes, total	1500	5.0	"	"	"	"	
Ethylbenzene	450	2.5	"	"	"	"	
t-Butanol	110	25	"	"	"	"	
Methyl tert-Butyl Ether	45	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.:		102 %			"	"	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

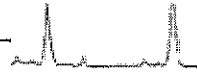
Work Order No.:
L112042

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-3 (L112042-03) Water Sampled: 11-Dec-11 10:36 Received: 13-Dec-11 16:10							
Benzene	12000	100	ug/L	200	21-Dec-11	8260B	
Toluene	3100	100	"	"	"	"	
Xylenes, total	4500	200	"	"	"	"	
Ethylbenzene	1600	100	"	"	"	"	
t-Butanol	1800	1000	"	"	"	"	
Methyl tert-Butyl Ether	7400	100	"	"	"	"	
Di-Isopropyl Ether	ND	100	"	"	"	"	
Ethyl tert-Butyl Ether	ND	100	"	"	"	"	
tert-Amyl Methyl Ether	ND	100	"	"	"	"	
1,2-Dichloroethane	ND	100	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	100	"	"	"	"	
Surr. Rec.:		110 %			"	"	
MW-4 (L112042-04) Water Sampled: 11-Dec-11 09:30 Received: 13-Dec-11 16:10							
Benzene	2100	25	ug/L	50	21-Dec-11	8260B	
Toluene	3400	25	"	"	"	"	
Xylenes, total	7000	50	"	"	"	"	
Ethylbenzene	1800	25	"	"	"	"	
t-Butanol	ND	250	"	"	"	"	
Methyl tert-Butyl Ether	ND	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.:		93 %			"	"	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



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

Project Number: GHA.19009
 Project Name: Shore Acres Gas
 Project Manager: Mike Sgourakis

Work Order No.:
 L112042

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-5 (L112042-05) Water Sampled: 11-Dec-11 09:10 Received: 13-Dec-11 16:10							
Benzene	7800	120	ug/L	250	21-Dec-11	8260B	
Toluene	14000	120	"	"	"	"	
Xylenes, total	20000	250	"	"	"	"	
Ethylbenzene	4200	120	"	"	"	"	
t-Butanol	1600	1200	"	"	"	"	
Methyl tert-Butyl Ether	690	120	"	"	"	"	
Di-Isopropyl Ether	ND	120	"	"	"	"	
Ethyl tert-Butyl Ether	ND	120	"	"	"	"	
tert-Amyl Methyl Ether	ND	120	"	"	"	"	
1,2-Dichloroethane	ND	120	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	120	"	"	"	"	
Surr. Rec.:		106 %			"	"	
MW-6 (L112042-06) Water Sampled: 11-Dec-11 10:14 Received: 13-Dec-11 16:10							
Benzene	660	10	ug/L	20	21-Dec-11	8260B	
Toluene	190	10	"	"	"	"	
Xylenes, total	1500	20	"	"	"	"	
Ethylbenzene	610	10	"	"	"	"	
t-Butanol	1300	100	"	"	"	"	
Methyl tert-Butyl Ether	290	10	"	"	"	"	
Di-Isopropyl Ether	ND	10	"	"	"	"	
Ethyl tert-Butyl Ether	ND	10	"	"	"	"	
tert-Amyl Methyl Ether	ND	10	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	
Surr. Rec.:		107 %			"	"	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

Work Order No.:
L112042

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
VW-1 (L112042-07) Water Sampled: 11-Dec-11 10:17 Received: 13-Dec-11 16:10							
Benzene	2600	25	ug/L	50	21-Dec-11	8260B	
Toluene	270	25	"	"	"	"	
Xylenes, total	4400	50	"	"	"	"	
Ethylbenzene	1400	25	"	"	"	"	
t-Butanol	1000	250	"	"	"	"	
Methyl tert-Butyl Ether	490	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.: 106 %

VW-2 (L112042-08) Water Sampled: 11-Dec-11 09:25 Received: 13-Dec-11 16:10							
Benzene	2800	50	ug/L	100	21-Dec-11	8260B	
Toluene	6900	50	"	"	"	"	
Xylenes, total	13000	100	"	"	"	"	
Ethylbenzene	2700	50	"	"	"	"	
t-Butanol	880	500	"	"	"	"	
Methyl tert-Butyl Ether	540	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.: 108 %

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Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

Work Order No.:
L112042

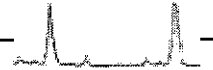
Total Petroleum Hydrocarbons @ Gasoline - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L102151 - EPA 5030B										
Blank (L102151-BLK1)										
Prepared & Analyzed: 12/19/11										
Surrogate: <i>a, a, a-Trifluorotoluene</i>	50.5		ug/L	50		101	70-130			
Total Petroleum Hydrocarbons @ Gasoline	ND	50	"							
LCS (L102151-BS1)										
Prepared & Analyzed: 12/19/11										
Total Petroleum Hydrocarbons @ Gasoline	1040		ug/L	1000		104	80-120			
LCS Dup (L102151-BSD1)										
Prepared & Analyzed: 12/19/11										
Total Petroleum Hydrocarbons @ Gasoline	1080		ug/L	1000		108	80-120	3	20	
Matrix Spike (L102151-MS1)										
Source: L112051-06										
Prepared & Analyzed: 12/19/11										
Total Petroleum Hydrocarbons @ Gasoline	911		ug/L	1000	ND	91	70-130			
Matrix Spike Dup (L102151-MSD1)										
Source: L112051-06										
Prepared & Analyzed: 12/19/11										
Total Petroleum Hydrocarbons @ Gasoline	928		ug/L	1000	ND	93	70-130	2	20	

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Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgurakis	Work Order No.: L112042
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L102150 - EPA 5030B

Blank (L102150-BLK1)		Prepared & Analyzed: 12/21/11								
<i>Surrogate: Fluorobenzene</i>	51.0		ug/L	50		102	70-130			
Benzene	ND	0.5	"							
Toluene	ND	0.5	"							
Xylenes, total	ND	1.0	"							
Ethylbenzene	ND	0.5	"							
t-Butanol	ND	5.0	"							
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	"							

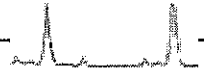
LCS (L102150-BS1)		Prepared & Analyzed: 12/21/11								
Benzene	25.6		ug/L	25		102	80-120			

LCS Dup (L102150-BSD1)		Prepared & Analyzed: 12/21/11								
Benzene	25.9		ug/L	25		104	80-120	1	20	

Matrix Spike (L102150-MS1)		Source: L112042-02		Prepared & Analyzed: 12/21/11						
Methyl tert-Butyl Ether	25.3		ug/L	25	0.4	99	70-130			

Matrix Spike Dup (L102150-MSD1)		Source: L112042-02		Prepared & Analyzed: 12/21/11						
Methyl tert-Butyl Ether	27.5		ug/L	25	0.4	108	70-130	8	20	

Approved By
Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

Work Order No.:
L112042

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

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359



Report Number : 77930

Date : 07/01/2011

Laboratory Results

Drew Van Allen
Environmental Compliance Group
270 Vintage Dr
Turlock, CA 95381

Subject : 4 Vapor Samples
Project Name : Shore Acres Gas
Project Number : GHA.19009

Dear Mr. Van Allen,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Report Number : 77930

Date : 07/01/2011

Project Name : **Shore Acres Gas**

Project Number : **GHA.19009**

Sample : **VW-1-INIT**

Matrix : Air

Lab Number : 77930-01

Sample Date :06/24/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	9.4	0.20	ppmv	EPA 8260B	06/27/11 11:21
Toluene	1.1	0.15	ppmv	EPA 8260B	06/27/11 11:21
Ethylbenzene	1.3	0.15	ppmv	EPA 8260B	06/27/11 11:21
Total Xylenes	2.7	0.15	ppmv	EPA 8260B	06/27/11 11:21
Methyl-t-butyl ether (MTBE)	1.3	0.15	ppmv	EPA 8260B	06/27/11 11:21
TPH as Gasoline	190	15	ppmv	EPA 8260B	06/27/11 11:21
1,2-Dichloroethane-d4 (Surr)	96.8		% Recovery	EPA 8260B	06/27/11 11:21
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	06/27/11 11:21

Sample : **VW-1-DAY 2**

Matrix : Air

Lab Number : 77930-02

Sample Date :06/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	15	0.10	ppmv	EPA 8260B	06/27/11 18:31
Toluene	5.8	0.090	ppmv	EPA 8260B	06/27/11 18:31
Ethylbenzene	4.5	0.080	ppmv	EPA 8260B	06/27/11 18:31
Total Xylenes	10	0.080	ppmv	EPA 8260B	06/27/11 18:31
Methyl-t-butyl ether (MTBE)	2.1	0.10	ppmv	EPA 8260B	06/27/11 18:31
TPH as Gasoline	500	8.0	ppmv	EPA 8260B	06/27/11 18:31
1,2-Dichloroethane-d4 (Surr)	95.8		% Recovery	EPA 8260B	06/27/11 18:31
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	06/27/11 18:31



Report Number : 77930

Date : 07/01/2011

Project Name : **Shore Acres Gas**

Project Number : **GHA.19009**

Sample : **VW-1-END**

Matrix : Air

Lab Number : 77930-03

Sample Date :06/26/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	21	0.20	ppmv	EPA 8260B	06/27/11 13:58
Toluene	13	0.20	ppmv	EPA 8260B	06/27/11 13:58
Ethylbenzene	9.0	0.15	ppmv	EPA 8260B	06/27/11 13:58
Total Xylenes	23	0.15	ppmv	EPA 8260B	06/27/11 13:58
Methyl-t-butyl ether (MTBE)	1.9	0.20	ppmv	EPA 8260B	06/27/11 13:58
TPH as Gasoline	1400	20	ppmv	EPA 8260B	06/27/11 13:58
1,2-Dichloroethane-d4 (Surr)	95.1		% Recovery	EPA 8260B	06/27/11 13:58
Toluene - d8 (Surr)	95.6		% Recovery	EPA 8260B	06/27/11 13:58

Sample : **VW-2-INIT**

Matrix : Air

Lab Number : 77930-04

Sample Date :06/26/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	140	3.0	ppmv	EPA 8260B	06/27/11 19:08
Toluene	240	2.5	ppmv	EPA 8260B	06/27/11 19:08
Ethylbenzene	84	2.0	ppmv	EPA 8260B	06/27/11 19:08
Total Xylenes	220	2.0	ppmv	EPA 8260B	06/27/11 19:08
Methyl-t-butyl ether (MTBE)	9.2	2.5	ppmv	EPA 8260B	06/27/11 19:08
TPH as Gasoline	11000	250	ppmv	EPA 8260B	06/27/11 19:08
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8260B	06/27/11 19:08
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	06/27/11 19:08

Report Number : 77930

Date : 07/01/2011

QC Report : Method Blank Data

Project Name : **Shore Acres Gas**

Project Number : **GHA.19009**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.050	0.050	ppmv	EPA 8260B	06/27/2011
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	06/27/2011
Toluene	< 0.050	0.050	ppmv	EPA 8260B	06/27/2011
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	06/27/2011
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	ppmv	EPA 8260B	06/27/2011
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	06/27/2011
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	06/27/2011
Toluene - d8 (Surr)	98.2		%	EPA 8260B	06/27/2011

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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Report Number : 77965

Date : 07/01/2011

Laboratory Results

Drew Van Allen
Environmental Compliance Group
270 Vintage Dr
Turlock, CA 95381

Subject : 2 Vapor Samples
Project Name : Shore Acres Gas
Project Number : GHA.19009

Dear Mr. Van Allen,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Report Number : 77965

Date : 07/01/2011

Project Name : **Shore Acres Gas**

Project Number : **GHA.19009**

Sample : **VW-2-DAY 2**

Matrix : Air

Lab Number : 77965-01

Sample Date :06/27/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	68	0.60	ppmv	EPA 8260B	06/30/11 00:41
Toluene	99	0.50	ppmv	EPA 8260B	06/30/11 00:41
Ethylbenzene	24	0.40	ppmv	EPA 8260B	06/30/11 00:41
Total Xylenes	64	0.40	ppmv	EPA 8260B	06/30/11 00:41
Methyl-t-butyl ether (MTBE)	3.6	0.50	ppmv	EPA 8260B	06/30/11 00:41
TPH as Gasoline	4700	80	ppmv	EPA 8260B	06/30/11 02:55
1,2-Dichloroethane-d4 (Surr)	90.3		% Recovery	EPA 8260B	06/30/11 00:41
Toluene - d8 (Surr)	94.8		% Recovery	EPA 8260B	06/30/11 00:41

Sample : **VW-2-END**

Matrix : Air

Lab Number : 77965-02

Sample Date :06/28/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	44	0.60	ppmv	EPA 8260B	06/30/11 04:01
Toluene	68	0.50	ppmv	EPA 8260B	06/30/11 04:01
Ethylbenzene	16	0.40	ppmv	EPA 8260B	06/30/11 04:01
Total Xylenes	43	0.40	ppmv	EPA 8260B	06/30/11 04:01
Methyl-t-butyl ether (MTBE)	3.1	0.50	ppmv	EPA 8260B	06/30/11 04:01
TPH as Gasoline	3200	50	ppmv	EPA 8260B	06/30/11 04:01
1,2-Dichloroethane-d4 (Surr)	96.1		% Recovery	EPA 8260B	06/30/11 04:01
Toluene - d8 (Surr)	96.3		% Recovery	EPA 8260B	06/30/11 04:01

Report Number : 77965
 Date : 07/01/2011

QC Report : Method Blank Data
Project Name : Shore Acres Gas
Project Number : GHA.19009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	06/30/2011						
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	06/30/2011						
Toluene	< 0.050	0.050	ppmv	EPA 8260B	06/30/2011						
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	06/30/2011						
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	ppmv	EPA 8260B	06/30/2011						
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	06/30/2011						
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	06/30/2011						
Toluene - d8 (Surr)	101		%	EPA 8260B	06/30/2011						
Benzene	< 0.050	0.050	ppmv	EPA 8260B	06/29/2011						
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	06/29/2011						
Toluene	< 0.050	0.050	ppmv	EPA 8260B	06/29/2011						
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	06/29/2011						
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	ppmv	EPA 8260B	06/29/2011						
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	06/29/2011						
Toluene - d8 (Surr)	99.4		%	EPA 8260B	06/29/2011						

SAMPLE RECEIPT CHECKLIST

RECEIVER
LJR
Initials

SRG#: 77965 Date: 062911
 Project ID: Shore Acres Gas
 Method of Receipt: Courier Over-the-counter Shipper

COC Inspection

Is COC present? Yes No

Custody seals on shipping container? Intact Broken Not present N/A

Is COC Signed by Relinquisher? Yes No

Is sampler name legibly indicated on COC? Yes No

Is analysis or hold requested for all samples? Yes No

Is the turnaround time indicated on COC? Yes No

Is COC free of whiteout and uninitialed cross-outs? Yes No, Whiteout No, Cross-outs

Sample Inspection

Coolant Present: Yes No (includes water)

Temperature °C _____ Therm. ID# _____ Initial _____ Date/Time _____ N/A

Are there custody seals on sample containers? Intact Broken Not present

Do containers match COC? Yes No No, COC lists absent sample(s) No, Extra sample(s) present

Are there samples matrices other than soil, water, air or carbon? Yes No

Are any sample containers broken, leaking or damaged? Yes No

Are preservatives indicated? Yes, on sample containers Yes, on COC Not indicated N/A

Are preservatives correct for analyses requested? Yes No N/A

Are samples within holding time for analyses requested? Yes No

Are the correct sample containers used for the analyses requested? Yes No

Is there sufficient sample to perform testing? Yes No

Does any sample contain product, have strong odor or are otherwise suspected to be hot? Yes No

Receipt Details

Matrix AR Container type tedlar # of containers received 2
 Matrix _____ Container type _____ # of containers received _____
 Matrix _____ Container type _____ # of containers received _____

Date and Time Sample Put into Temp Storage Date: 062911 Time: 1630

Quicklog

Are the Sample ID's indicated: On COC On sample container(s) On Both Not indicated

If Sample ID's are listed on both COC and containers, do they all match? Yes No N/A

Is the Project ID indicated: On COC On sample container(s) On Both Not indicated

If project ID is listed on both COC and containers, do they all match? Yes No N/A

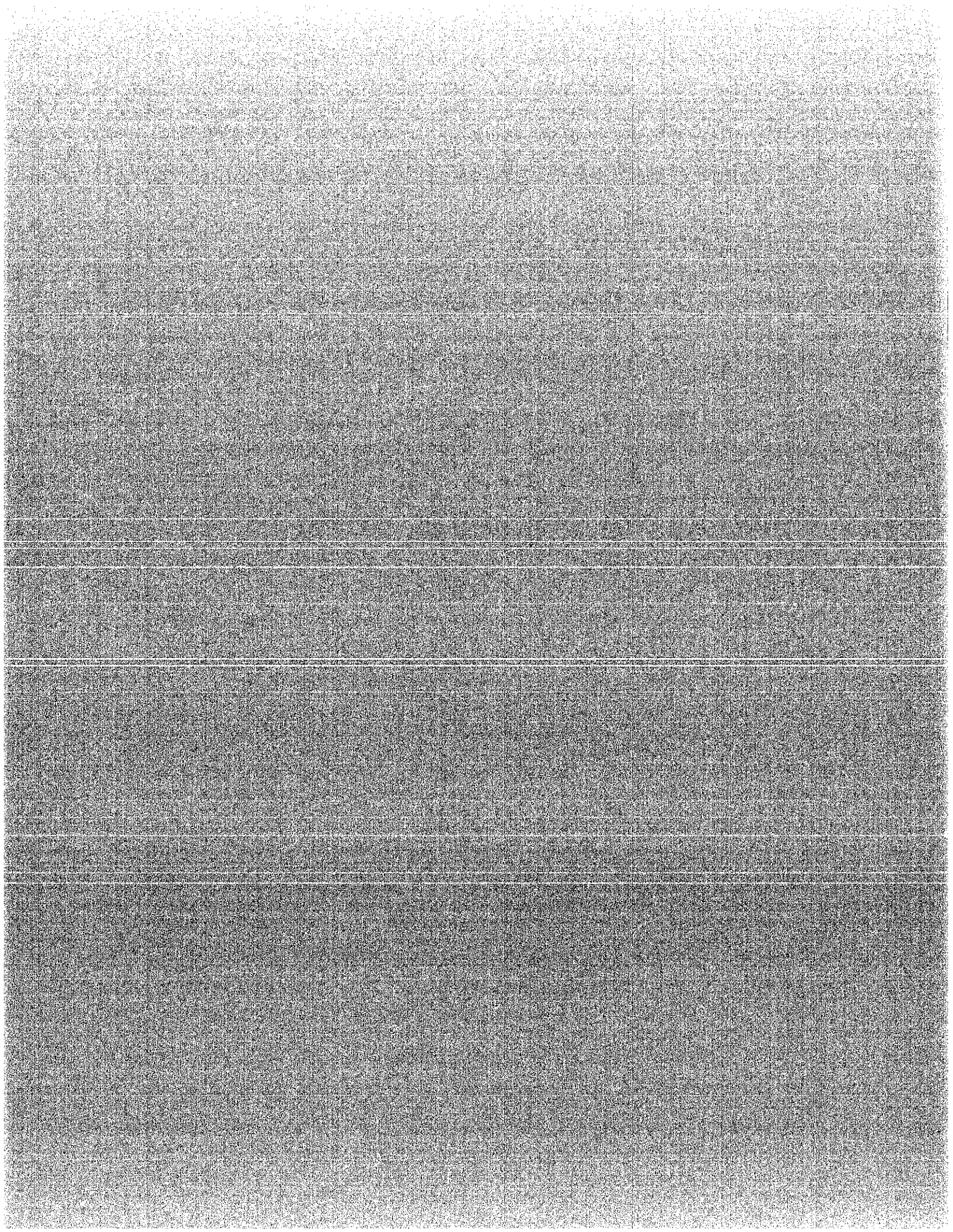
Are the sample collection dates indicated: On COC On sample container(s) On Both Not indicated

If collection dates are listed on both COC and containers, do they all match? Yes No N/A

Are the sample collection times indicated: On COC On sample container(s) On Both Not indicated

If collection times are listed on both COC and containers, do they all match? Yes No N/A

COMMENTS:



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: 19.96
 Depth to Water: 11.69
 Water Column Length: 8.27

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

PURGE VOLUME CALCULATION:

Water Column Length x Multiplier x No. Volumes = Purge Volume

$$\frac{8.27}{\text{Water Column Length}} \times \frac{0.17}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{4.2}{\text{Purge Volume}}$$

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
1023	1.25	6.90	18.6	777			
1029	3.0	6.90	18.5	705			
1033	4.5	6.88	18.6	791			
1040							

FIELD TECHNICIAN: Jus
DATE: 12/11/11

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: MV-2 TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 20.03
 Depth to Water: 11.92
 Water Column Length: 8.05

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

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

8.05 x 0.17 x 3 = 4
 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
0941	1.5	6.90	19.2	694			
0945	2.75	6.92	19.1	695			
0949	4	6.92	19.3	699			
0953							

FIELD TECHNICIAN: DMS
 DATE: 12/11/11

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: MLW-3 **TYPE OF WELL:** Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 17.83
 Depth to Water: 12.13
 Water Column Length: 5.70

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

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

$$\frac{5.70}{\text{Water Column Length}} \times \frac{0.17}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{3}{\text{Purge Volume}}$$

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: **SAMPLE METHOD:**
 Disposable Bailer _____
 PVC Bailer _____
 Submersible Pump _____
 Other _____

TIME	VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
10:25							
10:25	1.0	6.84	18.0	946			
10:30	2.0	6.86	18.0	941			
10:35	3.0	6.88	18.1	935			sampled
10:36							

FIELD TECHNICIAN: DUP
DATE: 12/1/11

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres
 PROJECT MANAGER: mss
 SITE ADDRESS: 403 East 12th Street, Oakland, CA

PROJECT NUMBER: GHA.19009
 TASK NUMBER: _____

WELL ID: MV-4

TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 17.89
 Depth to Water: 11.89
 Water Column Length: 7.00

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

PURGE VOLUME CALCULATION:

Water Column Length x Multiplier x No. Volumes = Purge Volume

$$\frac{7.00}{\text{Water Column Length}} \times \frac{0.17}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{3.5}{\text{Purge Volume}}$$

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
0919	1.25	6.82	20.0	650			
0923	2.5	7.01	20.6	658			
0927	3.6	7.07	20.6	652			
0930							

FIELD TECHNICIAN: DW
 DATE: 12/1/11

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: MV-5 TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 18.80
 Depth to Water: 12.09
 Water Column Length: 5.71

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

PURGE VOLUME CALCULATION:

Water Column Length x Multiplier x No. Volumes = Purge Volume

$$\frac{5.71}{\text{Water Column Length}} \times \frac{0.17}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{3}{\text{Purge Volume}}$$

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
0900	1.0	7.13	19.3	909			
0904	2.0	7.05	20.9	953			
0908	3.0	6.84	20.9	971			
0910							sample

FIELD TECHNICIAN: DNA
 DATE: 12/11

PURGE/DEVELOPMENT FORM

PROJECT NAME: Shore Acres
 PROJECT MANAGER: mss
 SITE ADDRESS: 403 East 12th Street, Oakland, CA

PROJECT NUMBER: GHA.19009
 TASK NUMBER: _____

WELL ID: MW-6

TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 19.92
 Depth to Water: 11.69
 Water Column Length: 8.23

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

PURGE VOLUME CALCULATION:

Water Column Length x Multiplier x No. Volumes = Purge Volume

$$\frac{8.23}{\text{Water Column Length}} \times \frac{0.17}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{4.2}{\text{Purge Volume}}$$

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
1001	1.5	6.88	18.4	789			
1005	3.0	6.88	18.4	805			
1009	4.5	6.91	18.1	807			
1014							

FIELD TECHNICIAN: DJA
 DATE: 12/14

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: VW-1 TYPE OF WELL: Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 12.75
 Depth to Water: 12.09
 Water Column Length: 6.66

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

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

$$\frac{6.66}{\text{Water Column Length}} \times \frac{0.17}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{3.4}{\text{Purge Volume}}$$

0.65 3 13.3

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 (w)
 _____ 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
9:55	5	6.79	19.6	1036			
10:05	10	6.77	19.6	1022			
10:15	15	6.80	19.0	1014			
10:17							sample

FIELD TECHNICIAN: Messiah
 DATE: 12/11/11

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: V W-2 **TYPE OF WELL:** Monitoring

WATER COLUMN DATA: (feet)
 Well Total Depth: 19.73
 Depth to Water: 12.12
 Water Column Length: 7.61

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

PURGE VOLUME CALCULATION:
 Water Column Length x Multiplier x No. Volumes = Purge Volume
7.61 x 0.65 x 3 = 15.2
 Water Column Length Multiplier No. Volumes Purge Volume

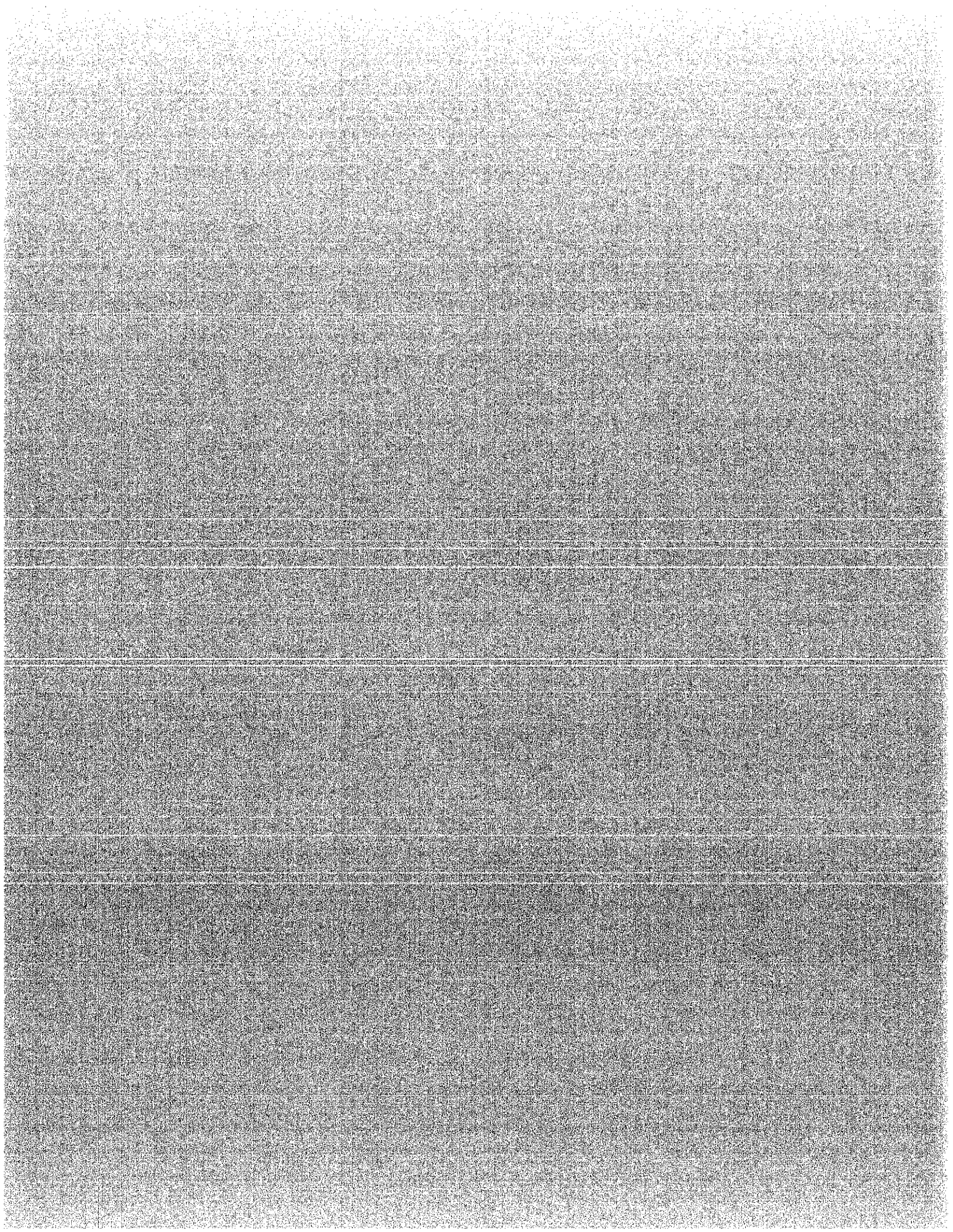
MULTIPLIER DATA:
 Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter:
 2-inch: 0.17
 4-inch: 0.65
 6-inch: 1.5

PURGE METHOD: Disposable Bailer (2)
 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
9:05	5.2	6.97	20.6	719			
9:15	10.4	6.90	20.4	808			
9:25	16.0	6.97	20.3	789			

FIELD TECHNICIAN: [Signature]
DATE: 12/11/11



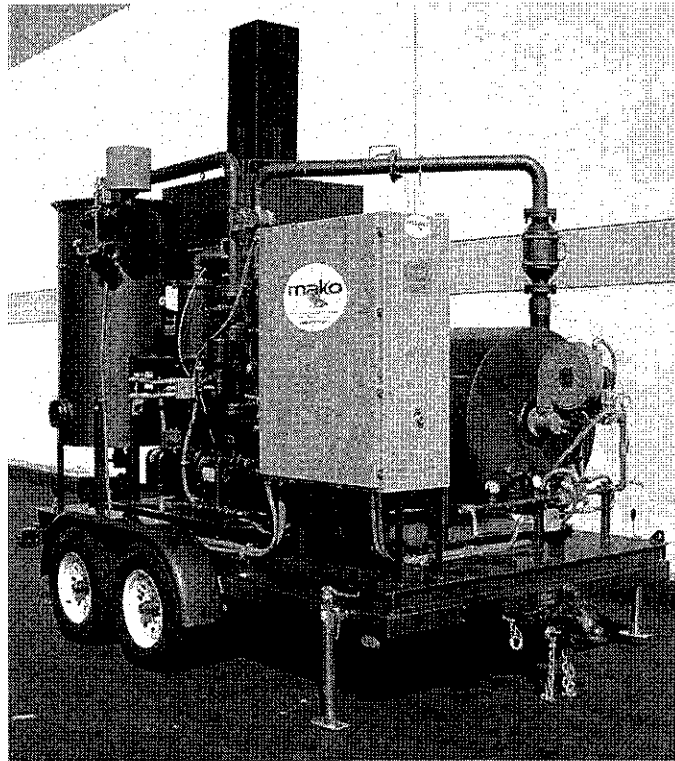


1280 N Red Gum Street Anaheim, CA 92806 • 714-632-1400

300 CFM Makotherm (HV) Thermal-Catalytic Oxidizer / High Vacuum System

Standard Features:

- Small Footprint Skid Mounting
- Entrained Liquid Separator
- Dilution / Process Valves
- Stainless Steel Transfer Pump
- Oil Sealed Liquid Ring Blower
- Oil Cooler Assembly
- 20 Horsepower TEFC Motor
- Sound Enclosure
- Oxidizer Chamber
- Excess Air Packaged Burner
- Supplemental Fuel Train
- Flame Arrestor
- Digital Temperature Controller
- Digital Dilution Controller
- Pitot Tube / Pressure Transmitter
- Digital Chart Recorder

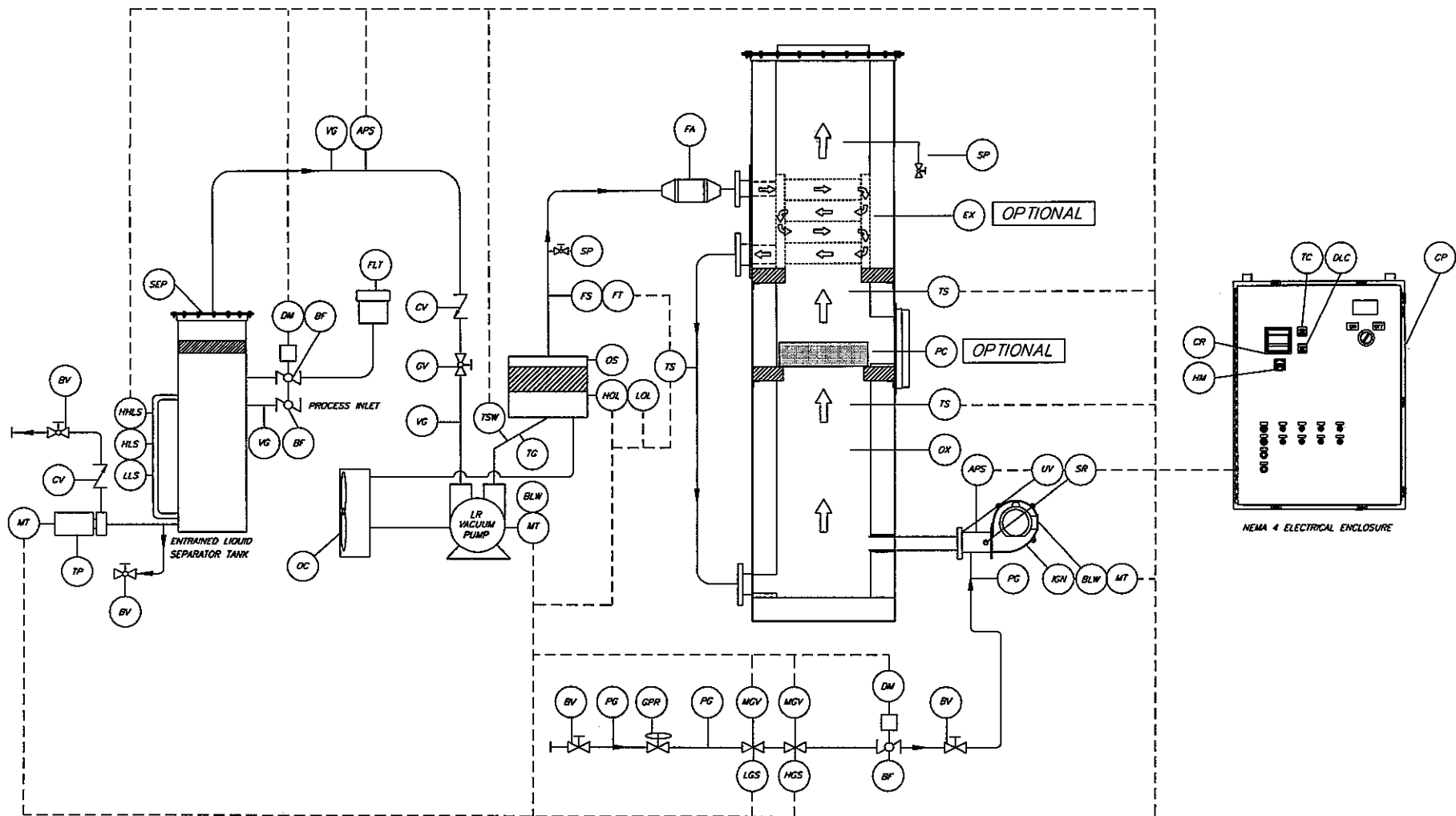


Standard Options:

Trailer Mounted System • Stainless Steel Heat Exchanger • Single Phase System
Platinum Coated Catalyst Cell • Remote Telemetry • Totally Enclosed System
UL Listed Electrical Enclosure E306379

Standard Performance Specifications:

Skid Dimensions = 7' Width x 7' Length x 13' Height
3/16" Heavy Duty Steel Construction Throughout
Electrical Requirement = 208/240 Volt/3 Phase/100 Amp
Electrical Requirement = 208/240 Volt/1 Phase/150 Amp
Fuel Requirement = LPG or Natural Gas / 5 PSI / 400SCFH
Process Flow = 300 CFM and up to 28" Hg. Vacuum
VOC Loading = 15,000 PPMV Maximum
Destruction Efficiency = 98%+



MAKO INDUSTRIES

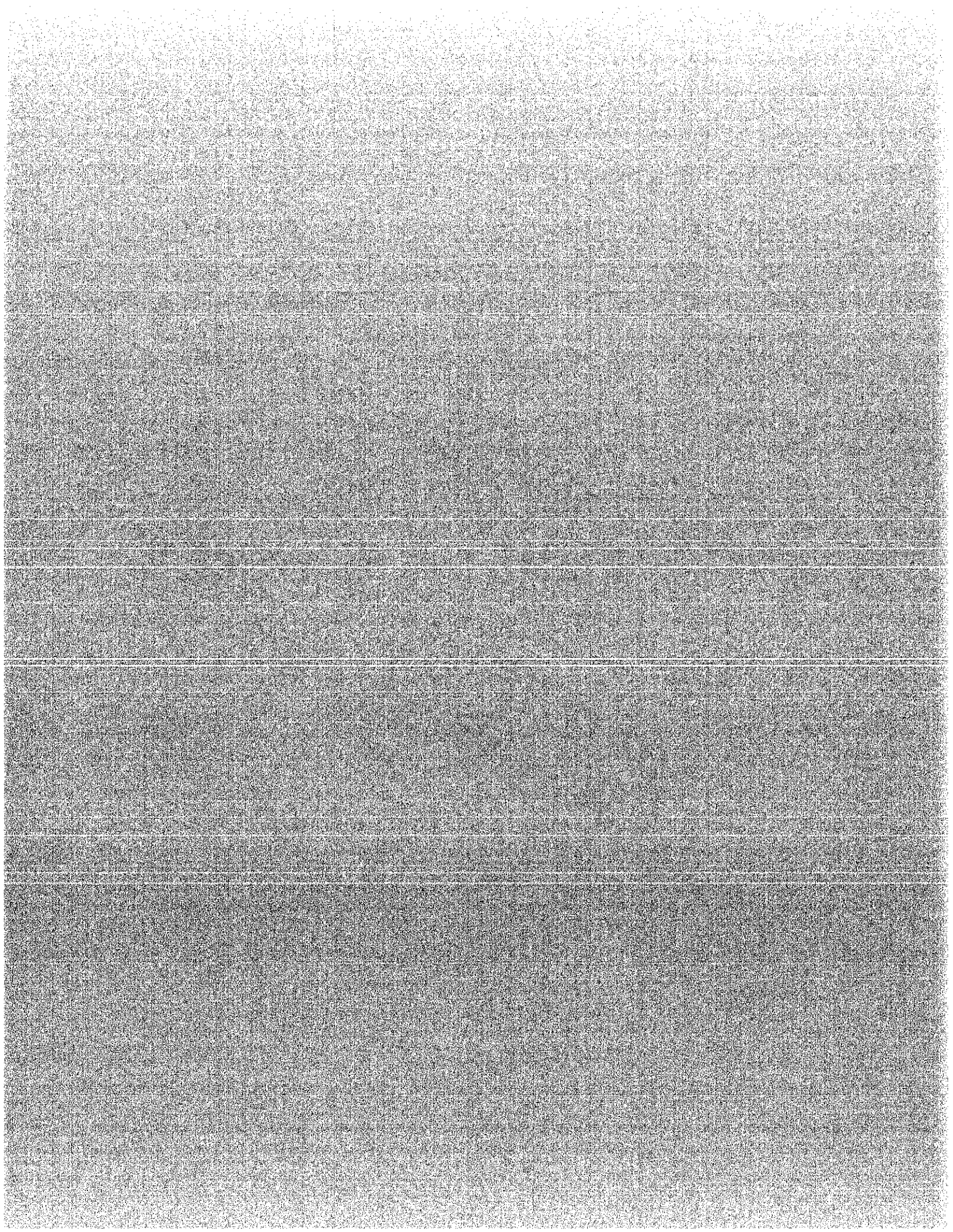
THERMAL-CATALYTIC OXIDIZER

PROCESS INSTRUMENTATION DRAWING

DATE:
9/15/08

FILE:
300 Makotherm.PID

300 CFM Makotherm (HV)



GHA.19009 DPE Test 6-24-6-28

Messiah M Squarles ECG

Page 1 of

Extraction Well (time)	Extraction Well V04	Temp. °F	Flowrate SCFM	Influent ppm	Well MW-2	Well MW-4	Well MW-5	Well MW-6	Well MW-1	Well MW-3	Well MW-2
6/24 13:00	10.83			▼ →	10.75	10.65	10.82	10.45	10.43	10.86	10.59
20:15	23/5	1498/67	68	62	0	0	0.25	0	0	0	0
23:15	23/5	1507/67	79	68	0	0	0.45	0	0	0	0
6/25 6:15	23/4	1518/68	135	135	0	0	0.55	0.03	0.02	0.02	0.01
7:15	23/4	1520/64	75	128	0	0	0.55	0.04	0.02	0.02	0.0
8:15	23/4	1521/65	68	156	0	0	0.55	0.03	0.03	0.02	
9:15	23/4	1523/65	180	147	0	0	0.60	0.04	0.03	0.04	0.02
10:15	23/4	1525/66	70	171	0	0	0.75	0.05	0.03	0.05	0.02
11:15	23/4	1527/66	230	175	0	0	0.85	0.06	0.03	0.05	0.02
12:15	23/4	1534/67	88	158	0	0	0.85	0.07	0.03	0.05	0.02
13:15	23/4	1535/68	230	165	0	0	0.85	0.08	0.03	0.05	0.02
13:15				▼ →	11.83	11.73	13.88	14.18	14.91	15.44	11.51
14:15	23/4	1535/70	217	171	0	0	0.85	0.08	0.03	0.05	0.03
					left site						
					system off upon arrival						
19:15											
20:15	23/4	1535/71	203	112	0	0	0.90	0.08	0.03	0.05	0.03
					left site						
6/28 6:15	23/3	1559/67	33	272	0	0	0.90	0.07	0.03	0.05	0.03

Water Tank

60"

74"

81"

84"

Tank MT 20

4"

propagator 925 595 9161 Cindy
 instrak 530 753 1829 Patrick

Extraction Well (time)	Extraction Well Vacuum	Temp. °F	Flowrate SCFM	Influent ppm	Well MW-2	Well MW-4	Well MW-5	Well MW-6	Well MW-1	Well MW-3	Well VW-2
6/26 7:15	23/3	1568/63	181	281	0	0	0.90	0.06	0.01	0.05	0.03
8:15	23/3	1569/63	33	272	0	0	0.90	0.06	0.01	0.05	0.03
8:30	23/3			▼	12.18	12.06	14.24	14.44	15.12	15.65	12.24
9:15	23/3	1598/64	52	278	0	0	0.90	0.065	0.01	0.05	0.03
10:15	23/3	1598/65	50	285	0	0	1.0	0.07	0.01	0.05	0.03
11:15	23/3	1601/65	128	265	0	0	1.0	0.07	0.01	0.05	0.03
12:15	23/3	1602/65	43	213	0	0	1.0	0.07	0.01	0.05	0.03
13:15	23/3	1604/65	77	193	0	0	1.0	0.07	0.01	0.05	0.03
14:15	23/3	1611/66	41	173	0	0	1.0	0.07	0.01	0.05	0.03
14:30	23/3			▼	12.27	12.14	14.25	14.43	15.03	15.58	12.42

Tank

48"

72"

VW-2

From VW4 test

11/16 diesel
40% pop

1/27

1/28

Extraction Well (time)	Extraction Well Vacuum	Temp. °F	Flowrate SCFM	Influent ppm	Well MW-2	Well MW-4	Well MW-5	Well MW-6	Well MW-1	Well (MW-3)	Well VW-1
15:00	28"/14"	1667/61	140	395	+	+	+	+	+	+	+
16:00	24"/12"	1698/61	130	396	0.01	0	0.4	+	+	+	+
17:00	24"/11"	1722/61	135	385	0.05	0.08	0.55	+	+	+	+
18:00	24"/10	1741/62	140	326	0.07	0.085	0.55	+	+	+	+
				0 vacuum	truck	emptied	EW tank	3200 gallons = 700 lbs			
19:00	24"/10	1450	145	397	0.07	0.0	0.75	+	+	+	+
1020	20"/8"	1360	23 1/2"	1990	0.03	0.0	0.85	+	+	+	+
1130	20"/8"	1350	20	1552	0.03	0.0	0.80	+	+	+	+
1230	20/8	1490	20	1610	0.03	0.02	0.80	+	+	+	+
1330	20/9	1638	35	145	0.03	0.02	0.85	+	+	+	+
1430	20/8	1552	30	1364	0.03	0.02	0.85	+	+	+	+
1530	20/9	1511	29	1379	0.03	0.02	0.85	+	+	+	+
0930	23/8	1550	18	1272	0.01	0.01	0.55	0.01	+	+	+
1000				▼	13.63	13.17	14.08	12.73	12.47	13.51	12.42
1030	23/8	1703	26	1454	0.01	0.01	0.75	0.01	+	+	+
1130	23/8	1706	21	1602	0.01	0.01	0.75	0.01	+	+	+
1230	23/8	1709	25	1609	0.03	0.03	1.0	0.01	+	+	+
1330	23/10	1702	31	1514	0.01	0.01	1.1	0.01	+	+	+

72"

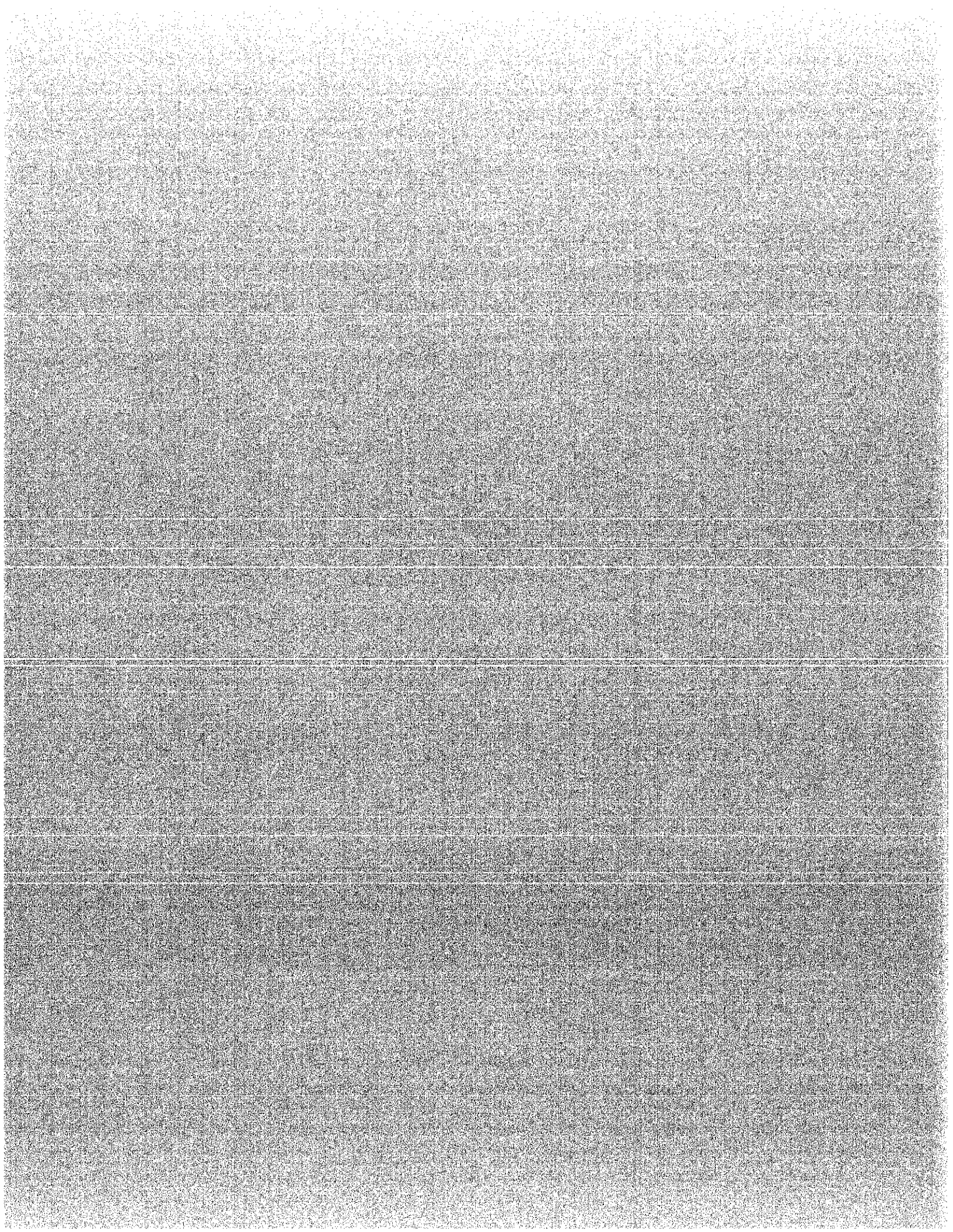
80" test
2"

rain

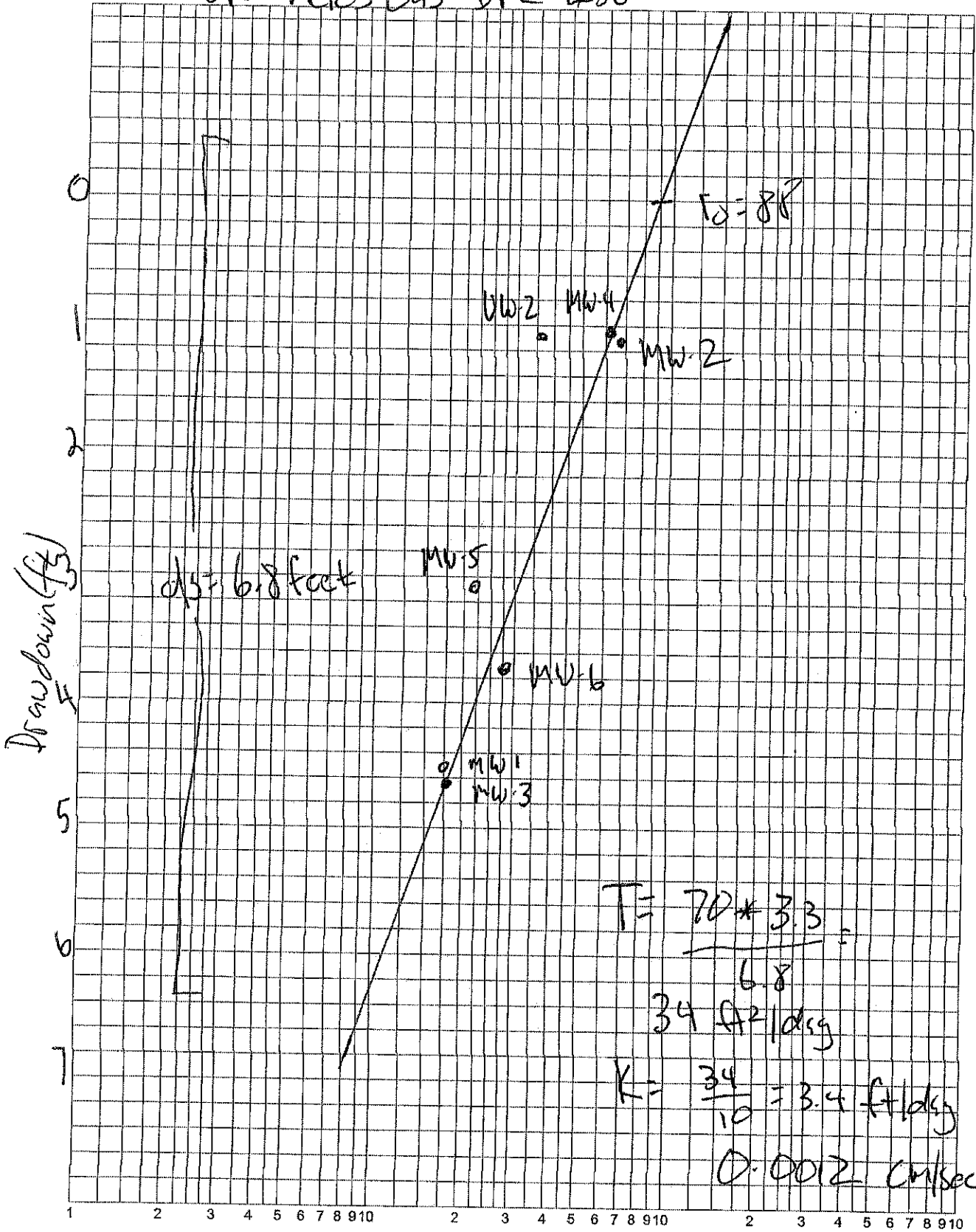
1334	18.65
1336	17.62
1337	15.85
1338	15.58
1339	15.25
1340	15.01
1341	14.81
1343	14.61
1344	14.55
1345	14.50
1347	14.42

1349	14.31
1350	14.24
1351	14.18
1352	14.15
1353	14.11
1354	14.07
1355	14.05
1358	13.98
1401	13.93

DTW
Recovery
6/20
JW-2



Distance Drawdown Plot Shore Acres Gas DPE Test



Distance (ft)

Time Drawdown Plot Shore Acres Gas DPZ Test

