

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director



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

January 6, 2011

Mr. Charles Miller (Sent via E-mail to: chuck.miller@danskinvestments.com)
Moller Investment Group
6951 Collins Drive, Suite E-11
Moorpark, CA 93021

Drake Builders
1616 Tremont Street
Galveston, TX 77550

MacArthur Boulevard Associates
c/o Mr. John Jay, Management Agent (Sent via E-mail to: johnjay@jayphares.com)
10700 MacArthur Boulevard, Suite 200
Oakland, CA 94605

Subject: Case Closure for Fuel Leak Case No. RO0000232 and GeoTracker Global ID T0600101808,
USA Petroleum, 10700 MacArthur Boulevard, Oakland, CA 94605

Dear Mr. Miller, Mr. Jay, and Drake Builders:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.swrcb.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Total Petroleum Hydrocarbons as gasoline remain in soil at concentrations up to 120 ppm.
- Total Petroleum Hydrocarbons as gasoline remain in groundwater at concentrations up to 10,000 ppb.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Donna L. Drogos, P.E.
Division Chief

Enclosures:

1. Remedial Action Completion Certification
2. Case Closure Summary

cc:

Leroy Griffin (w/enc)
Oakland Fire Department
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032
(Sent via E-mail to: lgriffin@oaklandnet.com)

Ken Phares
Jay-Phares Corporation
10700 MacArthur Boulevard, Suite 200
Oakland, CA 94605
(Sent via E-mail to: kphares@ix.netcom.com)

Gowri Kowtha
Stratus Environmental
3330 Cameron Park Drive, Ste. 550
Cameron Park, CA 95682
(Sent via E-mail to: gkowtha@stratusinc.net)

Closure Unit (w/enc)
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120
(uploaded to GeoTracker)

Aubrey Rose
City of Oakland Planning & Zoning Division
250 Frank H. Ogawa Plaza, Ste. 2114
Oakland, CA 94612
(Sent via E-mail to: arose@oaklandnet.com)

Peter McIntyre
AEI Consultants
2500 Camino Diablo, Suite 100
Walnut Creek CA 94597
(Sent via E-mail to:
pmcintyre@aeiconsultants.com)

Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Jerry Wickham, ACEH (Sent via E-mail to: jerry.wickham@acgov.org)

GeoTracker (w/enc)
File (w/orig enc)



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

REMEDIAL ACTION COMPLETION CERTIFICATION

January 6, 2011

Mr. Charles Miller (*Sent via E-mail to: chuck.miller@danskinvestments.com*)
Moller Investment Group
6951 Collins Drive, Suite E-11
Moorpark, CA 93021

Drake Builders
1616 Tremont Street
Galveston, TX 77550

MacArthur Boulevard Associates
c/o Mr. John Jay, Management Agent (*Sent via E-mail to: johnjay@jayphares.com*)
10700 MacArthur Boulevard, Suite 200
Oakland, CA 94605

Subject: Case Closure for Fuel Leak Case No. RO0000232 and GeoTracker Global ID T0600101808,
USA Petroleum, 10700 MacArthur Boulevard, Oakland, CA 94605

Dear Mr. Miller, Mr. Jay, and Drake Builders:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,


Ariu Levi
Director

Alameda County Environmental Health

**CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

Date: December 16, 2010

I. AGENCY INFORMATION

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: USA Petroleum		
Site Facility Address: 10700 MacArthur Boulevard, Oakland, CA 94605		
RB Case No.: 01-1955	Local Case No.: StID#4490	LOP Case No.: RO0000232
URF Filing Date: 07/20/1994	Geotracker ID: T0600101808	APN: 47-5589-1-7

Responsible Parties	Addresses	Phone Numbers
Mr. Charles Miller, Moller Investment Group	6951 Collins Drive, Suite E-11 Moorpark, CA 93021	805-299-8200 ext 214
Drake Builders	1616 Tremont Street Galveston, TX 77550	No Phone Number
MacArthur Boulevard Associates c/o Mr. John Jay, Management Agent	10700 MacArthur Boulevard, Suite 200 Oakland, CA 94605	510-562-9500

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1 through 3	12,000 gallons	Gasoline	Removed	07/19/1994
4	8,000 gallons	Diesel	Removed	07/19/1994
Piping			Removed	07/19/1994

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. Conditions of the tanks at the time of removal were not reported. Soil samples collected from the tank pit, dispenser islands, and product lines during the tank removal in 1994 contained petroleum hydrocarbons.		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 13	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 4.88 feet bgs	Lowest Depth: 24.43 feet bgs	Flow Direction: Variable; north to northeast gradient observed in southern portion of site and south-southeast gradient observed in northern portion of site. The general topographic slope and regional groundwater flow is to the southwest.
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: The nearest water supply well is an irrigation well located approximately 1,000 feet southwest of the site. A second irrigation well is located approximately 1,600 feet south of the site. Based on the distance from the site, the irrigation wells are not expected to be receptors for the site. Several domestic wells are located in an upland area approximately 1,600 to 2,000 feet northeast of the site. Based on the upgradient direction and distance, the domestic wells are not expected to be receptors for the site. No other water supply wells were identified within 2,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: San Leandro Creek is approximately 4,700 feet south of the site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and City of Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	3 - 12,000-gallon tank 1 - 8,000-gallon tank	The tanks were transported to H&H Environmental Systems in San Francisco, CA for disposal	07/19/1994
Piping	Not reported	The piping was transported to H&H Environmental Systems in San Francisco, CA for disposal	07/19/1994
Free Product	Not reported	--	--
Soil	775 cubic yards	Soil from the tank removal was transported to Vasco Road Landfill in Livermore, CA and Redwood Landfill in Novato, CA for disposal.	10/1994
	7,829 tons	Soils were transported to Vasco Road Landfill in Livermore, CA and Keller Canyon Landfill in Pittsburg, CA for disposal.	8/26/2010 to 9/15/2010
Groundwater	3,400 gallons	The groundwater was disposed off-site at Seaport Recycling facility in Redwood City, CA.	9/2/2010

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
 (Please see Attachments 1 through 6
 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	4,400	120	160,000(1)	10,000(1)
TPH (Diesel)	330	12	6,000(2)	660(2)
Total Oil and Grease	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
Benzene	9.6	0.54	13,000(3)	2,600(3)
Toluene	21	3.0	3,800(4)	80(4)
Ethylbenzene	60	3.1	1,300(4)	390(4)
Xylenes	440	21.5	11,000(4)	470(4)
Lead	7(5)	7(5)	Not Analyzed	Not Analyzed
MTBE	0.65(6)	0.35(7)	720(8)	670(9)
Other (8240/8270)	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed

- (1) The maximum concentration before cleanup is from a groundwater sample from well S-2 collected 07/31/1998; the maximum concentration after cleanup is the maximum concentration detected during the most recent sampling event on 05/05/2009.
- (2) The maximum concentration before cleanup is from a groundwater sample from well S-2 collected 03/03/1995; the maximum concentration after cleanup is the maximum concentration detected during the most recent sampling event in which TPHd was an analyte (03/12/2002).
- (3) The maximum concentration before cleanup is from a groundwater sample from well EX-2 collected 10/24/2005; the maximum concentration after cleanup is the maximum concentration detected during the most recent sampling event on 05/05/2009.
- (4) The maximum concentration before cleanup is from a groundwater sample from well S-2 collected 02/12/187; the maximum concentration after cleanup is the maximum concentration detected during the most recent sampling event on 05/05/2009
- (5) Lead = 9 ppm; no other metals analyzed Cadmium = 2.4 ppm; Chromium = 140 ppm; Nickel = 210 ppm; and Zinc = 330 ppm.
- (6). MTBE = 0.65 ppm; TBA, TAME, ETBE, DIPE, EDB, and EDC not detected at various reporting limits.
- (7) MTBE = 0.35 ppm; TBA, TAME, ETBE, DIPE, EDB, and EDC not detected at various reporting limits.
- (8) MTBE = 720 ppm; TBA = 2,000 ppb, EDC = 400 ppb; TAME, ETBE, DIPE, EDB, ethanol, and methanol not detected at various reporting limits.
- (9) MTBE = 670 ppb; TBA = 760 ppb, EDC = 19 ppb; TAME, ETBE, DIPE, EDB, ethanol, and methanol not detected at various reporting limits.

Site History and Description of Corrective Actions:

The site is within a vacant portion of the Foothill Square shopping center near the intersection of 108th Avenue and Foothill Boulevard in southeast Oakland, CA. Areas adjacent to the site are used as a parking lot for the shopping center. Surrounding land use is mixed commercial and residential. The site was an automobile service station until July 1994 when the underground storage tanks (USTs) were removed and the service station demolished.

Petroleum hydrocarbons were first detected at the site during a subsurface investigation performed as part of real estate transaction in February 1987. During the February 1987 investigation, two groundwater monitoring wells (S-1 and S-2) were installed and four soil borings were advanced.

Four USTs (three 12,000-gallon gasoline and one 8,000-gallon diesel UST) were removed from the site on July 14, 1994. Elevated concentrations of petroleum hydrocarbons were detected in soil samples collected from the tank excavation and dispenser islands. Based on the results of confirmation sampling and visual evidence of contamination, the tank pit was overexcavated in August and September 1994. A total of 775 cubic yards of soil was removed and disposed off-site during the overexcavation efforts.

Between February and November 1995, eight soil borings (B-1 through B-8) were advanced and six groundwater monitoring wells (MW-3 through MW-8) were installed. Groundwater monitoring was initiated in 1995.

Dual-phase extraction (DPE) and air sparging (AS) were applied at the site intermittently between July 2004 and November 2007. The objective of the intermittent events was to reduce the mass of petroleum hydrocarbons in the area of the former tanks. The first three DPE events used well S-1, S-2, and MW-3 for extraction with MW-7 also used for extraction during the third DPE event. Three subsequent DPE events were completed using wells EX-1 through EX-4 for extraction. In an attempt to improve removal efficiency, two air sparging wells (AS-1 and AS-2) were installed in 2007. A DPE/AS event was conducted between September 4 and November 14, 2007. An estimated 698.8 pounds of petroleum hydrocarbons were removed in the vapor phase during the seventh DPE/AS event. The overall mass of petroleum hydrocarbons removed during the seven DPE and DPE/AS events was estimated at 797.3 pounds.

An iSOC™ oxygen injection system operated at the site between January 22, 2006 and September 4, 2007. Individual injection units that produce dissolved oxygen were placed in wells S-1, S-2, and MW-3 from January 11, 2006 to December 18, 2006. In December 2006, the iSOC™ injection units were moved from wells S-1 and MW-3 to wells EX-1 and EX-2. The operation of the oxygen injection system was discontinued on September 4, 2007, prior to initiation of a DPE/AS event.

To assess the potential for vapor intrusion to indoor air, a soil vapor sampling survey was conducted in October 2009. A total of 39 soil gas sampling points were advanced and sampled at depths of 4 and 9 feet bgs (SV-1A/B through SV-20A/B). The concentrations of petroleum hydrocarbons detected in the soil vapor samples exceeded screening levels for commercial land use at numerous sampling locations. A Corrective Action Plan prepared in February 2010 and a Revised Corrective Action Plan prepared in May 2010 selected excavation as the preferred remedial alternative.

Soil excavation of the former UST and dispenser areas was conducted between July 26, 2010 and August 25, 2010. A total of approximately 7,829 tons of soil and 2,566 pounds of gasoline range petroleum hydrocarbons was removed during the excavation. A total of 45 sidewall and 22 base confirmation samples were collected to guide overexcavation where necessary. The excavated soils were disposed off-site and the excavation was backfilled with backfill material from Vulcan Quarry in Pleasanton, CA. Prior to backfilling, approximately 63 tons of gypsum was spread at the base of the excavation to enhance anaerobic degradation of residual petroleum hydrocarbons.

Following completion of the excavation, 39 soil vapor samples were collected in October 2010 to confirm the effectiveness of the excavation in reducing the concentrations of petroleum hydrocarbons in soil vapor. Based on the results of the October 2010 soil vapor survey, the concentrations of petroleum hydrocarbons in soil vapor are below Environmental Screening Levels (San Francisco Bay Regional Water Quality Control Board May 2008) for potential vapor intrusion to indoor air.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: None.		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: Yes	Number Decommissioned: 13	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

V. ADDITIONAL COMMENTS, DATA, ETC.


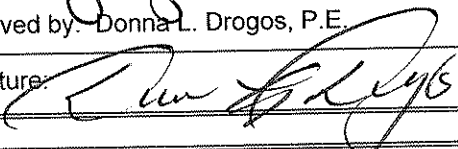
Considerations and/or Variances:

The concentrations of dissolved petroleum hydrocarbons were variable in several wells during the period from 2005 to 2010 and do not clearly demonstrate a stable or declining trend. Based on the extent of the excavation and source removal, groundwater concentrations are expected to decrease over time as a result of natural attenuation processes. Given the extent of the source removal, limited distribution of the plume, and absence of an exposure pathway to groundwater, confirmation groundwater sampling following excavation was not considered to be necessary.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the current commercial land use based upon the information available in our files to date. No further investigation or cleanup for the fuel leak case is necessary unless a change in land use to any residential or other conservative land use scenario occurs at the site. ACEH staff recommend closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 01/06/11
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: 	Date: 01/06/11

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

Wickham, Jerry, Env. Health

From: Cherie McCaulou [CMccaulou@waterboards.ca.gov]
Sent: Thursday, January 06, 2011 12:23 PM
To: Wickham, Jerry, Env. Health
Subject: Re: Pending closure for 10700 MacArthur Boulevard, Oakland

Dear Jerry -

The Regional Water Quality Control Board has no objection to the closure of the case at 10700 MacArthur in Oakland.

Sincerely,

Cherie McCaulou
Engineering Geologist
San Francisco Bay Regional Water Quality Control Board
cmccaulou@waterboards.ca.gov
510-622-2342

>>> "Wickham, Jerry, Env. Health" <jerry.wickham@acgov.org> 1/6/2011 11:31 AM >>>
Hi Cherie,

This email provides notification of pending closure for case RO0232, 10700 MacArthur Boulevard, Oakland. This is a high priority closure that we are trying to move through as quickly as possible. Please respond when you can.

Thanks,
Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 01/06/11	

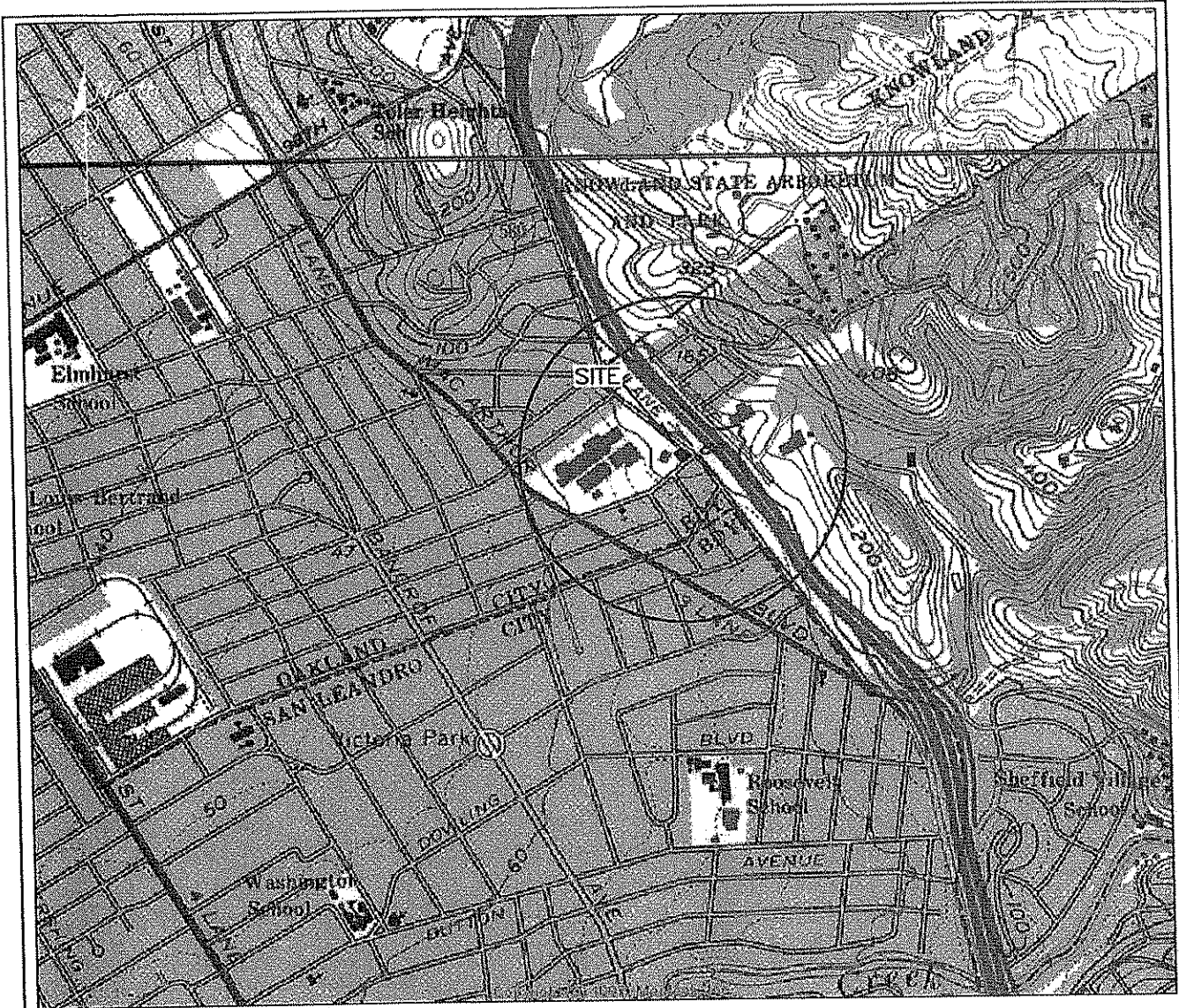
VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: NA	Date of Well Decommissioning Report: NA	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 13	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: <i>Jerry Wickham</i>	Date: 01/06/11	

Attachments:

1. Site Vicinity Map (1 p)
2. Site Plans (2 pp)
3. Groundwater Elevation Map, Soil Concentration Maps and Cross Section (7 pp)
4. Confirmation Sampling Results and Remediation Summaries (7 pp)
4. Soil and Soil Vapor Analytical Data (17 pp)
5. Groundwater Analytical Data (27 pp)
6. Boring Logs (37 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.



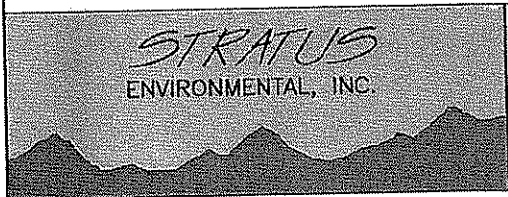
GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 OAKLAND, CA
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



QUADRANGLE LOCATION



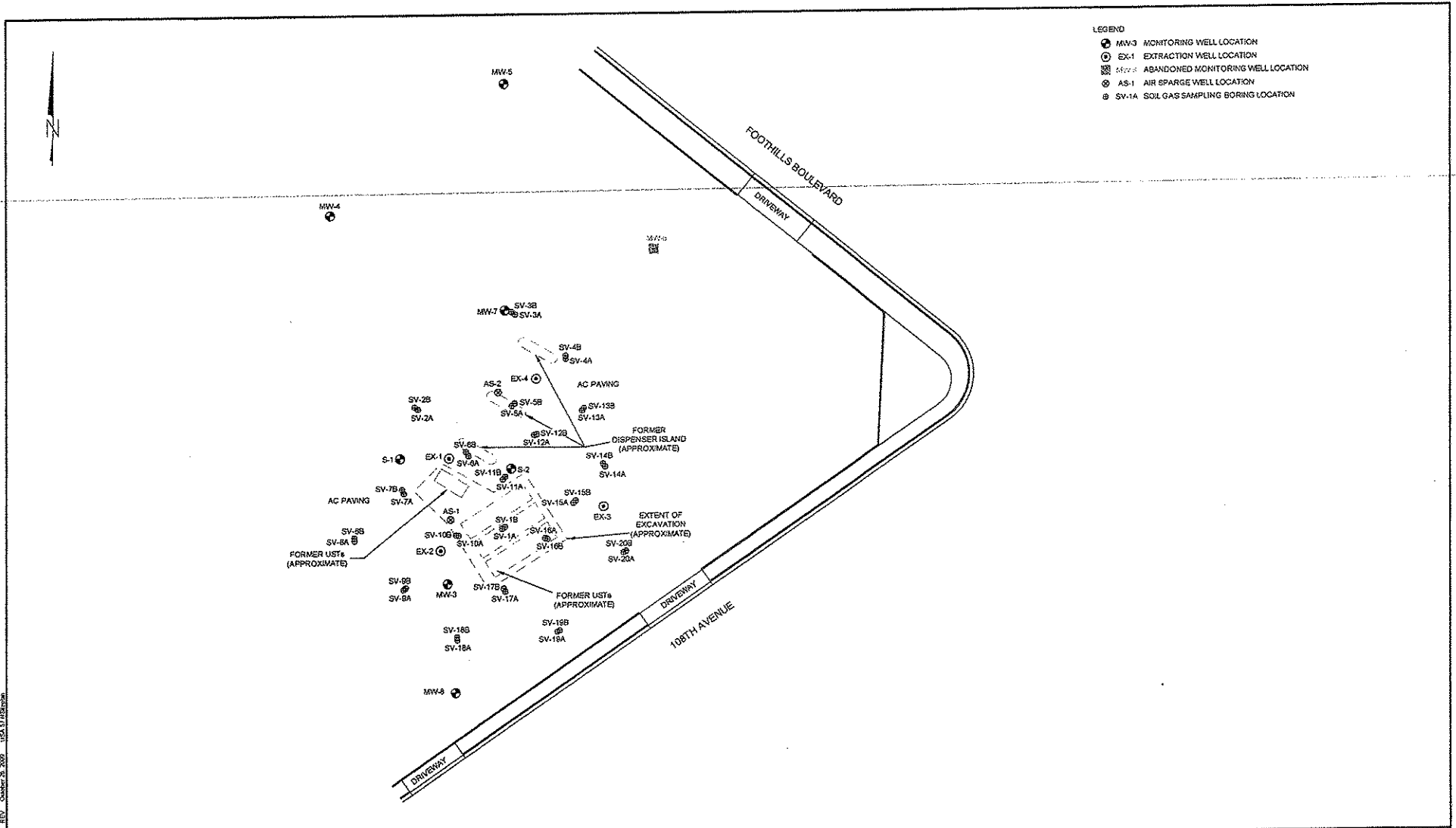
SCALE 1:24,000



FORMER USA STATION NO: 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA
 SITE LOCATION MAP

FIGURE
 1

ATTACHMENT 1



- LEGEND
- MW-3 MONITORING WELL LOCATION
 - ⊙ EX-1 EXTRACTION WELL LOCATION
 - ⊙ MW-4 ABANDONED MONITORING WELL LOCATION
 - ⊙ AS-1 AIR SPARGE WELL LOCATION
 - ⊙ SV-1A SOIL GAS SAMPLING BORING LOCATION

REV. 04/2007 2:00 PM USA 57.MXD

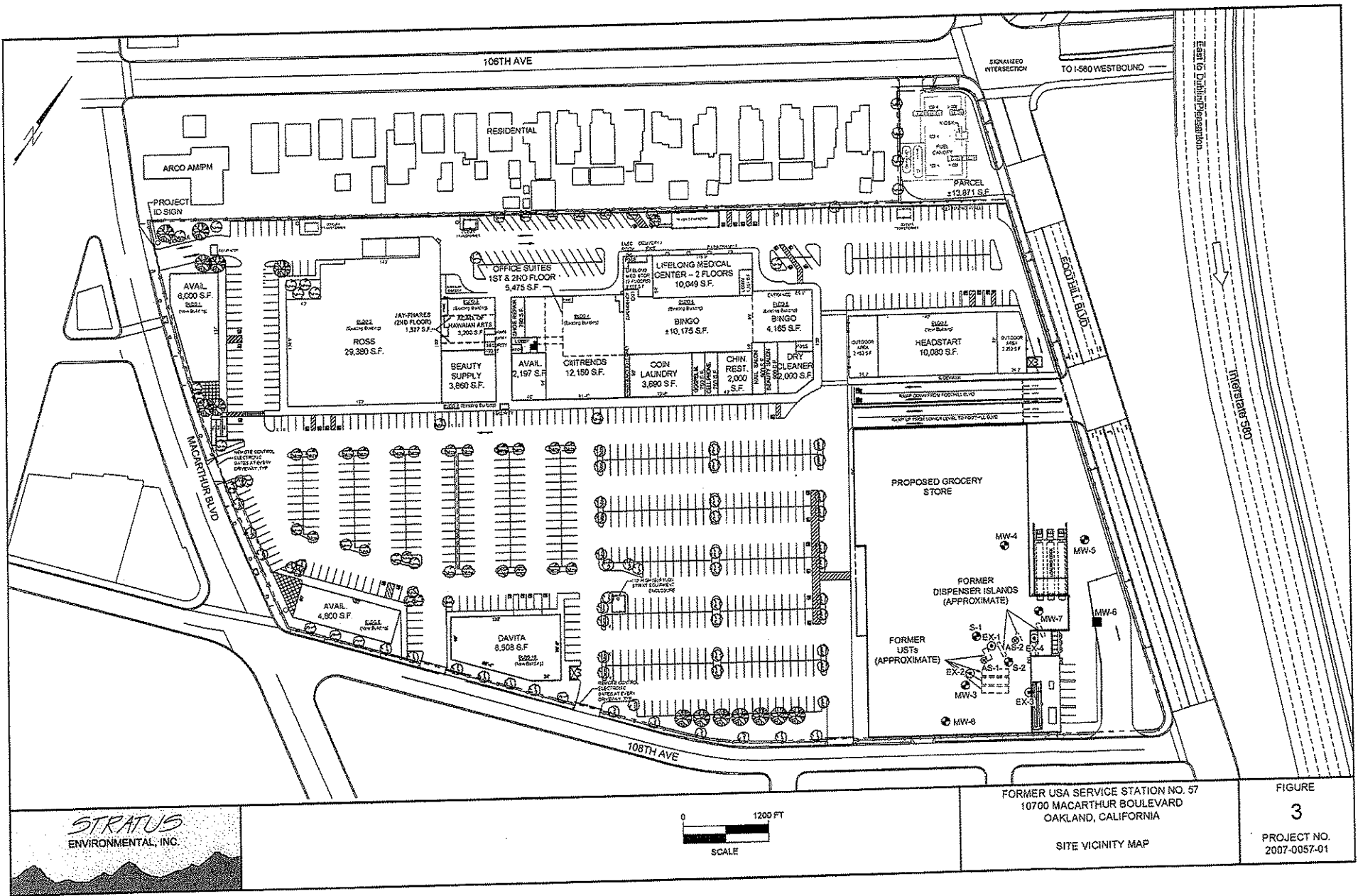


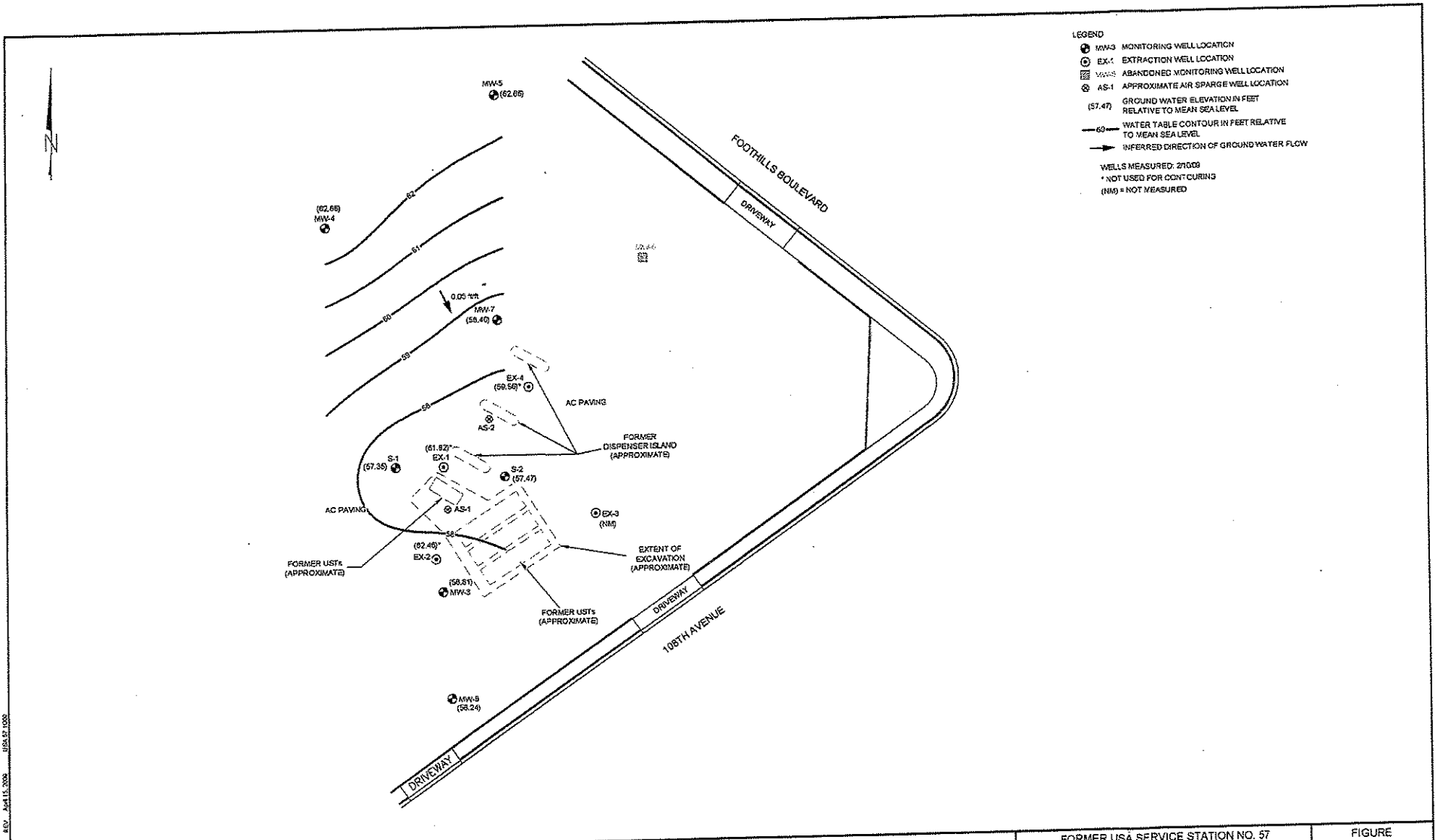
FORMER USA SERVICE STATION NO. 57
10700 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

SITE PLAN

FIGURE
2
PROJECT NO.
2007-0057-01

ATTACHMENT 2





- LEGEND**
- MW-3 MONITORING WELL LOCATION
 - ⊙ EX-1 EXTRACTION WELL LOCATION
 - ⊙ MW-5 ABANDONED MONITORING WELL LOCATION
 - ⊙ AS-1 APPROXIMATE AIR SPARGE WELL LOCATION
 - (57.47) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
 - 59 — WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
 - INFERRED DIRECTION OF GROUND WATER FLOW
- WELLS MEASURED: 2/10/09
 * NOT USED FOR CONTOURING
 (NM) = NOT MEASURED

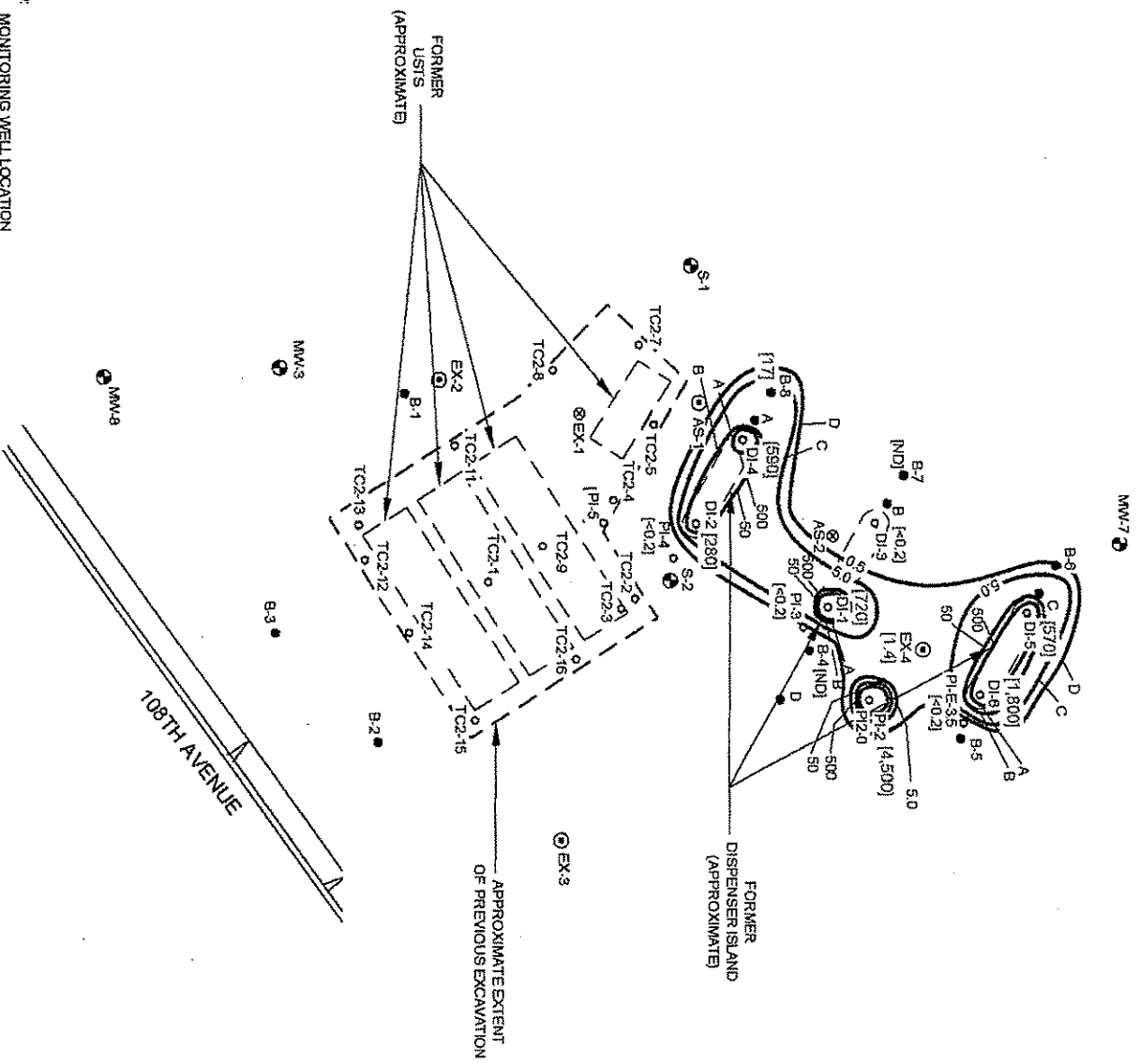
USGS 10/03
 REV. APRIL 15, 2008
 10/03
 10/03



FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA
 GROUNDWATER ELEVATION CONTOUR MAP
 1st QUARTER 2009

FIGURE
5
 PROJECT NO.
 2007-0057-01

ATTACHMENT 3



- LEGEND:**
- ⊕ MMW-3 MONITORING WELL LOCATION
 - ⊖ EX-1 EXTRACTION WELL LOCATION
 - ⊙ AS-1 APPROXIMATE AIR SPARGE WELL LOCATION
 - B-1 APPROXIMATE SOIL BORING LOCATION
 - D1-4 APPROXIMATE SOIL SAMPLE LOCATION
 - [0.2] TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN mg/kg
 - ND NOT DETECTED (LABORATORY REPORTING LIMITS NOT AVAILABLE)
 - NA NOT ANALYZED FOR THIS CONSTITUENT

SOIL SAMPLES COLLECTED BETWEEN 784 AND 3195 & 1005 AND 807
 NOT ALL EXCAVATION SAMPLE LOCATIONS SHOWN; ONLY THOSE SAMPLES
 COLLECTED AT THE FURTHEST EXTENT OF EXCAVATION

NOTE: DPE REMEDIATION LIKELY RESULTED IN REDISTRIBUTION OF TPHG FOLLOWING SAMPLE COLLECTION

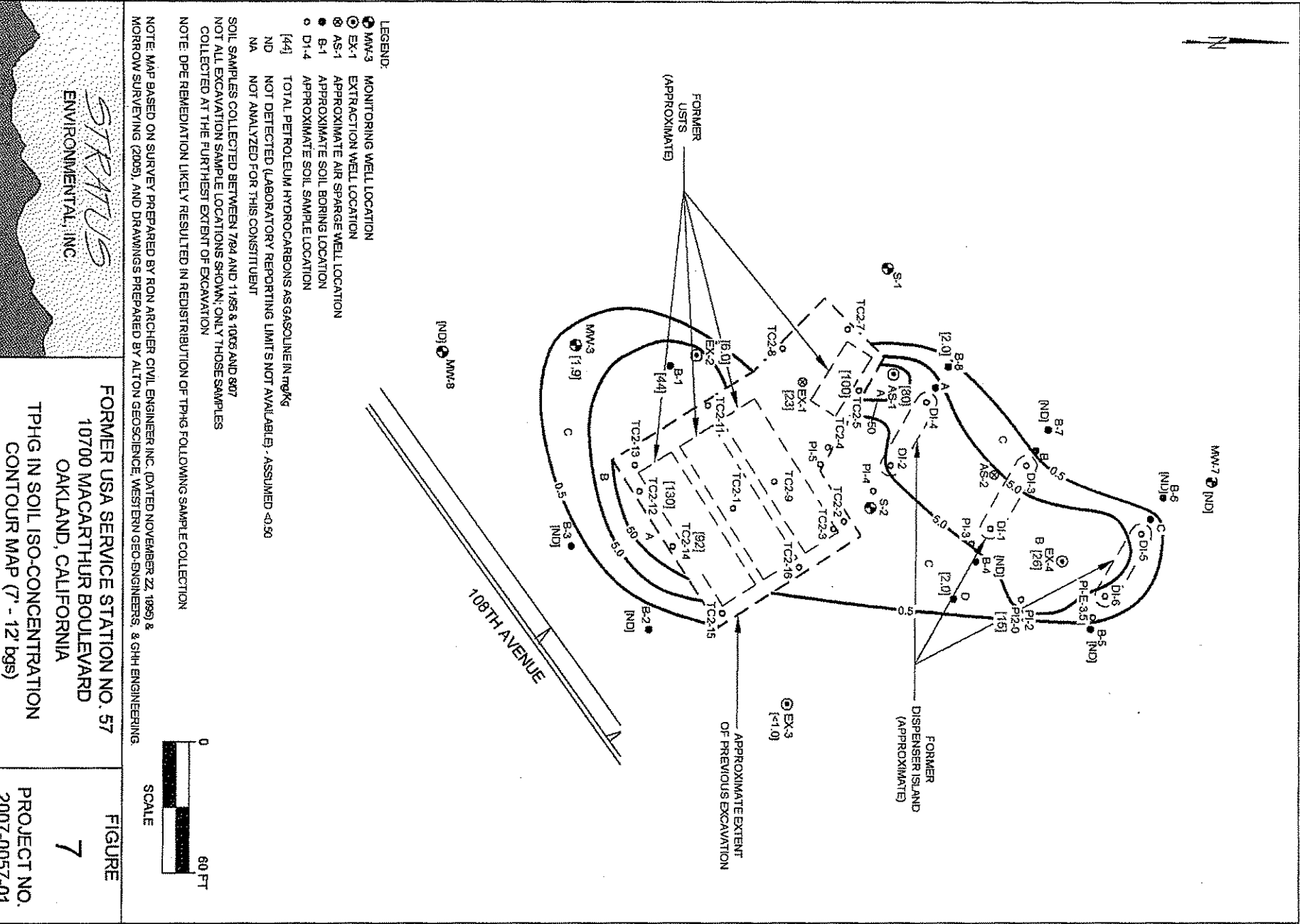
NOTE: MAP BASED ON SURVEY PREPARED BY RON ARCHER CIVIL ENGINEER, INC. (DATED NOVEMBER 22, 1989) &
 MORROW SURVEYING (2005), AND DRAWINGS PREPARED BY ALTON GEOSCIENCE, WESTERN GEO-ENGINEERS, & GHH ENGINEERING.

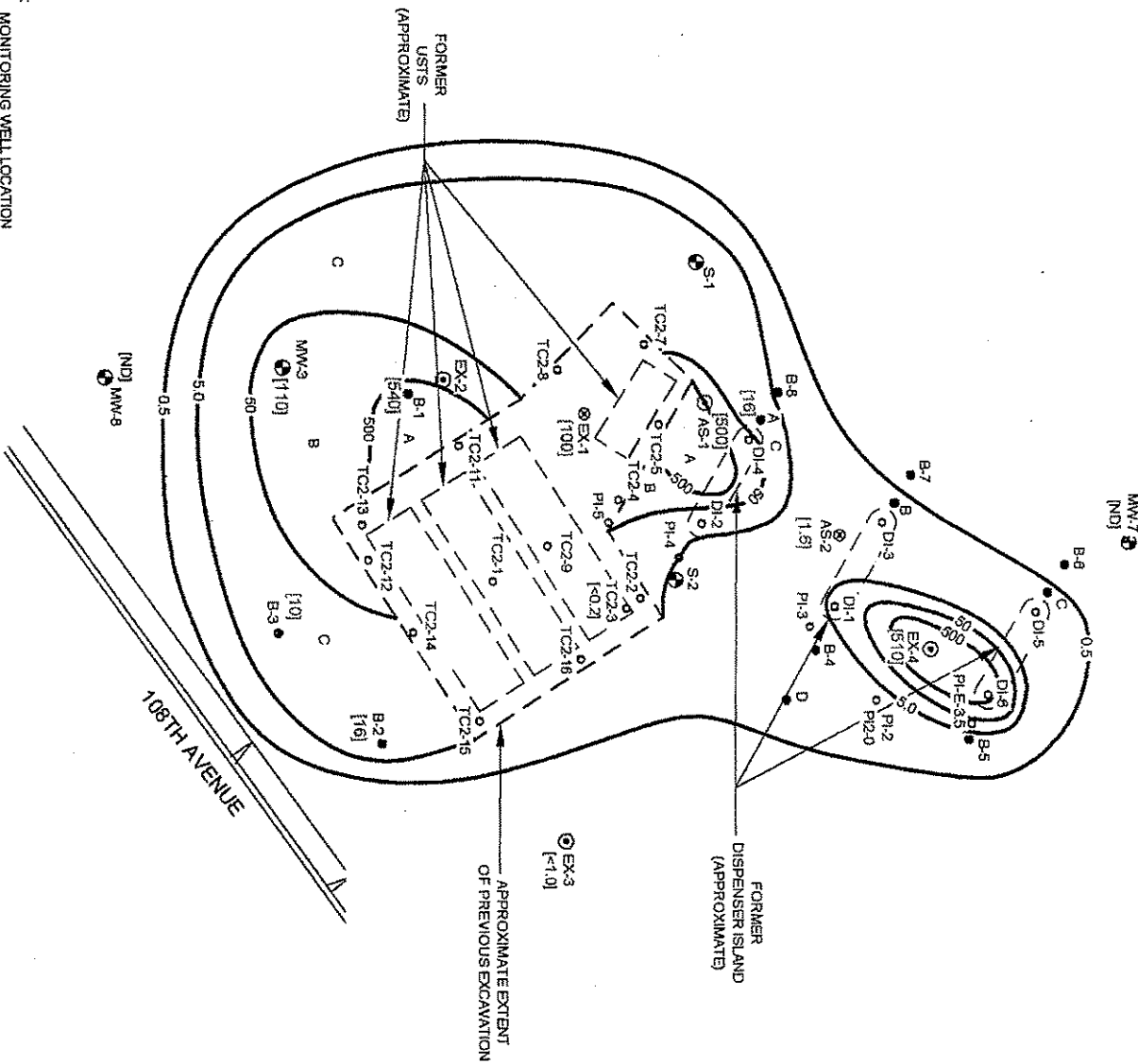
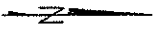


STRATUS
 ENVIRONMENTAL, INC.

FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA
 TPHG IN SOIL ISO-CONCENTRATION
 CONTOUR MAP (0 - 7" bgs)

FIGURE
6
 PROJECT NO.
 2007-0057-01





- LEGEND:**
- MW-3 MONITORING WELL LOCATION
 - ⊕ EX-1 EXTRACTION WELL LOCATION
 - ⊕ AS-1 APPROXIMATE AIR SPARGE WELL LOCATION
 - B-1 APPROXIMATE SOIL BORING LOCATION
 - D1-4 APPROXIMATE SOIL SAMPLE LOCATION
 - I-0-2 TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN mg/kg
 - ND NOT DETECTED (LABORATORY REPORTING LIMITS NOT AVAILABLE)
 - NA NOT ANALYZED FOR THIS CONSTITUENT

SOIL SAMPLES COLLECTED BETWEEN 7/84 AND 11/85 & 10/85 AND 8/07
 NOT ALL EXCAVATION SAMPLE LOCATIONS SHOWN, ONLY THOSE SAMPLES
 COLLECTED AT THE FURTHEST EXTENT OF EXCAVATION

NOTE: DPE REMEDIATION LIKELY RESULTED IN REDISTRIBUTION OF TPHG FOLLOWING SAMPLE COLLECTION

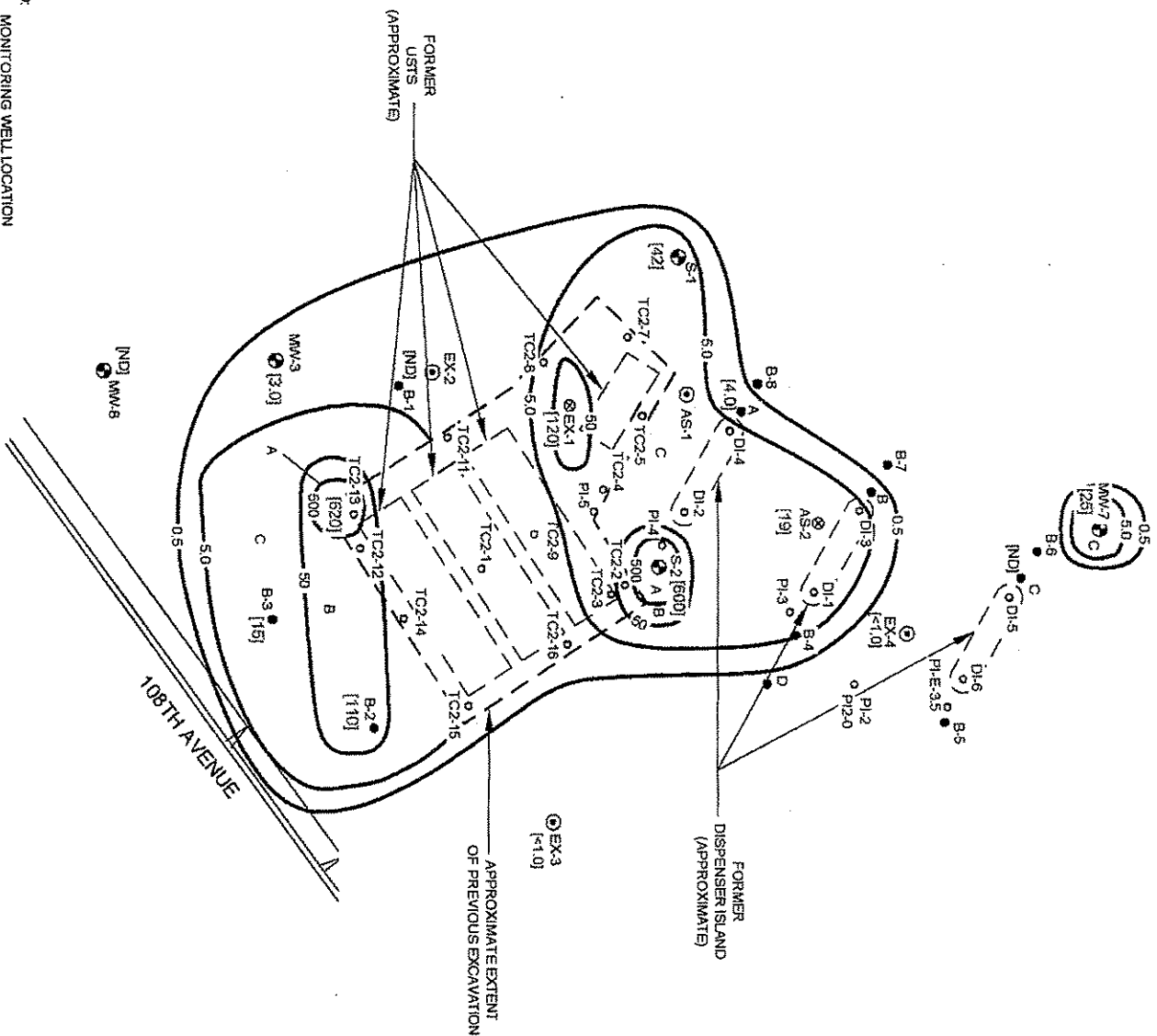
NOTE: MAP BASED ON SURVEY PREPARED BY RON ARCHER CIVIL ENGINEER INC. (DATED NOVEMBER 22, 1995) &
 MORROW SURVEYING (2005), AND DRAWINGS PREPARED BY ALTON GEOSCIENCE, WESTERN GEO-ENGINEERS, & GHH ENGINEERING.



STRATUS
 ENVIRONMENTAL, INC.

FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

FIGURE
8
 PROJECT NO.
 2007-0057-01



- LEGEND:**
- MMW-3 MONITORING WELL LOCATION
 - ⊙ EX-1 EXTRACTION WELL LOCATION
 - ⊙ AS-1 APPROXIMATE AIR SPARGE WELL LOCATION
 - B-1 APPROXIMATE SOIL BORING LOCATION
 - D1-4 APPROXIMATE SOIL SAMPLE LOCATION
 - [3.0] TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN TPHG
 - ND NOT DETECTED (LABORATORY REPORTING LIMITS NOT AVAILABLE)
 - NA NOT ANALYZED FOR THIS CONSTITUENT

SOIL SAMPLES COLLECTED BETWEEN 7/94 AND 11/85 & 10/85 AND 9/07
 NOT ALL EXCAVATION SAMPLE LOCATIONS SHOWN; ONLY THOSE SAMPLES
 COLLECTED AT THE FURTHEST EXTENT OF EXCAVATION

NOTE: DPE REMEDIATION LIKELY RESULTED IN REDISTRIBUTION OF TPHs FOLLOWING SAMPLE COLLECTION

NOTE: MAP BASED ON SURVEY PREPARED BY RON ARCHER CIVIL ENGINEER, INC. (DATED NOVEMBER 22, 1989) &
 MORROW SURVEYING (2009), AND DRAWINGS PREPARED BY ALTON GEO-SCIENCE, WESTERN GEO-ENGINEERS, & GHH ENGINEERING.

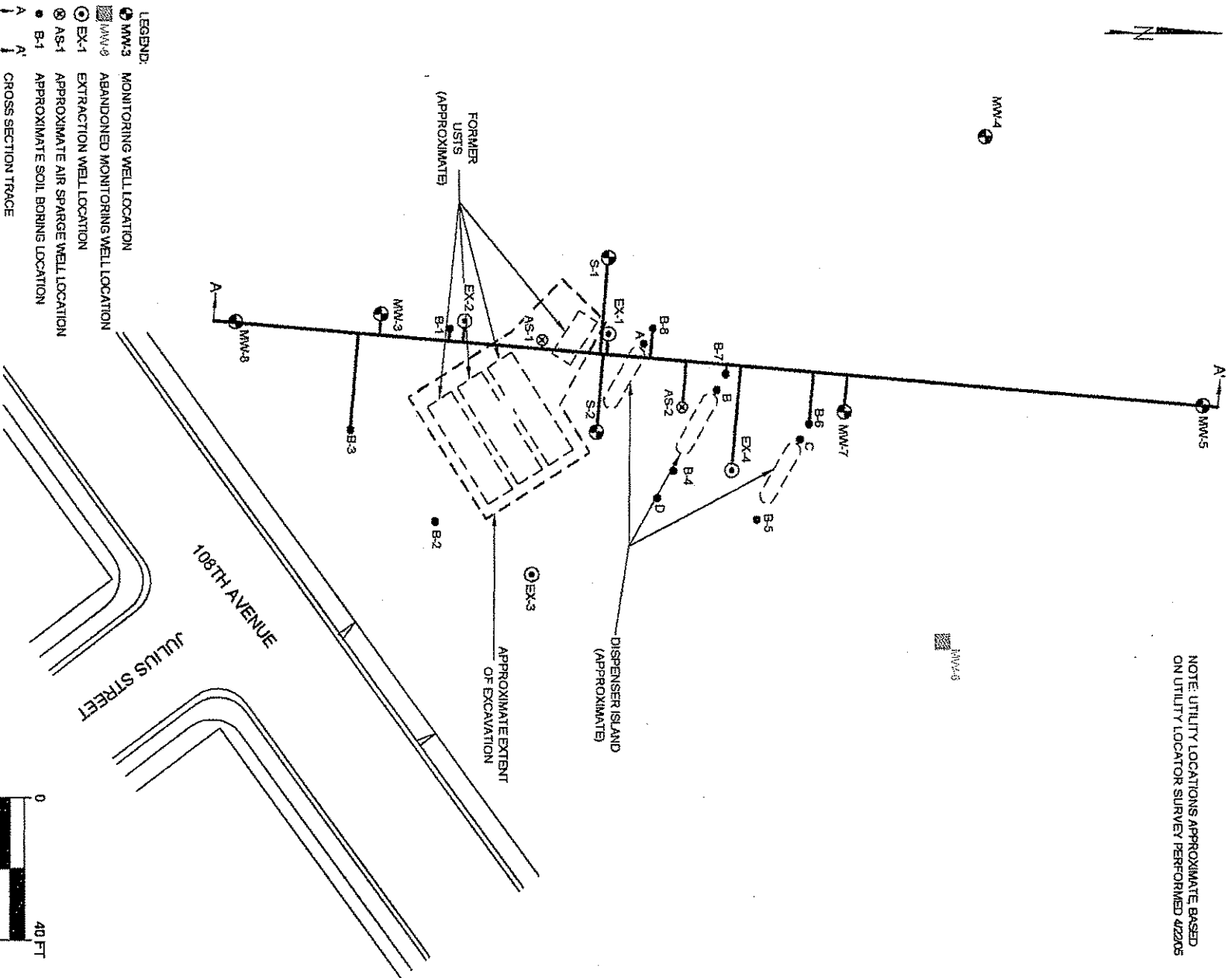


STRATUS
 ENVIRONMENTAL, INC.

FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

FIGURE 9
 PROJECT NO. 2007-0057-01

NOTE: UTILITY LOCATIONS APPROXIMATE BASED ON UTILITY LOCATOR SURVEY PERFORMED 4/23/05



- LEGEND:**
- MMW-3 MONITORING WELL LOCATION
 - MMW-6 ABANDONED MONITORING WELL LOCATION
 - ⊗ EX-1 EXTRACTION WELL LOCATION
 - ⊗ AS-1 APPROXIMATE AIR SPARGE WELL LOCATION
 - B-1 APPROXIMATE SOIL BORING LOCATION
 - A-A' CROSS SECTION TRACE

NOTE: MAP BASED ON SURVEY PREPARED BY RON ARCHER CIVIL ENGINEER INC. (DATED NOVEMBER 22, 1989) & MORROW SURVEYING (2005) AND DRAWINGS PREPARED BY ALTON GEOSCIENCE WESTERN GEO-ENGINEERS, AND GHH ENGINEERING.



STRATUS
ENVIRONMENTAL, INC.

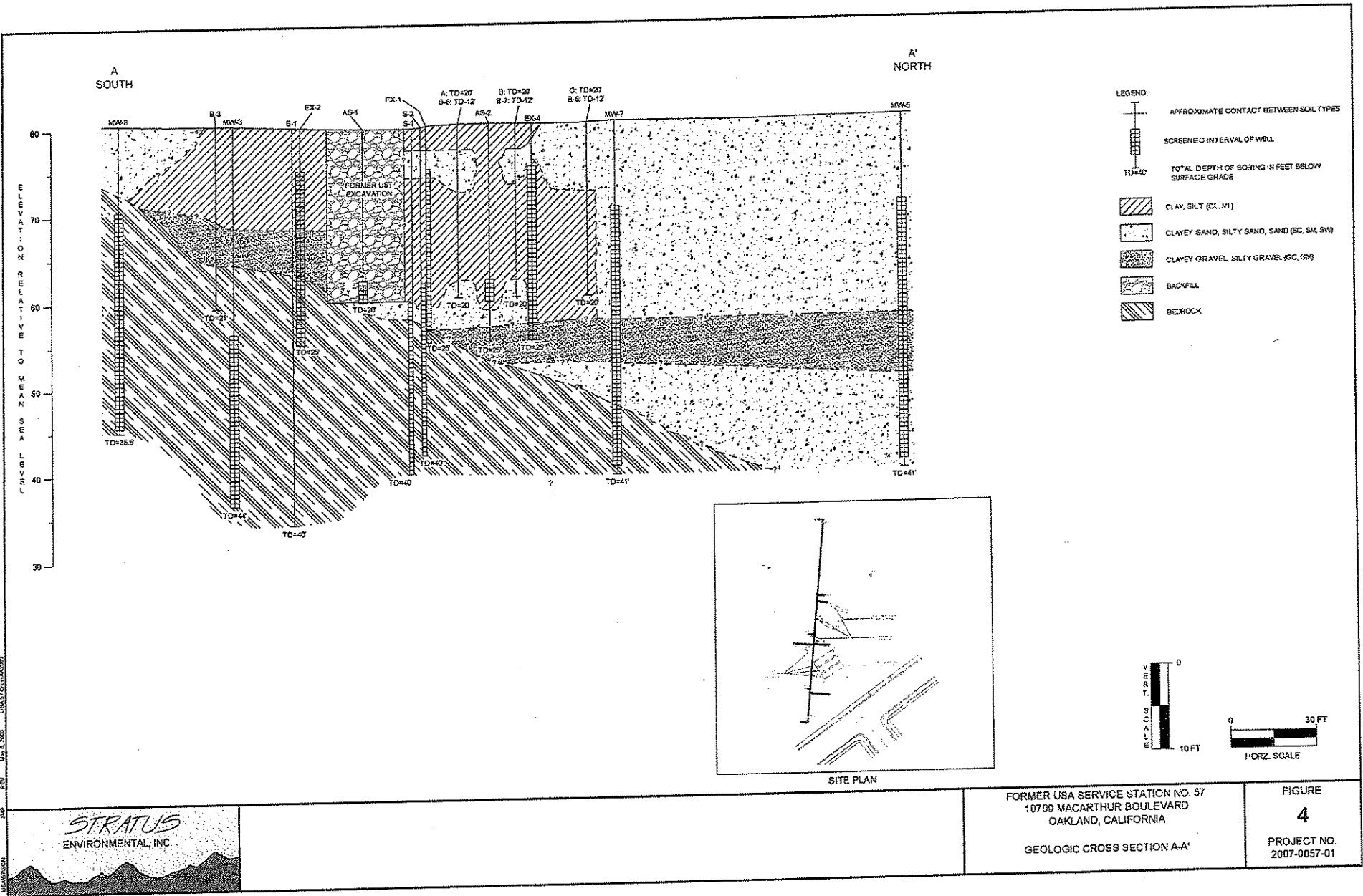
FORMER USA SERVICE STATION NO. 57
10700 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

SITE PLAN

FIGURE

3

PROJECT NO.
2007-0057-01

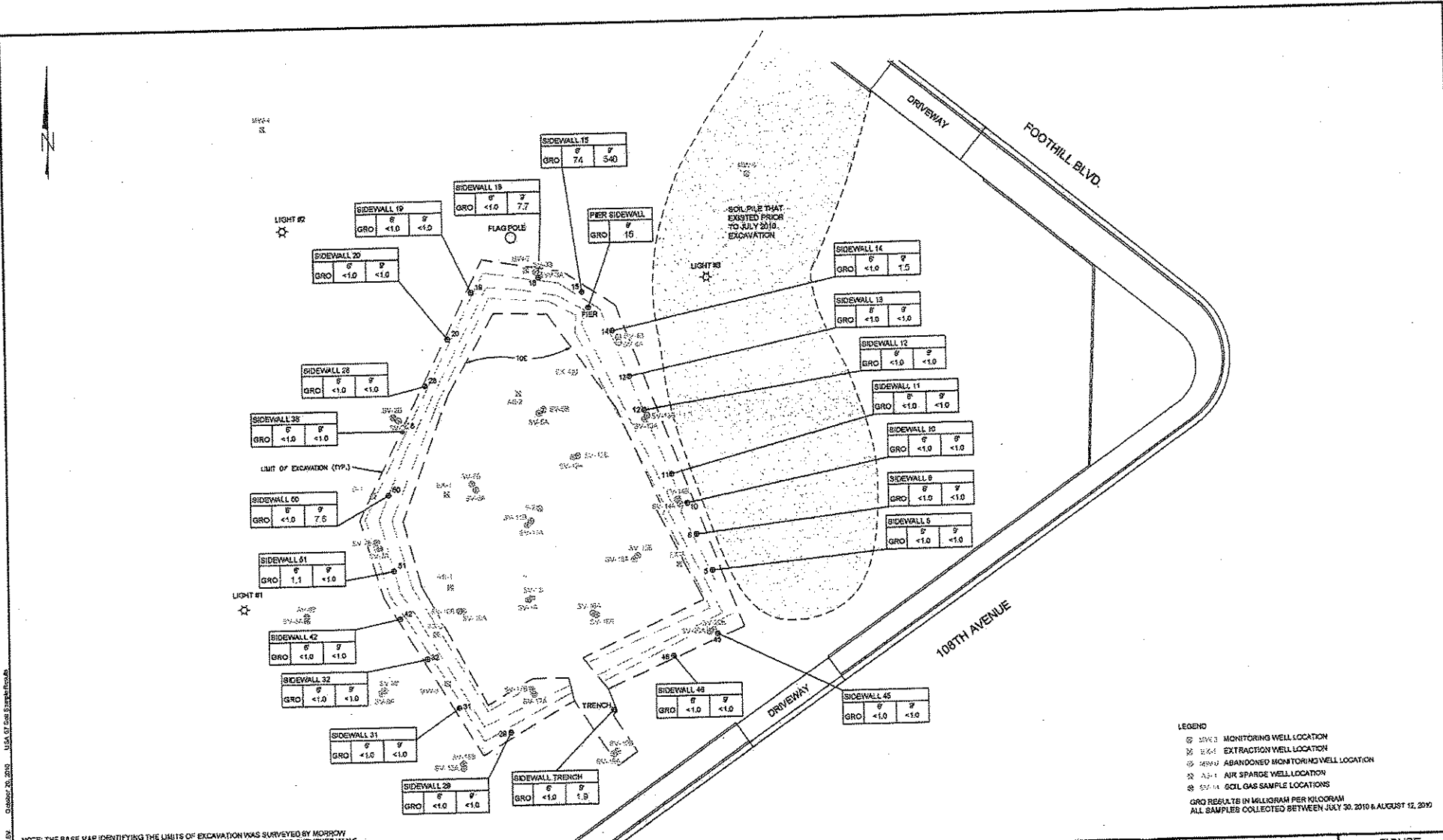


REV: 1/11/07 USA 11/27/06/0099
 1/11/07
 1/11/07

STRATUS
ENVIRONMENTAL, INC.

FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA
 GEOLOGIC CROSS SECTION A-A'

FIGURE
4
 PROJECT NO.
 2007-0057-01



NOTE: THE BASE MAP IDENTIFYING THE LIMITS OF EXCAVATION WAS SURVEYED BY MORROW SURVEYING, INC. SOME OF THE SOIL SAMPLE LOCATIONS SHOWN HERE WERE SURVEYED WHILE OTHERS ARE BASED ON FIELD MEASUREMENTS

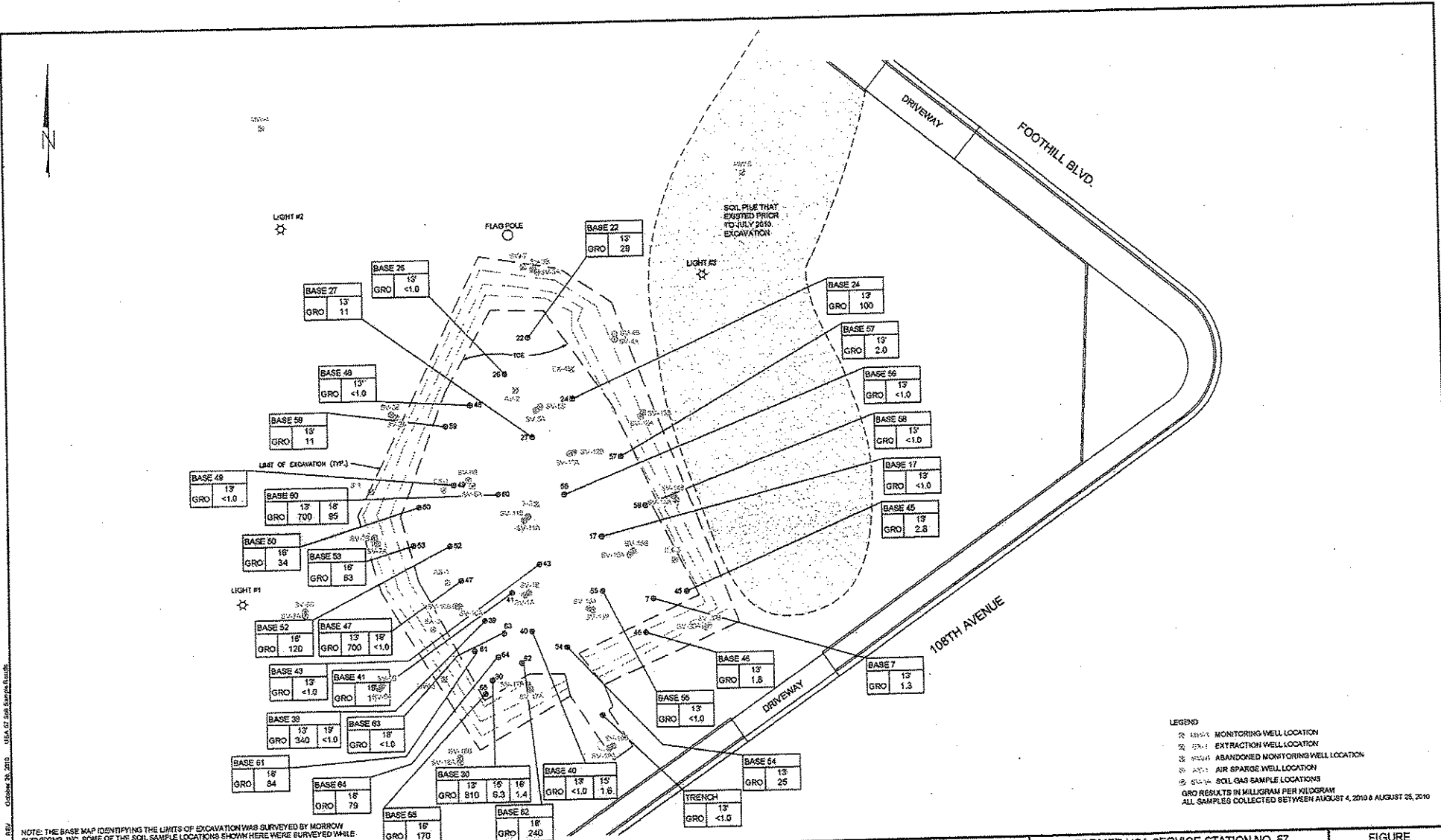


FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA
 GRO SUMMARY MAP - SIDEWALL SOIL SAMPLES

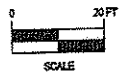
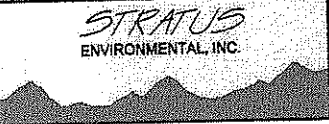
FIGURE
4
 PROJECT NO.
 2007-0057-01

LEGEND
 MW-1 MONITORING WELL LOCATION
 EX-1 EXTRACTION WELL LOCATION
 MW-2 ABANDONED MONITORING WELL LOCATION
 AW-1 AIR SPARGE WELL LOCATION
 SW-1 SOIL GAS SAMPLE LOCATIONS
 GRO RESULTS IN MILLIGRAM PER KILOGRAM
 ALL SAMPLES COLLECTED BETWEEN JULY 30, 2010 & AUGUST 12, 2010

ATTACHMENT 4

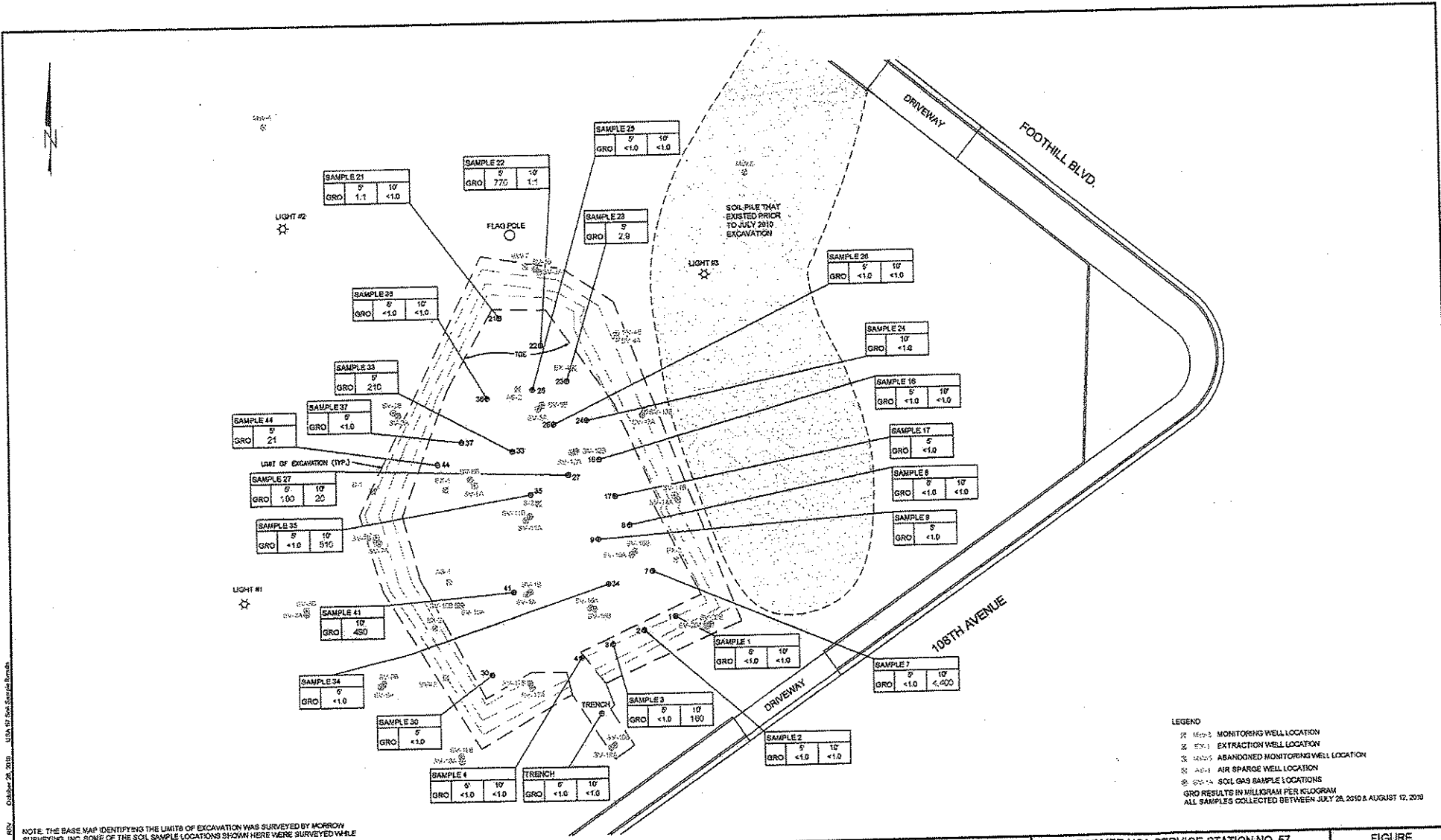


NOTE: THE BASE MAP IDENTIFYING THE LIMITS OF EXCAVATION WAS SURVEYED BY MORROW SURVEYING, INC. SOME OF THE SOIL SAMPLE LOCATIONS SHOWN HERE WERE SURVEYED WHILE OTHERS ARE BASED ON FIELD MEASUREMENTS



FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA
 GRO SUMMARY MAP - BASE SOIL SAMPLES

FIGURE
5
 PROJECT NO.
 2007-0057-01



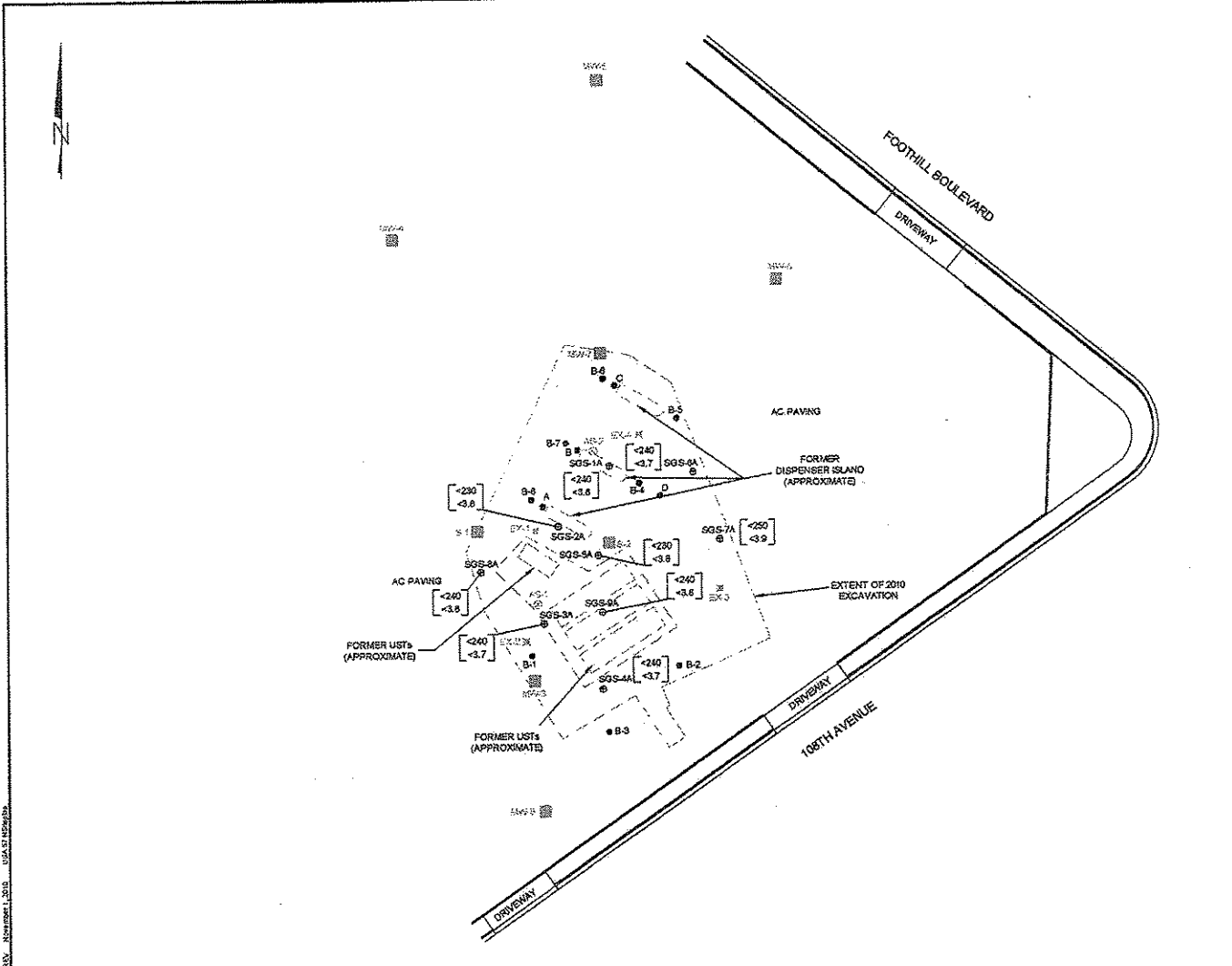
NOTE: THE BASE MAP IDENTIFIES THE LIMITS OF EXCAVATION WAS SURVEYED BY MORROW SURVEYING, INC. SOME OF THE SOIL SAMPLE LOCATIONS SHOWN HERE WERE SURVEYED WHILE OTHERS ARE BASED ON FIELD MEASUREMENTS

LEGEND
 MW-1 MONITORING WELL LOCATION
 EX-1 EXTRACTION WELL LOCATION
 MW-3 ABANDONED MONITORING WELL LOCATION
 AS-1 AIR SPARGE WELL LOCATION
 SG-1A SOIL GAS SAMPLE 1 LOCATIONS
 GRO RESULTS IN MILLIGRAM PER KILOGRAM
 ALL SAMPLES COLLECTED BETWEEN JULY 28, 2010 & AUGUST 12, 2010



FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA
 GRO SUMMARY MAP - ADDITIONAL SOIL SAMPLES

FIGURE
 6
 PROJECT NO.
 2007-0057-01



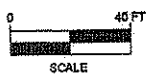
LEGEND

- 4426 ABANDONED MONITORING WELL LOCATION
- 49-1 ABANDONED AIR SPARGE WELL LOCATION
- EX-1 ABANDONED EXTRACTION WELL LOCATION
- B-1 APPROXIMATE SOIL BORING LOCATION
- SGS-1A POST-OVEREXCAVATION SOIL GAS SAMPLING BORING LOCATION
- [<math>< 240</math>] TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPHG) IN $\mu\text{g}/\text{m}^3$
- [<math>< 3.8</math>] BENZENE CONCENTRATION IN $\mu\text{g}/\text{m}^3$

COMMERCIAL ESL FOR TPHG IS 29,800 $\mu\text{g}/\text{m}^3$
 COMMERCIAL ESL FOR BENZENE IS 280 $\mu\text{g}/\text{m}^3$

NOTE: SOIL GAS SAMPLES COLLECTED ON OCTOBER 17 & 18, 2010
 CONCENTRATIONS REPORTED IN MICROGRAMS PER CUBIC METER ($\mu\text{g}/\text{m}^3$)

PREP. BY: November 1, 2010 USA-07-REV-002a



FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

TPHG AND BENZENE CONCENTRATIONS
 IN SOIL GAS, 5 ft bgs

FIGURE
3
 PROJECT NO.
 2007-0057-01

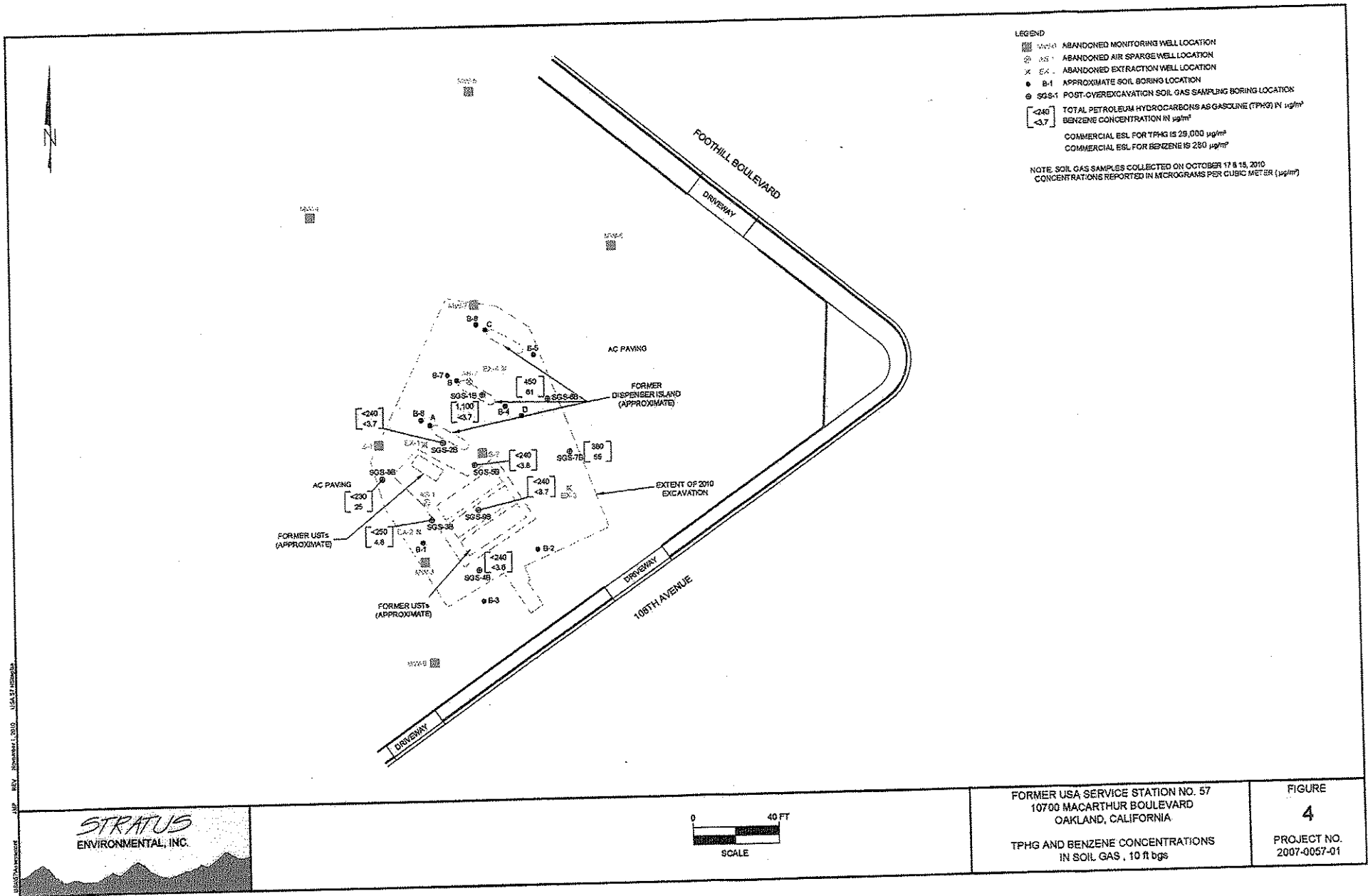


Table 1
Remediation Events Summary
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

Remed. Event No.	Event Dates	No. of Days	Event Type	Wells Used ¹	Soil Vapor			Groundwater			GRD Mass Removed, lbs		Highest		DTW Range, feet bgs	Comments
					Avg. Ext Rate, cfm	Total Extracted, cu.ft	GRO Concn. Range, mg/m ³	Avg. Ext Rate, gpm	Total Extracted, gallons	GRO Concn. Range, µg/L	Vapor	G.Water	Induced Vac ² , "WC	Draw-down ² , feet bgs		
1	07/08/04 to 07/25/04	19	DPE - individual wells & combined	S-1, S-2, & MW-3	87.28	2,396,726	<12 to 660	0.41	35,600	<50 to 2,200	13.34	0.015	1.3 @ S-1 (50' from nearest test well)	1.97 @ MW-8 (50' from nearest test well)	~ 11.5 to 21.5	Pilot test and mass removal event
2	06/08/05 to 07/01/05	25	DPE-combined	S-1, S-2, & MW-3	30.90	958,333	<15 to 160	1.12	34,340	<50 to 590	6.45	0.082	0.02 @ MW-6 (110' from nearest test well)	2.27 @ MW-8 (50' from nearest test well)	~ 8 to 16	Mass removal event
3	08/29/05 to 09/16/05	19	DPE-combined	S-1, S-2, MW-3, & MW-7	46.80	1,012,338	<15	2.45	54,730	<50 to 67	<0.5	0.014	0.00	2.33 @ MW-6 (50' from nearest test well)	~ 8.5 to 19	Mass removal event
4	02/20/06 to 03/24/06	32	DPE-combined	EX-1, EX-2, EX-3, & EX-4	33.04	1,321,116	98 to 690	0.40	13,340	130 to 3,800	25.68	0.157	3.15 @ MW-8 (60' from nearest test well)	1.88 @ MW-6 (75' from nearest test well)	~2 to 11 (EX wells) & ~11 to 15.5 (obs wells)	Mass removal event. EX-1 to EX-4 are test wells. S-1, S-2, MW-3, MW-4, MW-6, MW-7, & MW-8 are observation (Obs) wells
5	05/01/06 to 05/25/06	25	DPE-combined	EX-1, EX-2, EX-3, & EX-4	38.79	956,010	37 to 180	0.30	7,400	110 to 990	5.43	0.027	0.01 @ MW-8 (60' from nearest test well)	2.11 @ MW-3	~2 to 8 (EX-wells) & ~8 to 12 (Obs wells)	Mass removal event. EX-1 to EX-4 are test wells. S-1, S-2, MW-3, MW-4, MW-6, MW-7, & MW-8 are observation (Obs) wells
6	07/17/06 to 08/10/06	24	DPE-combined	EX-1, EX-2, EX-3, & EX-4	96.05	3,326,861	80 to 370	0.06	1,990	150 to 900	47.63	0.007	0.00	1.85 @ MW-3 (15' from nearest test well)	~10 to 14.5 (Obs wells)	Mass removal event. EX-1 to EX-4 are test wells. S-1, S-2, MW-3, MW-4, MW-6, MW-7, & MW-8 are observation (Obs) wells
7	09/04/07 to 11/14/07	70	DPE-combined with Air Sparging	EX-1, EX-2, EX-3, EX-4, AS-1 & AS-2	111.31	5,205,946	77 to 1,800	0.03	1,570	51 to 470	693.83	0.002	-	4.14 @ MW-8 (60' from nearest test well)	~10 to 13 (EX-wells) & ~15 to 24 (Obs wells)	Mass removal event. EX-1 to EX-4 are test wells. S-1, S-2, MW-3, MW-4, MW-6, MW-7, & MW-8 are observation (Obs) wells. Air sparging at AS-1 & AS-2
Total					NA	15,177,330	NA	NA	148,970	NA	792.35	0.305	NA	NA	NA	

Notes:

Remed. - Remediation	Ext - Extraction	mg/m ³ - milligrams per cubic meter	lbs - Pounds	EX-wells - Extraction wells
No. - Number	cfm - cubic feet per minute	gpm - gallons per minute	G.Water - Groundwater water	Obs wells - Observation wells
DPE - Dual phase extraction	cu. ft - cubic feet	µg/L - micrograms per litre	"wc - inches water column	NA - Not applicable
Avg - Average	Concn. - Concentration	GRO - Gasoline range organics	bgs - Below ground surface	

¹ Wells S-1 & S-2 are screened from 20 to 40 feet bgs, well MW-3 is screened from 24 to 44 feet bgs, well MW-7 is screened from 10 to 40 feet bgs, wells EX-1 to EX-4 are screened from 6 to 25 feet bgs, and wells AS-1 & AS-2 are screened from 17.5 to 20 feet bgs.

² Highest induced vacuum and drawdown measurements are at observation wells (non-extracting wells)

Table 4
Summary of Hydrocarbons Removed
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

Depth (ft bgs)	Soil Volume (yds ³) ^[a]	Soil Mass (tons) ^[b]	Average GRO Concentration (mg/Kg)	Estimated GRO Mass Removed (lbs) ^[c]
0 - 5	1,827.20	3,256.07	52.93	344.66
>5 - 10	1,827.20	3,256.07	328.95	2,142.15
>10 - Base (15-19)	224.20	399.52	98.76	78.92
Total	3,878.60	6,911.67	NA	2,565.73

Notes:

ft bgs - feet below ground surface
yds³ - cubic yards
mg/Kg - milligrams per kilogram
GRO - gasoline range organics
lbs - pounds

- a. Soil volume was calculated based on the limits of excavation identified in the survey map. The outside limits of the excavation were used to calculate the soil volume.
- b. Soil volume was converted to soil mass assuming the soil density to be approximately 132 lbs/ft³. Sample calculation is illustrated below:
 $1827.20 \text{ yds}^3 * 27 \text{ ft}^3/\text{yds}^3 * 132 \text{ lbs}/\text{ft}^3 * \text{ton}/2000 \text{ lbs} = 105.06 \text{ tons}$
The soil density for the native soil was 115 lbs/ft³ (laboratory tests by Geosphere). Based on tonnage reports provided by landfills and the soil volume calculations from the surveyed map, the soil density was calculated to be approximately 149 lbs/ft³. Hence, an average (132 lbs/ft³) of these densities were used in the calculations for soil mass here.
- c. Average GRO concentration was calculated based on the results of soil samples collected at 5 ft bgs, 10 feet bgs, and the base of excavation (13 to 19 feet bgs). These average concentrations were then used to estimate the GRO mass removed.
Sample calculation is illustrated below:
 $52.93 \text{ mg}/\text{Kg} * \text{Kg}/2.2\text{lbs} * 135 \text{ lbs}/\text{ft}^3 * 1827.20 \text{ yds}^3 * 27 \text{ ft}^3/\text{yd}^3 * 2.2 * 10^{-6} \text{ lbs}/\text{mg} = 300.27 \text{ lbs}$



TABLE OF RESULTS

Parts per Million
(dry soil basis)

ND = None Detected

<u>Laboratory Number</u>	<u>Sample Identification</u>	<u>Date Received</u>	<u>Total Hydrocarbons</u>
	Project 100-22.01, Oakland		
S7-02-076-01	A 13.5-15'	2/17/87	16.
S7-02-076-02	B 18.5-20'	2/17/87	4.
S7-02-076-03	C 18.5-20'	2/17/87	ND.
S7-02-076-04	D 9-10.5'	2/17/87	2.
S7-02-076-05	S-1 19-20.5'	2/17/87	42.
S7-02-076-06	S-1 19-20.5'	2/17/87	16.
S7-02-076-07	S-2 24-25.5'	2/17/87	600.
S7-02-076-09	Fill Box	2/17/87	410.
	Detection Limit		2.

TABLE 4

SOIL ANALYTICAL DATA
 FORMER USA STATION #57
 10700 MacARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

Well ID	Date	Depth (feet)	TPH G (ppm)	TPH D (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl- benzene (ppm)	Total Xylene (ppm)
S-1	02/12/87	20.5	42	-	-	-	-	-
		20.5	16	-	-	-	-	-
S-2	02/12/87	24.5	600	-	-	-	-	-
B-1	02/28/95	5.5	ND	-	ND	ND	ND	ND
		9.5	44	-	0.12	ND	0.14	0.4
		13.0	540	55	2.6	10	7.5	48
		20.0	ND	-	0.012	0.016	ND	0.029
		25.0	3.9	-	0.048	0.14	0.062	0.37
		31.0	ND	-	ND	0.011	0.0057	0.045
		35.0	ND	-	0.014	0.018	0.012	0.079
		40.5	ND	ND	ND	ND	ND	ND
B-2	03/01/95	5.0	ND	-	ND	ND	ND	ND
		10.5	ND	-	ND	ND	ND	ND
		16.0	16	-	0.057	0.028	0.029	1.2
		21.0	110	-	0.96	0.41	0.33	1.5
		26.0	240	22	0.76	1.4	0.85	1.9
B-3	03/01/95	11.0	ND	-	ND	ND	ND	ND
		15.5	10	-	0.044	0.11	0.079	0.63
		20.5	15	1.3	0.041	0.37	0.15	1.1
B-4	03/02/95	3.0	ND	-	ND	ND	ND	ND
		6.0	ND	-	ND	ND	ND	ND
		12.0	ND	ND	ND	ND	ND	ND
B-5	03/02/95	5.5	ND	-	ND	ND	ND	ND
		12.0	ND	ND	ND	ND	ND	ND
B-6	03/02/95	4.0	33	5.3	0.093	0.065	0.33	2.0
		5.5	2.6	-	0.062	ND	0.030	0.047
		12.0	ND	-	ND	ND	ND	0.022

TABLE 4 (Continued)

SOIL ANALYTICAL DATA
FORMER USA STATION #57
10700 MacARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Well ID	Date	Depth (feet)	TPH G (ppm)	TPH D (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl- benzene (ppm)	Total Xylene (ppm)
B-7	03/02/95	3.5	ND	ND	ND	ND	ND	ND
		5.0	ND	-	ND	ND	ND	ND
		12.0	ND	-	ND	ND	ND	ND
B-8	03/02/95	3.0	17	-	0.012	0.021	0.12	0.16
		5.5	ND	ND	0.019	ND	0.050	ND
		12.0	2.0	-	0.042	ND	ND	0.016
MW-3	02/28/95	5.5	ND	-	ND	ND	ND	ND
		11.5	1.9	-	0.026	0.011	0.0061	0.019
		13.5	240	12	0.41	0.64	2.0	5.4
		15.5	110	-	0.37	3.8	1.5	10
		21.5	3.0	-	0.26	0.24	0.059	0.50
		24.5	ND	-	0.030	0.0069	0.0056	0.016
		29.5	ND	-	ND	0.0054	ND	0.0092
39.5	ND	-	ND	ND	ND	ND		
MW-4	11/21/95	10.0	ND	5.0	ND	ND	ND	ND
MW-5	11/21/95	10.0	ND	5.2	ND	ND	ND	ND
		15.0	ND	4.2	ND	ND	ND	ND
MW-6	11/21/95	10.0	ND	4.4	ND	ND	ND	ND
MW-7	11/21/95	10.0	ND	4.7	ND	ND	ND	ND
		15.0	ND	4.3	ND	ND	ND	ND
		20.0	25	8.7	0.071	0.11	0.043	0.1
MW-8	11/21/95	10.0	ND	5.5	ND	ND	ND	ND
		15.0	ND	5.1	ND	ND	ND	ND
		20.0	ND	4.5	ND	ND	ND	ND

TPH G

Total petroleum hydrocarbons in the gasoline range

TPH D

Total petroleum hydrocarbons in the diesel range

ppm

Parts per million

ND

Not detected at the method detection limit

Not measured/not analyzed

Boring locations are presented in Alton Geo Sciences' "Supplementary Site Assessment Report" which are included in Appendix C.

TABLE 5

SOIL ANALYTICAL DATA - TANK REMOVAL
FORMER USA STATION #57
10700 MacARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Sample Location	Sample ID	Date	Depth (feet)	TPH G (ppm)	TPH D (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylene (ppm)	TTL Lead (ppm)
Product Trench	PI-E-3.5	07/19/94	3.5	ND(0.2)	ND(1.0)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	7
	PI-2	07/19/94	3.5	4,500	ND(50)	ND(1.0)	6	60	440	4
	PI-3	07/19/94	3.5	ND(0.2)	ND(1.0)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	5
	PI-4	07/19/94	4	ND(0.2)	ND(1.0)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	6
	PI-5	07/19/94	3.5	ND(1.0)	ND(1.0)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	7
	PI2-0	09/19/94	9	15	-	0.02	0.04	0.07	0.19	-
Tank Field	TP1	07/19/94	12.5	-	60	ND(0.005)	0.015	0.007	0.008	-
	TP2	07/19/94	12.5	-	230	ND(1.0)	0.79	2.2	0.7	-
	TP3	07/19/94	13	94	-	0.18	0.25	1	5.9	3
	TP4	07/19/94	13	1400	-	1.9	3.5	12	150	4
	TP5	07/19/94	13	300	-	ND(0.5)	0.74	4.8	20	3
	TP6	07/19/94	13	0.7	-	ND(0.005)	ND(0.005)	0.006	ND(0.005)	3
	TP7	07/19/94	13	ND(0.2)	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	3
Tank Cavity	TC-1	08/19/94	16	ND(0.2)	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
	TC-2	08/19/94	16	93	-	ND(1.0)	0.28	0.63	3.1	-
	TC-3	08/19/94	17.5	2.4	1	0.008	0.02	0.02	0.11	-
	TC-4	08/19/94	15.5	0.7	2	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
	TC-5	08/19/94	17	190	-	0.17	0.38	0.99	7.9	-
	TC-6	08/19/94	18	ND(0.2)	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
	SM-1	08/19/94	19.5	0.4	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
	TC2-1	09/27/94	417	ND(0.2)	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
	TC2-2	09/27/94	13	13	-	0.06	0.019	0.026	ND(0.005)	-
	TC2-3	09/27/94	16	ND(0.2)	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
	TC2-4	09/27/94	13	ND(0.2)	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
	TC2-5	09/27/94	12	100	200	0.13	0.12	0.1	0.26	-
	TC2-7	09/27/94	13	6.3	37	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
	TC2-8	09/27/94	13	ND(1.0)	16	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
	TC2-9	09/27/94	19	0.4	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
	TC2-11	09/27/94	13	2200	-	9.6	21	40	260	-
	TC2-12	09/27/94	12	130	-	0.33	0.29	0.66	7.9	-
	TC2-13	09/27/94	20	620	-	1.1	4.9	6.4	66	-
	TC2-14	09/27/94	11	92	-	0.096	0.1	0.17	1.7	-
	TC2-15	09/27/94	17	ND(0.2)	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
TC2-16	09/27/94	14	ND(1.0)	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-	
(Alton)	TC3-3	10/94	12-13	300	330	-	-	-	-	-
(Alton)	TC3-4	10/94	12-13	510	ND	-	-	-	-	-
(Alton)	TCE-5	10/94	12-13	2400	ND	-	-	-	-	-
(Alton)	TC3-6	10/94	12-13	940	ND	-	-	-	-	-
Dispenser Island	DI-1	09/27/94	3.5	720	-	0.19	2	9	53	-
	DI-2	09/27/94	3.5	280	-	0.12	0.8	4.6	33	-
	DI-3	09/27/94	3	ND(0.2)	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	-
	DI-4	09/27/94	3	590	-	0.7	2.5	13	81	-
	DI-5	09/27/94	3.5	570	-	0.1	1.5	2.7	17	-
	DI-6	09/27/94	3.5	1800	-	0.72	5.2	31	180	-

SOIL SAMPLES BY WESTERN GEO-ENGINEERS UNLESS OTHERWISE NOTED

TPH G Total petroleum hydrocarbons in the gasoline range

TPH D Total petroleum hydrocarbons in the diesel range

ppm Parts per million

ND Not detected at the method detection limit

- Not measured/not analyzed

TABLE 2
SOIL ANALYTICAL RESULTS
FORMER USA GASOLINE STATION 57
10700 MACARTHUR BOULEVARD, OAKLAND, CA

Sample ID	Sample Depth (feet bgs)	Date Collected	TPHG (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	1,2-DCA (mg/Kg)
Boring EX-1													
EX-1-11	11	10/6/05	23	<0.005	<0.005	<0.005	<0.005	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-1-16	16	10/6/05	100	<0.020*	<0.020*	<0.020*	0.034	<0.020*	<2.0*	<0.040*	<0.040*	<0.040*	<0.040*
EX-1-21	21	10/6/05	120	0.018	<0.010*	0.34	0.79	0.033	<1.0*	<0.020	<0.020	<0.020	<0.020
Boring EX-2													
EX-2-11	11	10/7/05	6	<0.005	<0.005	<0.005	0.0113	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
Boring EX-3													
EX-3-11	11	10/6/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-3-15.5	15.5	10/6/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-3-20.5	20.5	10/6/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
Boring EX-4													
EX-4-6	6	10/6/05	1.4	0.020	<0.005	0.013	<0.005	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-4-11	11	10/6/05	26	0.064	0.015	0.067	0.56	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-4-16.5	16.5	10/6/05	510	1.1	3.6	2.2	43	<0.20*	<20*	<0.40*	<0.40*	<0.40*	<0.40*
EX-4-21	21	10/6/05	<1.0	0.068	<0.005	0.013	0.029	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-4-25.5	25.5	10/6/05	18	<0.005	<0.005	0.008	0.178	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020

TABLE 2
 SOIL ANALYTICAL RESULTS
 FORMER USA GASOLINE STATION 57
 10700 MACARTHUR BOULEVARD, OAKLAND, CA

Sample ID	Sample Depth (feet bgs)	Date Collected	TPHG (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	1,2-DCA (mg/Kg)
<u>Explanation</u>			<u>Analytical Methods</u>										
TPHG = Total petroleum hydrocarbons as gasoline			TPHG analyzed using EPA Method SW8015B/DHS LUFT Manual										
BTEX = Benzene, toluene, ethylbenzene, and xylenes			BTEX, MTBE, TBA, DIPE, ETBE, TAME, and 1,2-DCA analyzed using EPA Method SW8260B										
MTBE = Methyl tertiary butyl ether			<u>Analytical Laboratory</u>										
TBA = Tertiary butyl alcohol			Alpha Analytical, Inc. (ELAP #2019)										
DIPE = Di-isopropyl ether													
ETBE = Ethyl tertiary butyl ether													
TAME = Tertiary amyl methyl ether													
1,2-DCA = 1,2-Dichloroethane													
bgs = below ground surface													
mg/Kg = milligrams per kilogram													
* = Reporting limits increased due to high concentrations of target analytes													

TABLE 2
SOIL ANALYTICAL RESULTS
FORMER USA GASOLINE STATION 57
10700 MACARTHUR BOULEVARD, OAKLAND, CA

Sample ID	Sample Depth (feet bgs)	Date Collected	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)
Boring AS-1												
AS-1-11 Ft.	11	8/23/07	80	<0.02*	<0.02*	0.057	0.041	<0.02*	<2.0*	<0.04*	<0.04*	<0.04*
AS-1-16 Ft.	16	8/23/07	500	<0.2*	<0.2*	8.8	1.72	<0.2*	<20*	<0.4*	<0.4*	<0.4*
Boring AS-2												
AS-2-16 Ft.	16	8/23/07	1.6	0.0058	<0.005	<0.005	<0.005	<0.005	<0.50	<0.020	<0.020	<0.020
AS-2-21 Ft.	21	8/23/07	19	0.67	0.018	0.43	1.31	<0.01*	<1.0*	<0.02*	<0.02*	<0.02*
AS-2-26 Ft.	26	8/23/07	1.3	0.16	<0.005	0.029	0.031	<0.005	<0.50	<0.020	<0.020	<0.020
Explanation						Analytical Methods						
GRO = Gasoline range organics						GRO analyzed using EPA Method SW8015B/DHS LUFT Manual						
BTEX = Benzene, toluene, ethylbenzene, and xylenes						BTEX, MTBE, TBA, DIPE, ETBE, and TAME analyzed using EPA Method SW8260B						
MTBE = Methyl tertiary butyl ether												
TBA = Tertiary butyl alcohol						Analytical Laboratory						
DIPE = Di-isopropyl ether						Alpha Analytical, Inc. (ELAP #2019)						
ETBE = Ethyl tertiary butyl ether												
TAME = Tertiary amyl methyl ether												
bgs = below ground surface												
mg/Kg = milligrams per kilogram												
* = Reporting limits increased due to high concentrations of target analytes												

Table 2
Analytical Summary - Excavation Soil Samples
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

Sample ID	Depth	Date	TPHG/ GRO	Benzene	Toluene	Ethylben- zene	Total Xylenes	TBA	MTBE	DIPE	ETBE	TAME	Comments
			mg/Kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
Sidewall Samples													
Sidewall 5-6'	6'	7/30/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 5-9'	9'	7/30/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 6-6'	6'	7/30/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 6-9'	9'	7/30/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 10-6'	6'	8/2/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 10-9'	9'	8/2/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 11-6'	6'	8/2/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 11-9'	9'	8/2/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 12-6'	6'	8/2/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 12-9'	9'	8/2/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 13-6'	6'	8/2/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 13-9'	9'	8/2/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 14-6'	6'	8/2/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 14-9'	9'	8/2/10	1.5	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 15-6'	6'	8/2/10	74	<5.0	<5.0	190	1,230	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 15-9'	9'	8/2/10	540	<5.0	<5.0	3,300	21,800	<50	<5.0	<5.0	<5.0	<5.0	Over-ex & sampled Pier
Pier Sidewall		8/16/10	15	<5	<5	9.5	10	<500	<5.0	<20	<20	<20	Sample after over-ex around 15-9'
Sidewall 18-6'	6'	8/3/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 18-9'	9'	8/3/10	7.7	<5.0	<5.0	130	166	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 19-6'	6'	8/3/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 19-9'	9'	8/3/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 20-6'	6'	8/4/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 20-9'	9'	8/4/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 28-6'	6'	8/5/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 28-9'	9'	8/5/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 29-6'	6'	8/9/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 29-9'	9'	8/9/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 31-6'	6'	8/9/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 31-9'	9'	8/9/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 32-6'	6'	8/9/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 32-9'	9'	8/9/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 38-6'	6'	8/10/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	



Table 2
Analytical Summary - Excavation Soil Samples
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

Sample ID	Depth	Date	TPHG/ GRO	Benzene	Toluene	Ethylben zene	Total Xylenes	TBA	MTBE	DIPE	ETBE	TAME	Comments
			mg/Kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
Sidewall 38-9'	9'	8/11/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 42-6'	6'	8/10/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 42-9'	9'	8/10/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 45-6'	6'	8/11/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 45-9'	9'	8/11/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 46-6'	6'	8/11/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 46-9'	9'	8/11/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 50-6'	6'	8/12/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 50-9'	9'	8/12/10	7.6	15	81	44	290	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 51-6'	6'	8/12/10	1.1	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Sidewall 51-9'	9'	8/12/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Trench Sidewall-6'	6'	8/11/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Trench Sidewall-9'	9'	8/11/10	1.9	<5.0	<5.0	<5.0	24	<50	<5.0	<5.0	<5.0	<5.0	
Base Samples													
7B	13'	8/6/10	1.3	<5.0	<5.0	7.3	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
17B	13'	8/4/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
22B	13'	8/4/10	29	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
24B	13'	8/4/10	100	110	<5.0	960	2480	<50	<5.0	<5.0	<5.0	<5.0	
26B	13'	8/4/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
27B	13'	8/5/10	11	8.9	<5.0	49	291	<50	350	<5.0	<5.0	<5.0	
30B	13'	8/10/10	810	<5.0	<5.0	3,500	34,000	<50	<5.0	<5.0	<5.0	<5.0	Over-ex and sampled at 30-15'-B
30-15'-B	15'	8/13/10	6.3	9.2	6.9	12	100	<50	<5.0	<5.0	<5.0	<5.0	
30-18ft. B	18'	8/25/10	1.4	96	<5.0	30	21	<500	<5.0	<20	<20	<20	
39B	13'	8/10/10	340	<5.0	<5.0	2,100	6,000	<50	<5.0	<5.0	<5.0	<5.0	Over-ex and sampled B39-19 B
39-19ft. B	19'	8/24/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
40B	13'	8/10/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	Over-ex and sampled at 40-15'-B
40-15'-B	15'	8/13/10	1.6	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
43B	13'	8/10/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
45B	13'	8/11/10	2.8	<5.0	<5.0	10	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
46B	13'	8/11/10	1.8	<5.0	<5.0	10	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
47B	13'	8/11/10	700	<5.0	<5.0	11,000	4,500	<50	<5.0	<5.0	<5.0	<5.0	Over-ex and sampled at 47-19'-B
47-19'-B	19'	8/13/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	

Table 2
Analytical Summary - Excavation Soil Samples
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

Sample ID	Depth	Date	TPHG/ GRO	Benzene	Toluene	Ethylben zene	Total Xylenes	TBA	MTBE	DIPE	ETBE	TAME	Comments
			mg/Kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
48B	13'	8/11/10	1.7	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
49B	13'	8/12/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	16	<5.0	<5.0	<5.0	
50-16ft. B	16'	8/16/10	34	<10	<10	<10	<10	<1,000	<10	<20	<20	<20	
52-16ft. B	16'	8/16/10	120	<20	<20	<20	<20	<2,000	<20	<40	<40	<40	
53-16ft. B	16'	8/16/10	63	<20	<20	<20	<20	<2,000	<20	<40	<40	<40	
41-19ft. B	19'	8/18/10	14	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
54-13ft. B	13'	8/23/10	25	<10	<10	<10	231	<1,000	<10	<20	<20	<20	
55-13ft. B	13'	8/23/10	<1.0	<5.0	<5.0	5.1	13	<500	<5.0	<20	<20	<20	
56-13ft. B	13'	8/23/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
57-13ft. B	13'	8/23/10	2.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
58-13ft. B	13'	8/23/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
59-13ft. B	13'	8/24/10	11	960	30	180	720	<1,000	14	<20	<20	<20	
60-13ft. B	13'	8/24/10	700	7,400	520	10,000	47,100	<40,000	<400	<800	<800	<800	
61-18ft. B	18'	8/25/10	84	100	<25[1]	410	360	<2,500[1]	<25[1]	<50[1]	<50[1]	<50[1]	
62-18ft. B	18'	8/25/10	240	360	3,000	3,100	21,500	<10,000[1]	<100[1]	<200[1]	<200[1]	<200[1]	
63-18ft. B	18'	8/25/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
60-18ft. B	18'	8/25/10	95	540	<50[1]	130	<50[1]	<5.0[1]	<50[1]	<100[1]	<100[1]	<100[1]	
64-18ft. B	18'	8/25/10	79	65	<25[1]	740	3,060	<2,500[1]	<25[1]	<50[1]	<50[1]	<50[1]	
65-18ft. B	18'	8/25/10	170	270	1,200	1,800	13,200	<5,000[1]	<50[1]	<100[1]	<100[1]	<100[1]	
Trench-13'	13'	7/29/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
Additional Samples-Used to Estimated Mass of Petroleum Hydrocarbons Removed													
1-5'	5'	7/28/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
1-10'	10'	7/28/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
2-5'	5'	7/28/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
2-10'	10'	7/29/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
3-5ft.	5'	7/29/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
3-10ft.	10'	7/29/10	160	<25[1]	<25[1]	46	230	<2,500[1]	<25[1]	<50[1]	<50[1]	<50[1]	
4-5'	5'	7/29/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
4-10'	10'	7/29/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
7-5'	5'	7/30/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
7-10'	10'	8/6/10	4,400	710	<5.0	25,000	123,500	<50	<5.0	<5.0	<5.0	<5.0	
8-5'	5'	7/30/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
8-10ft.	10'	8/5/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	



Table 2
Analytical Summary - Excavation Soil Samples
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

Sample ID	Depth	Date	TPHG/ GRO	Benzene	Toluene	Ethylben- zene	Total Xylenes	TBA	MTBE	DIPE	ETBE	TAME	Comments
			mg/Kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
9-5ft.	5'	7/30/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
16-5ft.	5'	8/3/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
16-10'	10'	8/5/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
17-5'	5'	8/3/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
21-5ft.	5'	8/4/10	1.1	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
21-10ft.	10'	8/4/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
22-5'	5'	8/4/10	770	<5.0	880	7,400	39,000	<50	<5.0	<5.0	<5.0	<5.0	
22-10'	10'	8/4/10	1.1	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
23-5'	5'	8/4/10	2.9	<5.0	<5.0	5.1	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
24-10'	10'	8/4/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
25-5ft.	5'	8/4/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
25-10ft.	10'	8/4/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	16	<5.0	<5.0	<5.0	
26-5'	5'	8/4/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
26-10ft.	10'	8/4/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
27-5'	5'	8/5/10	190	<5.0	<5.0	1,200	2,100	<50	170	<5.0	<5.0	<5.0	
27-10'	10'	8/5/10	20	23	<5.0	84	120	<50	650	<5.0	<5.0	<5.0	
30-5'	5'	8/9/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
33-5'	5'	8/9/10	210	170	<5.0	1,000	9,000	<50	220	<5.0	<5.0	<5.0	
34-5'	5'	8/9/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
35-5'	5'	8/9/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	160	<5.0	<5.0	<5.0	
35-10'	10'	8/10/10	510	830	560	3,600	33,700	<50	<5.0	<5.0	<5.0	<5.0	
36-5'	5'	8/9/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	300	<5.0	<5.0	<5.0	
36-10'	10'	8/10/10	<1.0	15	5.5	<5.0	22.7	<50	94	<5.0	<5.0	<5.0	
37-5'	5'	8/12/10	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
41-10'	10'	8/10/10	490	<5.0	<5.0	2,000	<5.0	<50	<5.0	<5.0	<5.0	<5.0	
44-5'	5'	8/11/10	21	<5.0	<5.0	<5.0	780	<50	<5.0	<5.0	<5.0	<5.0	
Trench-5ft.	5'	7/29/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	
Trench-10ft.	10'	7/29/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	

Note:
TPHG: Total Petroleum Hydrocarbon as Gasoline
GRO: Gasoline Range Organics
TBA: Tertiary Butyl Alcohol
MTBE: Methyl Tert-Butyl Ether
DIPE: Di-Isopropyl Ether
ETBE: Ethyl Tertiary Butyl Ether
TAME: Tertiary Amyl Methyl Ether

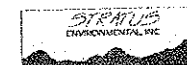


Table 3
Analytical Summary - Composite Soil Samples
 Former USA Service Station No. 57
 10700 MacArthur Boulevard
 Oakland, California

Sample ID	Date Collected	TPHG	Benzene	Toluene	Ethylbenzene	Total Xylenes	TBA	MTBE	DIPE	ETBE	TAME	Lead
		mg/Kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Composite 1	7/28/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	3,400
Composite 2	7/28/10	1,200	<200	<200	3,000	25,100	<20,000	<200	<400	<400	<400	5,200
Composite 3	7/29/10	12	<5.0	<5.0	17	106	<500	<5.0	<20	<20	<20	4,300
CSP-1	7/30/10	<1.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	4,200
CSP-2	7/30/10	11	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<20	<20	<20	5,100
DSP-1	7/30/10	<1.0	<5.0	<5.0	<5.0	6.4	<500	<5.0	<20	<20	<20	6,200
DSP-2	7/30/10	10	<5.0	<5.0	15	107	<500	<5.0	<20	<20	<20	5,400
Dirty Comp 1	8/5/10	5.2	<5.0	<5.0	<5.0	32.5	<500	<5.0	<20	<20	<20	4,900
DCMP10	8/10/10	19	5	24	78	400	<500	13	<20	<20	<20	3,500

Note:

TPHG: Total Petroleum Hydrocarbon as Gasoline
 TBA: Tertiary Butyl Alcohol
 MTBE: Methyl Tert-Butyl Ether
 DIPE: Di-Isopropyl Ether
 ETBE: Ethyl Tertiary Butyl Ether
 TAME: Tertiary Amyl Methyl Ether

mg/Kg: milligrams per kilogram
 µg/Kg: micrograms per kilogram

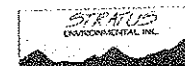


TABLE 1
SOIL GAS ANALYTICAL RESULTS
Former USA Station No. 57
10700 MacArthur Boulevard, Oakland, California

Sample ID	Sample Depth (feet bgs)	Date	TPHg ($\mu\text{g}/\text{m}^3$)	Benzene ($\mu\text{g}/\text{m}^3$)	Toluene ($\mu\text{g}/\text{m}^3$)	Ethylbenzene ($\mu\text{g}/\text{m}^3$)	Total Xylenes ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	Naphthalene ($\mu\text{g}/\text{m}^3$)	1,1-DFA ($\mu\text{g}/\text{m}^3$)
Environmental Screening Level (ESL)¹ (commercial property)			29,000	280	180,000	3,300	58,000	31,000	240	-----
SGS-1A	5	10/17/10	<240	<3.8	<4.5	<5.2	<5.2	<4.3	<25	<13
SGS-1B	10	10/17/10	1,100	<3.7	<4.4	<5.0	<5.0	<4.2	<24	<12
SGS-2A	5	10/17/10	<230	<3.6	4.8	<5.0	<5.0	<4.1	<24	140
SGS-2B	10	10/17/10	<240	<3.7	<4.4	<5.0	<5.0	<4.2	<24	<12
SGS-3A	5	10/18/10	<240	<3.7	<4.4	<5.0	<5.0	<4.2	<24	<12
SGS-3B	10	10/18/10	<250	4.8	4.6	<5.2	<5.2	<4.4	<25	<13
SGS-4A	5	10/18/10	<240	<3.7	<4.4	<5.0	<5.0	<4.2	<24	<12
SGS-4B	10	10/18/10	<240	<3.8	<4.5	<5.2	<5.2	<4.3	<25	<13
SGS-5A	5	10/18/10	<230	<3.6	<4.3	<5.0	<5.0	<4.1	<24	<12
SGS-5B	10	10/18/10	<240	<3.8	<4.5	<5.2	<5.2	<4.3	<25	<13
SGS-6A	5	10/17/10	<240	<3.7	<4.4	<5.0	<5.0	<4.2	<24	29
SGS-6B	10	10/18/10	450	61	20	44	125	<4.2	<24	77
SGS-7A	5	10/18/10	<250	<3.9	<4.6	<5.2	<5.2	<4.4	<25	<13
SGS-7B	10	10/18/10	380	55	18	40	99	<4.2	<24	43
SGS-8A	5	10/17/10	<240	<3.8	<4.5	<5.2	<5.2	<4.3	<25	<13
SGS-8B	10	10/17/10	<230	25	10	8.8	36	<4.0	<23	<12
SGS-9A	5	10/18/10	<240	<3.8	<4.5	<5.2	<5.2	<4.3	<25	16
SGS-9B	10	10/18/10	<240	<3.7	<4.4	<5.0	<5.0	<4.2	<24	<12

TABLE 1
SOIL GAS ANALYTICAL RESULTS
 Former USA Station No. 57
 10700 MacArthur Boulevard, Oakland, California

Sample ID	Sample Depth (feet bgs)	Date	TPHg ($\mu\text{g}/\text{m}^3$)	Benzene ($\mu\text{g}/\text{m}^3$)	Toluene ($\mu\text{g}/\text{m}^3$)	Ethylbenzene ($\mu\text{g}/\text{m}^3$)	Total Xylenes ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	Naphthalene ($\mu\text{g}/\text{m}^3$)	1,1-DFA ($\mu\text{g}/\text{m}^3$)
Legend:			Notes:							
TPHg = Total petroleum hydrocarbons as gasoline			¹ = RWQCB-SF Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final – November 2007 (revised May 2008); Table E-2, Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns (lowest commercial established risk value) ² = Duplicate sample analyzed by laboratory for quality control (QC) purposes ³ = Estimated value due to bias in the continuing calibration verification ⁴ = Non-detected compound associated with low bias in the continuing calibration verification BOLD font indicates analyte exceeds corresponding ESL							
MTBE = Methyl tertiary butyl ether										
1,1-DFA = 1,1-difluoroethane										
ug/m ³ = micrograms per cubic meter										
Analytical Laboratory										
Air Toxics, LTD. (NELAP 02110CA)										
Analytical Methods										
TPHg by Modified EPA Method TO-3										
BTEX, MTBE, Naphthalene, and 1,1-DFA by Modified EPA Method TO-15										

TABLE I
SOIL GAS ANALYTICAL RESULTS
Former USA Station No. 57
10700 MacArthur Boulevard, Oakland, California

Sample ID	Sample Depth (feet bgs)	Date	TPHg ($\mu\text{g}/\text{m}^3$)	Benzene ($\mu\text{g}/\text{m}^3$)	Toluene ($\mu\text{g}/\text{m}^3$)	Ethylbenzene ($\mu\text{g}/\text{m}^3$)	Total Xylenes ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	Naphthalene ($\mu\text{g}/\text{m}^3$)	1,1-DFA ($\mu\text{g}/\text{m}^3$)
Environmental Screening Level (ESL)¹ (commercial property)			29,000	280	180,000	3,300	58,000	31,000	240	-----
SV-1A	4	10/21/09	8,000 ³	<4.1	<4.9	<5.6	<5.6	<4.7	<27	<14
SV-1B	9	10/22/09	1,100	<4.0	<4.7	<5.4	<5.4	<4.5	<26	<13
SV-1B (dup) ²	---	---	1,100	<4.0	<4.7	<5.4	<5.4	<4.5	<26	<13
SV-2A	4	10/21/09	4,900 ³	<3.7	<4.4	<5.0	<5.0	<4.2	<24	<12
SV-2B	9	10/21/09	21,000	69	130	48	126	<12	<69	<36
SV-3A	4	10/21/09	11,000 ³	30	20	7.6	32	<4.3	<25	<13
SV-3B	9	10/21/09	20,000	96	240	38	111	<18	<100	<53
SV-3B (dup) ²	---	---	21,000	97	230	38	109	<18	<100	<53
SV-4A	4	10/21/09	140 ³	<3.8	<4.4	<5.1	5.4	<4.2	<25	<13
SV-4B	9	10/22/09	16,000	250	1,200	51	158	170	<27	<14
SV-5A	4	10/21/09	99,000 ³	110	2,900	160	440	3,700	<140	<71
SV-5B	9	10/22/09	7,400,000	7,800	8,300	39,000	6,000	5,100	<2,400	<1,200
SV-6A	4	10/21/09	----- insufficient airflow through subsurface strata to enable collection of soil gas sample -----							
SV-6B	9	10/21/09	8,000,000	5,600	<25,000	<29,000	<29,000	12,000	<140,000	<73,000
SV-7A	4	10/21/09	11,000 ³	13	140	20	91	<4.3	<25	<13
SV-7B	9	10/22/09	70,000	58	500	83	290	<19	<110	<58
SV-8A	4	10/12/09	7,800	46	960	110	308	<4.3	<25	<13
SV-8B	9	10/22/09	12,000	290	160	29	93	<16	<91	<47 ⁴
SV-9A	4	10/12/09	3,300	100	85	10	28.9	<4.3	<25	<13
SV-9B	9	10/22/09	7,000	11	62	14	43	38	<47	<24 ⁴
SV-10A	4	10/21/09	260,000 ³	<4.2	19	30	610	<4.8	77	<14
SV-10B	9	10/22/09	100,000	<4.0	6.9	<5.4	53	<4.5	<26	<24 ⁴

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Former USA Station No. 57
10700 MacArthur Boulevard, Oakland, California

Sample ID	Sample Depth (feet bgs)	Date	TPHg ($\mu\text{g}/\text{m}^3$)	Benzene ($\mu\text{g}/\text{m}^3$)	Toluene ($\mu\text{g}/\text{m}^3$)	Ethylbenzene ($\mu\text{g}/\text{m}^3$)	Total Xylenes ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	Naphthalene ($\mu\text{g}/\text{m}^3$)	1,1-DFA ($\mu\text{g}/\text{m}^3$)
Environmental Screening Level (ESL)¹ (commercial property)			29,000	280	180,000	3,300	58,000	31,000	240	-----
SV-11A	4	10/21/09	26,000 ³	<3.8	5.8	<5.1	18.2	<4.3	45	<13
SV-11B	9	10/22/09	40,000	58	88	30	191	42	<26	<13 ⁴
SV-12A	4	10/21/09	5,500 ³	180	540	140	450	<4.4	<26	<13
SV-12B	9	10/22/09	4,900	120	350	55	166	14	<25	<13 ⁴
SV-13A	4	10/21/09	210,000 ³	20	49	22	141	<5.0	<29	<15
SV-13B	9	10/22/09	38,000	32	520	230	1,250	<4.9	<28	<15 ⁴
SV-14A	4	10/12/09	1,000	31	14	5.6	23.2	<4.6	<26	14
SV-14B	9	10/22/09	56,000	430	250	70	123	<22	<130	<65
SV-15A	4	10/12/09	390	4.9	6.5	<5.2	<5.2	<4.4	<25	<13
SV-15A (dup) ²	---	---	330	4.8	6.4	<5.2	<5.2	<4.4	<25	<13
SV-15B	9	10/22/09	7,900	38	52	15	51	<4.5	<26	<13
SV-16A	4	10/12/09	110	<3.8	<4.5	<5.2	<5.2	<4.3	<25	16
SV-16B	9	10/22/09	780	<3.9	<4.6	<5.2	<5.2	<4.4	<25	<13
SV-17A	4	10/12/09	1,700	160	60	5.5	26.5	<4.3	<25	<13
SV-17B	9	10/22/09	52,000	330	330	49	280	<22	<130	<65
SV-18A	4	10/12/09	3,500	53	350	170	450	<4.4	<25	<13
SV-18B	9	10/22/09	7,600	250	440	96	211	<4.5	<26	<13
SV-19A	4	10/12/09	27,000	360	500	83	380	<7.5	<44	<22
SV-19B	9	10/21/09	30,000	37	160	42	144	<7.6	<44	<23
SV-20A	4	10/12/09	11,000	77	560	140	351	<4.3	<25	<13
SV-20B	9	10/21/09	25,000	180	250	47	192	<4.5	<26	<13

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Former USA Station No. 57
10700 MacArthur Boulevard, Oakland, California

Sample ID	Sample Depth (feet bgs)	Date	TPHg ($\mu\text{g}/\text{m}^3$)	Benzene ($\mu\text{g}/\text{m}^3$)	Toluene ($\mu\text{g}/\text{m}^3$)	Ethylbenzene ($\mu\text{g}/\text{m}^3$)	Total Xylenes ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	Naphthalene ($\mu\text{g}/\text{m}^3$)	1,1-DFA ($\mu\text{g}/\text{m}^3$)
Legend:			Notes:							
TPHg = Total petroleum hydrocarbons as gasoline			1 = RWQCB-SF Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final – November 2007 (revised May 2008) ; Table E-							
MTBE = Methyl tertiary butyl ether			2, Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns (lowest commercial established risk value)							
1,1-DFA = 1,1-difluoroethane			2 = Duplicate sample analyzed by laboratory for quality control (QC) purposes							
ug/m ³ = micrograms per cubic meter			3 = Estimated value due to bias in the continuing calibration verification							
Analytical Laboratory			4 = Non-detected compound associated with low bias in the continuing calibration verification							
Air Toxics, LTD. (NELAP 02110CA)			BOLD font indicates analyte exceeds corresponding ESL							
Analytical Methods										
TPHg by Modified EPA Method TO-3										
BTEX, MTBE, Naphthalene, and 1,1-DFA by Modified EPA Method TO-15										

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
S-1	02/12/87						630	4.4	3.5	37	NA
	03/03/95	13.10	74.74	61.64	910	5,900	260	7.6	16	14	NA
	07/24/95	12.35		62.39	NA	NA	NA	NA	NA	NA	NA
	11/22/95	19.30	78.68	59.38	460	6,100	13	0.69	0.99	1.1	460*
	12/06/95	19.59		59.09	NA	NA	NA	NA	NA	NA	NA
	01/04/96	19.52		59.16	NA	NA	NA	NA	NA	NA	NA
	01/31/97	15.07		63.61	1,100	200	11	6	3	6	200*
	10/10/97	18.90		59.78	530	2,000	<0.5	2.1	<0.5	<2	230*
	01/20/98	16.79		61.89	1,800	200	<0.5	<0.5	1.5	10	87*
	04/28/98	8.37		70.31	130	7,300	1.9	3.2	<0.5	<0.5	310*
	07/31/98	11.61		67.07	310	2,000	0.54	4.6	3.8	0.82	280*
	06/10/99	14.35		64.33	660	150	0.99	<0.5	<0.5	2.4	80*[1]
	10/18/00	17.56		61.12	<50	330	<0.5	0.93	<0.5	<0.5	44
	03/12/02	16.29		62.39	500	<50	2.8	4.8	0.79	4.4	63
	11/19/02	19.53		59.15	190	NA	<0.50	<0.50	<0.50	<0.50	190
	01/09/03	18.14		60.54	510	NA	1.1	<0.50	0.52	<0.50	11
	04/14/03	18.04		60.64	300	NA	<1.0[2]	<1.0[2]	<1.0[2]	<1.0[2]	27
	07/21/03	20.31		58.37	300	NA	<0.50	<0.50	<0.50	<0.50	11
	10/09/03	19.46		59.22	390	NA	<0.50	<0.50	<0.50	<0.50	8.8
	01/15/04	18.21	79.66	61.45	200	NA	<0.50	<0.50	<0.50	<0.50	6.0
04/08/04	19.29		60.37	140	NA	<0.50	<0.50	<0.50	<0.50	12	
08/10/04	18.86		60.80	110	NA	4.6	<0.50	<0.50	0.51	73	
11/11/04	19.81		59.85	160	NA	<0.50	<0.50	<0.50	<0.50	150	
01/19/05	18.12		61.54	440	NA	<0.50	<0.50	1.4	<0.50	140	
04/14/05	13.94		65.72	320	NA	<0.50	<0.50	<0.50	<0.50	120	
07/19/05	14.11		65.55	240	NA	6.1	<0.50	0.60	<0.50	60	
10/24/05	16.53		63.13	320	NA	5.0	<0.50	1.1	<0.50	37	

ATTACHMENT 6

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TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total	
										Xylenes (µg/L)	MTBE (µg/L)
S-1	02/02/06	15.27		64.39	<50	NA	<0.50	<0.50	<0.50	<0.50	45
Cont.	04/27/06	9.59		70.07	<50	NA	<0.50	<0.50	<0.50	<0.50	7.7
	07/12/06	11.00		68.66	<50	NA	<0.50	<0.50	<0.50	<0.50	12
	10/17/06	14.54		65.12	<50	NA	<0.50	<0.50	<0.50	<0.50	1.6
	01/08/07	15.87		63.79	260	NA	4.6	<0.50	<0.50	<0.50	15
	04/09/07	16.06		63.60	300	NA	<0.50	<0.50	<0.50	<0.50	22
	04/23/07	16.31		63.35	NA	NA	NA	NA	NA	NA	NA
	07/23/07	17.86		61.80	110	NA	<0.50	<0.50	<0.50	<0.50	52
	10/15/07	19.22		60.44	<50	NA	<0.50	<0.50	<0.50	<0.50	50
	03/24/08	17.58		62.08	180	NA	<0.50	<0.50	<0.50	<0.50	29
	05/30/08	19.66		60.00	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	43
	07/10/08	19.32		60.34	130	NA	<0.50	<0.50	<0.50	<0.50	4.1
	10/01/08	20.67		58.99	64	NA	<0.50	<0.50	<0.50	<0.50	70
	02/10/09	22.31		57.35	<50	NA	<0.50	<0.50	<0.50	<0.50	53
	05/05/09	20.90		58.76	330	NA	<0.50	<0.50	<0.50	<0.50	9.3

**TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**

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Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
S-2	02/12/87		Sheen				3,400	3,800	1,300	11,000	NA
	03/03/95	15.39	76.86	61.47	24,000	6,000	1,900	440	600	2,500	NA
	07/24/95	14.47		62.39	NA	NA	NA	NA	NA	NA	NA
Sheen	11/22/95	21.52	80.93	59.41	NA	NA	NA	NA	NA	NA	NA
	12/06/95	21.78		59.15	NA	NA	NA	NA	NA	NA	NA
	01/04/96	21.75		59.18	NA	NA	NA	NA	NA	NA	NA
	01/31/97	17.25		63.68	NA	NA	NA	NA	NA	NA	NA
Sheen	10/10/97	21.21		59.72	13,000	<50	260	38	190	280	600*
Sheen	01/20/98	19.07		61.86	1,900	2,300	4.6	6.3	<0.5	4.6	190*
	04/28/98	10.47		70.46	22,000	<100	980	160	320	680	570*
	07/31/98	13.71		67.22	160,000	<50	950	290	550	1,700	550*
	11/02/98	17.31		63.62	14,000	<500	170	70	170	230	490*
	06/10/99	16.48		64.45	17,000	<50	650	230	<25	750	490*[1]
	10/18/00	19.70		61.23	4,400	<50	2	64	5.1	12	270
	03/12/02	18.56		62.37	5,100	660	62	44	52	78	430
	11/19/02	21.70		59.23	26,000	NA	1,400	180	520	340	750
	01/09/03	20.37		60.56	16,000	NA	120	32	76	214	270
	04/14/03	19.93		61.00	16,000	NA	160	76	210	290	400
	07/21/03	22.00		58.93	9,700	NA	270	90	200	277	410
	10/09/03	21.58		59.35	10,000	NA	39	9.2	52	26.5	180
	01/15/04	20.44	81.90	61.46	6,300	NA	21	<2.0 [3]	20	3.1	130
	04/08/04	17.15		64.75	13,000	NA	160	76	170	231	430
	08/10/04	20.98		60.92	10,000	NA	76	13	<5.0[3]	500	92
	11/11/04	21.95		59.95	20,000	NA	530	240	370	1,730	420
	01/19/05	20.33		61.57	17,000	NA	590	150	250	990	580
	04/14/05	16.17		65.73	20,000	NA	830	230	570	1,980	510
	07/19/05	16.25		65.65	970	NA	48	13	16	57	72
	10/24/05	18.07		63.83	1,200	NA	100	13	52	41	69

**TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**

Former USA Service Station No. 57
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Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
S-2	02/02/06	17.26		64.64	2,000	NA	17	12	26	108	340
Cont.	04/27/06	11.55		70.35	130	NA	5.1	1.1	2.8	8.8	81
	07/12/06	12.98		68.92	140	NA	<0.50	<0.50	<0.50	0.77	180
	10/17/06	16.59		65.31	130	NA	0.98	<0.50	1.1	2.20	160
	01/08/07	18.21		63.69	69	NA	<0.50	<0.50	<0.50	<0.50	64
	04/09/07	18.29		63.61	360	NA	1.4	1.5	2.2	9.8	270
	07/23/07	20.00		61.90	<50	NA	<0.50	<0.50	<0.50	<0.50	7.7
	10/15/07	21.32		60.58	260	NA	53	0.92	<0.50	1.0	86
	03/24/08	19.78		62.12	5,500	NA	540	20	120	70	600
	05/30/08	20.78		61.12	8,700	NA	270	50	200	386	340
	07/10/08	21.45		60.45	8,000	NA	310	36	150	246	420
	10/01/08	22.71		59.19	4,100	NA	170	3.8	57	8	720
	02/10/09	24.43		57.47	9,700	NA	390	31.0	340	107.5	480
	05/05/09	23.12		58.78	10,000	NA	300	47	250	220	410

TABLE 1
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 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-3	03/03/95	13.99	76.30	62.31	2,500	1,600	540	92	36	200	NA
	07/24/95	13.33		62.97	NA	NA	NA	NA	NA	NA	NA
	11/22/95	20.94	80.32	59.38	14,000	5,400	5,700	230	430	650	820*
	12/06/95	17.48		62.84	NA	NA	NA	NA	NA	NA	NA
	01/04/96	20.01		60.31	NA	NA	NA	NA	NA	NA	NA
	01/31/97	16.63		63.69	1,100	<50	130	8	5	5	NA
	10/10/97	20.62		59.70	3,400	1,100	830	4	100	<10	160*
	01/20/98	15.40		64.92	3,900	550	7.9	4.1	<0.5	3.7	<5.0*
	04/28/98	10.51		69.81	800	1,000	82	5.2	5.7	5.4	240*
	07/31/98	13.46		66.86	2,200	610	510	7.6	16	5.27	310*
	11/02/98	17.11		63.21	4,900	1,600	220	16	13	13.7	180*
	06/10/99	15.24		65.08	1,000	120	<0.5	<0.5	<0.5	1.1	120*[1]
	10/18/00	15.41		64.91	<50	<50	<0.5	<0.5	<0.5	<0.5	12
	04/08/04	13.70		66.62	<50	NA	<0.50	<0.50	<0.50	<0.50	19
	08/10/04	16.96		63.36	580	NA	19	<1.0[3]	<1.0[3]	3.3	300
	11/11/04	17.40		62.92	3,000	NA	810	<5.0[3]	43	<5.0[3]	690
	01/19/05	13.28		67.04	92	NA	18	<0.50	0.77	<0.50	17
	04/14/05	8.73		71.59	<50	NA	0.52	<0.50	<0.50	<0.50	11
	07/19/05	11.94		68.38	390	NA	82	2.3	1.8	9.2	200
	10/24/05	14.70	77.27	62.57	2,100	NA	460	6.9	7.7	11.9	300
02/02/06	16.48		60.79	530	NA	11	<0.50	1.2	1.1	560	
04/27/06	7.85		69.42	<300[3]	NA	<1.5[3]	<1.5[3]	<1.5[3]	<1.5[3]	180	
07/12/06	10.08		67.19	250	NA	5.5	<1.0[3]	<1.0[3]	<1.0[3]	190	
10/17/06	12.80		64.47	93	NA	8.8	<0.50	<0.50	<0.50	100	

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
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Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater		TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
				Elevation (ft msl)	GRO[5] (µg/L)						
MW-3	01/08/07	21.68		55.59	200	NA	14	<0.50	0.89	0.95	85
Cont.	04/09/07	12.24		65.03	1,400	NA	380	6.6	22	12.5	600
	04/23/07	12.53		64.74	NA	NA	NA	NA	NA	NA	NA
	07/23/07	14.44		62.83	1,600	NA	420	<2.5[3]	27	<2.5[3]	630
	10/15/07	16.45		60.82	2,000	NA	470	2.7	23	<2.5[3]	610
	03/24/08	13.80		63.47	1,200	NA	230	1.9	9.9	1.2	820
	05/30/08	15.54		61.73	1,100	NA	250	<2.5[3]	14	<2.5[3]	610
	07/10/08	16.10		61.17	1,400	NA	170	<1.0	10	2.6	560
	10/01/08	17.60		59.67	800	NA	95	<1.0[3]	1.8	<1.0[3]	620
	02/10/09	18.46		58.81	1,200	NA	50	<1.0[3]	1.8	<1.0[3]	660
	05/05/09	17.00		60.27	830	NA	18	<1.0[3]	<1.0[3]	<1.0[3]	670

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Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater							
				Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-4	11/22/95	14.99	76.42	61.43	<50	200	<0.5	1.5	<0.5	1.7	6.4*
	12/06/95	11.21		65.21	NA	NA	NA	NA	NA	NA	NA
	01/04/96	14.62		61.80	NA	NA	NA	NA	NA	NA	NA
	01/31/97	8.18		68.24	<50	<50	<0.5	2	<0.5	2	11*
	10/10/97	14.14		62.28	<50	<50	<0.5	<0.5	<0.5	<2	<5.0*
	01/20/98	7.05		69.37	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	04/28/98	5.88		70.54	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	07/31/98	8.40		68.02	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	11/02/98	16.08		60.34	NA	NA	NA	NA	NA	NA	NA
	06/10/99	14.81		61.61	NA	NA	NA	NA	NA	NA	NA
	10/18/00	12.71		63.71	<50	<50	<0.5	0.59	0.82	0.53	<5.0*
	03/12/02	8.92		67.50	<50	<50	<0.5	0.61	0.72	2.5	1.8
	11/19/02	13.24		-13.24	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/09/03	11.00		-11.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/14/03	11.03		-11.03	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/21/03	13.10		-13.10	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/09/03	13.33		-13.33	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/15/04	12.14		-12.14	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/08/04	10.76		65.66	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	08/10/04	12.62		63.80	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
11/11/04	11.93		64.49	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
01/19/05	10.34		66.08	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
04/14/05	5.66	[4]	NM	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
07/19/05	7.55	[4]	NM	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
10/24/05	10.12	76.26	66.14	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	

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MW-4	02/02/06	6.99		69.27	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
Cont.	04/27/06	NM		NM			Well Not Monitored or Sampled - Covered				
	07/12/06	6.05		70.21	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/06	NM		NM			Well Not Monitored or Sampled - Covered				
	01/08/07	8.82		67.44	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/09/07	8.52		67.74	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/23/07	10.10		66.16	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/15/07	10.90		65.36	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	03/24/08	9.32		66.94	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	05/30/08	10.60		65.66	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/10/08	11.31		64.95	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/01/08	12.37		63.89	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	02/10/09	13.38		62.88	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	05/05/09	NM		NM			Well Not Monitored or Sampled - Covered				

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GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

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Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	
MW-5	11/22/95	19.56	80.52	60.96	<50	280	<0.5	1.8	<0.5	3	2.2*	
	12/06/95	15.84		64.68	NA	NA	NA	NA	NA	NA	NA	
	01/04/96	19.36		61.16	NA	NA	NA	NA	NA	NA	NA	
	01/31/97	13.31		67.21	80	<50	<0.5	0.6	<0.5	2	6*	
	10/10/97	17.80		62.72	<50	<50	<0.5	<0.5	<0.5	<2	<5*	
	01/20/98	12.58		67.94	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	04/28/98	9.45		71.07	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	07/31/98	7.38		73.14	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	11/02/98	15.98		64.54	<50	<500	<0.5	<0.5	<0.5	<0.5	<5.0*	
	06/10/99	14.60		65.92	NA	NA	NA	NA	NA	NA	NA	
	10/18/00	17.77		62.75	<50	<50	<0.5	0.75	<0.5	0.79	28	
	03/12/02	15.72		64.80	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	11/19/02	NM		NM								Well Damaged
	01/09/03	NM		NM								Well Damaged
	04/14/03	NM		NM								Well Damaged
	07/21/03	NM		NM								Well Damaged
	10/09/03	NM		NM								Well Damaged
	01/15/04	NM		NM								Well Damaged
	04/08/04	16.80			63.72	<100	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	08/10/04	18.58			61.94	89	NA	<0.50	<0.50	<0.50	<0.50	<0.50
11/11/04	NM			NM								Well Damaged
01/19/05	NM			NM								Well Damaged
04/14/05	10.57		[4]	NM	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
07/19/05	11.77		[4]	NM	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
10/24/05	14.29		80.78	66.49	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
02/02/06	NM			NM								Well Not Monitored or Sampled - Under Soil Pile
04/27/06	7.42			73.36	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50	

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-5 Cont.	07/12/06	NM		NM			Well Not Monitored or Sampled - Covered				
	10/17/06	NM		NM			Well Not Monitored or Sampled - Covered				
	01/08/07	NM		NM			Well Not Monitored or Sampled - Covered				
	04/09/07	NM		NM			Well Not Monitored or Sampled - Covered				
	04/23/07	11.90		68.88	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/23/07	13.98		66.80	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/15/07	14.97		65.81	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	03/24/08	12.77		68.01	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	05/30/08	14.76		66.02	<200[2]	NA	<1.0[2]	<1.0[2]	<1.0[2]	<1.0[2]	<1.0[2]
	07/10/08	15.74		65.04	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/01/08	16.90		63.88	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	02/10/09	18.12		62.66	<200[2]	NA	<1.0[2]	<1.0[2]	<1.0[2]	<1.0[2]	<1.0[2]
	05/05/09	16.25		64.53	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	10/15/07	NM		NM			Well Destroyed				
	10/01/08	NM		NM			Well Destroyed				

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Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	
MW-7	11/22/95	19.38	78.86	59.48	<50	180	<0.5	0.57	<0.5	0.62	0.73*	
	12/06/95	19.72		59.14	NA	NA	NA	NA	NA	NA	NA	
	01/04/96	19.76		59.10	NA	NA	NA	NA	NA	NA	NA	
	01/31/97	15.25		63.61	70	<50	0.7	1	<0.5	<1	8*	
	10/10/97	19.03		59.83	<50	<50	<0.5	<0.5	<0.5	<2	15*	
	01/20/98	17.11		61.75	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	04/28/98	8.22		70.64	<50	<50	<0.5	<0.5	<0.5	<0.5	9.3*	
	07/31/98	11.53		67.33	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	11/02/98	15.15		63.71	NA	NA	NA	NA	NA	NA	NA	
	06/10/99	14.23		64.63	NA	NA	NA	NA	NA	NA	NA	
	10/18/00	17.59	61.27	NA	<50	<0.5	<0.5	<0.5	<0.5	<5.0*		
	03/12/02	16.54	62.32	<50	<50	<0.5	<0.5	<0.5	<0.5	2.9		
	11/19/02	19.59	-19.59	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	3.8	
	01/09/03	18.38	-18.38	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	2.7	
	04/14/03	18.17	-18.17	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/21/03	20.29	-20.29	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	
	10/09/03	19.48	-19.48	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	
	01/15/04	18.45	79.81	61.36	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	2.6
	04/08/04	17.28		62.53	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	0.81
	08/10/04	18.85		60.96	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	2.1
11/11/04	19.85	59.96		<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	
01/19/05	19.59	60.22		<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	
04/14/05	14.17	65.64		<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
07/19/05	14.16	65.65		<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	
10/24/05	16.65	63.16		<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

TABLE 1
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Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-7	02/02/06	15.39		64.42	<50	NA	<0.50	<0.50	<0.50	<0.50	1.3
Cont.	04/27/06	8.51		71.30	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/12/06	9.94		69.87	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/06	13.46		66.35	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/08/07	15.03		64.78	<50	NA	<0.50	<0.50	<0.50	<0.50	0.99
	04/09/07	15.27		64.54	<50	NA	<0.50	<0.50	<0.50	<0.50	0.54
	07/23/07	16.96		62.85	<50	NA	<0.50	<0.50	<0.50	<0.50	1.7
	10/15/07	18.29		61.52	750	NA	<0.50	<0.50	<0.50	<0.50	0.81
	03/24/08	16.72		63.09	<50	NA	<0.50	<0.50	<0.50	<0.50	0.85
	05/30/08	17.81		62.00	<50	NA	<0.50	<0.50	<0.50	<0.50	0.56
	07/10/08	18.48		61.33	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/01/08	19.71		60.10	<50	NA	<0.50	<0.50	<0.50	<0.50	0.66
	02/10/09	21.41		58.40	<50	NA	<0.50	<0.50	<0.50	<0.50	0.67
	05/05/09	20.07		59.74	<50	NA	<0.50	<0.50	<0.50	<0.50	1.2

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Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater							Total	
				Elevation (ft msl)	GRO[S] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	
MW-8	11/22/95	33.33	79.55	46.22	<50	360	<0.5	1.3	<0.5	2.1	2.1*	
	12/06/95	17.57		61.98	NA	NA	NA	NA	NA	NA	NA	
	01/04/96	20.08		59.47	NA	NA	NA	NA	NA	NA	NA	
	01/31/97	18.72		60.83	80	<50	0.6	1	<0.5	1	8*	
	10/10/97	20.26		59.29	50	<50	<0.5	<0.5	<0.5	<2	<5*	
	01/20/98	15.91		63.64	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	04/28/98	10.39		69.16	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	07/31/98	12.93		66.62	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	11/02/98	16.90		62.65	<50	<500	<0.5	<0.5	<0.5	<0.5	<5.0*	
	06/10/99	14.98		64.57	NA	NA	NA	NA	NA	NA	NA	
	10/18/00	16.27		63.28	<50	<50	<0.5	<0.5	1.1	6.3	8.6*	
	03/12/02	14.56		64.99	<50	<50	<0.5	0.63	0.55	1.7	0.94	
	11/19/02	21.14		-21.14	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/09/03	17.90		-17.90	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
	04/14/03	17.84		-17.84	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
	07/21/03	19.79		-19.79	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
	10/09/03	21.02		-21.02	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/15/04	18.10	80.50	62.40	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
	04/08/04	17.51		62.99	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/10/04	20.76		59.74	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
11/11/04	21.38		59.12	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50		
01/19/05	17.20		63.30	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50		
04/14/05	12.68		67.82	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50		
07/19/05	15.78		64.72	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50		
10/24/05	18.68		61.82	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50		

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Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-8	02/02/06	14.57		65.93	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
Cont.	04/27/06	10.48		70.02	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/12/06	13.08		67.42	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/06	15.96		64.54	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/08/07	16.70		63.80	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/09/07	16.25		64.25	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/23/07	18.66		61.84	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/15/07	20.36		60.14	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	03/24/08	17.81		62.69	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	05/30/08	19.78		60.72	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/10/08	20.32		60.18	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/01/08	21.81		58.69	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	02/10/09	22.26		58.24	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	05/05/09	20.98		59.52	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50

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Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater							
				Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
EX-1	10/24/05	14.37	77.72	63.35	5,000	NA	140	8.4	20	195	360
	02/02/06	1.68		76.04	3,000	NA	3.6	<0.50	14	55.5	0.63
	04/27/06	1.76		75.96	130	NA	0.98	<0.50	<0.50	2.42	<0.50
	07/12/06	6.88		70.84	2,600	NA	760	15	34	104	200
	10/17/06	9.79		67.93	3,300	NA	810	<5.0[3]	32	68	170
	01/08/07	5.47		72.25	910	NA	9.1	<0.50	2.7	5.9	1.6
	04/09/07	4.88		72.84	140	NA	1.3	<0.50	1.2	0.93	<0.50
	07/23/07	12.17		65.55	220	NA	7.4	<0.50	1.7	<0.50	0.55
	10/15/07	NM		NM				Not Sampled			
	03/24/08	5.17		72.55	120	NA	9.1	<0.50	1.6	0.96	<0.50
	05/30/08	11.18		66.54	230	NA	11	<0.50	2.2	0.54	<0.50
	07/10/08	12.27		65.45	1,100	NA	16	<0.50	4.9	13.5	<0.50
	10/01/08	14.46		63.26	780	NA	15	<0.50	4.3	2.3	0.83
	02/10/09	15.90		61.82	1,500	NA	40	<1.0[3]	11	9.1	2.0
	05/05/09	12.98		64.74	1,800	NA	66	0.77	17	8.03	3.1
EX-2	10/24/05	16.00	76.96	60.96	42,000	NA	13,000	1,300	1,300	2,580	410
	02/02/06	8.18		68.78	28,000	NA	9,000	1,300	1,100	3,340	200
	04/27/06	5.22		71.74	24,000	NA	4,000	1,800	650	3,900	86
	07/12/06	7.32		69.64	22,000	NA	6,000	1,300	810	3,280	190
	10/17/06	9.22		67.74	31,000	NA	10,000	1,800	1,200	3,400	230
	01/08/07	10.35		66.61	14,000	NA	4,100	440	440	1,140	90
	04/09/07	9.67		67.29	620	NA	160	17	24	58	6.0
	07/23/07	11.46		65.50	610	NA	150	7.5	29	38	5.2
	10/15/07	NM		NM				Not Sampled			
	03/24/08	9.98		66.98	4,900	NA	2,500	210	130	390	29
	05/30/08	11.36		65.60	11,000	NA	3,300	330	380	1,100	<25[3]
	07/10/08	11.85		65.11	17,000	NA	4,200	550	490	1,780	<25[3]
	10/01/08	13.57		63.39	22,000	NA	5,900	510	960	3,400	<50[3]
	02/10/09	14.50		62.46	11,000	NA	5,400	93	310	421	41
	05/05/09	12.63		64.33	8,400	NA	2,600	80	390	470	<15[3]

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Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
EX-3	10/24/05	14.85	78.87	63.02	20,000	NA	220	21	660	3,110	<10[3]
	02/02/06	NM		NM		Well Not Monitored or Sampled - Under Soil Pile					
	04/27/06	NM		NM		Well Not Monitored or Sampled - Covered					
	07/12/06	9.01		68.86	5,700	NA	79	19	120	657	<2.5[3]
	10/17/06	NM		NM		Well Not Monitored or Sampled - Covered					
	01/08/07	12.31		66.56	970	NA	8.3	0.81	19	19.8	<0.50
	04/09/07	10.78		68.09	700	NA	8.9	<0.50	11	6.5	<0.50
	07/23/07	12.82		66.05	1,500	NA	14	<0.50	21	8.9	<0.50
	10/15/07	NM		NM		Not Sampled					
	03/24/08	NM		NM		Well Not Monitored or Sampled - Covered					
	05/30/08	14.10		64.77	280	NA	0.99	<0.50	0.97	1.35	<0.50
	07/10/08	14.86		64.01	340	NA	1.5	<0.50	1.6	<0.50	<0.50
	10/01/08	16.38		62.49	330	NA	1.1	<0.50	<0.50	<0.50	<0.50
	02/10/09	NM		NM		Well Not Monitored or Sampled - Covered					
	05/05/09	NM		NM		Well Not Monitored or Sampled - Covered					
EX-4	10/24/05	14.93	77.96	63.03	1,900	NA	390	69	8.8	90	11
	02/02/06	NM		NM		Well Not Monitored or Sampled - Under Soil Pile					
	04/27/06	NM		NM		Well Not Monitored or Sampled - Covered					
	07/12/06	7.37		70.59	6,400	NA	1,400	400	120	1,220	35
	10/17/06	NM		NM		Well Not Monitored or Sampled - Covered					
	01/08/07	12.92		65.04	3,500	NA	840	51	22	162	25
	04/09/07	12.43		65.53	4,600	NA	730	78	83	410	6.5
	07/23/07	14.20		63.76	7,200	NA	2,600	180	100	560	29
	10/15/07	NM		NM		Not Sampled					
	03/24/08	12.14		65.82	230	NA	29	<0.50	1.8	5.1	0.61
	05/30/08	14.10		63.86	360	NA	110	<1.0[3]	5.0	2.8	3.2
	07/10/08	15.16		62.80	500	NA	150	<1.0[3]	2.6	6.3	3.0
	10/01/08	16.41		61.55	260	NA	96	<1.0[3]	1.5	<1.0[3]	5.2
	02/10/09	18.40		59.56	330	NA	130	<0.50	2.5	1.2	11
05/05/09	16.74		61.22	440	NA	190	<1.0[3]	2.6	5.0	10	

**TABLE 1
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Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
<p>Note:</p> <p>* = MTBE analyzed using EPA Method 8020/8021B</p> <p>MTBE = Methyl tert-butyl ether</p> <p>TPHD = Total petroleum hydrocarbons as diesel</p> <p>GRO = Gasoline Range Organics C4-C13</p> <p>GRO analyzed using EPA Method 8015B and the remaining analytes using EPA Method 8260B</p> <p>[1] Laboratory indicates the chromatogram does not match the diesel hydrocarbon range pattern.</p> <p>[2] Reporting limits were increased due to sample foaming.</p> <p>[3] Reporting limits were increased due to high concentrations of target analytes.</p> <p>[4] Casing elevation invalid - well casing modified (cut) on April 12, 2005.</p> <p>[5] Reported as total petroleum hydrocarbons as gasoline (TPHG C3-C14+) prior to second quarter 2006.</p> <p>Monitoring wells surveyed by Morrow Surveying on February 10, 2004, and again on November 29, 2005.</p> <p>Data prior to November 19, 2002 provided by GHH Engineering.</p>											

msl = Mean sea level
µg/L = micrograms per liter
NA = Not analyzed
NM = Not measured

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
S-1	11/19/02	190	<10	<1.0	<1.0	<1.0	NA	NA	NA	NA
	01/09/03	11	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	04/14/03	27	<20[2]	<2.0[2]	<2.0[2]	<2.0[2]	NA	NA	NA	NA
	07/21/03	11	<10[2]	<1.0	<1.0	<1.0	NA	NA	NA	NA
	10/09/03	8.8	6.4	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/15/04	6.0	10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	04/08/04	12	8.5	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	73	28	<1.0	<1.0	<1.0	16	<2.0	<5,000	<5,000
	11/11/04	150	14	<1.0	<1.0	<1.0	7.3	<2.0	<5,000	<5,000
	01/19/05	140	14	<1.0	<1.0	<1.0	3.8	<2.0	<5,000	<5,000
	04/14/05	120	10	<1.0	<1.0	<1.0	1.4	<2.0	<5,000	<5,000
	07/19/05	60	11	<1.0	<1.0	<1.0	9.6	<2.0	<5,000	<5,000
	10/24/05	37	<10	<1.0	<1.0	<1.0	2.2	<2.0	<5,000	<5,000
	02/02/06	45	<10	<1.0	<1.0	<1.0	1.2	<2.0	<5,000	<5,000
	04/27/06	7.7	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/12/06	12	<10	<1.0	<1.0	<1.0	7.9	<2.0	<5,000	<5,000
	10/17/06	1.6	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	15	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/09/07	22	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/23/07	52	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/15/07	50	<10	<1.0	<1.0	<1.0	1.8	<2.0	NA	NA
	03/24/08	29	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	05/30/08	43	13	<1.0	<1.0	<1.0	<1.0	<4.0[2]	NA	NA
	07/10/08	4.1	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/01/08	70	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	02/10/09	53	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	05/05/09	9.3	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
S-2	11/19/02	750	<200[1]	<20[1]	<20[1]	<20[1]	NA	NA	NA	NA
	01/09/03	270	<100[1]	<10[1]	<10[1]	<10[1]	NA	NA	NA	NA
	04/14/03	400	95	<5.0[1]	<5.0[1]	<5.0[1]	NA	NA	NA	NA
	07/21/03	410	110	<5.0[1]	<5.0[1]	<5.0[1]	NA	NA	NA	NA
	10/09/03	180	57	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	NA	NA
	01/15/04	130	48	<4.0[1]	<4.0[1]	<4.0[1]	<4.0[1]	<16[1]	NA	NA
	04/08/04	430	130	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	<5,000	<5,000
	08/10/04	92	<100[1]	<10[1]	<10[1]	<10[1]	74	<40[1]	<5,000	<5,000
	11/11/04	420	<200[1]	<20[1]	<20[1]	<20[1]	<20[1]	<80[1]	<5,000	<5,000
	01/19/05	580	200	<5.0[1]	<5.0[1]	<5.0[1]	8.2	<20[1]	<5,000	<5,000
	04/14/05	510	150	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000
	07/19/05	72	37	<1.0	<1.0	<1.0	38	<2.0	<5,000	<5,000
	10/24/05	69	33	<1.0	<1.0	<1.0	35	<4.0[1]	<5,000	<5,000
	02/02/06	340	150	<1.0	<1.0	<1.0	3.2	<4.0[1]	<5,000	<5,000
	04/27/06	81	<10	<1.0	<1.0	<1.0	1.3	<2.0	<5,000	<5,000
	07/12/06	180	42	<1.0	<1.0	<1.0	5.8	<2.0	<5,000	<5,000
	10/17/06	160	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	64	<10	<1.0	<1.0	<1.0	2.6	<2.0	<5,000	<5,000
	04/09/07	270	32	<1.0	<1.0	<1.0	1.3	<2.0	<5,000	<5,000
	07/23/07	7.7	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/15/07	86	22	<1.0	<1.0	<1.0	3.5	<2.0	NA	NA
	03/24/08	600	180	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	NA	NA
	05/30/08	340	220	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	NA	NA
	07/10/08	420	150	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	NA	NA
	10/01/08	720	300	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	NA	NA
	02/10/09	480	140	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	NA	NA
	05/05/09	410	99	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	NA	NA

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-3	04/08/04	19	7.6	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	300	2,000	2.2	<2.0[1]	<2.0[1]	270	<8.0[1]	<5,000	<5,000
	11/11/04	690	1,400	<10[1]	<10[1]	<10[1]	140	<40[1]	<5,000	<5,000
	01/19/05	17	19	<1.0	<1.0	<1.0	1.4	<2.0	<5,000	<5,000
	04/14/05	11	25	<1.0	<1.0	<1.0	6.2	<2.0	<5,000	<5,000
	07/19/05	200	1,000	<2.0[1]	<2.0[1]	<2.0[1]	240	<8.0[1]	<5,000	<5,000
	10/24/05	300	750	<5.0[1]	<5.0[1]	<5.0[1]	210	<20[1]	<5,000	<5,000
	02/02/06	560	1,300	2.7	<1.0	<1.0	98	<4.0[1]	<5,000	<5,000
	04/27/06	180	330	<3.0[1]	<3.0[1]	<3.0[1]	220	<12[1]	<5,000	<5,000
	07/12/06	190	24	<2.0[1]	<2.0[1]	<2.0[1]	210	<8.0[1]	<5,000	<5,000
	10/17/06	100	50	<1.0	<1.0	<1.0	21	<2.0	<5,000	<5,000
	01/08/07	85	30	<1.0	<1.0	<1.0	22	<2.0	<5,000	<5,000
	04/09/07	600	510	<5.0[1]	<5.0[1]	<5.0[1]	67	<20[1]	<5,000	<5,000
	07/23/07	630	920	<5.0[1]	<5.0[1]	<5.0[1]	99	<20[1]	NA	NA
	10/15/07	610	840	<5.0[1]	<5.0[1]	<5.0[1]	110	<20[1]	NA	NA
	03/24/08	820	840	3.2	<2.0[1]	<2.0[1]	63	<8.0[1]	NA	NA
	05/30/08	610	880	<5.0[1]	<5.0[1]	<5.0[1]	68	<20[1]	NA	NA
	07/10/08	560	570	3.2	<2.0[1]	<2.0[1]	30	<8.0[1]	NA	NA
	10/01/08	620	1,100	3.5	<2.0[1]	<2.0[1]	94	<8.0[1]	NA	NA
	02/10/09	660	820	4.0	<2.0[1]	<2.0[1]	38	<8.0[1]	NA	NA
05/05/09	670	760	4.2	<2.0[1]	<2.0[1]	19	<8.0[1]	NA	NA	

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Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)	
MW-4	11/19/02	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	
	01/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	
	04/14/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	
	07/21/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	
	10/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
	01/15/04	<0.50	7.8	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
	04/08/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	08/10/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	11/11/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	01/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	07/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	02/02/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	04/27/06					Well Not Monitored or Sampled - Covered					
	07/12/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/17/06					Well Not Monitored or Sampled - Covered					
	01/08/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/09/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/23/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/15/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	03/24/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	05/30/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	07/10/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/01/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	02/10/09	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
05/05/09					Well Not Monitored or Sampled - Covered						

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS**

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)	
MW-5	11/19/02										
	01/09/03										
	04/14/03										
	07/21/03										
	10/09/03										
	01/15/04										
	04/08/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	08/10/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	11/11/04										
	01/19/05										
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	02/02/06										
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	07/12/06										
	10/17/06										
	01/08/07										
	04/09/07										
	04/23/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	07/23/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/15/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	03/24/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0[2]	NA	NA
05/30/08	<1.0[2]	<20[2]	<2.0[2]	<2.0[2]	<2.0[2]	<2.0[2]	<2.0[2]	<8.0[2]	NA	NA	
07/10/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0[2]	NA	NA	
10/01/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
02/10/09	<1.0[2]	<20[2]	<2.0[2]	<2.0[2]	<2.0[2]	<2.0[2]	<2.0[2]	<8.0[2]	NA	NA	
05/05/09	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	NA	NA	
MW-6	10/15/07										
	10/01/08										

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MW-7	11/19/02	3.8	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	01/09/03	2.7	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	04/14/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	07/21/03	1.8	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	10/09/03	2.9	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/15/04	2.6	7.9	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	04/08/04	0.81	9.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	11/11/04	1.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/19/05	1.5	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05	1.9	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	02/02/06	1.3	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/12/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/17/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	0.99	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/09/07	0.54	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/23/07	1.7	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/15/07	0.81	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	03/24/08	0.85	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	05/30/08	0.56	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
07/10/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
10/01/08	0.66	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
02/10/09	0.67	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
05/05/09	1.2	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-8	11/19/02	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	01/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	04/14/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	07/21/03	<0.50	<10[2]	<1.0	<1.0	<1.0	NA	NA	NA	NA
	10/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/15/04	<0.50	9.9	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	04/08/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	11/11/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	02/02/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	07/12/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/17/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/09/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/23/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/15/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	03/24/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	05/30/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	07/10/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	10/01/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	02/10/09	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	05/05/09	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)	
EX-1	10/24/05	360	120	<1.0	<1.0	<1.0	<1.0	<4.0[1]	<5,000	<5,000	
	02/02/06	0.63	<10	<1.0	<1.0	<1.0	<1.0	<4.0[1]	<5,000	<5,000	
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	07/12/06	200	110	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000	
	10/17/06	170	<100[1]	<10[1]	<10[1]	<10[1]	30	<40[1]	<5,000	<5,000	
	01/08/07	1.6	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	04/09/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	07/23/07	0.55	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
	10/15/07					Not Sampled					
	03/24/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
	05/30/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
	07/10/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
	10/01/08	0.83	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
	02/16/09	2.0	<20[1]	<2.0[1]	<2.0[1]	<2.0[1]	<2.0[1]	<2.0[1]	<8.0[1]	NA	NA
	05/05/09	3.1	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0[1]	NA	NA
EX-2	10/24/05	410	<2,000[1]	<200[1]	<200[1]	<200[1]	<200[1]	<800[1]	<5,000	<5,000	
	02/02/06	200	<1,000[1]	<100[1]	<100[1]	<100[1]	<100[1]	<400[1]	<5,000	<5,000	
	04/27/06	86	<500[1]	<50[1]	<50[1]	<50[1]	<50[1]	<200[1]	<5,000	<5,000	
	07/12/06	190	<500[1]	<50[1]	<50[1]	<50[1]	<50[1]	<200[1]	<5,000	<5,000	
	10/17/06	230	<1,000[1]	<100[1]	<100[1]	<100[1]	400	<400[1]	<5,000	<5,000	
	01/08/07	90	<400[1]	<40[1]	<40[1]	<40[1]	<40[1]	<160[1]	<5,000	<5,000	
	04/09/07	6.0	<20[1]	<2.0[1]	<2.0[1]	<2.0[1]	<2.0[1]	<8.0[1]	<5,000	<5,000	
	07/23/07	5.2	<10	<1.0	<1.0	<1.0	<1.0	<4.0[1]	NA	NA	
	10/15/07					Not Sampled					
	03/24/08	29	<200[1]	<20[1]	<20[1]	<20[1]	<20[1]	<80[1]	NA	NA	
	05/30/08	<25[1]	<500[1]	<50[1]	<50[1]	<50[1]	<50[1]	<200[1]	NA	NA	
	07/10/08	<25[1]	<500[1]	<50[1]	<50[1]	<50[1]	<50[1]	<200[1]	NA	NA	
	10/01/08	<50[1]	<1,000[1]	<100[1]	<100[1]	<100[1]	<100[1]	<400[1]	NA	NA	
	02/10/09	41	<500[1]	<50[1]	<50[1]	<50[1]	<50[1]	<200[1]	NA	NA	
	05/05/09	<15[1]	<300[1]	<30[1]	<30[1]	<30[1]	<30[1]	<120[1]	NA	NA	

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
 10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)	
EX-3	10/24/05	<10[1]	<200[1]	<20[1]	<20[1]	<20[1]	<20[1]	<80[1]	<5,000	<5,000	
	02/02/06	Well Not Monitored or Sampled - Under Soil Pile									
	04/27/06	Well Not Monitored or Sampled - Covered									
	07/12/06	<2.5[1]	<50[1]	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	<5,000	<5,000	
	10/17/06	Well Not Monitored or Sampled - Covered									
	01/08/07	<0.50	12	<1.0	<1.0	<1.0	1.1	<2.0	<5,000	<5,000	
	04/09/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000	
	07/23/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
	10/15/07	Not Sampled									
	03/24/08	Well Not Monitored or Sampled - Covered									
	05/30/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<4.0[2]	NA	NA	
	07/10/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<4.0[2]	NA	NA	
	10/01/08	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
	02/10/09	Well Not Monitored or Sampled - Covered									
	05/05/09	Well Not Monitored or Sampled - Covered									
EX-4	10/24/05	11	51	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	<5,000	<5,000	
	02/02/06	Well Not Monitored or Sampled - Under Soil Pile									
	04/27/06	Well Not Monitored or Sampled - Covered									
	07/12/06	35	<200[1]	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000	
	10/17/06	Well Not Monitored or Sampled - Covered									
	01/08/07	25	<100[1]	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000	
	04/09/07	6.5	<100[1]	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000	
	07/23/07	29	<200[1]	<20[1]	<20[1]	<20[1]	<20[1]	<80[1]	NA	NA	
	10/15/07	Not Sampled									
	03/24/08	0.61	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA	
	05/30/08	3.2	<20[1]	<2.0[1]	<2.0[1]	<2.0[1]	<2.0[1]	<8.0[1]	NA	NA	
	07/10/08	3.0	<20[1]	<2.0[1]	<2.0[1]	<2.0[1]	<2.0[1]	<8.0[1]	NA	NA	
	10/01/08	5.2	25	<2.0[1]	<2.0[1]	<2.0[1]	<2.0[1]	<8.0[1]	NA	NA	
	02/10/09	11	27	<1.0	<1.0	<1.0	2.0	<4.0[1]	NA	NA	
	05/05/09	10	28	<2.0[1]	<2.0[1]	<2.0[1]	<2.0[1]	<8.0[1]	NA	NA	

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS
Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

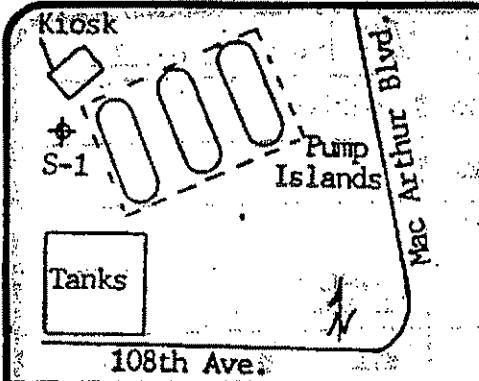
Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
<u>Note:</u>										
Oxygenates analyzed using EPA Method 8260B										
µg/L = micrograms per liter										
NA = Not analyzed										
[1] Reporting limits were increased due to high concentrations of target analytes										
[2] Reporting limits were increased due to sample foaming										
		MTBE = Methyl tertiary butyl ether TBA = Tertiary butyl alcohol DIPE = Di-isopropyl ether ETBE = Ethyl tertiary butyl ether TAME = Tertiary amyl methyl ether 1,2-DCA = 1,2-Dichloroethane EDB = 1,2-Dibromoethane								

**TABLE 1
DRILLING AND WELL CONSTRUCTION SUMMARY**

Former USA Station #57
10700 MacArthur Boulevard
Oakland, California

ID	Date	Boring Dia. (inches)	Boring Depth (feet bgs)	Casing Diameter (inches)	Casing Depth (feet bgs)	Slot Size (inches)	Screen Interval (feet bgs)	Status
Monitoring Wells								
S-1	2/12/87	8	40	3	40	0.02	20 to 40	Abandoned
S-2	2/12/87	8	40	3	40	0.02	20 to 40	Abandoned
MW-3	2/28/95	10	44	4	44	0.02	24 to 44	Abandoned
MW-4	11/20/95	10	40.5	4	40.5	0.02	10 to 40.5	Abandoned
MW-5	11/20/95	10	41	4	40	0.02	10 to 40	Abandoned
MW-6	11/20/95	10	40.5	4	40.5	0.02	10 to 40.5	Abandoned
MW-7	11/21/95	10	41	4	40	0.02	10 to 40	Abandoned
MW-8	11/21/95	10	35.5	4	35	0.02	10 to 35	Abandoned
Extraction Wells								
EX-1	10/6/05	10	25	4	25	0.02	5 to 25	Abandoned
EX-2	10/7/05	10	25	4	25	0.02	5 to 25	Abandoned
EX-3	10/6/05	10	25	4	25	0.02	5 to 25	Abandoned
EX-4	10/6/05	10	25	4	25	0.02	5 to 25	Abandoned
Air Sparge Wells								
AS-1	8/23/07	8	20	1	20	0.02	17.5 to 20	Abandoned
AS-2	8/23/07	8	25	1	20	0.02	17.5 to 20	Abandoned
Soil Borings								
A	2/12/87	8	20					
B	2/12/87	6	20					
C	2/12/87	6	20					
D	2/12/87	6	20					
B-1	2/28/95	8	46					
B-2	3/1/95	8	31					
B-3	3/1/95	8	21					
B-4	3/2/95	8	12					
B-5	3/2/95	8	12					
B-6	3/2/95	8	12					
B-7	3/2/95	8	12					

Note: In addition to the above, 20 temporary soil gas probes were installed at 4 feet bgs and 20 temporary soil gas probes were installed at 9 feet bgs during October 2009.



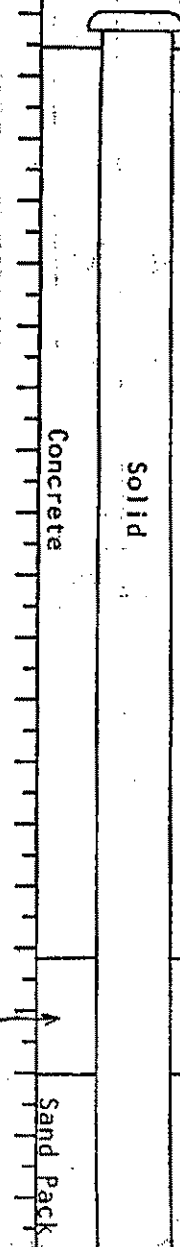
SHELL OIL COMPANY -- WELL LOG

PAGE 1 OF 2

WELL NUMBER	S-1	LOCATION	Oakland
DATE	2/12/87	WEATHER	Cool, rain
LOGGED BY	DM	DRILLED BY	Bayland: Ed, Curt
DRILLING METHOD	HSA	SAMPLING METHOD	Cal. Mod.
GRAVEL PACK	CA	SEAL	Bentonite & concrete

CASING	TYPE Schedule 40 PVC	DIAMETER	3"	LENGTH	20'	HOLE DIA	8"
SCREEN	TYPE Schedule 40 PVC SLOT .020"	DIAMETER	3"	LENGTH	20'	TOTAL DEPTH	40'

WELL NO.	DEPTH	REMARKS	WELL COMPLETION
	0	Concrete	Concrete
	1	(CL) olive-brown silty clay	
	2		
	3		
	4	(minor sand; no odor)	
	5	(gravelly at 5')	
	6		
	7		
	8		
	9	(SC) dark yellowish-brown clayey sand; trace fine gravel; no odor	Solid
	10		
	11		
	12		
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	18		
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LOCATION MAP

SHELL OIL COMPANY -- WELL LOG

PAGE 2 OF 2

See page 1 for details.

WELL NUMBER ▶ S-1	LOCATION ▶ Oakland
DATE ▶	WEATHER ▶
LOGGED BY ▶	DRILLED BY ▶
DRILLING METHOD ▶	SAMPLING METHOD ▶
GRAVEL PACK ▶	SEAL ▶

ELEVATION ▶

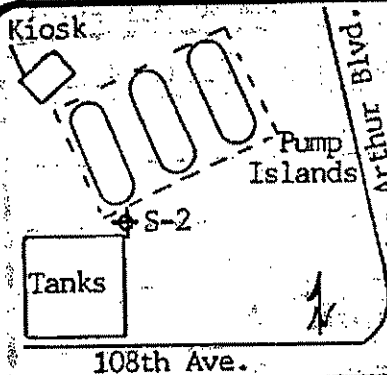
CASING ▶	TYPE	DIAMETER	LENGTH	HOLE DIA
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SCREEN ▶	TYPE	SLOT	DIAMETER	LENGTH	TOTAL DEPTH
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MOISTURE CONTENT	SOUNDING	DENSITY	PLASTICITY	SAMPLE NO.	MSU (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	WELL COMPLETION
						20		15 25	(SC) continued	
						1				
						2			(harder drilling)	
						3				
Dr-Dp	PS	VD			ND	4		50	yellowish-brown silty sandstone; deeply weathered; fractured; trace clay; no odor	
						5				
						6				
						7				
						8				
Dp		Hd			1	9		30 50	yellowish-brown claystone; no odor	
						30				
						1				
						2				
						3				
						4		30 50	(very closely fractured; deeply weathered; no odor to very slight odor)	
Dp		Hd			ND	5				
						6				
						7				
						8				
						9		50	dark grayish-brown silty sandstone; fractured	
Wt	PS	VD							Total Depth = 40'	

Sand Pack

Screens



SHELL OIL COMPANY -- WELL LOG

PAGE 1 OF 2

WELL NUMBER ▶ S-2	LOCATION ▶ Oakland
DATE ▶ 2/12/87	WEATHER ▶ cool, rainy
LOGGED BY ▶ DM	DRILLED BY ▶ Bayland: Ed, Curt
DRILLING METHOD ▶ HSA	SAMPLING METHOD ▶ Cal. Mod.
GRAVEL PACK ▶ CA	SEAL ▶ bentonite & concrete

CASING ▶ TYPE Schedule 40 PVC DIAMETER 3" LENGTH 20' HOLE DIA 8"

SCREEN ▶ TYPE Schedule 40 PVC SLOT .020" DIAMETER 3" LENGTH 20' TOTAL DEPTH 40'

MIXTURE	CONTENT	SIFTING	DENSITY	PLASTICITY	SAMPLE NO.	(#-#) (ID#)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	WELL COMPLETION
							0			concrete	Concrete
							1			(CL) gray silty clay; no odor	
							2				
							3				
Dp	WS					ND	4			P (SM) dark yellowish-brown silty sand; very fine-grained; no odor	
							5				
							6				
							7				
							8				
Dp			Hd	L		4.4	9			11 (CL) dark yellowish-brown sandy clay; very silty; moderate odor	
							10			22 30	
							1				
							2				
							3				
Dp			VSt	L		127	4			P (CL-ML) dark grayish-brown silty clay to clayey silt; no odor	
							5				
							6			Bentonite	
							7				
Dp	PS						8			(SC) dark yellowish-brown clayey sand; some gravel; silty; very fine-grained; no odor	Sand Pack
							9				

Solid

LOCATION MAP

SHELL OIL COMPANY -- WELL LOG

PAGE 2 OF 2

See page 1 for details.

WELL NUMBER ▶ S-2	LOCATION ▶ Oakland
DATE ▶	WEATHER ▶
LOGGED BY ▶	DRILLED BY ▶
DRILLING METHOD ▶	SAMPLING METHOD ▶
GRAVEL PACK ▶	SEAL ▶

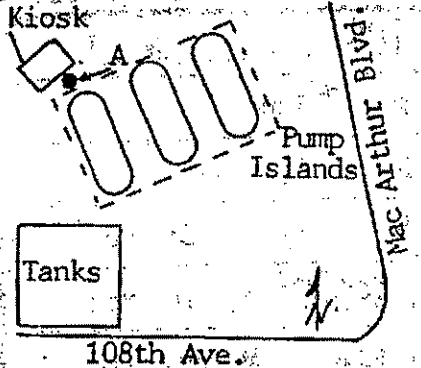
ELEVATION ▶

CASING ▶ TYPE	DIAMETER	LENGTH	HOLE DIA
---------------	----------	--------	----------

SCREEN ▶ TYPE	SLOT	DIAMETER	LENGTH	TOTAL DEPTH
---------------	------	----------	--------	-------------

WELL LOG	DEPTH	REMARKS	WELL COMPLETION
WETNESS CONTENT SWEATING DENSITY PLASTICITY SAMPLE NO. (H-HH) (H-HH)	DEPTH SAMPLE RECOVERY PENETRATION RESISTANCE	LITHOLOGY / REMARKS	WELL COMPLETION
Dp	P	20 (SC) continued	
		dark yellowish brown to dark grayish-brown sandstone; fractured; weathered; no odor	
Dp	P VD	30 (very closely fractured; very strong odor)	Sand Pack
		(fractured; moderate odor)	Screens
Wt	VD	(fractured; weathered; no odor) total depth = 40'	

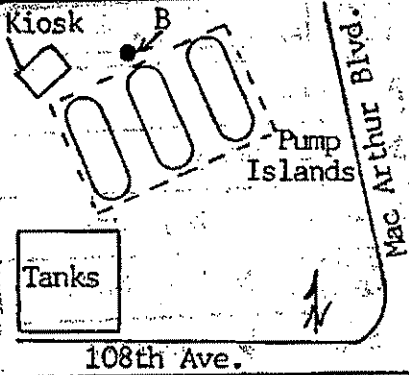
SHELL OIL COMPANY -- WELL LOG PAGE 1 OF 1



WELL NUMBER	Boring A	LOCATION	Oakland
DATE	2/12/87	WEATHER	cool, rainy
LOGGED BY	DM	DRILLED BY	Bayland: Ed, Curt
DRILLING METHOD	HSA	SAMPLING METHOD	Cal. Mod.
GRAVEL PACK	n/a	SEAL	concrete

CASING TYPE	n/a	DIAMETER	n/a	LENGTH	HOLE DIA	8"		
SCREEN TYPE	n/a	SLOT	n/a	DIAMETER	n/a	LENGTH	TOTAL DEPTH	20'

MIS-TYPE	CONTENT	SOILING	RODITY	PLASTICITY	SAMPLE NO.	N-HAL (ppm)	DEPTH	SAMPLE	RECOVERY	POSITIVE	RESISTANCE	LITHOLOGY / REMARKS	WELL COMPLETION
							0					concrete	
							1					asphalt (CL) olive silty clay; brown mottling	
							2						
							3						
Dp	PS					ND	4		P			(SC) olive-gray clayey sand; little gravel; no odor	
							5						
							6						
							7						
							8						
Dp			Hd	L		ND	9			8 18 20		(CL) dark yellowish-brown sandy clay; some silt; trace fine gravel; no odor	concrete
							10						
							1						
							2						
							3						
Dp			Hd	L		8.3	4			12 20 30		(increasing sand and fine gravel; slight odor)	
							5						
							6						
							7						
							8						
Dp						4.6	9					(SC) dark yellowish-brown clayey sand; some gravel; no odor	
												total depth = 20'; no water encountered	



SHELL OIL COMPANY -- WELL LOG

PAGE 1 OF 1

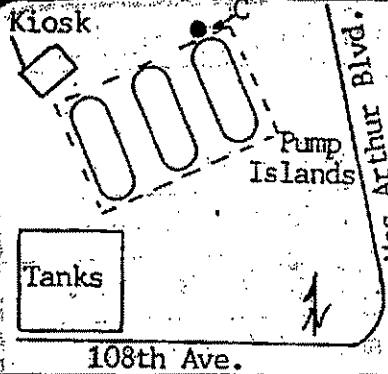
WELL NUMBER	Boring B	LOCATION	Oakland
DATE	2/12/87	WEATHER	cool, cloudy
LOGGED BY	DM	DRILLED BY	Bayland: Ed, Curt
DRILLING METHOD	CFA	SAMPLING METHOD	Cal. Mod.
GRAVEL PACK	n/a	SEAL	concrete

CASING	TYPE	n/a	DIAMETER	n/a	LENGTH	HOSE DIA	6"
--------	------	-----	----------	-----	--------	----------	----

SCREEN	TYPE	n/a	SLOT	n/a	DIAMETER	n/a	LENGTH	TOTAL DEPTH	20'
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DEPTH	RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	WELL COMPLETION
0			concrete; odor in base rock	concrete
1			(CL) yellowish-brown silty clay; trace fine sand; no odor	
2				
3				
4	P		(SM) dark yellowish-brown silty sand; fine to medium grained; no odor (gravelly at 5')	
5				
6				
7				
8			(CL) dark yellowish-brown sandy clay; some silt; no odor	
8	8			
9	20			
10	20			
1				
2				
3				
4	10		(very silty; no odor)	
5	20			
6	25			
7				
8			(SC) dark yellowish-brown clayey sand; some grave; silty; no odor	
9	10			
10	25			
11	30		total depth = 20'; no water encountered	

CONTENTS	DENSITY	PLASTICITY	SAMPLE NO.	W-MU (LPM)
Dp-Mst				
Dp MS			ND	
Dp Hd L			ND	
Dp Hd L			ND	
Dp PS VD			<1	



SHELL OIL COMPANY -- WELL LOG

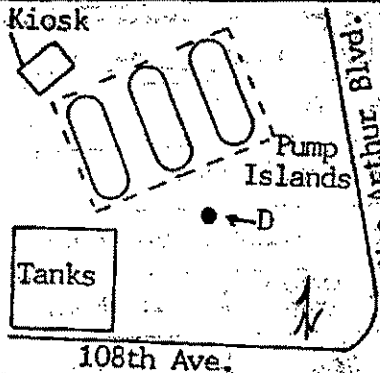
PAGE 1 OF 1

WELL NUMBER	Boring C	LOCATION	Oakland
DATE	2/12/87	WEATHER	cool, rainy
LOGGED BY	DM	DRILLED BY	Bayland: Ed, Curt
DRILLING METHOD	CFA	SAMPLING METHOD	Cal. Mod.
GRAVEL PACK	n/a	SEAL	concrete

CASING	TYPE	n/a	DIAMETER	n/a	LENGTH	HOLE DIA	6"
--------	------	-----	----------	-----	--------	----------	----

SCREEN	TYPE	n/a	SLOT	n/a	DIAMETER	n/a	LENGTH	TOTAL DEPTH	20'
--------	------	-----	------	-----	----------	-----	--------	-------------	-----

MOISTURE CONTENT	SPRING	DENSITY	PLASTICITY	SAMPLE NO.	N-MU (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	WELL COMPLETION
						0			concrete	concrete
						1			(SM-ML) dark yellowish-brown silty sand to sandy silt	
						2				
						3				
Dp						4			(fine to medium grained; no odor)	
Dp	MS				ND	5				
						6				
						7				
						8				
						9			(CL) dark yellowish-brown sandy clay; some silt; trace gravel; no odor	
Dp		Hd			ND	10				
						18				
						23				
						1				
						2				
						3				
						4			(very silty; no odor)	
Dp		Hd			<1	10				
						18				
						25				
						6				
						7				
						8				
						9				
Dp		Hd			14.2	10			(dark grayish-brown; slight odor)	
						18				
						20			total depth = 20'; no water encountered	



SHELL OIL COMPANY -- WELL LOG

PAGE 1 OF 1

WELL NUMBER ▶ Boring D	LOCATION ▶ Oakland
DATE ▶ 2/12/87	WEATHER ▶ cold, rainy
LOGGED BY ▶ DM	DRILLED BY ▶ Bayland: Ed, Curt
DRILLING METHOD ▶ CFA	SAMPLING METHOD ▶ Cal. Mod.
GRAVEL PACK ▶ n/a	SEAL ▶ concrete

CASING ▶ TYPE n/a	DIAMETER	LENGTH	HOLE DIA 6"
-------------------	----------	--------	-------------

SCREEN ▶ TYPE	SLOT	DIAMETER	LENGTH	TOTAL DEPTH 20'
---------------	------	----------	--------	-----------------

WELL TYPE	CONTENT	SOILING	DENSITY	PLASTICITY	SAMPLE NO.	W-VAL (DEPTH)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	WELL COMPLETION
Dp-Mst							0			concrete	concrete
							1			(CL) yellowish-brown silty clay; trace sand	
							2				
							3				
							4	P	(SW) dark grayish-brown sand		
							5				
							6				
							7				
							8				
Wt Dp	PS					18.2	9	P	(no odor)		
			Stf	L			10			(GC-SC) dark grayish-brown clayey gravel to sand; very silty; no odor	
							11				
							12				
							13				
							14				
Dp						ND	15	P	(CL) yellowish-brown silty clay; very silty; some very fine sand		
			Stf	L			16				
							17				
							18				
							19				
							20	P			
			VSt							total depth = 20'; no water encountered	

PROJECT NO.: 41-0034

LOCATION: USA Gas #57

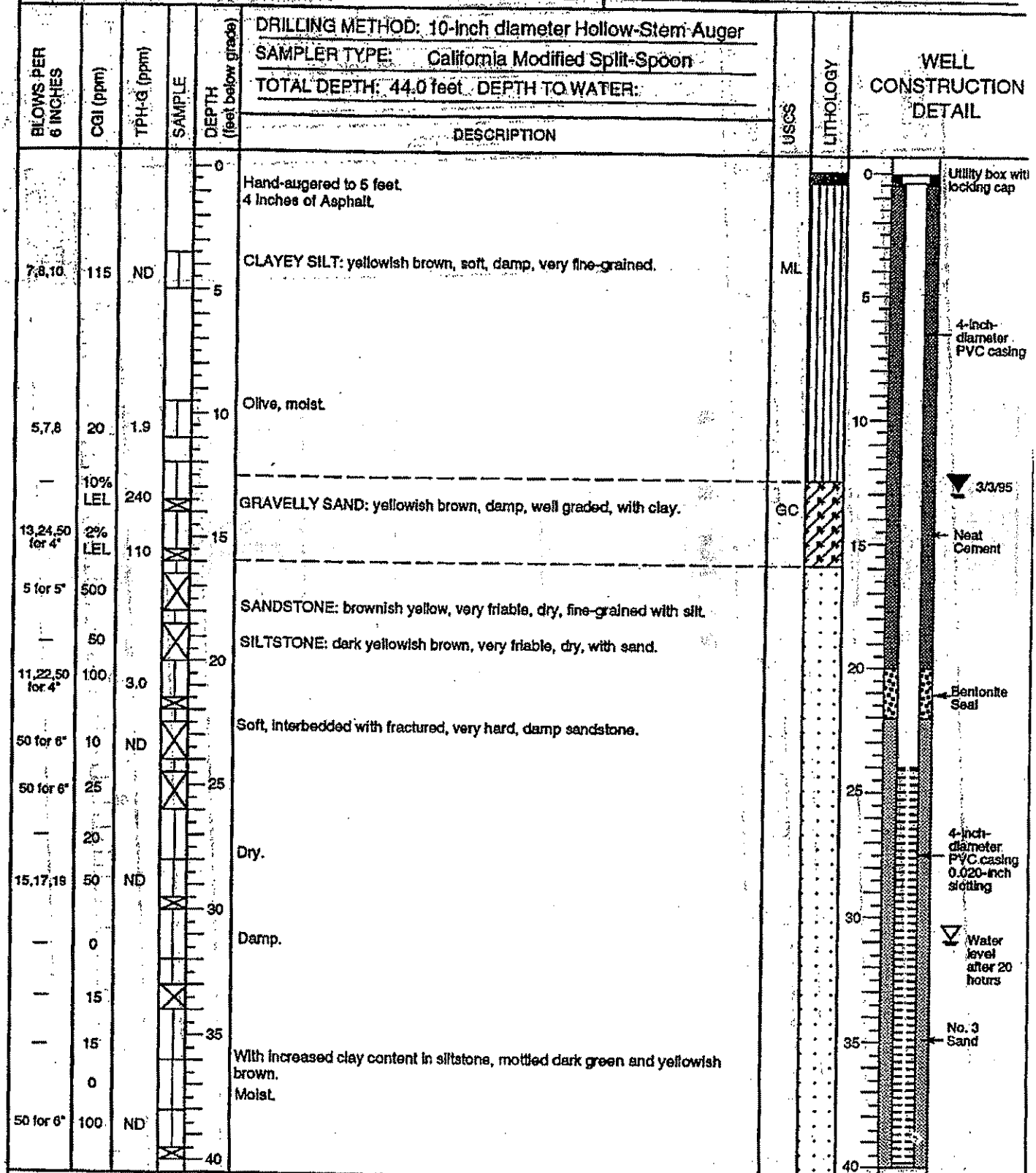
10700 MacArthur Boulevard
Oakland, California

DATE DRILLED: 2/28/95

LOGGED BY: A. Le May

APPROVED BY: M. Katen, RG

DRILLING CO.: Bayland Drilling



LOG OF EXPLORATORY BORING

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PAGE 1 OF 2

PROJECT NO.: 41-0034

LOCATION: USA Gas #57

10700 MacArthur Boulevard

Oakland, California

DATE DRILLED: 2/28/95

LOGGED BY: A. Le May

APPROVED BY: M. Katen, RG

DRILLING CO.: Bayland Drilling

BLOWS PER 6 INCHES	CCL (ppm)	TPH-G (ppm)	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 10-inch diameter Hollow-Stem Auger	USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
					SAMPLER TYPE: California Modified Split-Spoon			
				40				40
				45				45
				50				50
				55				55
				60				60
				65				65
				70				70
				75				75
				80				80



LOG OF EXPLORATORY BORING

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PAGE 2 OF 2

PROJECT NO.: 41-0034

LOCATION: USA Gas #57

10700 MacArthur Boulevard

Oakland, California

DATE DRILLED: 2/28/95

LOGGED BY: A. Le May

APPROVED BY: M. Katen, RG

DRILLING CO.: Bayland Drilling

BLOWS PER 6 INCHES	CGI (ppm)	TPH-G (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 8-inch diameter Hollow-Stem Auger	USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
				SAMPLER TYPE: California Modified Split-Spoon			
			0	Hand-augered to 4 feet. 6 inches of concrete.			
7,11,8	0	ND	5	SILTY CLAY: dark gray brown, soft, damp.	CL		
6,7,11	75	44	10	CLAYEY SILT: dark yellowish brown, soft, damp, few small pebbles.	ML		
6,11,15	70% LEL	540	15	GRAVELLY SAND: mottled dark yellow brown and green, loose, damp, with clay.	GC		
21,37,42	350	ND	20	From approximately 17 feet to bottom of hole: Interbedded sandstone and siltstone. SANDSTONE: light olive brown, very fractured and friable with calcium carbonate infill in fractures. SILTY CLAY (weathered bedrock): dark grayish brown, soft, damp at 10 feet.			
47 for 12'	5% LEL	3.9	25	Light olive brown, wet, with gravel. SANDSTONE: light olive brown, very fractured and friable with calcium carbonate infill in fractures.			
15,29,26	5% LEL	ND	30	SILTY CLAY (weathered bedrock): light olive brown, soft, wet, with gravel. GRAVELLY SAND (weathered bedrock): dark yellowish brown, loose, moist.			
12,15,19	175	ND	35	Interbedded with silty clay.			
41,27,35	175	ND	40				



LOG OF EXPLORATORY BORING

PROJECT NO.: 41-0034
 LOCATION: USA Gas #57
 10700 MacArthur Boulevard
 Oakland, California

DATE DRILLED: 2/28/95
 LOGGED BY: A. Le May
 APPROVED BY: M. Katen, RG
 DRILLING CO.: Bayland Drilling

BLOWS PER 6 INCHES	CGI (ppm)	TPH-G (ppm)	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 8-inch diameter Hollow-Stem Auger	USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
					SAMPLER TYPE: California Modified Split-Spoon			
27, 30 41, 101	40	4		40				
				45	GRAVELLY CLAY (weathered bedrock): dark yellowish brown, saturated, well graded, with sand and pebbles to 1/4 inch.			
				50		ML		
				55				
				60				
				65				
				70				
				75				
				80				



LOG OF EXPLORATORY BORING

PROJECT NO.: 41-0034

LOCATION: USA Gas #57

10700 MacArthur Boulevard

Oakland, California

DATE DRILLED: 3/1/95

LOGGED BY: A. Le May

APPROVED BY: M. Katen, RG

DRILLING CO.: Bayland Drilling

BLOWS PER 6 INCHES	CGI (ppm)	TPH-G (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 8-inch diameter Hollow-Stem Auger	USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
				SAMPLER TYPE: California Modified Split-Spoon			
				TOTAL DEPTH: 31.0 feet DEPTH TO WATER: 29.0 feet			
			0	Hand-augered to 5 feet. 4 inches of Asphalt.			0
11,12,17	60	ND	5	CLAYEY SILT: dark yellowish brown, soft, damp, fine-grained, low plasticity.	ML		5
11,16,21	80	ND	10	At approximately 10-foot depth includes small pebbles and mottled dark brown and green.			10
21,27,31	5% LEL	16	15	SANDY CLAY: dark yellowish brown, damp, fine-grained.	CL		15
				SANDSTONE: brownish yellow, fractured, damp, fine-grained, with clay.			
8,10,16	325	110	20	SANDY CLAY (weathered bedrock): dark yellowish brown, damp, fine-grained. SANDSTONE: brownish yellow, fractured, fine-grained, with green staining.			20
8,11,17	60 150% LEL	240	25	Interbedded with sandy clay. SANDY CLAY (weathered bedrock) to 25 feet, then fractured sandstone.			25
6,11,13	LEL off scale		30	GRAVELLY SAND (weathered bedrock): very dark grayish brown, loose, saturated, well graded.			30
			35				35
			40				40



LOG OF EXPLORATORY BORING

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PAGE 1 OF 1

PROJECT NO.: 41-0034

LOCATION: USA Gas #57

10700 MacArthur Boulevard

Oakland, California

DATE DRILLED: 3/1/95

LOGGED BY: A. Le May

APPROVED BY: M. Katen, RG

DRILLING CO.: Bayland Drilling

BLOWS PER 6 INCHES	CGI (ppm)	TPH-G (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 8-inch diameter Hollow-Stem Auger SAMPLER TYPE: California Modified Split-Spoon TOTAL DEPTH: 21.0 feet DEPTH TO WATER:		USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
				DESCRIPTION				
			0		Hand-augered to 5 feet. 4 inches Asphalt.			
5,7,10	0		5		CLAYEY SILT: brown, soft, damp, fine-grained, with sand and occasional pebbles.	ML		
8,10,8	5	ND	10		SANDY CLAY: very dark grayish brown, soft, damp, with small pebbles and a moderate amount of silt.	SC		
28,39,40	15	10	15		SANDSTONE: light yellowish brown, friable, very fractured, contains 3-inch thick layer of sandy clay at 15 feet.			
27,46,23	30	15	20		Interbedded with gravelly clay. GRAVELLY CLAY (weathered bedrock): dark olive brown, moderately soft, with large pebbles to 0.5-inch diameter.			Neat Cement Grout
			25					
			30					
			35					
			40					



LOG OF EXPLORATORY BORING

PROJECT NO.: 41-0034

LOCATION: USA Gas #57

10700 MacArthur Boulevard

Oakland, California

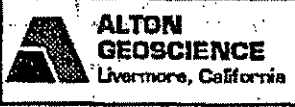
DATE DRILLED: 3/2/95

LOGGED BY: A. Le May

APPROVED BY: M. Katen, RG

DRILLING CO.: Bayland Drilling

BLOWS PER 6 INCHES	CGI (ppm)	TPH-G (ppm)	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 8-Inch diameter Hollow-Stem Auger SAMPLER TYPE: California Modified Split-Spoon TOTAL DEPTH: 12.0 feet DEPTH TO WATER: 3.0 feet	USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
DESCRIPTION								
				0	Hand-augered to 4 feet 6 inches Concrete			
5, 7, 13	5	ND		5	SANDY CLAY: olive brown, soft, saturated from surface, with small amount of pebbles.	OL		
7, 7, 8	16	ND		5	SAND: dark yellowish brown, loose, saturated, medium- to coarse-grained sand, poorly graded.	SP		
8, 15, 15	15	ND		10	SANDY CLAY: olive brown, medium soft, moist, with small amount of pebbles.	CL		
				15				
				20				
				25				
				30				
				35				
				40				



LOG OF EXPLORATORY BORING

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PAGE 1 OF 1

PROJECT NO.: 41-0034
 LOCATION: USA Gas #57
 10700 MacArthur Boulevard
 Oakland, California

DATE DRILLED: 9/2/95
 LOGGED BY: A. Le May
 APPROVED BY: M. Katen, RG
 DRILLING CO.: Bayland Drilling

BLOWS PER 6 INCHES	CGI (ppm)	TPH-G (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 8-Inch diameter Hollow-Stem Auger SAMPLER TYPE: California Modified Split-Spoon TOTAL DEPTH: 12.0 feet DEPTH TO WATER:		USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
				DESCRIPTION				
5,7,14	0	ND	0	Hand-augered to 4 feet. 6 inches Concrete.				
			5	SANDY CLAY: olive brown, very soft, damp, with small pebbles. Moist, with silt.		Cl		
15,16,21	15	ND	10					
			15					
			20					
			25					
			30					
			35					
			40					



LOG OF EXPLORATORY BORING

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 PAGE 1 OF 1

PROJECT NO.: 41-0034

LOCATION: USA Gas #57

10700 MacArthur Boulevard

Oakland, California

DATE DRILLED: 3/2/95

LOGGED BY: A. Le May

APPROVED BY: M. Katen, RG

DRILLING CO.: Bayland Drilling

BLOWS PER 6 INCHES	CGI (ppm)	TPH-G (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 8-Inch diameter Hollow-Stem Auger		USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
				SAMPLER TYPE: California Modified Split-Spoon				
				TOTAL DEPTH: 12.0 feet DEPTH TO WATER:				
				DESCRIPTION				
			0	Hand-augered to 4 feet 6 inches of Concrete.				0
2,25	130	33	3	SANDY CLAY: green olive gray, very soft, damp, with silt and occasional pebbles.		CL		
2,7,11	10	2,6	5	Olive gray.				
2,13,21	10	ND	10	SILTY CLAY: dark brown, soft, with occasional larger pebbles.				Neat Cement Grout
			15					
			20					
			25					
			30					
			35					
			40					



LOG OF EXPLORATORY BORING

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PAGE 1 OF 1

PROJECT NO.: 41-0034
 LOCATION: USA Gas #57
 10700 MacArthur Boulevard
 Oakland, California

DATE DRILLED: 3/2/95
 LOGGED BY: A. Le May
 APPROVED BY: M. Katen, RG
 DRILLING CO.: Bayland-Drilling

BLOWS PER 6 INCHES	CGI (ppm)	TPH-G (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 8-Inch diameter Hollow-Stem Auger SAMPLER TYPE: California Modified Split-Spoon TOTAL DEPTH: 12.0 feet DEPTH TO WATER:		USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
				DESCRIPTION				
			0		Hand-augered to 5 feet 6 inches Concrete.			
22.5	130	ND	1-4		SANDY CLAY: dark olive gray, very soft, damp, with silt and occasional pebbles.	CL		
27.11	60	ND	4-5		At 4.5 feet depth, dark brown, harder, increased silt content.			
	10	ND	5-6					
2,13.21	10	ND	10-11		Dark olive gray, medium hard, damp, with silt. At 11.5 feet depth, dark brown, hard.			
			15					
			20					
			25					
			30					
			35					
			40					



LOG OF EXPLORATORY BORING

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 PAGE 1 OF 1

PROJECT NO.: 41-0034

LOCATION: USA Gas #57

10700 MacArthur Boulevard

Oakland, California

DATE DRILLED: 3/2/95

LOGGED BY: A. Le May

APPROVED BY: M. Katen, RG

DRILLING CO.: Bayland Drilling

BLOWS PER 6 INCHES	CGI (ppm)	TPH-G (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 8-Inch diameter Hollow-Stem Auger SAMPLER TYPE: California Modified Split-Spoon TOTAL DEPTH: 12.0 feet DEPTH TO WATER:		USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
				DESCRIPTION				
4.4,7	90	17	0	Hand-augered to 4 feet 6 inches Concrete.		CL		
			4	SANDY CLAY: dark olive gray, very soft, damp.		SC		
			4.5	CLAYEY SAND: dark olive gray, very soft, damp, with some small gravel pebbles.		SC		
2.3,5	95	ND	5	GRAVELLY CLAY: dark olive gray, very soft, saturated.		CL		
			10	SILTY CLAY: dark yellowish brown, hard, damp, with rare small pebbles, with sand.		CL		
17,23,22	25	2.0	10.5					



LOG OF EXPLORATORY BORING

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PAGE 1 OF 1

PROJECT NO.: 41-0034
 LOCATION: USA Gas #57
 10700 MacArthur Boulevard
 Oakland, California

DATE DRILLED: 11/20/95
 LOGGED BY: A. Le May
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	PID (ppm)	TPH-G (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 10-inch diameter Hollow-Stem Auger SAMPLER TYPE: California Modified Split-Spoon TOTAL DEPTH: 40.5 feet DEPTH TO WATER: 15.0 feet		USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
				DESCRIPTION				
			0	Hand-augered to 5-feet.				0
9,14,15			5	SILTY SAND: dark yellowish brown, medium dense, damp, poorly graded.		SM		5
8,11,14	0	ND	10	SANDY SILT: dark yellowish brown, stiff, damp, with clay.		ML		10
18,21,34	5		15	SILTY SAND: dark yellowish brown, medium dense, moist, with clay, contains carbonate pebbles up to 0.13-inch diameter.		SM		15
18,31,34	0		20	SILTY SAND and GRAVEL Mixture: dark yellowish brown, medium dense, wet, with clay.				20
14,24,36	0		25	SILTY CLAYEY SAND and GRAVEL Mixture: strong brown, dense, damp, with pebbles to 0.5-inch diameter.		GC		25
12,18,23	0		30					30
9,22,31	0		35	Medium dense.				35
30,50	0		40	Increased silt content.				40



LOG OF EXPLORATORY BORING

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 PAGE 1 OF 1

PROJECT NO.: 41-0034
 LOCATION: USA Gas #57
 10700 MacArthur Boulevard
 Oakland, California

DATE DRILLED: 11/20/95
 LOGGED BY: A. Le May
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	PID (ppm)	TPH-G (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 10-inch diameter Hollow-Stem Auger SAMPLER TYPE: California Modified Split-Spoon TOTAL DEPTH: 41.0 feet DEPTH TO WATER: 25.0 feet		USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL	
				DESCRIPTION					
			0	Hand-augered to 5 feet. 4 inches Asphalt.				0	Monument box with locking cap
7,18,21	0		5	SILTY SAND: yellowish brown, medium dense, damp, fine-grained, poorly graded.		SM		5	Neat Cement
10,14,19	0	ND	10	CLAYEY SAND: dark yellowish brown, medium dense, damp, poorly graded, with occasional pebbles to 0.5-inch diameter.		SC		10	4-inch-diameter PVC casing Bentonite Seal
16,23,24	0	ND	15	SILTY SAND: dark yellowish brown, medium dense, damp, with gravel and some clay.		SM		15	
12,18,24	0		20					20	No. 3 Sand
6,9,15			25	No recovery, sampler saturated, gravel lense?		GM		25	4-inch-diameter PVC casing 0.020-inch slotting
10,15,24	0		30	SILTY CLAYEY SANDY GRAVEL: dark yellowish brown, loose, saturated, poorly graded.				30	
5,12,21	0		35	SILTY SAND: dark yellowish brown, medium dense, damp, with gravel and some clay.		SM		35	
			40	With lenses up to 4 inches of more gravel-rich, saturated.				40	End cap



LOG OF EXPLORATORY BORING

MW-5
 PAGE 1 OF 1

PROJECT NO.: 41-0034
 LOCATION: USA Gas #57
 10700 MacArthur Boulevard
 Oakland, California

DATE DRILLED: 11/20/95
 LOGGED BY: A. Le-May
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	PID(ppm)	TPH-G (ppm)	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 10-inch diameter Hollow-Stem Auger	USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
					SAMPLER TYPE: California Modified Split-Spoon			
				0	Hand-augered to 5 feet.			Monument box with locking cap
10,16,21			X	5	SILTY SAND for 2 inches; brown, dry, then SILTY SAND: dark yellowish brown, medium dense, damp with some clay.	SM		Neat Cement
				10	With gravel.			4-inch-diameter PVC casing
13,25,30	0	ND	X	10				Bentonite Seal
				15	SILTY SAND and GRAVEL Mixture: moist, with clay.			No. 3 Sand
9,18,28	0			15				
				20	Wet.			
18,21,24	0			20				
				25	Gravel-rich lenses up to 4-inch thick.	GC		
9,14,19	0			25				
				30	Saturated, poor recovery.			4-inch-diameter PVC casing 0.020-inch slotting
6,11,16			X	30				
				35	As above for 6 inches, damp. SILTY SANDSTONE BEDROCK: dark yellowish brown, dry, fractured and friable.			
12,50 for 4"			X	35				
				40	CLAYEY GRAVEL BEDROCK Interbedded: brown, loose, saturated, includes fractured bedrock pabbles.			End cap
12,17,17	0		X	40				



LOG OF EXPLORATORY BORING

MW-6
 PAGE 1 OF 1

PROJECT NO.: 41-0034
 LOCATION: USA Gas #57
 10700 MacArthur Boulevard
 Oakland, California

DATE DRILLED: 11/21/95
 LOGGED BY: A. Le May
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	PID(ppm)	TPH-G (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 10-inch diameter Hollow-Stem Auger SAMPLER TYPE: California Modified Split-Spoon TOTAL DEPTH: 41.0 feet DEPTH TO WATER: 20.0 feet		USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
				DESCRIPTION				
			0		Hand-augered to 5 feet.			Monument box with locking cap
6,11,19	0		5		SILTY SAND: dark yellowish brown, medium dense, damp, fine-grained, poorly graded.			Neat Cement
			10	ND	With clay and carbonate pebbles to 0.5-inch diameter.	SM		4-inch-diameter PVC casing
			15	ND				Bentonite Seal
8,15,23	0		20		Slight greenish color.			No. 3 Sand
10,13,20	>2,500	25	25					
14,19,22	>2,500		25		CLAYEY SANDY and GRAVEL Mixture: yellowish brown, medium dense, damp, pebbles to 0.13-inch diameter.	GC		4-inch-diameter PVC casing 0.020-inch slotting
17,31,32	0		30		SILTY SAND: dark yellowish brown, dense, damp; with gravel and clay.	SM		
23,50	0		35		SILTY SANDSTONE BEDROCK; light olive brown, very fractured, moist, very friable, with clay.			
13,22,32	0		40		With claystone interbeds, saturated.			End cap



LOG OF EXPLORATORY BORING

MW-7
 PAGE 1 OF 1

PROJECT NO.: 41-0034
 LOCATION: USA Gas #57
 10700 MacArthur Boulevard
 Oakland, California

DATE DRILLED: 11/21/95
 LOGGED BY: A. Le May
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	PID (ppm)	TPH-G (ppm)	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 10-inch diameter Hollow-Stem Auger	USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
					SAMPLER TYPE: California Modified Split-Spoon			
DESCRIPTION								
				0	Hand-augered to 5 feet.			Monument box with locking cap
10,14,24				5	SILTY SAND: dark yellowish brown, medium dense, damp, with gravel and clay.	SM		Neat Cement
				10	SILTY SANDSTONE BEDROCK: yellowish brown, friable, fractured, dry, very dense			4-inch-diameter PVC casing
50 for 3"	0	ND	X	10				Bentonite Seal
50 for 5"		ND	X	15				No. 3 Sand
50 for 5"		ND	X	20				
50 for 6"			X	25				
25,32,50	0		X	30	As above including 6 inches of strong brown claystone and sand.			4-inch-diameter PVC casing 0.020-inch slotting
28,50 for 6"	0		X	35				End cap
				40				



LOG OF EXPLORATORY BORING

MW-8
 PAGE 1 OF 1

SOIL BORING LOG

Boring No. EX-1

Sheet 1 of 2

Client	Former USA 57	Date	10/6/2005
Address	10700 MacArthur Blvd Oakland, CA	Drilling Company	Woodward Drilling Co. rig type: Mobil B-61
Project No.	2007-0057-01	Drilling Foreman	Amador
Logged By:	Justin Crose	Method	HSA hole diam.: 10"
Well Pack	sand: 4.5 ft. to 25 ft. bent.: 3.5 ft. to 4.5 ft. grout: 0.5 ft. to 3.5 ft.	Well Construction	casing: PVC screen: 5 to 25 ft. casing diam.: 4" screen slot: 0.02"

Sample Type	Sample No.	Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	Concrete		
						2	CL CLAY, olive brown 2.5Y 4/3, 10-15% fine sand, moist	0	
						3			
						4			
						5			
S	EX-1-6	3	16:13	60		6	SC CLAYEY SAND (5'-5.2'), brown 10YR 4/3, 75% fine sand, 25% clayey fines, moist	0	
		10				7	CL CLAY, dark grayish brown 2.5Y 4/3, 5-10% fine to medium sand, trace black MnO2, moist, stiff		
						8			
						9			
						10			
S	EX-1-11	7	16:28	70		11	CL CLAY, olive brown 2.5Y to dark grayish brown 2.5Y, moist	39	
		10				12			
						13			
						14			
						15			
S	EX-1-16	4	16:38	60		16	CL CLAY, dark grayish brown 2.5Y 4/2 with spots of greenish gray GLEY 1 & dark yellowish brown 10YR 4/6, 5% fine to coarse sand, moist, very stiff	>1000	
		20				17			
						18			
						19			
						20			

Comments: Drilled to 25 feet bgs



SOIL BORING LOG

Boring No. EX-1

Sheet 2 of 2

Client Former USA 57 Date 10/6/2005
 Address 10700 MacArthur Blvd Drilling Company Woodward Drilling Co. rig type: Mobil B-61
Oakland, CA Drilling Foreman Amador
 Project No. 2007-0057-01 Method HSA hole diam.: 10"
 Logged By: Justin Crose

Sample		Blow Count	Sample		Well Construc t.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	EX-1-21	7	16:56	90		2 1	CL	CLAY, light olive brown 2.5Y 5/6 to olive yellow 2.5Y, 10-15% fine to CLAY, dark grayish brown to very dark grayish brown 2.5Y with spots of greenish gray GLEY 1 & orange FeO2 stains, trace gravel, moist, hard	>1000
		19							
						2 2			
						2 3			
						2 4			
						2 5			
		50(4)	17:18	25		2 6	CL	CLAY to Mudstone, clay - dark yellowish brown 10YR to brownish yellow 10YR, mudstone - brown 10YR, 5-15% fine sand to fine gravel 4/3	527
						2 7			
						2 8			
						2 9			
						3 0			
						3 1			
						3 2			
						3 3			
						3 4			
						3 5			
						3 6			
						3 7			
						3 8			
						3 9			
						4 0			



SOIL BORING LOG

Boring No. EX-2

Sheet 1 of 2

Client	<u>Former USA 57</u>	Date	<u>10/7/2005</u>
Address	<u>10700 MacArthur Blvd</u>	Drilling Company	<u>Woodward Drilling Co.</u>
	<u>Oakland, CA</u>	rig type:	<u>Mobil B-61</u>
Project No.	<u>2007-0057-01</u>	Drilling Foreman	<u>Amador</u>
Logged By:	<u>Justin Crose</u>	Method	<u>HSA</u>
		hole diam.:	<u>10"</u>
Well Pack	<u>sand: 4.5 ft. to 25 ft.</u>	Well Construction	<u>casing: PVC</u>
	<u>bent.: 3.5 ft. to 4.5 ft.</u>		<u>screen: 5 to 25 ft.</u>
	<u>grout: 1 ft. to 3.5 ft.</u>		<u>casing diam.: 4"</u>
			<u>screen slot: 0.02"</u>

Sample Type	Sample No.	Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	Concrete		
						2	CLAY, yellowish brown 10YR 5/4 to brown 10YR 4/3, trace black MnO2, moist	7	
						3			
						4			
						5			
S	EX-2-6	4 8 22	8:38	70		6	CLAY, yellowish brown 10YR 5/4 to brown 10YR 4/3, trace black MnO2, trace caliche, moist, hard	0	
						7			
						8			
						9			
						10			
S	EX-2-11	10 12 28	8:45	80		11	CLAY, very dark brown 7.5YR to olive gray 5Y 5/2 with orange FeO2 stains, trace gravel, moist, hard	0	
						12			
						13			
						14			
						15			
		50(3)	8:57	20		16	CLAY, light olive brown 2.5Y 5/6, trace caliche, 5-10% fine to coarse sand, trace gravel, dry, hard	466	
						17			
						18			
						19			
						20			

Comments: Drilled to 25 feet bgs



SOIL BORING LOG

Boring No. EX-2

Sheet 2 of 2

Client Former USA 57 Date 10/7/2005
 Address 10700 MacArthur Blvd Drilling Company Woodward Drilling Co. rig type: Mobil B-61
Oakland, CA Drilling Foreman Amador
 Project No. 2007-0057-01 Method HSA hole diam.: 10"
 Logged By: Justin Crose

Sample		Blow Count	Sample		Well Construc t.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
		50(5)	9:20	25		2 1	CL CLAY, light olive brown 2.5Y 5/6 to olive yellow 2.5Y, 10-15% fine to medium sand, trace coarse sand and fine gravel, intermittent cementation, dry, hard	66	
						2 2			
						2 3			
						2 4			
						2 5			
		50(6)	9:40	30		2 6	CL CLAY to Mudstone, mudstone - white CaCO3 cementing, clay - olive gray 5Y 5/2 & very dark brown 7.5YR, dry to moist	45	
						2 7			
						2 8			
						2 9			
						3 0			
						3 1			
						3 2			
						3 3			
						3 4			
						3 5			
						3 6			
						3 7			
						3 8			
						3 9			
						4 0			



SOIL BORING LOG

Boring No. EX-3

Sheet 1 of 2

Client Former USA 57 Date 10/6/2005
 Address 10700 MacArthur Blvd Drilling Company Woodward Drilling Co. rig type: Mobil B-61
Oakland, CA Drilling Foreman Amador
 Project No. 2007-0057-01 Method HSA hole diam.: 10"
 Logged By: Justin Crose
 Well Pack sand: 4.5 ft. to 25 ft. Well Construction casing: PVC screen: 5 to 25 ft.
bent.: 3.5 ft. to 4.5 ft. casing diam.: 4" screen slot: 0.02"
grout: 0.5 ft. to 3.5 ft.

Type	Sample		Blow Count	Sample		Well Constr. ct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
	No.			Time	Recov.					
							1	CL	Asphalt	
							2	CL	CLAY, dark yellowish brown 10YR, trace black MnO2, 5% fine sand, moist	0
							3			
							4			
							5			
S	EX-3-6		4	12:46	80		6	CL	CLAY, dark yellowish brown 10YR 4/4, trace black MnO2 & calche, trace fine to coarse sand, moist, very stiff	0
			12				7			
							8			
							9			
							10			
S	EX-3-11		8	12:59	70		11	CL	CLAY, olive gray 5Y 4/2 to dark grayish brown 2.5Y 4/2 with orange FeO2 stains, trace fine to coarse sand, very stiff	0
			17				12			
							13			
							14			
							15			
S	EX-3-15.5		12	13:27	40		16	CL	CLAY, greenish gray to dark yellowish brown 10YR to dark grayish brown 2.5Y with orange FeO2 stains, trace fine sand, dry to moist, hard	45
			50(6)				17			
							18			
							19			
							20			

Comments: Drilled to 25 feet bgs



SOIL BORING LOG

Boring No. EX-3

Sheet 2 of 2

Client Former USA 57 Date 10/6/2005
 Address 10700 MacArthur Blvd Drilling Company Woodward Drilling Co. rig type: Mobil B-61
Oakland, CA Drilling Foreman Amador
 Project No. 2007-0057-01 Method HSA hole diam.: 10"
 Logged By: Justin Crose

Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	EX-3-20.5	50(6)	13:51	40		2 1	CL	CLAY, brown 10YR 4/3, 5-15% fine to coarse sand, weakly cemented, dry, hard	
						2 2			
						2 3			
						2 4			
						2 5			
S	EX-3-25.5	50(6)	14:32	35		2 6	CL	CLAY to Mudstone, clay - dark yellowish brown 10YR 4/6 to brownish yellow 10YR 6/8, mudstone - brown 4/3, dry, hard	
						2 7			
						2 8			
						2 9			
						3 0			
						3 1			
						3 2			
						3 3			
						3 4			
						3 5			
						3 6			
						3 7			
						3 8			
						3 9			
						4 0			



SOIL BORING LOG

Boring No. EX-4

Sheet 1 of 2

Client	<u>Former USA 57</u>	Date	<u>10/6/2005</u>
Address	<u>10700 MacArthur Blvd</u>	Drilling Company	<u>Woodward Drilling Co.</u>
	<u>Oakland, CA</u>	rig type:	<u>Mobil B-61</u>
Project No.	<u>2007-0057-01</u>	Drilling Foreman	<u>Amador</u>
Logged By:	<u>Justin Crose</u>	Method	<u>HSA</u>
		hole diam.:	<u>10"</u>
Well Pack	<u>sand: 4.5 ft. to 25 ft.</u>	Well Construction	<u>casing: PVC</u>
	<u>bent.: 3.5 ft. to 4.5 ft.</u>		<u>screen: 5 to 25 ft.</u>
	<u>grout: 0.5 ft. to 3.5 ft.</u>		<u>casing diam.: 4"</u>
			<u>screen slot: 0.02"</u>

Type	Sample No.		Blow Count	Sample Time		Recov.	Well Construc. ct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
								1		Drill on dirt	
								2		Top Soil, dry	
								3			
								4	SM	SILTY SAND, 80-85% fine sand, 15-20% silt, moist	231
								5	SW	SAND (3.7' to 5'), 95% fine to coarse sand, trace fine gravel, 5% fines, moist	237
S	EX-4-6		9 12 18	9:06	80			6	CL	CLAY, dark yellowish brown 10YR 4/4, trace black MnO2, trace fine sand to fine gravel, moist, very stiff	231
								7			
								8			
								9			
								10			
S	EX-4-11		8 8 10	9:18	80			11	CL	CLAY, dark grayish brown 2.5Y 4/2, moist, very stiff	>1000
								12			
								13			
								14			
								15			
S	EX-4-16.5		5 15 20	9:48	100			16	CL	CLAY, dark grayish brown 2.5Y 4/2, moist, hard	>1000
								17			
								18			
								19			
								20			

Comments: Drilled to 25 feet bgs



SOIL BORING LOG

Boring No. EX-4

Sheet 2 of 2

Client Former USA 57 Date 10/6/2005
 Address 10700 MacArthur Blvd Drilling Company Woodward Drilling Co. rig type: Mobil B-61
Oakland, CA Drilling Foreman Amador
 Project No. 2007-0057-01 Method HSA hole diam.: 10"
 Logged By: Justin Crose

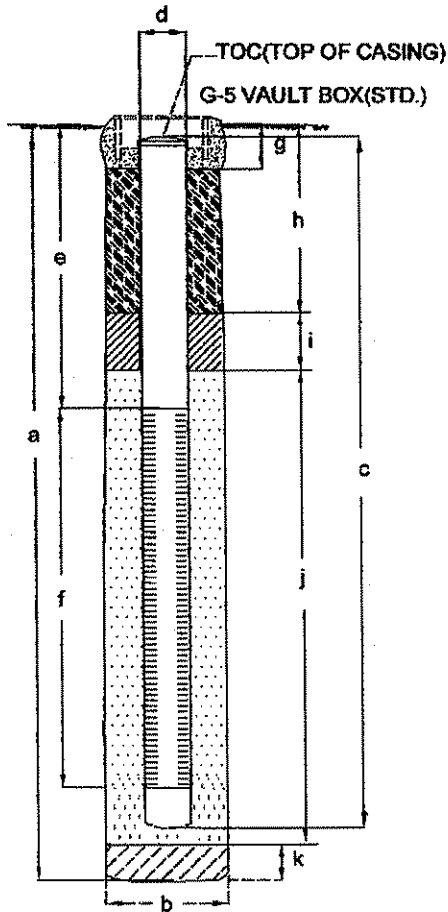
Sample		Blow Count	Sample		Well Construc t.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	EX-4-21	19 50(6)	10:06	70		2 1 2 2 2 3 2 4 2 5	CL CLAY WITH GRAVEL, dark yellowish brown 10YR 4/4 to olive gray 5Y 4/2, 5-25% gravel (lower % towards top of sample), orange FeO2 stains, damp to moist	450	
S	EX-4-25.5	50(6)	10:25	40		2 6 2 7 2 8 2 9 3 0 3 1 3 2 3 3 3 4 3 5 3 6 3 7 3 8 3 9 4 0	ML SILT, light olive brown 2.5Y 5/4 to dark yellowish brown 10YR, weakly cemented, dry, hard	91	








WELL DETAILS

PROJECT NUMBER: 2007-0057-01
 PROJECT NAME: USA 57
 LOCATION: 10700 MacArthur Blvd, Oakland, California
 WELL PERMIT NO.: W2005-0944

BORING/WELL NO.: EX-1
 TOP OF CASING ELEV.: 77.72'
 GROUND SURFACE ELEV.: 78.04'
 DATUM: NAD 83
 INSTALLATION DATE: October 6, 2005



- | | |
|---|---|
|  BENTONITE |  CONCRETE |
|  CEMENT |  SAND |
| |  PERFORATION |

NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 25 ft.
 b. DIAMETER 10 in.
 DRILLING METHOD Hollow stem auger

WELL CONSTRUCTION

c. TOTAL CASING LENGTH 25 ft.
 MATERIAL Schedule 40 PVC
 d. DIAMETER 4 in.
 e. DEPTH TO TOP PERFORATIONS 5 ft.
 f. PERFORATED
 INTERVAL FROM 5 TO 25 ft.
 PERFORATION TYPE Slotted Screen
 PERFORATION SIZE 0.02 in.
 g. SURFACE SEAL 0 to 1.0 ft.
 SEAL MATERIAL Concrete
 h. BACKFILL 1.0 to 3.5 ft.
 BACKFILL MATERIAL Neat Cement
 i. SEAL 3.5 to 4.5 ft.
 SEAL MATERIAL Bentonite
 j. FILTER PACK 4.5 to 25 ft.
 FILTER PACK MATERIAL #3 Sand
 k. BOTTOM SEAL _____
 SEAL MATERIAL N/A

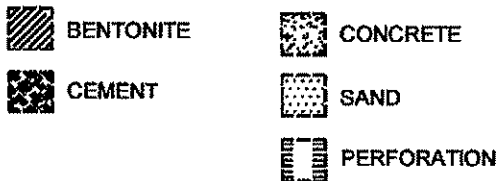
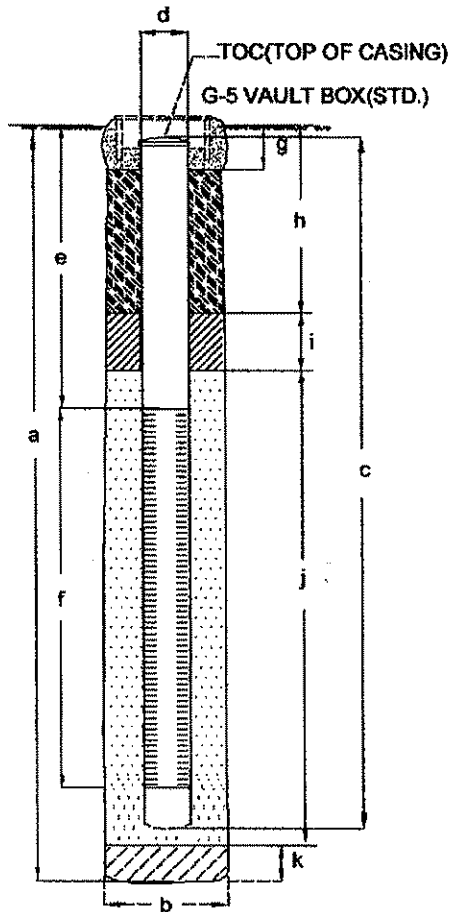
PREPARED BY _____ DATE _____

REVIEWED BY _____ DATE _____

WELL DETAILS

PROJECT NUMBER: 2007-0057-01
PROJECT NAME: USA 57
LOCATION: 10700 MacArthur Blvd, Oakland, California
WELL PERMIT NO.: W2005-0945

BORING/WELL NO.: EX-2
TOP OF CASING ELEV.: 76.96'
GROUND SURFACE ELEV.: 77.24'
DATUM: NAD 83
INSTALLATION DATE: October 7, 2005



NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 25 ft.
b. DIAMETER 10 in.
DRILLING METHOD Hollow stem auger

WELL CONSTRUCTION

c. TOTAL CASING LENGTH 25 ft.
MATERIAL Schedule 40 PVC
d. DIAMETER 4 in.
e. DEPTH TO TOP PERFORATIONS 5 ft.
f. PERFORATED
INTERVAL FROM 5 TO 25 ft.
PERFORATION TYPE Slotted Screen
PERFORATION SIZE 0.02 in.
g. SURFACE SEAL 0 to 1.0 ft.
SEAL MATERIAL Concrete
h. BACKFILL 1.0 to 3.5 ft.
BACKFILL MATERIAL Neat Cement
i. SEAL 3.5 to 4.5 ft.
SEAL MATERIAL Bentonite
j. FILTER PACK 4.5 to 25 ft.
FILTER PACK MATERIAL #3 Sand
k. BOTTOM SEAL _____
SEAL MATERIAL N/A

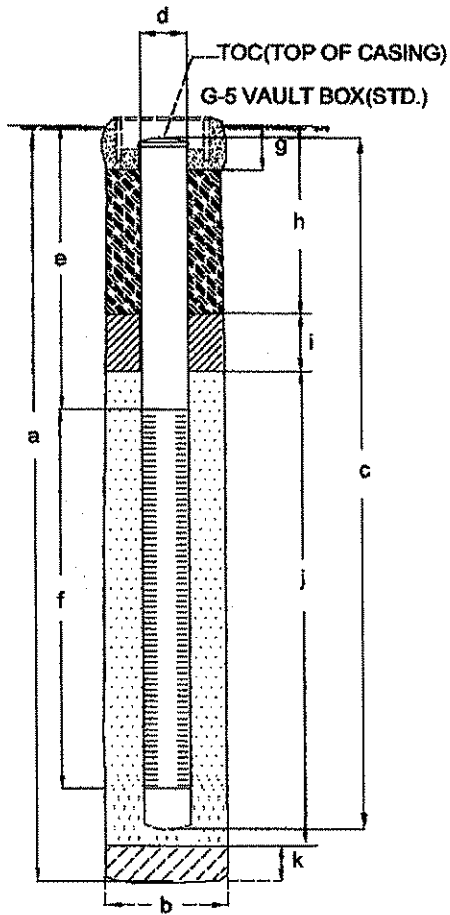
PREPARED BY _____ DATE _____

REVIEWED BY _____ DATE _____

WELL DETAILS

PROJECT NUMBER: 2007-0057-01
 PROJECT NAME: USA 57
 LOCATION: 10700 MacArthur Blvd, Oakland, California
 WELL PERMIT NO.: W2005-0946

BORING/WELL NO.: EX-3
 TOP OF CASING ELEV.: 78.87'
 GROUND SURFACE ELEV.: 79.52'
 DATUM: NAD 83
 INSTALLATION DATE: October 6, 2005



- | | | | |
|--|-----------|--|-------------|
| | BENTONITE | | CONCRETE |
| | CEMENT | | SAND |
| | | | PERFORATION |

NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 25 ft.
 b. DIAMETER 10 in.
 DRILLING METHOD Hollow stem auger

WELL CONSTRUCTION

c. TOTAL CASING LENGTH 25 ft.
 MATERIAL Schedule 40 PVC
 d. DIAMETER 4 in.
 e. DEPTH TO TOP PERFORATIONS 5 ft.
 f. PERFORATED
 INTERVAL FROM 5 TO 25 ft.
 PERFORATION TYPE Slotted Screen
 PERFORATION SIZE 0.02 in.
 g. SURFACE SEAL 0 to 1.0 ft.
 SEAL MATERIAL Concrete
 h. BACKFILL 1.0 to 3.5 ft.
 BACKFILL MATERIAL Neat Cement
 i. SEAL 3.5 to 4.5 ft.
 SEAL MATERIAL Bentonite
 j. FILTER PACK 4.5 to 25 ft.
 FILTER PACK MATERIAL #3 Sand
 k. BOTTOM SEAL _____
 SEAL MATERIAL N/A

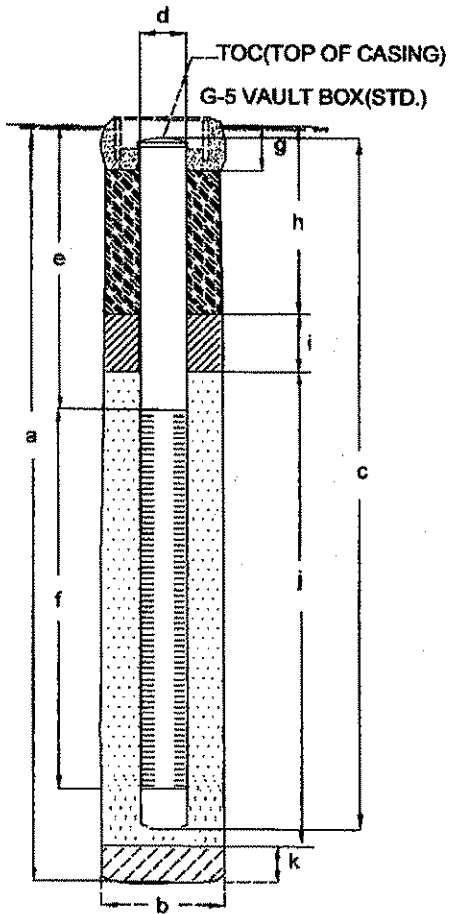
PREPARED BY _____ DATE _____






REVIEWED BY _____ DATE _____

WELL DETAILS

PROJECT NUMBER: 2007-0057-01
 PROJECT NAME: USA 57
 LOCATION: 10700 MacArthur Blvd, Oakland, California
 WELL PERMIT NO.: W2005-0947

BORING/WELL NO.: EX-4
 TOP OF CASING ELEV.: 77.96'
 GROUND SURFACE ELEV.: 78.27'
 DATUM: NAD 83
 INSTALLATION DATE: October 6, 2005



- | | | | |
|---|-----------|---|-------------|
|  | BENTONITE |  | CONCRETE |
|  | CEMENT |  | SAND |
| | |  | PERFORATION |

NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 25 ft.
 b. DIAMETER 10 in.
 DRILLING METHOD Hollow stem auger

WELL CONSTRUCTION

c. TOTAL CASING LENGTH 25 ft.
 MATERIAL Schedule 40 PVC
 d. DIAMETER 4 in.
 e. DEPTH TO TOP PERFORATIONS 5 ft.
 f. PERFORATED
 INTERVAL FROM 5 TO 25 ft.
 PERFORATION TYPE Slotted Screen
 PERFORATION SIZE 0.02 in.
 g. SURFACE SEAL 0 to 1.0 ft.
 SEAL MATERIAL Concrete
 h. BACKFILL 1.0 to 3.5 ft.
 BACKFILL MATERIAL Neat Cement
 i. SEAL 3.5 to 4.5 ft.
 SEAL MATERIAL Bentonite
 j. FILTER PACK 4.5 to 25 ft.
 FILTER PACK MATERIAL #3 Sand
 k. BOTTOM SEAL _____
 SEAL MATERIAL N/A

PREPARED BY _____ DATE _____

REVIEWED BY _____ DATE _____