

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 18, 2011

Mr. Abolghassem Razi  
Tony's Express Auto Services  
3609 International Blvd.  
Oakland, CA 94601

Subject: Case Closure for Fuel Leak Case No. RO0000265 and GeoTracker Global ID T0600101680,  
Tony's Express Auto Services, 3609 International Blvd., Oakland, CA 94601

Dear Mr. Razi:

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>).

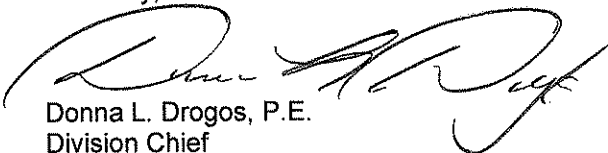
#### SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Total Petroleum Hydrocarbons as gasoline remain in soil at concentrations up to 810 ppm.
- Total Petroleum Hydrocarbons as gasoline remain in groundwater at concentrations up to 6,500 ppb.
- Benzene remains in groundwater at concentrations up to 120 ppb
- As described in section IV of the attached Case Closure Summary, the case was closed with Site Management Requirements that limit future land use to the current commercial land use only.

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](mailto:lgriffin@oaklandnet.com))

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

Mansour Sepehr  
SOMA Environmental Engineering  
6620 Owens Drive, Suite A  
Pleasanton, CA 94588  
(Sent via E-mail to: [msepehr@somaenv.com](mailto:msepehr@somaenv.com))

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

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



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**REMEDIAL ACTION COMPLETION CERTIFICATION**

January 18, 2011

Mr. Abolghassem Razi  
Tony's Express Auto Services  
3609 International Blvd.  
Oakland, CA 94601

Subject: Case Closure for Fuel Leak Case No.  
RO0000265 and GeoTracker Global ID T0600101680, Tony's Express Auto Services, 3609 International Blvd., Oakland, CA 94601

Dear Mr. Razi:

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,

A handwritten signature in black ink, appearing to read "Ariu Levi".

Ariu Levi  
Director  
Alameda County Environmental Health

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

Date: September 29, 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: Tony's Express Auto Service		
Site Facility Address: 3609 International Blvd., Oakland, CA 94601		
RB Case No.: 01-1812	Local Case No.: STID#3337	LOP Case No.: RO0000265
URF Filing Date: 12/14/1993	Geotracker ID: T0600101680	APN: 33-2177-1-1
Responsible Parties	Addresses	Phone Numbers
Mr. Abolghassem Razi	3609 International Blvd., Oakland, CA 94601	No Phone Number
---	---	---
---	---	---

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	10,000 gallons	Gasoline	Removed	07/01/1993
2	6,000 gallons	Gasoline	Removed	07/01/1993
1	550 gallons	Waste Oil	Removed	07/01/1993
Piping			Removed	07/01/1993

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. However, one hole was observed in the 10,000-gallon gasoline tank during tank removal.		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 14	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 5.8 feet bgs	Lowest Depth: 17.8 feet bgs	Flow Direction: 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 east (cross gradient) of the site. Based on the cross gradient location and distance from the site, the irrigation well is not expected to be a receptor for the site. An industrial well may be located approximately 1,200 feet east (cross gradient) of the site. Based on the cross gradient location and distance from the site, the suspected industrial well is not expected to be a receptor 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: Alameda Tidal Canal is approximately 2,700 feet southwest 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	1 - 10,000-gallon tank 1 - 6,000-gallon tank 1 - 550-gallon tank	The tanks were transported to H&H Environmental Systems in San Francisco, CA for disposal	07/01/1993
Piping	Not reported	The piping was transported to H&H Environmental Systems in San Francisco, CA for disposal	07/01/1993
Free Product	Not reported	--	--
Soil	350 to 400 cubic yards	The stockpiled soil from the tank removal was reportedly treated on site by addition of nutrients (nitrogen and phosphorus) and transported to Redwood Landfill in Novato, CA for disposal. Minimal documentation was provided.	Not reported
Groundwater	4,269,770 gallons	Treated on-site using granular activated carbon and discharged to sanitary sewer.	12/9/1999 to 9/4/2009

**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)	4,100	810	3,000,000(1)	6,500(1)
TPH (Diesel)	<1	<1	Not Analyzed	Not Analyzed
Total Oil and Grease	<10	<10	Not Analyzed	Not Analyzed
Benzene	12	1.1	190,000(1)	120(1)
Toluene	37	<0.63	740,000(1)	22(1)
Ethylbenzene	29	5.6	310,000(1)	70(1)
Xylenes	180	17	130,000(1)	480(1)
Lead	9(2)	9(2)	Not Analyzed	Not Analyzed
MTBE	<0.63(3)	<0.63(3)	74,000(4)	16(4)
Other (8240/8270)	Not Detected at Various Reporting Limits	Not Detected at Various Reporting Limits	Not Analyzed	Not Analyzed

- (1) The maximum concentration before cleanup is from a groundwater sample from well MW-1 collected 10/05/1994; the maximum concentration after cleanup is the maximum concentration detected during the most recent sampling event on 09/29/2009.
- (2) Lead = 9 ppm; Cadmium = 2.4 ppm; Chromium = 140 ppm; Nickel = 210 ppm; and Zinc = 330 ppm.
- (3) MTBE <0.63 ppm; TBA, TAME, ETBE, DIPE, EDB, and EDC not analyzed.
- (4) The maximum concentration before cleanup is from a groundwater sample from well MW-1 collected 11/19/2001; the maximum concentration after cleanup is the maximum concentration detected during the most recent sampling event on 09/29/2009; TBA <20 ppb, TAME, ETBE, DIPE, EDB, and EDC not analyzed.

#### Site History and Description of Corrective Actions:

The site is an active service station and auto repair facility. Surrounding land use is mixed commercial and residential. A smog testing facility is located east of the property and an apartment building is located beyond an alley south of the property. International Boulevard borders the site to the north and 36<sup>th</sup> Avenue borders the site to the west.

On July 18, 1992, six soil borings were advanced in the area of the underground storage tanks (USTs) and product lines. Total petroleum hydrocarbons as gasoline (TPHg) was detected in soil samples at concentrations ranging from 20 to 460 ppm.

Three USTs (10,000-gallon gasoline, 6,000-gallon gasoline, and 550-gallon waste oil) were removed from the site on July 1, 1993. Elevated concentrations of petroleum hydrocarbons were detected in soil samples collected from the tank excavation and piping areas. Excavation was extended to a depth of approximately 4 feet bgs beneath the piping and minimal overexcavation was conducted in the tank area.

In August 1993, 13 soil borings (B-1 through B-13) were advanced at the site with 3 of the borings converted into monitoring wells (STMW-1 through STMW-3). Petroleum odor and sheen were observed in wells STMW-1 and STMW-3. To allow for potential future vapor extraction, four 6-inch diameter vertical probes and two horizontal perforated pipes were also installed in August 1993 in the pump island area.

During two additional phases of investigation, six soil borings were advanced in August 1995, with five of the six borings converted to monitoring wells (STMW-4 through STMW-8) and five soil borings were advanced in August 1996, with three of the five six borings converted to monitoring wells (STMW-9 through STMW-11).

In December 1997, slug tests were conducted on selected monitoring wells. The estimated hydraulic conductivity of site soils ranged from 0.4 to 10.4 feet per day. An aquifer pumping test was conducted in May 1999 using monitoring well MW-3. In August 1999, a French drain was constructed along the downgradient portion of the property. The French drain was 3 to 4 feet wide, 75-foot long, and 20 to 21 feet deep. The center of the drain was used as an extraction point. Groundwater was pumped from the French drain, treated with granular activated carbon, and discharged to the sanitary sewer. The groundwater extraction system operated from December 1999 until September 2009.

In November 1999, one additional groundwater monitoring well (MW-12) was installed in a BART parking lot approximately 240 feet downgradient of the site. A soil sample collected at a depth of 15 feet bgs from the well boring contained 0.48 ppm of TPHg. A grab groundwater sample collected from the MW-12 well boring contained 1,110 ppb of TPHg, 27 ppb of benzene, and 250 ppb of MTBE. Based on these results and subsequent groundwater monitoring data from MW-12, the hydrocarbon plume from the site extends more than 240 feet from the site.

Soil vapor extraction testing was conducted on October 26, 1999. A soil vapor extraction (SVWE) system began operation on July 24, 2000. On April 1, 2005, a pilot test was conducted on wells MW-1, MW-3, and MW-6 to determine the permeability of the soil to air. Air sparging and vapor extraction wells were installed between November 17 and 23, 2005. An air sparging system was installed on March 6, 2006 to supplement the SVE system. The SVE system operated from July 24, 2000 until September 28, 2007 and removed 967 pounds of petroleum hydrocarbons.

On February 5, 2007, extraction well EX-1 was installed inside the UST backfill to address elevated concentrations of fuel hydrocarbons remaining in groundwater in the tank pit area. Extraction well EX-1 was connected to the groundwater extraction system on April 20, 2007.

A multi-phase extraction (MPE) pilot test was performed between December 3 and 7, 2007. During eight MPE events conducted at the site in 2008 and 2009, a cumulative mass of 817 pounds of VOCs were removed. Fuel hydrocarbon concentrations generally decreased in source area wells following the MPE events.

Site History and Description of Corrective Actions (Continued):

To evaluate potential vapor intrusion, seven soil vapor samples were collected on November 14, 2008. Benzene was detected in 6 of the 7 soil vapor samples at a maximum concentration of 78 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). TPHg was detected in the soil vapor samples at concentrations up to 75,000  $\mu\text{g}/\text{m}^3$ , which exceeds the residential ESL of 10,000  $\mu\text{g}/\text{m}^3$  and commercial ESL of 28,000  $\mu\text{g}/\text{m}^3$ . To evaluate detections of petroleum hydrocarbons detected in soil vapor adjacent to the apartment building south of the site, additional soil vapor sampling was conducted on May 10, 2010. Benzene and TPHg were detected at maximum concentrations of 7 and 60,000  $\mu\text{g}/\text{m}^3$ , respectively, in soil vapor samples collected near the apartment building during the May 10, 2010 sampling event. A human health risk evaluation was conducted using the maximum hydrocarbon concentrations detected in soil vapor and concluded that there was no significant risk of vapor intrusion to indoor air for the adjacent apartment building. Additional lines of evidence that support this conclusion include the relatively low concentrations of benzene detected in the soil vapor samples, apparent near ambient levels of oxygen in the subsurface, and decreasing trends in groundwater concentrations at the site.

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: Case closure for this fuel leak site is granted for the current commercial land use only. If a change in land use to any residential or other conservative land use scenario is proposed at this site, Alameda County Environmental Health (AECH) must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans.		
Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party (or current property owner/developer) prior to and during excavation and construction activities. This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: No	Number Decommissioned: 1	Number Retained: 13
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		



**V. ADDITIONAL COMMENTS, DATA, ETC.**

Considerations and/or Variances:

In November 2008, TPHg was detected in soil vapor samples collected along the southern margin of the site at concentrations up to 75,000 µg/m<sup>3</sup>, which exceeds the residential ESL of 10,000 µg/m<sup>3</sup> and commercial ESL of 28,000 µg/m<sup>3</sup>. The site is bordered by a residential apartment building to the south. To evaluate detections of petroleum hydrocarbons detected in soil vapor adjacent to the apartment building south of the site, additional soil vapor sampling was conducted on May 10, 2010. Benzene and TPHg were detected at maximum concentrations of 7 and 60,000 µg/m<sup>3</sup>, respectively, in soil vapor samples collected near the apartment building during the May 10, 2010 sampling event. A human health risk evaluation was conducted using the maximum hydrocarbon concentrations detected in soil vapor and concluded that there was no significant risk of vapor intrusion to indoor air for the adjacent apartment building. Additional lines of evidence that support this conclusion include the relatively low concentrations of benzene detected in the soil vapor samples, apparent near ambient levels of oxygen in the subsurface, and decreasing trends in groundwater concentrations at the site.

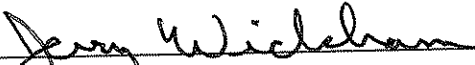
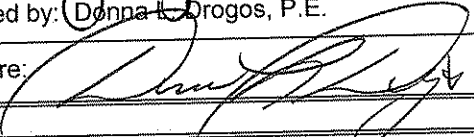
The plume of dissolved petroleum hydrocarbons extends more than 240 feet downgradient from the site. Based on the relatively low concentrations of volatile organic compounds in the off-site plume, the depth of the plume below ground surface, and the type of shallow soils in the area, the potential for vapor intrusion to downgradient properties appears to be minimal. No water supply wells that potentially could be impacted are located within the proximity of the hydrocarbon plume. Therefore, potential impacts to downgradient properties are probably limited to encountering groundwater containing petroleum hydrocarbons during dewatering for future subsurface construction.

No soil or groundwater samples were analyzed for TAME, DIPE, ETBE, EDB, or EDC.

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: 10/5/10
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: 	Date: 10/5/10

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

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**From:** Cherie McCaulou [cmccaulou@waterboards.ca.gov]  
**Sent:** Tuesday, October 05, 2010 3:55 PM  
**To:** Wickham, Jerry, Env. Health  
**Subject:** Re: Closure for 3609 International, Oakland

Jerry - The Regional Water Board has no objection to ACEH recommendation for closing the case located at 3609 Industrial in Oakland.

Sincerely,

Cherie McCaulou  
Engineering Geologist  
San Francisco Bay Regional Water Quality Control Board [cmccaulou@waterboards.ca.gov](mailto:cmccaulou@waterboards.ca.gov)  
510-622-2342

>>> "Wickham, Jerry, Env. Health" <[jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org)> 10/05/10  
>>> 2:24 PM >>>  
Hi Cherie,

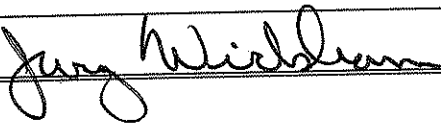
Here is notification of our intent to close fuel leak case R00000265 at 3609 International in Oakland.

Regards,  
Jerry Wickham  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
phone: 510-567-6791  
[jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org)

**VII. REGIONAL BOARD NOTIFICATION**

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 10/05/10	

**VIII. MONITORING WELL DECOMMISSIONING**

Date Requested by ACEH: 10/5/10	Date of Well Decommissioning Report: 01/14/11	
All Monitoring Wells Decommissioned: Yes No	Number Decommissioned: 24	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: 	Date: 01/18/11	

**Attachments:**

1. Site Vicinity Map (1 p)
2. Site Plan (1 p)
3. Groundwater Chemical Concentration Maps, TPH in Soil Vapor Contour Map, Groundwater Elevation Map, and Concentration Trend Graph (5 pp)
4. Soil and Soil Vapor Analytical Data (13 pp)
5. Groundwater Analytical Data (27 pp)
6. Boring Logs (49 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.



ATTACHMENT 1

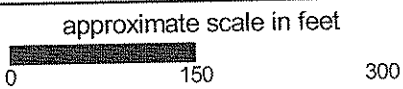


Figure 1: Site vicinity map.



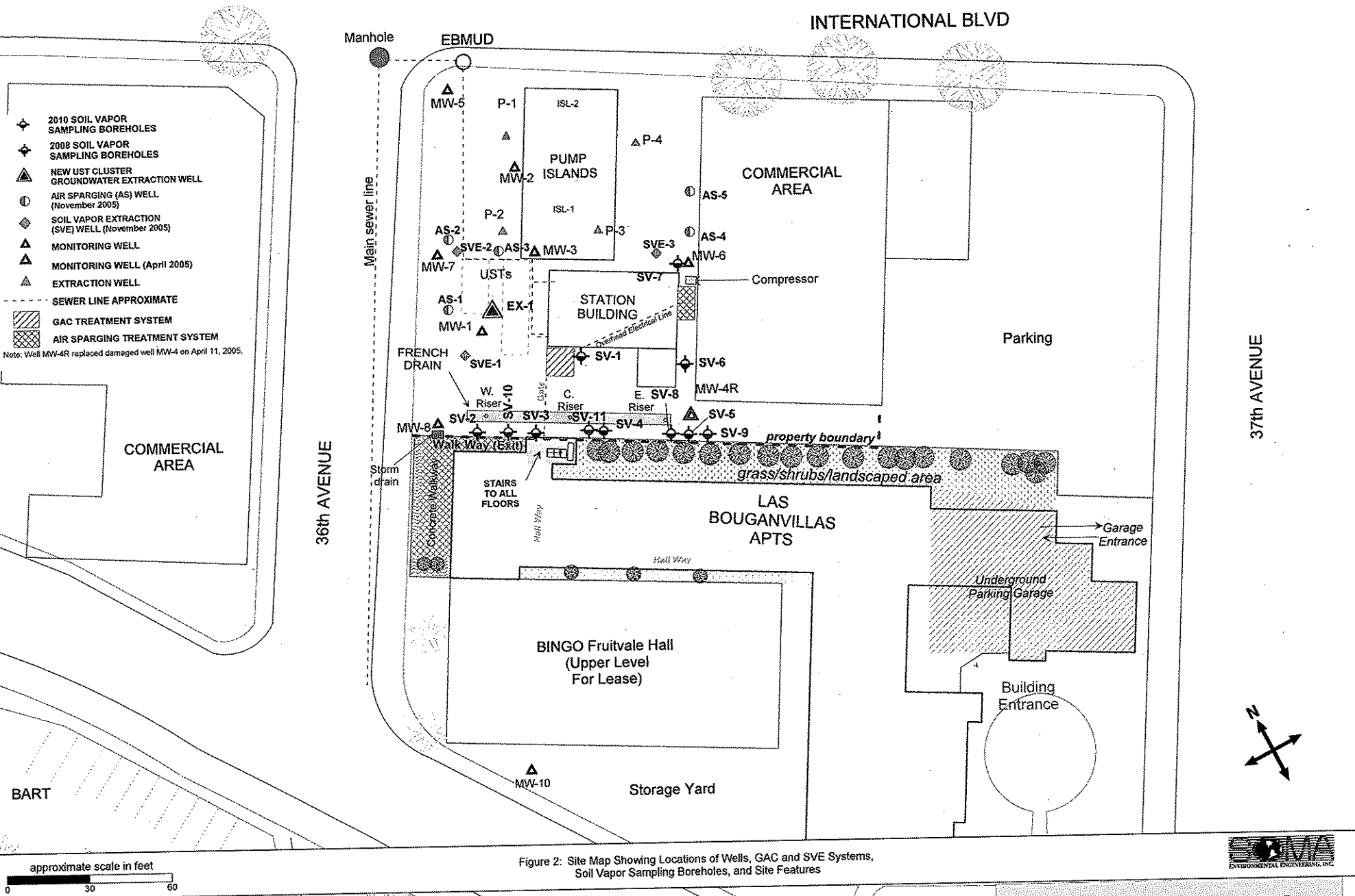


Figure 2: Site Map Showing Locations of Wells, GAC and SVE Systems, Soil Vapor Sampling Boreholes, and Site Features



INTERNATIONAL BLVD



COMMERCIAL AREA

MW-5

PUMP ISLANDS

MW-2

COMMERCIAL AREA

MW-7

USTs

MW-3

MW-6

Benzene ug/L

EX-1  
NA

STATION BUILDING

SVE TREATMENT SYSTEM

MW-1  
12

GAC TREATMENT SYSTEM

MW-8  
120

W. Riser

C. Riser

E. Riser

MW-4R  
NA



36th AVENUE

approximate groundwater flow towards FDC and EX-1

LAS BOUGANVILLAS APTS

MW-10  
91

MW-11  
NS

E 12th STREET

- ▲ MONITORING WELL
- ▲ EXTRACTION WELL (February 2007)
- ▲ MONITORING WELL (April 2005)
- NS NOT SAMPLED DUE TO OBSTRUCTIONS
- < LESS THAN LABORATORY REPORTING LIMIT
- NA NOT ANALYZED

Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.

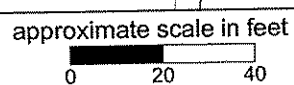


Figure 5: Contour map of benzene concentrations in the groundwater. Sep-Oct, 2009

INTERNATIONAL BLVD



COMMERCIAL AREA

MW-5

PUMP ISLANDS

MW-2

COMMERCIAL AREA

MW-7

USTs

MW-3

MW-6

EX-1

STATION BUILDING

SVE TREATMENT SYSTEM

MW-1

GAC TREATMENT SYSTEM

MW-8

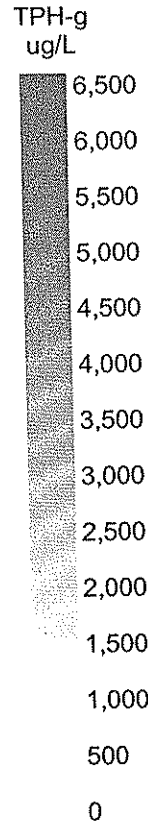
W. Riser

C. Riser

E. Riser

MW-4R

36th AVENUE



approximate groundwater flow towards FDC and EX-1

LAS BOUGANVILLAS APTS

MW-10

MW-11

E 12th STREET

- ▲ MONITORING WELL
- ▲ EXTRACTION WELL (February 2007)
- ▲ MONITORING WELL (April 2005)
- NS NOT SAMPLED DUE TO OBSTRUCTIONS
- < LESS THAN LABORATORY REPORTING LIMIT
- NA NOT ANALYZED

Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.

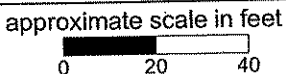


Figure 4: Contour map of TPH-g concentrations in the groundwater. Sep-Oct 2009



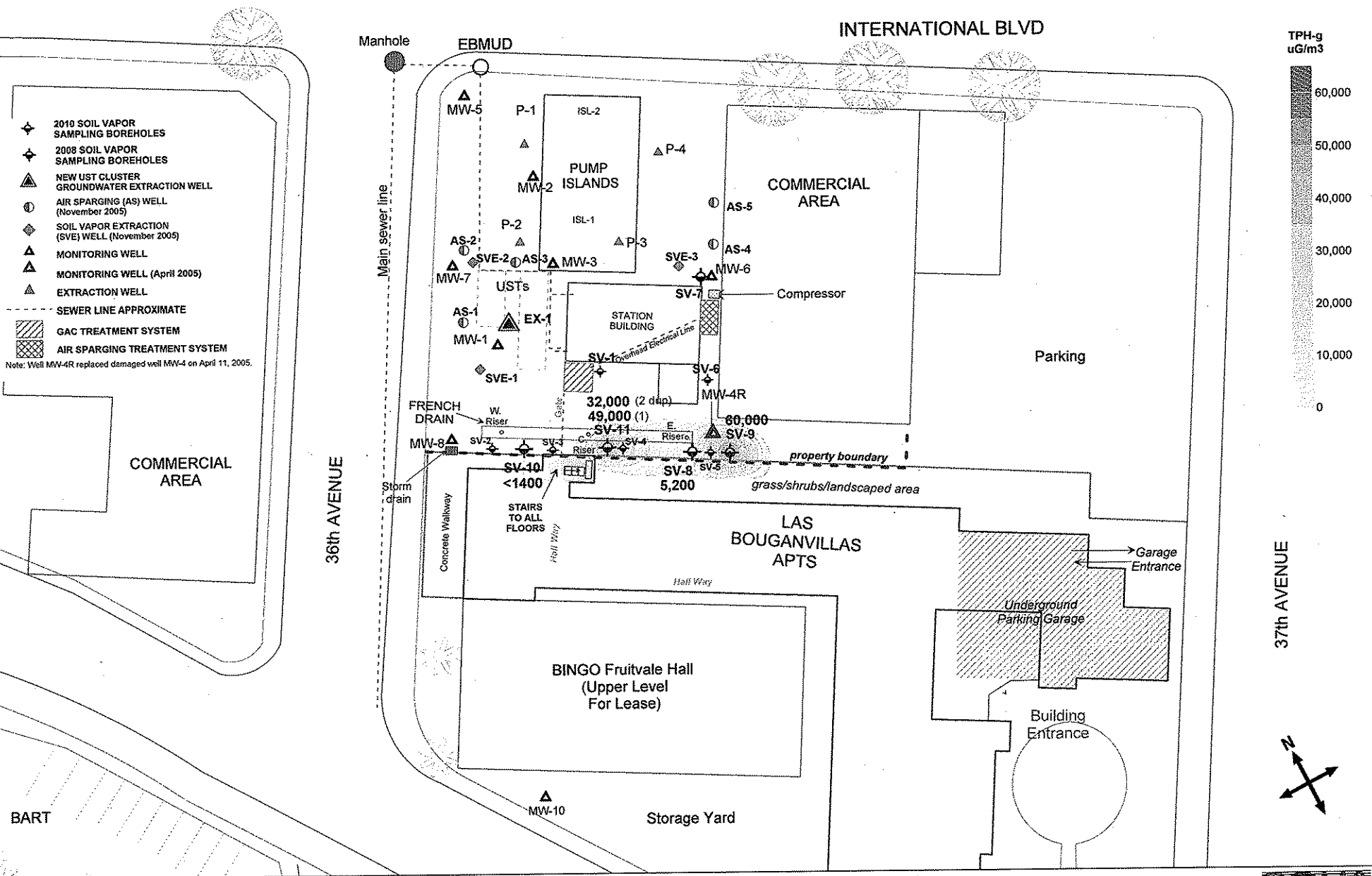
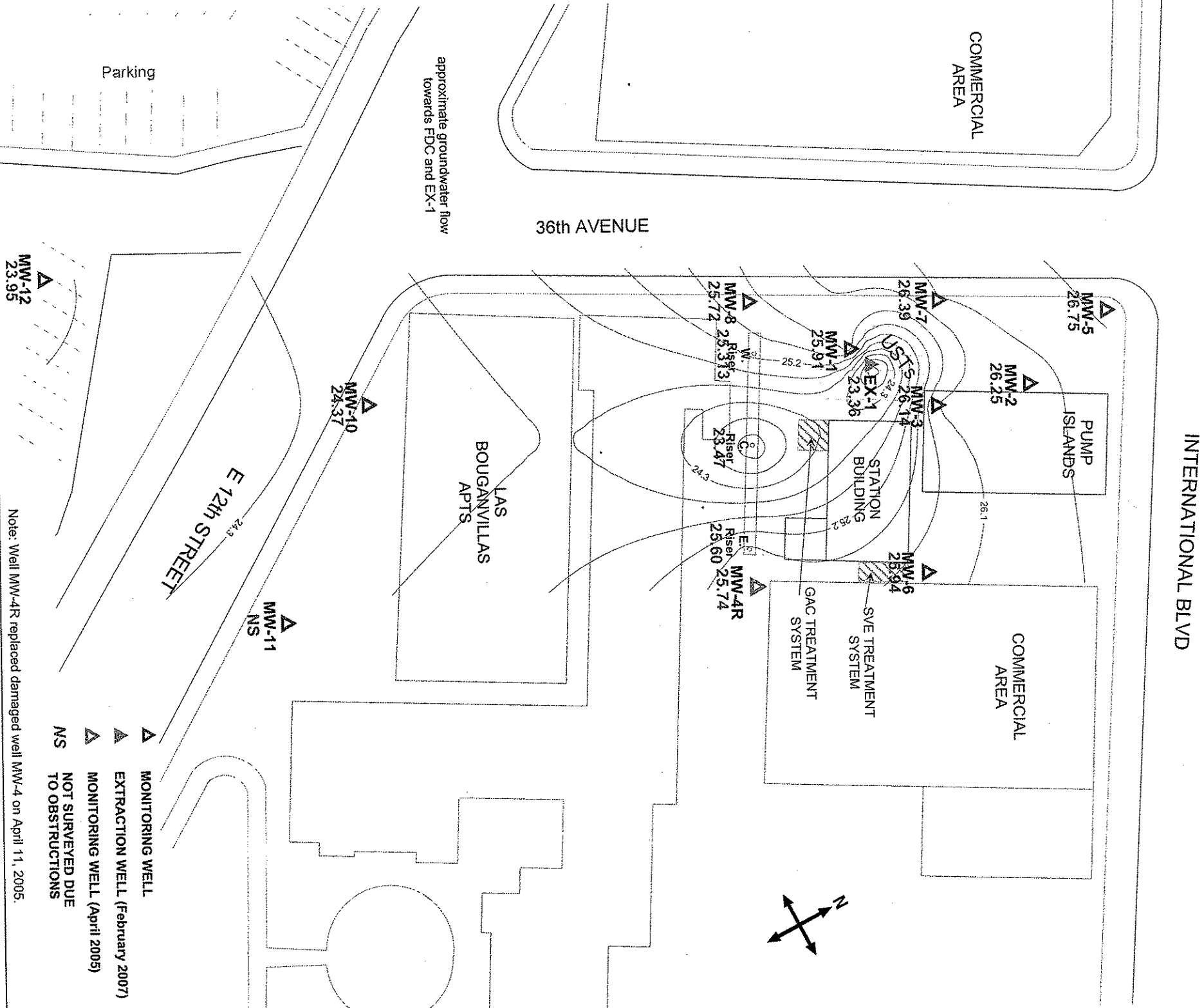


Figure 4: Contour Map Showing TPH-g Concentration in Soil Vapor





INTERNATIONAL BLVD

COMMERCIAL AREA

36th AVENUE

approximate groundwater flow towards FDC and EX-1

Parking

MW-5  
26.75

PUMP ISLANDS

MW-2  
26.25

COMMERCIAL AREA

MW-7  
26.39

MW-3  
26.14

MW-6  
26.94

GAC TREATMENT SYSTEM

SVE TREATMENT SYSTEM

STATION BUILDING

EX-1  
23.36

MW-1  
25.91

MW-8  
25.72

MW-4  
25.31

MW-4R  
25.74

MW-10  
24.37

MW-11  
NS

MW-12  
23.95

E 12th STREET

approximate scale in feet  
0 20 40

Figure 3: Groundwater elevation contour map in feet, September 29, 2009

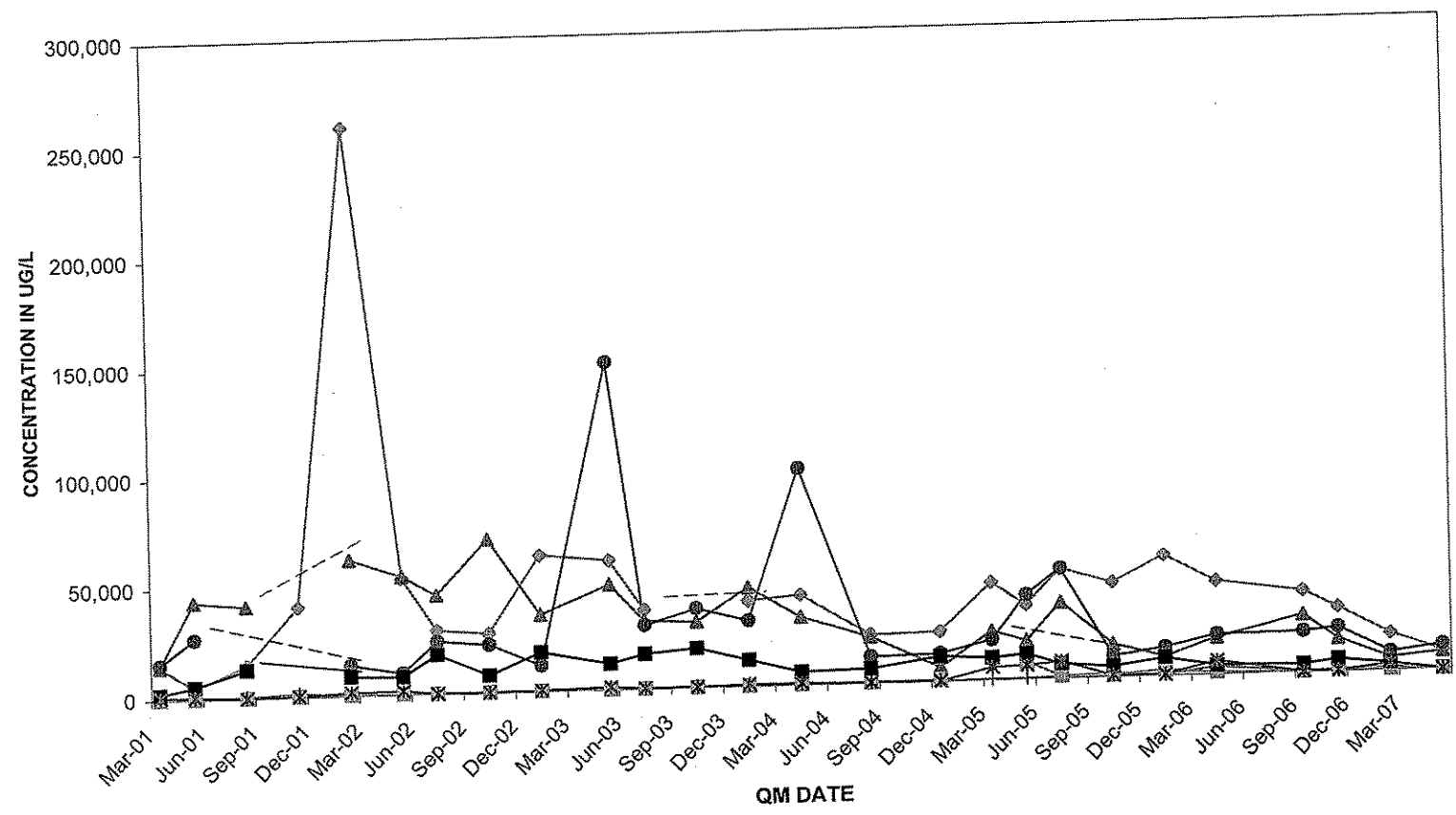
Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.

- ▲ MONITORING WELL
- ▲ EXTRACTION WELL (February 2007)
- ▲ MONITORING WELL (April 2005)
- NS NOT SURVEYED DUE TO OBSTRUCTIONS

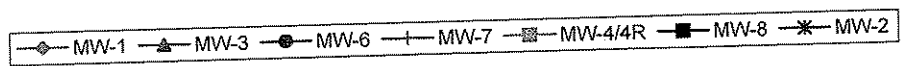


CHART 1

3609 INTERNATIONAL BOULEVARD, OAKLAND, CA.  
TPHg IN GROUNDWATER  
ONSITE MONITORING WELLS  
(hydraulically downgradient of product dispenser islands and UST cluster)



DASHED LINE - NOT SAMPLED



**TABLE 1  
SUMMARY OF SOIL ANALYSIS RESULTS  
FROM REMOVED UNDERGROUND TANKS  
IN  
MILLIGRAM PER KILOGRAMS (mg/Kg)**

**I. TPHd, TPHg, BTEX AND TOG RESULTS**

Date	Sample Number	Depth feet	TPHd	TPHg	B	T	E	X	TOG
7/01/93	1-12	12	NA	370	1.3	6.3	3.4	18	NA
	2-12	12	NA	640	2.7	10	4.9	27	NA
	3-12	12	NA	2.1	0.01	0.022	0.017	0.052	NA
	4-12	12	NA	20	0.68	0.37	0.34	1.3	NA
7/13/93	WO-1-7	7	ND	ND	ND	ND	ND	ND	ND
	WO-2-7	7	ND	ND	ND	ND	ND	ND	ND

**II. CADMIUM, CHROMIUM, LEAD, NICKEL, ZINC AND VOC'S RESULTS**

Date	Sample Number	Depth (feet)	Cd	Cr	Pb	Ni	Zn	VOC'S
7/01/93	WO-1-7	7	ND	140	9	210	53	ND
	WO-2-7	7	ND	140	ND	200	54	ND

VOC's - Volatile Organic Compounds  
 TPHd - Total Petroleum Hydrocarbons as diesel  
 TPHg - Total Petroleum Hydrocarbons as gasoline  
 BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes  
 ND - Not Detected (Below Laboratory Detection Limit)

TABLE 2 CONT'D  
SOIL SAMPLES ANALYTICAL RESULTS  
IN  
MILLIGRAMS PER KILOGRAM (mg/Kg)

B. TOG, VOC'S AND METALS RESULTS

Date	Sample #	Depth feet	TOG	VOC's	Cd	Cr	Pb	Ni	Zn
8/31/95	STMW-6-5	5	ND	ND	2.4	35	6.6	20	120
	STMW-6-10	10	ND	ND	1.5	28	4.0	120	330

- VOC's - Volatile Organic Compounds
- TPHd - Total Petroleum Hydrocarbons as diesel
- TPHg - Total Petroleum Hydrocarbons as gasoline
- BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
- TOG - Total Oil & Grease
- NA - Not Analyzed
- ND - Not Detected (Below Laboratory Detection Limit)

TABLE 1 CONT'D  
 SUMMARY OF SOIL ANALYSIS RESULTS  
 FROM OLD PIPING AND STOCKPILE  
 IN  
 MILLIGRAM PER KILOGRAMS (mg/Kg)

III. OLD PIPING SOIL SAMPLES RESULTS

Date	Sample Number	Depth feet	TPHg	B	T	E	X
7/13/93	B-1-5	5	75	0.23	0.43	0.5	1.1
	B-2-2	2	980	3.9	15	8.5	43
	B-3-2	2	4,100	12	75	29	180
	B-4-5	5	280	1.9	7.0	3.4	18
	B-5-5	5	97	1.8	4.0	1.2	6.8
	B-6-5	5	ND	0.045	0.011	0.006	0.01
	B-7-5	7	2.5	0.24	0.023	0.03	0.047
	B-8-5	5	530	2.8	7.5	5.3	27
	B-9-5	5	1,100	6.7	25	9.7	53
	B-10-2	2	1,900	5.2	37	17	85

TPHg - Total Petroleum Hydrocarbons as gasoline  
 BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes  
 ND - Not Detected (Below Laboratory Detection Limit)

TABLE 1  
 SUMMARY OF SOIL ANALYTICAL RESULTS  
 FROM EXPLORATORY BORINGS  
 IN  
 MILLIGRAMS PER KILOGRAM (mg/Kg)

Date	Sample No.	Depth Feet	TPHg	B	T	E	X
8/19/93	B-1-5	5	4.0	0.024	0.076	0.25	0.18
	B-1-10	10		1.8	5.0	6.0	31
	B-1-15	15	110	0.77	1.6	3.1	0.52
	B-2-6	6	ND	ND	0.007	0.02	ND
	B-2-12	12	110	0.67	1.4	3.7	0.64
	B-3-5	5	ND	ND	ND	ND	ND
	B-3-10	10	91	0.39	0.84	3.1	0.56
	B-3-15	15	500	2.4	8.2	3.4	17
	B-4-5	5	ND	ND	ND	ND	ND
	B-4-10	10	1.4	0.024	0.006	0.015	0.19
	B-4-15	15	ND	0.02	ND	0.018	ND
	B-5-5	5	ND	ND	ND	ND	ND
	B-5-10	10	ND	0.007	ND	ND	ND
	B-5-15	15	ND	0.053	0.016	0.008	0.018

TABLE 1 CONT'D  
 SUMMARY OF SOIL ANALYTICAL RESULTS  
 FROM EXPLORATORY BORINGS  
 IN  
 MILLIGRAMS PER KILOGRAM (mg/Kg)

Date	Sample No.	Depth Feet	TPHg	B	T	E	X
8/20/93	B-6-5	5	160	1.0	2.8	5.0	0.95
	B-6-10	10	220	1.7	3.7	1.4	6.9
	B-6-14	14	1,800	11	36	15	73
	B-7-5	5	ND	ND	ND	ND	ND
	B-7-10	10	18	0.37	0.51	0.21	0.95
	B-7-14	14	250	3.2	6.8	2.9	14
	B-8-5	5	ND	0.011	ND	0.005	0.014
	B-8-10	10	1.4	0.016	0.015	0.013	0.021
	B-8-14	14	150	0.52	0.28	0.85	2.4
	B-9-5	5	ND	ND	ND	ND	ND
	B-9-10	10	ND	ND	ND	ND	ND
	B-9-14	14	ND	ND	ND	ND	ND
	B-10-5	5	ND	ND	ND	ND	ND
	B-10-10	10	ND	0.021	ND	ND	ND
	B-10-14	14	1.6	0.009	ND	ND	ND

TABLE 1 CONT'D  
 SUMMARY OF SOIL ANALYTICAL RESULTS  
 FROM EXPLORATORY BORINGS  
 IN  
 MILLIGRAMS PER KILOGRAM (mg/Kg)

Date	Sample No.	Depth Feet	TPHg	B	T	E	X
8/20/93	B-11-5	5	ND	ND	ND	ND	ND
	B-11-10	10	ND	0.064	0.012	0.1	0.016
	<del>B-11-14</del>	<del>14</del>	<del>ND</del>	<del>2.0</del>	<del>6.3</del>	<del>4.5</del>	<del>2.4</del>
	B-12-5	5	ND	0.052	0.015	0.043	0.009
	B-12-10	10	ND	0.007	ND	ND	ND
	B-12-14	14	ND	0.008	ND	ND	ND
8/24/95	B-13-5	5	ND	ND	ND	ND	ND
	B-13-10	10	ND	0.036	ND	ND	ND
	B-13-14	14	17	0.051	0.028	0.14	0.046

TPHg - Total Petroleum Hydrocarbons  
 BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes  
 ND - Not Detected (Below Laboratory Detection Limit)



TABLE 2  
SUMMARY OF SOIL ANALYTICAL RESULTS  
FROM ISLAND TRENCHES  
IN  
MILLIGRAMS PER KILOGRAM (mg/Kg)

Date	Sample No.	Depth Feet	TPHg	B	T	E	X
8/25/93	ISL-1-4	4	1,300	4.6	12	5.1	43
	ISL-2-4	4	20	0.19	0.27	0.092	1.2
	ISL-3-4	4	460	1.4	6.2	3.3	22

TPHg - Total Petroleum Hydrocarbons as gasoline  
BTEX - Benzene, Toluene, Ethylbenzene and Total Xylenes

TABLE 2  
SOIL SAMPLES ANALYTICAL RESULTS  
IN  
MILLIGRAMS PER KILOGRAM (mg/Kg)

A. TPHD, TPHG AND BTEX RESULTS

Date	Sample No.	Depth feet	TPHd	TPHg	B	T	E	X
8/30/95	STMW-4-4	4	NA	ND	ND	ND	ND	ND
	STMW-4-8	8	NA	ND	ND	ND	ND	ND
	STMW-5-5	5	NA	ND	ND	ND	ND	ND
	STMW-5-10	10	NA	ND	ND	ND	ND	ND
	STMW-8-4	4	NA	ND	ND	ND	ND	ND
	STMW-8-8	8	NA	ND	ND	ND	ND	ND
	B-14-5	5	NA	ND	ND	ND	ND	ND
	B-14-10	10	NA	ND	ND	ND	ND	ND
8/31/95	STMW-6-5	5	ND	ND	ND	ND	ND	ND
	STMW-6-10	10	ND	ND	ND	ND	ND	ND
	STMW-7-5	5	NA	ND	ND	ND	ND	ND
	STMW-7-10	10	NA	ND	ND	ND	ND	ND

**TABLE 2**  
**SUMMARY OF SOIL OBSERVATIONS AND**  
**ANALYTICAL RESULTS**  
**IN MILLIGRAMS PER KILOGRAM (mg/Kg)**

Date	Sample I.D.	Depth (ft)	Soil Observation	TPHg	B	T	E	X
08/13/96	B-1-5	5	No odor	NA	NA	NA	NA	NA
	B-1-10	10	No odor	ND	ND	ND	ND	ND
08/13/96	B-2-5	5	No odor	NA	NA	NA	NA	NA
	B-2-10	10	V. light pet. odor	240	0.39	0.21	0.43	0.94
08/13/96	B-3-5	5	No odor	NA	NA	NA	NA	NA
	B-3-10	10	No odor	ND	ND	ND	ND	ND

TPHg - Total Petroleum Hydrocarbons as Gasoline

B - Benzene                      T - Toluene

E - Ethyl Benzene            X - Total Xylenes

Pet. - Petroleum



Total Volatile Hydrocarbons

Lab #:	192544	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2332	Analysis:	EPA 8015B
Field ID:	EX-1	Batch#:	121917
Matrix:	Soil	Sampled:	02/05/07
Units:	mg/Kg	Received:	02/07/07
Basis:	as received	Analyzed:	02/07/07

Type: SAMPLE Diln Fac: 25.00  
Lab ID: 192544-001

Analyte	Result	RL
Gasoline C7-C12	810	25

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	62-137
Bromofluorobenzene (FID)	108	60-148

Type: BLANK Diln Fac: 1.000  
Lab ID: QC374458

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	83	62-137
Bromofluorobenzene (FID)	88	60-148



## Purgeable Aromatics by GC/MS

Lab #:	192544	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2332	Analysis:	EPA 8260B
Field ID:	EX-1	Diln Fac:	125.0
Lab ID:	192544-001	Batch#:	122112
Matrix:	Soil	Sampled:	02/05/07
Units:	ug/Kg	Received:	02/07/07
Basis:	as received	Analyzed:	02/14/07

Analyte	Result	RL
MTBE	ND	630
Benzene	1,100	630
Toluene	ND	630
Ethylbenzene	5,600	630
m,p-Xylenes	17,000	630
o-Xylene	880	630

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	76-130
Toluene-d8	99	80-120
Bromofluorobenzene	98	80-126
Trifluorotoluene (MeOH)	103	53-133

**Table 1**  
**Soil Vapor Analytical Results**  
 3609 International Blvd.  
 Oakland, California  
 November 14, 2008

Compound	Sample ID										ESLs	
	SV-1 (uG/m3)	SV-1 Lab Duplicate (uG/m3)	SV-2 (uG/m3)	SV-3 (uG/m3)	SV-4-1 (uG/m3)	SV-4-2 (uG/m3)	SV-5 (uG/m3)	SV-5 Lab Duplicate (uG/m3)	SV-6 (uG/m3)	SV-7 (uG/m3)	Residential (uG/m3)	Commercial (uG/m3)
TPH-g	11000	NA	16000	16000	8400	8900	75000	66000	6800	16000	10,000	29,000
Benzene	4	3.9	47	12	28	28	78	NA	<2.5	5.1	84	280
Toluene	8.6	8.2	36	15	25	26	<42	NA	6.4	23	63,000	180,000
Ethyl Benzene	4.5	4.3	8.5	4.4	5.6	5.7	<49	NA	<3.4	12	980	3,300
Total Xylene	5.8	5.8	41	8.7	8	7.4	<49	NA	3.5	33.9	21,000	58,000
MtBE	<3.0	<3.0	58	<3.4	<3.4	<3.4	<40	NA	<2.8	<3.0	9,400	31,000
Acetone	120	130	330	190	200	210	230	NA	150	95	660,000	1,800,000
Hexane	11	12	64	11	46	60	15,000	NA	4.4	120	NL	NL
Carbon Tetrachloride	<5.3	<5.3	<5.5	<6.0	<5.9	<5.9	<70	NA	<5.0	20	19	63
2-Propanol	36	37	73	27	91	79	<110	NA	17	<8.1	NL	NL
2-Butanone	64	68	84	54	63	67	86	NA	37	49	1,000,000	2,900,000
Ethanol	13	12	7.4	14	8.3	8.6	<84	NA	7.4	19	NL	NL
-	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	-	-
Oxygen	22	NA	20	22	19	20	21	20	22	21	NA	NA
Methane	0.00085	NA	0.0061	0.0012	0.0019	0.0019	0.0041	0.0040	0.0002	0.00063	NA	NA
Carbon Dioxide	0.16	NA	1.7	0.18	1.7	1.6	0.87	0.84	0.069	0.12	NA	NA

**Notes:**

TPH-g: Total Petroleum Hydrocarbons, gasoline range

Modified EPA Method TO-15, TO-3, ASTM D-1945

NA: Not Analyzed

NL: Not Listed

Lab Duplicates: duplicate samples run by the laboratory for QC purposes

Duplicate SUMA canisters submitted for SV-4 (-1 and -2)

ESL: California Regional Water Control Board Environmental Screening levels, Interim Final November 2007, Revised May 2008, Table E, Indoor Air and Shallow Soil Gas

**Table 1**  
**Soil Vapor Analytical Results**  
 3609 International Blvd.  
 Oakland, California  
 May 6, 2010

Compound	Sample ID					ESLs	
	SV-8 (uG/m3)	SV-9 (uG/m3)	SV-10 (uG/m3)	SV-11-1 (uG/m3)	SV-11-2 (uG/m3)	Residential (uG/m3)	Commercial (uG/m3)
TPH-g	5,200	60,000	<1,400	49,000	32,000	10,000	29,000
Benzene	10.20	<16	6.98	<16	<16	84	280
Toluene	11.00	<19	5.62	<19	<19	63,000	180,000
Ethyl Benzene	<11.0	<22	<4.3	<22	<22	980	3,300
Total Xylenes	<22	<43	<8.6	<43	<43	21,000	58,000
MtBE	<9.0	<18	<3.6	<18	<18	9,400	31,000
Acetone	<48	<96	<19	<96	<96	660,000	1,800,000
Hexane	<8.8	<18	<3.5	<18	<18	NL	NL
Carbon Tetrachloride	<16	<32	<6.3	<32	<32	19	63
2-Propanol	6,280	11,700	950	13,000	5,080	NL	NL
2-Butanone	<7.5	<15	<3.0	<15	<15	1,000,000	2,900,000
Ethanol	NA	NA	NA	NA	NA	NL	NL
-	(%)	(%)	(%)	(%)	(%)	-	-
Oxygen	17	17.1	17.1	17.1	17.1	NA	NA
Methane	<0.0007	<0.0006	<0.0006	<0.0006	<0.0006	NA	NA
Carbon Dioxide	<0.033	<0.031	<0.031	<0.032	<0.030	NA	NA

Notes:

TPH-g: Total Petroleum Hydrocarbons, gasoline range

Modified EPA Method TO-15, TO-3, ASTM D-1946

NA: Not Analyzed

NL: Not Listed

< Less than reporting limit

Lab Duplicates: duplicate samples run by the laboratory for QC purposes

Duplicate SUMA canisters submitted for SV-11 (-1 and -2)

Table E, Indoor Air and Shallow Soil Gas

**Table 1**  
**Historical Groundwater Elevation Data & Analytical Results**  
**3609 International Boulevard, Oakland, California**

Monitoring Well	Date	Top Of Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE <sup>2</sup> EPA 8260B (µg/L)
MW-1	10/5/1994	97.99	15.39	82.60	320,000	24,000	21,000	2,600	15,000	NA
	12/5/1994	97.99	9.32	88.67	80,000	3,800	6,600	2,300	11,000	NA
	3/2/1995	97.99	8.07	89.92	32,000	190	160	150	490	NA
	6/6/1995	97.99	9.53	88.46	21,000	950	650	570	150	NA
	10/5/1995	97.99	13.29	84.70	59,000	140	130	140	390	NA
	1/2/1996	97.99	10.07	87.92	30,000	71	73	50	120	NA
	4/1/1996	97.99	8.29	89.70	31,000	98	120	63	170	NA
	12/3/1996	97.99	11.67	86.32	NA	NA	NA	NA	NA	NA
	4/9/1997	97.99	11.14	86.85	NA	NA	NA	NA	NA	NA
	12/10/1997	97.99	9.30	88.69	27,000	2,300	2,100	1,400	5,100	NA
	9/10/1998	97.99	13.58	84.41	NA	NA	NA	NA	NA	NA
	12/16/1998	97.99	11.10	86.89	65,000	2,500	2,400	2,300	9,500	160
	3/16/1999	97.99	9.91	88.08	17,000	480	860	850	3,000	190
	6/10/1999	97.99	11.10	86.89	25,000	1,110	1,460	1,330	5,265	77
	8/23/1999	97.99	13.35	84.64	19,750	678	463	893	2,938	38
	11/9/1999	97.99	14.45	83.54	10,000	693	15	<5	3,471	50
	2/7/2000	97.99	11.20	86.79	40,000	2,280	1,380	8	6,130	47
	5/31/2000	97.99	11.49	86.50	15,610	610	350	310	1,400	<5
	8/9/2000	97.99	13.36	84.63	11,000	638	<5	<5	<5	17.1
	11/2/2000	97.99	13.20	84.79	7,050	435	52	ND	689	10
3/13/2001	97.99	8.96	89.03	14,570	1,005	440	108	2,030	16	
5/22/2001	97.99	11.50	86.49	4,900	310	81	82	388	150	
8/8/2001	97.99	13.51	84.48	14,820	852	342	568	1,606	2,000	
11/19/2001	97.99	14.01	83.98	41,000	2,700	5,100	1,000	4,570	74,000	
2/21/2002	97.99	10.11	87.88	260,000	3,700	12,000	3,700	19,200	23,000	
5/7/2002	97.99	10.86	87.13	53,000	4,400	5,100	1300	7,000	32,000	
7/30/2002	40.11	12.80	27.31	29,000	2,400	2,500	920	4,400	13,000	
10/2/2002	40.11	15.50	24.61	27,000	2,200	2,400	950	4,500	34,000	



**Table 1**  
**Historical Groundwater Elevation Data & Analytical Results**  
**3609 International Boulevard, Oakland, California**

Monitoring Well	Date	Top Of Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MIBE <sup>2</sup> EPA §260B (µg/L)
MW-1 cont.	1/3/2003	40.11	9.73	30.38	62,000	3,500	6,000	1600	9,700	48,000
	5/3/2003	40.11	9.71	30.40	59,000	3,100	2,700	1500	7,000	14,000
	7/24/2003	40.11	12.44	27.67	36,000	4,800	1,800	1300	5,600	25,000
	10/22/2003	40.11	13.89	26.22	630,000 H	3,300	1900 C	3600	27,700	15,000
	1/22/2004	40.11	10.45	29.66	39,000	3,100	1,600	950	4,300	8,500
	4/1/2004	40.11	11.49	28.62	41,000	1,200	350C	830	2,740	4,300
	8/20/2004	40.11	13.81	26.30	22,000	2,000	220	560	3,090	6,900
	12/8/2004	40.11	11.10	29.01	22,790	1,634	319	895	2,851	5,504
	3/16/2005	40.11	8.40	31.71	44,400	3,150	811	1,090	2,856	7,180
	5/16/2005	40.11	9.72	30.39	33,900	3,440	1,700	1,090	2,276	3,210
	7/14/2005	40.11	11.31	28.80	50,100	4,350	1,760	1,500	2,853	3,980
	10/13/2005	40.11	13.51	26.60	43,100	1,960	325	639	3,080	3,000
	1/3/2006	40.11	8.82	31.29	55,000	1,100	510	1,100	4,070	2,200
	4/7/2006	40.11	7.12	32.99	42,500	1,780	1,010	1,610	2,449	2,110
	9/8/2006	40.11	12.64	27.47	37,200	3,280	1,460	1,290	2,685	2,180
	11/29/2006	40.11	12.49	27.62	29,400	2,490	782	1,510	1,815	1,540
	2/27/2007	40.11	9.68	30.43	17,000	1,400	452	989	1,583	1,150
	5/24/2007	40.11	11.58	28.53	8,630	575	121	306	687	235
	8/21/2007	40.11	13.34	26.77	7,480	544	87	356	537	172
	11/15/2007	40.11	12.73	27.38	18,500	413	93.1	523	627	86.6
	2/22/2008	40.11	9.82	30.29	3,450	20.7	3.73	60.2	78.0	8.11
	5/7/2008	40.11	12.09	28.02	4,470	26.1	14.8	57.6	464.6	10.6
	8/6/2008	40.11	13.43	26.68	3,400	17	7.8	73	309	3.7
11/4/2008	40.11	13.69	26.42	7,500	40	49	190	810	8.7	
11/13/2008	40.11	NM	NM	7,700	43	30	180	740	8.8	
3/24/2009	40.11	10.44	29.67	3,100	14	6.6	90	216	5.1	
6/8/2009	40.11	12.05	28.06	4,900 <sup>Y</sup>	8.7	12	110	461	2.2	
9/29/2009	40.11	14.20	25.91	2,600 <sup>Y</sup>	12	15	54	222	<1.0	

**Table 1**  
**Historical Groundwater Elevation Data & Analytical Results**  
**3609 International Boulevard, Oakland, California**

Monitoring Well	Date	Top Of Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE <sup>2</sup> EPA 8260B (µg/L)
MW-2	10/1/1994	98.58	15.36	83.22	NA	NA	NA	NA	NA	NA
	12/1/1994	98.58	8.60	89.98	NA	NA	NA	NA	NA	NA
	3/6/1995	98.58	7.68	90.90	490	3	3	3	1	NA
	6/5/1995	98.58	9.59	88.99	8,000	220	330	350	660	NA
	10/2/1995	98.58	13.42	85.16	46,000	160	130	93	240	NA
	1/3/1996	98.58	9.93	88.65	46,000	160	130	93	240	NA
	4/3/1996	98.58	8.13	90.45	27,000	0.1	92	44	13	NA
	12/9/1996	98.58	11.67	86.91	6,200	11	7	2	14	ND
	4/10/1997	98.58	11.40	87.18	53,000	150	110	37	0.12	ND
	12/30/1997	98.58	9.04	89.54	35,000	4,900	4,900	1,600	7,000	NA
	6/30/1998	98.58	NM	NM	25,000	2,000	2,000	1,300	4,300	NA
	9/29/1998	98.58	13.58	85.00	29,000	290	180	160	360	<0.5
	12/16/1998	98.58	10.94	87.64	26,000	1,400	1,600	880	9,500	<5
	3/16/1999	98.58	7.60	90.98	7,600	730	830	610	1,900	55
	6/10/1999	98.58	11.24	87.34	3,500	290	428	211	744	ND
	8/23/1999	98.58	13.50	85.08	60	6	9	4	11	ND
	11/9/1999	98.58	14.10	84.48	<50	<5	<5	<5	<5	<5
	2/7/2000	98.58	9.85	88.73	6,400	372	639	46	134	8
	5/31/2000	98.58	10.88	87.70	2,930	130	330	130	570	<5
	8/9/2000	98.58	13.03	85.55	<50	<5	<5	<5	<5	<5
	11/2/2000	98.58	12.60	85.98	ND	ND	ND	ND	ND	ND
	3/13/2001	98.58	8.55	90.03	932	18	34	1.3	225	ND
	5/22/2001	98.58	11.00	87.58	870	37	75	55	179	2.7
8/8/2001	98.58	13.53	85.05	125	4	4	3	11	ND	
11/19/2001	98.58	13.43	85.15	470	13	64	22	83	14	
2/21/2002	98.58	8.99	89.59	1,700	26	180	95	360	<2	
5/7/2002	98.58	10.59	87.99	1,800	31	140	110	348	<2	
7/30/2002	40.71	12.70	28.01	180	11	6.3	9.4	27	<2.0	
10/2/2002	40.71	14.23	26.48	<50	<0.5	<0.5	<0.5	0.64	<2.0	

**Table 1**  
**Historical Groundwater Elevation Data & Analytical Results**  
**3609 International Boulevard, Oakland, California**

Monitoring Well	Date	Top Of Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE <sup>2</sup> EPA 8260B (µg/L)
MW-2 cont.	1/3/2003	40.71	8.66	32.05	510	5	30.0	24.0	92	<2.0
	5/3/2003	40.71	9.17	31.54	1,300	14	88.0	78.0	271	<2.0
	7/24/2003	40.71	12.23	28.48	220	3.9	4.3	7	14.5	<2.0
	10/22/2003	40.71	13.65	27.06	170 H	1.9	<0.5	2.2	2.2	<2.0
	1/22/2004	40.71	9.54	31.17	860	7.2	37	50	151	<2.0
	4/1/2004	40.71	10.80	29.91	730	6.6	19	38	87	<2.0
	8/20/2004	40.71	13.54	27.17	220	2.2	1.9	7	11.7	<0.5
	12/8/2004	40.71	10.52	30.19	99	1.7	3.3	8.3	25.1	<0.5
	3/15/2005	40.71	8.06	32.65	5,690	18.7	120	315	876	<1.0
	5/17/2005	40.71	9.10	31.61	6,320	12.5	75	429	557	<2.15
	7/14/2005	40.71	11.10	29.61	7,680	14.1	46.3	522	471	<2.15
	10/13/2005	40.71	13.25	27.46	562	4.25	3.28	15	8.29	<0.50
	1/3/2006	40.71	6.72	33.99	340	2.5	4.4	22	50.2	<0.5
	4/7/2006	40.71	5.75	34.96	6,160	24	84.8	385	474	<2.15
	9/7/2006	40.71	12.58	28.13	114	2.45	<2.0	8.62	6.85	<0.5
	11/29/2006	40.71	12.26	28.45	293	5.02	3.25	24	15.15	<0.5
	2/27/2007	40.71	8.78	31.93	3,190	18.30	49.20	396	466	<1.0
	5/23/2007	40.71	11.09	29.62	<50.0	<0.500	<2.00	6.22	4.68	<0.500
	8/21/2007	40.71	13.31	27.40	241	3.12	<2.00	17.6	7.59	<0.500
	11/16/2007	40.71	12.59	28.12	61.1	5.09	<2.00	1.67	<2.00	<0.5
	2/21/2008	40.71	8.56	32.15	<50	<0.5	<2.00	1.41	<2.00	<0.5
	5/7/2008	40.71	11.81	28.90	1,510	3.80	5.55	135	92.18	<0.5
	8/6/2008	40.71	13.39	27.32	1,900	4.6	6.7	98	114.7	<0.5
	11/4/2008	40.71	13.49	27.22	NA	NA	NA	NA	NA	NA
	3/24/2009	40.71	9.23	31.48	NA	NA	NA	NA	NA	NA
	6/8/2009	40.71	11.70	29.01	NA	NA	NA	NA	NA	NA
9/29/2009	40.71	14.46	26.25	NA	NA	NA	NA	NA	NA	
MW-3	10/5/1994	97.78	15.79	81.99	3,000,000	190,000	740,000	310,000	130,000	NA
	12/2/1994	97.78	9.79	87.99	250,000	19,000	22,000	4,400	28,000	NA
	3/6/1995	97.78	8.69	89.09	350,000	20,000	42,000	5,800	36,000	NA
	6/5/1995	97.78	10.25	87.53	350,000	20,000	42,000	5,800	36,000	NA
	10/2/1995	97.78	12.91	84.87	150,000	510	410	210	65	NA
	1/3/1996	97.78	10.55	87.23	150,000	510	410	210	650	NA
	4/3/1996	97.78	8.76	89.02	NA	NA	NA	NA	NA	NA
	12/3/1996	97.78	12.02	85.76	NA	NA	NA	NA	NA	NA

**Table 1**  
**Historical Groundwater Elevation Data & Analytical Results**  
**3609 International Boulevard, Oakland, California**

Monitoring Well	Date	Top Of Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE <sup>2</sup> EPA 8260B (µg/L)
MW-3 cont.	4/1/1997	97.78	11.73	86.05	NA	NA	NA	NA	NA	NA
	12/1/1997	97.78	NM	NM	NA	NA	NA	NA	NA	NA
	9/1/1998	97.78	14.68	83.10	NA	NA	NA	NA	NA	NA
	12/16/1998	97.78	11.55	86.23	51,000	5,700	3,900	1,200	6,300	410
	3/16/1999	97.78	8.44	89.34	45,000	4,100	6,400	1,000	6,100	470
	6/10/1999	97.78	11.8	85.98	46,000	8,245	6,425	1,015	7,173	274
	8/23/1999	97.78	13.85	83.93	64,000	7,484	8,052	1,744	9,749	141
	11/9/1999	97.78	14.7	83.08	26,000	3,218	1,319	<5	6,697	126
	2/7/2000	97.78	10.95	86.83	44,000	6,090	3,360	<5	5,780	276
	5/31/2000	97.78	11.68	86.10	68,000	15,000	8,900	1,500	7,400	<5
	8/9/2000	97.78	13.73	84.05	76,000	8,900	5,636	883	7,356	176
	11/2/2000	97.78	13.4	84.38	48,000	6,789	4,816	676	7,258	83
	3/13/2001	97.78	9.43	88.35	14,754	2,250	140	ND	1,284	110
	5/22/2001	97.78	11.81	85.97	44,000	5,400	3,100	1,400	6,400	200
	8/8/2001	97.78	14.1	83.68	41,750	3,485	2,670	1,255	5,420	52
	11/19/2001	97.78	14.32	83.46	NA	NA	NA	NA	NA	NA
	2/21/2002	97.78	10.01	87.77	62,000	6,000	7,600	1,900	9,200	12,000
	5/7/2002	97.78	11.28	86.50	54,000	6,700	3,200	1,800	7,100	9,100
	7/30/2002	40.91	13.25	27.66	45,000	8,900	1,700	1,600	5,600	2,600
	10/2/2002	40.91	14.98	25.93	70,000	4,900	5,100	2,100	11,900	21,000
	1/3/2003	40.91	9.79	31.12	35,000	2,900	1,300	860	5,200	13,000
	5/3/2003	40.91	10.01	30.90	48,000	5,800	1,400	1,600	7,400	5,900
	7/24/2003	40.91	12.94	27.97	31,000	4,700	990	1,400	5,200	16,000
	10/22/2003	40.91	14.29	26.62	30,000	4,400	930	1,600	5,400	7,400
	1/22/2004	40.91	10.57	30.34	45,000	2,100	850	1,500	5,700	2,900
	4/1/2004	40.91	11.84	29.07	31,000	4,200	590	1,600	4,370	900
8/20/2004	40.91	14.24	26.67	21,000	3,400	370	1,000	2,350	1,100	
12/8/2004	40.91	11.32	29.59	6,441	978	109	490	941	201	
3/16/2005	40.91	8.87	32.04	22,300	1,280	456	729	1,870	2,400	
5/17/2005	40.91	9.96	30.95	17,600	764	302	735	1,227	1,800	
7/14/2005	40.91	11.50	29.41	34,600	1,390	492	1,460	2,054	1,090	
10/13/2005	40.91	13.78	27.13	15,000	1,290	267	675	838	893	

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MW-3 cont.	1/3/2006	40.91	7.50	33.41	8,700	650	98	330	860	280
	4/7/2006	40.91	6.74	34.17	16,800	677	239	802	1,018	564
	9/8/2006	40.91	12.95	27.96	26,400	1,660	381	933	1,545	332
	11/29/2006	40.91	12.78	28.13	15,100	2,080	381	1,290	1,624	247
	2/27/2007	40.91	9.43	31.48	5,950	1,100	116	531	500	170
	5/24/2007	40.91	11.63	29.28	8,240	1,360	116	540	696	37
	8/21/2007	40.91	13.75	27.16	13,200	2,240	119	868	983	36.4
	11/16/2007	40.91	13.25	27.66	5,490	2,360	52	523	213.9	43
	2/22/2008	40.91	10.07	30.84	7,840	402	64.5	496	430	<1
	5/7/2008	40.91	12.69	28.22	8,180	232	66.7	208	942	5.11
	8/6/2008	40.91	14.09	26.82	3,000	140	21	97	233	1.7
	11/4/2008	40.91	14.16	26.75	9,000	510	250	380	1,460	9.4
	11/13/2008	40.91	NM	NM	7,100	420	70	300	830	7.0
	3/24/2009	40.91	10.21	30.70	76	0.69	<0.5	<0.5	2.29	1.2
	6/8/2009	40.91	12.44	28.47	4,500 <sup>Y</sup>	86	22	99	380	2.8
9/29/2009	40.91	14.77	26.14	1,700 <sup>Y</sup>	91	4.5	57	87	6.1	
MW-4	1/3/1996	97.85	10.11	87.74	9,300	230	110	10	29	NA
	4/3/1996	97.85	8.35	89.50	1,900	12	8	5	14	NA
	12/9/1996	97.85	11.58	86.27	4,000	14	6	4	12	ND
	4/10/1997	97.85	11.23	86.62	ND	ND	ND	ND	ND	ND
	12/30/1997	97.85	9.43	88.42	2,300	410	270	100	1,500	NA
	6/30/1998	97.85	NM	NM	1,700	780	160	54	200	NA
	9/29/1998	97.85	13.64	84.21	6,200	910	77	68	200	18
	12/16/1998	97.85	11.13	86.72	1,400	590	33	28	94	24
	3/16/1999	97.85	8.46	89.39	600	200	35	19	56	11
	6/10/1999	97.85	11.30	86.55	1,000	298	44	19	64	13
	8/23/1999	97.85	13.20	84.65	660	497	41	54	145	6
	11/9/1999	97.85	14.10	83.75	<50	<5	<5	<5	<5	<5
	2/7/2000	97.85	11.25	86.60	7,800	1,200	61	<5	781	<5
	5/31/2000	97.85	11.46	86.39	552	42	19	16	67	<5
	8/9/2000	97.85	13.35	84.50	370	5.08	<5	<5	<5	<5
	11/2/2000	97.85	13.05	84.80	ND	5.30	ND	ND	8	ND
	3/13/2001	97.85	9.24	88.61	62	ND	ND	3.2	8.7	ND
5/22/2001	97.85	11.50	86.35	80	12	1.9	4.1	9.8	ND	
8/8/2001	97.85	13.80	84.05	133	12	2.2	3.9	9	ND	
11/19/2001	97.85	13.68	84.17	670	180	5	17	53	ND	

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MW-4 cont.	2/21/2002	97.85	9.97	87.88	450	63	4.1	22	28.7	<2
	5/7/2002	97.85	10.81	87.04	570	72	29	27	74	<2
	7/30/2002	40.01	12.62	27.39	450	20	24	19	74	<2.0
	10/2/2002	40.01	14.34	25.67	320	69	0.99	9	5.49	<2.0
	1/3/2003	40.01	9.79	30.22	310	49	2.5	13	26.7	<2.0
	7/24/2003	40.01	12.44	27.57	<50	1	<0.5	<0.5	<0.5	<0.5
	10/22/2003	40.01	13.72	26.29	70	12	<0.5	4.7	3.0	<2.0
	1/22/2004	40.01	10.55	29.46	230	18	2.1	8.1	17.1	<2.0
	4/1/2004	40.01	11.39	28.62	<50	3.8	<0.5	1.6	1.9	<2.0
	8/20/2004	40.01	13.68	26.33	<50	1.6	<0.5	0.66	0.53	<2.0
	12/7/2004	40.01	10.95	29.06	<50	1.3	<0.5	2.80	<1.0	<0.5
	3/15/2005	40.01	8.61	31.40	661	72	4.13	39.7	48.42	<0.5
MW-4R	5/17/2005	40.34	9.88	30.46	7,780	170	11.1	192	121.2	<0.5
	7/14/2005	40.34	11.61	28.73	847	25.3	<2.0	28.2	10.9	<0.5
	10/13/2005	40.34	13.73	26.61	785	35.5	<2.0	48.2	8.35	<0.50
	1/3/2006	40.34	9.18	31.16	2,500	65	3.8	70	62	<0.5
	4/6/2006	40.34	7.70	32.64	852	42.4	2.25	28.4	17.13	<0.5
	9/7/2006	40.34	12.96	27.38	97.7	9.29	<2.0	4.05	1.03	<0.5
	11/28/2006	40.34	12.70	27.64	914	87	<2.0	15.10	10.40	<0.5
	2/26/2007	40.34	9.78	30.56	561	38.4	<2.0	41.30	9.67	<0.5
	5/23/2007	40.34	11.36	28.98	351	35.8	<2.0	23.20	4.82	<0.5
	8/20/2007	40.34	13.45	26.89	223	24.7	<2.0	9.15	2.54	<0.5
	11/15/2007	40.34	13.01	27.33	1,740	94.5	<2.0	41	15.52	<0.5
	2/22/2008	40.34	9.68	30.66	122	8.12	<2.0	3.14	<2.0	<0.5
	5/6/2008	40.34	12.17	28.17	68.9	3.12	<2.0	0.65	<2.0	<0.5
	8/5/2008	40.34	13.58	26.76	630	33	0.59	13	2	<0.5
	11/4/2008	40.34	13.81	26.53	NA	NA	NA	NA	NA	NA
3/24/2009	40.34	10.10	30.24	NA	NA	NA	NA	NA	NA	
6/8/2009	40.34	12.22	28.12	NA	NA	NA	NA	NA	NA	
9/29/2009	40.34	14.60	25.74	NA	NA	NA	NA	NA	NA	
MW-5	10/2/1995	99.04	13.57	85.47	1,500	1	1	4	5	NA
	1/3/1996	99.04	10.03	89.01	1,500	1	1	4	5	NA
	4/3/1996	99.04	8.24	90.80	780	1	1	5	4	NA
	12/9/1996	99.04	11.48	87.56	NA	NA	NA	NA	NA	NA
	4/10/1997	99.04	11.35	87.69	NA	NA	NA	NA	NA	NA

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MW-5 cont.	12/30/1997	99.04	9.15	89.89	790	82	66	59	160	NA
	6/30/1998	99.04	NM	NM	400	<5	<5	15	<10	NA
	9/29/1998	99.04	13.82	85.22	270	2	1	3	3	<5
	12/16/1998	99.04	11.20	87.84	1,400	1	1	ND	2	ND
	3/16/1999	99.04	7.73	91.31	650	3	1	16	2	10
	6/10/1999	99.04	11.50	87.54	270	4	3	6	4	ND
	8/23/1999	99.04	13.55	85.49	120	ND	4	ND	4	ND
	11/9/1999	99.04	14.30	84.74	<50	<5	<5	<5	<5	<5
	2/7/2000	99.04	9.85	89.19	70	<5	<5	<5	7	<5
	5/31/2000	99.04	11.03	88.01	627.4	7.4	24	12	32.4	<5
	8/9/2000	99.04	13.22	85.82	<50	<5	<5	<5	<5	<5
	11/2/2000	99.04	13.55	85.49	ND	ND	ND	ND	ND	ND
	3/13/2001	99.04	8.67	90.37	382	6.1	1.9	6.6	5.9	ND
	5/22/2001	99.04	11.12	87.92	180	ND	ND	2.1	0.57	4.4
	8/8/2001	99.04	13.79	85.25	258	1	1.1	3.4	7.3	1.4
	11/19/2001	99.04	13.72	85.32	920	17	160	26	135	40
	2/21/2002	99.04	9.04	90.00	290	3.5	2	6.2	6.2	<0.5
	5/7/2002	99.04	10.69	88.35	160	<0.5	0.78 C	2	2.15	2.3
	7/30/2002	41.16	12.94	28.22	110	<0.5	<0.5	0.77	<0.5	<0.5
	10/20/2002	41.16	14.51	26.65	77	<0.5	<0.5	<0.5	<0.5	<2.0
	1/3/2003	41.16	8.73	32.43	450 Y	<0.5	<0.5	4	0.54	2.1
	5/3/2003	41.16	9.24	31.92	130	<0.5	<0.5	1	<0.5	3.1
	7/24/2003	41.16	12.45	28.71	300	<0.5	1.9 C	0.76	<0.5	<2.0
	10/22/2003	41.16	13.89	27.27	460 H	<0.5	<0.5	<0.5	<0.5	1.9
	1/22/2004	41.16	9.60	31.56	160	<0.5	<0.5	0.55 C	<0.5	<5.0
	4/1/2004	41.16	11.06	30.10	280	<0.5	0.74C	0.62	<0.5	2.1
	8/20/2004	41.16	13.75	27.41	250	<0.5	<0.5	<0.5	<0.5	2
12/7/2004	41.16	10.73	30.43	150	<0.5	<0.5	<0.5	<1.0	2.6	

**Table 1**  
**Historical Groundwater Elevation Data & Analytical Results**  
**3609 International Boulevard, Oakland, California**

Monitoring Well	Date	Top Of Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE <sup>2</sup> EPA 8260B (µg/L)
MW-5 cont.	3/15/2005	41.16	8.18	32.98	496	<0.5	<0.5	<0.5	<1.0	1.91
	5/17/2005	41.16	9.22	31.94	360	<0.5	<0.5	<0.5	<1.0	1.72
	7/14/2005	41.16	11.30	29.86	267	<0.5	<2.0	<0.5	<1.0	1.74
	10/13/2005	41.16	13.57	27.59	404	<0.50	<2.0	<0.50	<1.0	0.93
	1/3/2006	41.16	6.81	34.35	170	2.2	<0.5	1.8	3.1	1.1
	4/7/2006	41.16	5.81	35.35	449	<0.5	<2.0	0.53	<1.0	1.16
	9/7/2006	41.16	12.78	28.38	185	<0.5	<2.0	2.02	<1.0	<0.5
	11/28/2006	41.16	12.62	28.54	158	0.64	<2.0	<0.5	<2.0	<0.5
	2/26/2007	41.16	8.92	32.24	78.2	<0.5	<2.0	<0.5	<2.0	0.52
	5/23/2007	41.16	11.36	29.80	58.4	<0.5	<2.0	4.36	<2.0	<0.5
	8/20/2007	41.16	13.52	27.64	82.4	0.52	<2.0	4.49	2.3	<0.5
	11/16/2007	41.16	12.74	28.42	<50	3.45	<2.00	<0.5	<2.0	0.58
	2/21/2008	41.16	8.67	32.49	131	<0.5	<2.0	<0.5	<2.0	<0.5
	5/6/2008	41.16	12.06	29.10	300	<0.5	<2.0	<0.5	<2.0	0.52
	8/5/2008	41.16	13.64	27.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	11/4/2008	41.16	13.68	27.48	NA	NA	NA	NA	NA	NA
	3/24/2009	41.16	9.31	31.85	NA	NA	NA	NA	NA	NA
	6/8/2009	41.16	11.92	29.24	NA	NA	NA	NA	NA	NA
	9/29/2009	41.16	14.41	26.75	NA	NA	NA	NA	NA	NA
MW-6	10/1/1995	98.77	13.94	84.83	NA	NA	NA	NA	NA	NA
	1/1/1996	98.77	10.55	88.22	120,000	350	310	200	610	NA
	4/1/1996	98.77	8.76	90.01	NA	NA	NA	NA	NA	NA
	12/1/1996	98.77	12.04	86.73	NA	NA	NA	NA	NA	NA
	4/1/1997	98.77	11.76	87.01	NA	NA	NA	NA	NA	NA
	12/1/1997	98.77	9.30	89.47	NA	NA	NA	NA	NA	NA
	9/1/1998	98.77	14.10	84.67	NA	NA	NA	NA	NA	NA
	12/1/1998	98.77	11.60	87.17	NA	NA	NA	NA	NA	NA
	3/16/1999	98.77	8.40	90.37	37,000	3,900	4,300	1,600	7,000	180
	6/10/1999	98.77	11.90	86.87	18,500	2,060	1,650	735	3,170	ND
	8/23/1999	98.77	13.90	84.87	42,000	3,806	3,649	1,554	7,996	10
	11/9/1999	98.77	14.75	84.02	40,000	1,084	130	<5	10,940	<5
	2/7/2000	98.77	10.95	87.82	17,000	1,360	521	<5	4,150	6
	8/9/2000	98.77	13.78	84.99	24,000	1,306	870	<5	5,162	<5
11/2/2000	98.77	13.40	85.37	19,000	1,387	618	ND	5,250	ND	



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**Historical Groundwater Elevation Data & Analytical Results**  
**3609 International Boulevard, Oakland, California**

Monitoring Well	Date	Top Of Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MrBE <sup>2</sup> EPA 8260B (µg/L)
MW-6 cont.	3/13/2001	98.77	9.49	89.28	15,637	713	459	238	2,363	ND
	5/22/2001	98.77	11.82	86.95	27,000	760	450	1,600	4,270	ND
	8/8/2001	98.77	NM	NM	NA	NA	NA	NA	NA	NA
	11/19/2001	98.77	NM	NM	NA	NA	NA	NA	NA	NA
	2/21/2002	98.77	9.92	88.85	14,000	440	180	750	1,020	<10
	5/7/2002	98.77	11.33	87.44	10,000	400	160	470	970	<2
	7/30/2002	40.92	13.28	27.64	24,000	1,000	410	1,400	3,770	<20
	10/20/2002	40.92	14.93	25.99	22,000	1,200	620	1,300	2,800	<20
	1/3/2003	40.92	9.78	31.14	12,000	730	230	740	1,690	<20
	5/3/2003	40.92	9.92	31.00	150,000 H	1,400	780	2,500	8,700	<40
	7/24/2003	40.92	12.98	27.94	29,000	1,600	520	1,500	4,400	<200
	10/22/2003	40.92	14.35	26.57	36,000	1,300	430	1,600	4,570	<40
	1/22/2004	40.92	10.60	30.32	30,000	1,300	320	1,500	3,040	<50
	4/1/2004	40.92	11.80	29.12	99,000	1,700	580 C	2,200	5,200	<50
	8/20/2004	40.92	14.36	26.56	12,000	580	130	520	1,020	<10
	12/8/2004	40.92	11.22	29.70	12,631	649	134	1,009	2,037	<2.15
	3/16/2005	40.92	8.94	31.98	18,300	546	126	705	1,069	<2.15
	5/17/2005	40.92	10.02	30.90	38,500	1,290	395	1,550	1,652	<5.50
	7/15/2005	40.92	11.78	29.14	50,100	1,510	409	1,900	1,920	<5.50
	10/13/2005	40.92	14.04	26.88	9,620	513	97.4	523	422.3	<2.15
	1/3/2006	40.92	7.86	33.06	13,000	260	79.0	680	750	<4.2
	4/7/2006	40.92	6.93	33.99	18,200	650	151	918	715	<5.5
	9/8/2006	40.92	13.12	27.80	18,600	604	98.80	639	659	<2.15
	11/28/2006	40.92	12.95	27.97	20,300	656	96.30	1,060	760	7.86
	2/27/2007	40.92	9.68	31.24	8,440	249	36.30	697	316.8	<2.15
	5/24/2007	40.92	11.59	29.33	11,400	292	34.8	493	278.5	<2.15
8/21/2007	40.92	13.88	27.04	9,480	727	87.6	761	590	<2.15	
11/16/2007	40.92	13.29	27.63	5,430	436	29.8	439	147.8	<2.15	
2/22/2008	40.92	9.41	31.51	4,870	100	9.56	331	76.9	<1.0	
5/7/2008	40.92	12.47	28.45	8,700	125	10.3	365	209.3	<1.0	
8/6/2008	40.92	13.98	26.94	7,900	82	6.9	300	126.3	<2.0	
11/4/2008	40.92	14.24	26.68	11,000	880	260	770	1,240	<6.3	
11/13/2008	40.92	NM	NM	16,000	1,000	300	950	1,400	<2.0	

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**3609 International Boulevard, Oakland, California**

Monitoring Well	Date	Top Of Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE <sup>2</sup> EPA 8260B (µg/L)
MW-6 cont.	3/24/2009	40.92	10.13	30.79	3,400	160	89	470	495	<3.1
	6/8/2009	40.92	12.48	28.44	19,000 <sup>Y</sup>	450	240	970	1,960	<6.3
	9/29/2009	40.92	14.98	25.94	7,500 <sup>Y</sup>	260	75	260	520	<3.1
	10/12/2009	40.92	NM	NC	2,000 <sup>Y</sup>	78	16	70	98	<3.1
MW-7	10/2/1995	97.83	12.95	84.88	NA	10	12	17	NA	3,300
	1/3/1996	97.83	9.57	88.26	3,300	9	12	17	45	NA
	4/3/1996	97.83	7.75	90.08	1,900	2	3	5	7	NA
	12/9/1996	97.83	10.97	86.86	NA	NA	NA	NA	NA	NA
	4/10/1997	97.83	12.95	84.88	NA	NA	NA	NA	NA	NA
	12/30/1997	97.83	8.65	89.18	1,400	130	98	75	200	NA
	6/30/1998	97.83	NM	NM	620	4	<5	9	<10	NA
	9/29/1998	97.83	13.09	84.74	1,800	1	1	1	2	68
	12/16/1998	97.83	10.52	87.31	990	5	10	5	20	160
	3/16/1999	97.83	7.00	90.83	300	3	1	1	1	62
	6/10/1999	97.83	10.70	87.13	320	3	7	4	3	26
	8/23/1999	97.83	12.80	85.03	570	5	10	ND	ND	ND
	11/9/1999	97.83	13.25	84.58	290	<5	9	<5	<5	12
	2/7/2000	97.83	9.50	88.33	80	<5	<5	<5	<5	23
	5/31/2000	97.83	10.52	87.31	494.9	4.9	22	4.2	21.9	29
	8/9/2000	97.83	12.63	85.20	80	<5	<5	<5	<5	11.7
	11/2/2000	97.83	11.95	85.88	50	ND	ND	ND	ND	9.1
	3/13/2001	97.83	8.04	89.79	82	0.97	ND	0.76	ND	78
	5/22/2001	97.83	10.60	87.23	370	ND	9.1	1.3	2.3	28
	8/8/2001	97.83	13.02	84.81	610	3.7	3	6.2	18.9	10
	11/19/2001	97.83	12.83	85.00	1,700	24	220	41	205	69
	2/21/2002	97.83	8.91	88.92	380	<0.5	2.5	2	3.8	78
	5/7/2002	97.83	10.13	87.70	560	15	28.0	9.2	44.0	37
7/30/2002	39.94	12.15	27.79	270	5.3	1.3 C	2.3	8.1	46	
10/20/2002	39.94	13.74	26.20	350	<0.5	2.1 C	<0.5	3.1 C	43	
1/3/2003	39.94	8.45	31.49	220 Y	<0.5	<0.5	0.78	0.55	19	
5/3/2003	39.94	7.69	32.25	280	<0.5	<0.5	<0.5	<0.5	11	
7/24/2003	39.94	11.72	28.22	230	<0.5	1.3 C	<0.5	0.63	5.9	
10/22/2003	39.94	13.10	26.84	460	<0.5	<0.5	<0.5	<0.5	5.0	

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MW-7 cont.	1/22/2004	39.94	9.23	30.71	380	<0.5	1.4 C	<0.5	<0.5	<5.0
	4/1/2004	39.94	10.40	29.54	480	<0.5	2.5 C	<0.5	0.90	0.62
	8/20/2004	39.94	12.92	27.02	410	<0.5	.81 C	<0.5	<0.5	1.70
	12/7/2004	39.94	10.28	29.66	96	<0.5	<0.5	<0.5	<1.0	<0.5
	3/16/2005	39.94	7.44	32.50	209	<0.5	<0.5	<0.5	<1.0	1.74
	5/16/2005	39.94	8.53	31.41	262	4.85	2.19	2.36	4.24	0.73
	7/14/2005	39.94	10.61	29.33	753	20.6	11.9	16.8	33.23	2.36
	10/13/2005	39.94	12.80	27.14	1,690	5.3	2.71	12.6	54	1.93
	1/3/2006	39.94	6.39	33.55	250 Y	0.80	<0.5	0.61	<0.5	1.1
	4/7/2006	39.94	8.10	31.84	3,440	0.64	<2.0	17	<1.0	<0.5
	9/7/2006	39.94	14.52	25.42	320	2.87	<2.0	4.76	1.34	<0.5
	11/28/2006	39.94	12.17	27.77	774	1.81	<2.0	6.76	3.03	<0.5
	2/26/2007	39.94	10.41	29.53	1,240	<0.5	<2.0	6.83	<2.0	<0.5
	5/23/2007	39.94	10.16	29.78	265	<0.5	<2.0	5.38	<2.0	<0.5
	8/20/2007	39.94	12.98	26.96	<50.0	0.78	<2.0	4.87	2.36	<0.5
	11/15/2007	39.94	12.45	27.49	135	<0.5	<2.00	0.54	<2.0	<0.5
	2/21/2008	39.94	8.79	31.15	<50	3.18	<2.0	1.69	<2.0	<0.5
	5/6/2008	39.94	11.31	28.63	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	8/5/2008	39.94	13.03	26.91	<50	<0.5	<0.5	<0.5	0.91	<0.5
	11/4/2008	39.94	13.19	26.75	NA	NA	NA	NA	NA	NA
3/24/2009	39.94	9.11	30.83	NA	NA	NA	NA	NA	NA	
6/8/2009	39.94	11.15	28.79	NA	NA	NA	NA	NA	NA	
9/29/2009	39.94	13.55	26.39	NA	NA	NA	NA	NA	NA	
MW-8	10/2/1995	97.25	12.86	84.39	NA	NA	NA	NA	NA	NA
	1/3/1996	97.25	9.79	87.46	94,000	310	250	180	480	NA
	4/3/1996	97.25	7.98	89.27	58,000	250	170	140	330	NA
	12/9/1996	97.25	11.13	86.12	27,000	88	43	44	80	ND
	4/10/1997	97.25	12.95	84.30	24,000	86	55	50	100	ND
	12/30/1997	97.25	8.95	88.30	28,000	6,000	1,600	2,100	4,700	NA
	6/30/1998	97.25	NM	NM	54,000	4,600	2,800	3,500	7,300	NA
	9/29/1998	97.25	13.02	84.23	NA	NA	NA	NA	NA	NA
	12/16/1998	97.25	10.75	86.50	61,000	6,300	1,700	2,200	4,400	1,300
	3/16/1999	97.25	7.58	89.67	22,000	1,800	470	2,000	2,000	820
	6/10/1999	97.25	10.80	86.45	39,500	3,610	1,635	2,175	5,913	988
	8/23/1999	97.25	12.75	84.50	58,000	5,379	2,438	3,001	6,960	639
11/9/1999	97.25	13.65	83.60	10,500	92	<5	<5	3,414	769	

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MW-8 cont.	2/7/2000	97.25	10.85	86.40	44,200	1,080	617	<5	4,160	240
	5/31/2000	97.25	11.15	86.10	25,940	940	130	1,600	3,960	75
	8/9/2000	97.25	12.87	84.38	22,000	632	5.38	<5	2,686	37.3
	11/2/2000	97.25	12.55	84.70	3,000	278	350	209	980	21
	3/13/2001	97.25	8.75	88.50	2,360	81	16	71	270	221
	8/8/2001	97.25	12.97	84.28	5,620	153	46	373	345	174
	11/19/2001	97.25	13.19	84.06	13,000	600	270	750	1,200	400
	2/21/2002	97.25	9.88	87.37	240,000	1,400	<25	4,200	6,560	<100
	5/7/2002	97.25	10.32	86.93	9,000	360	56	560	622	2,100
	7/30/2002	39.38	11.79	27.59	8,400	340	78	530	517	1,200
	10/20/2002	39.38	13.80	25.58	18,000	950	75	1,400	1,269	700
	1/3/2003	39.38	9.48	29.90	8,100	300	29	370	302	1,100
	5/3/2003	39.38	9.48	29.90	18,000	380	33 C	1,000	516	540
	7/24/2003	39.38	11.92	27.46	12,000	460	54 C	910	435	890
	10/22/2003	39.38	13.09	26.29	16,000	830	87	2,000	675	280
	1/22/2004	39.38	10.32	29.06	18,000	330	37 C	860	239	500
	4/1/2004	39.38	11.23	28.15	12,000	240	26 C	650	128.8 C	<4
	8/20/2004	39.38	13.02	26.36	6,000	310	27	660	56.8 C	<4
	12/8/2004	39.38	10.79	28.59	6,650	171	15	360	35	166
	3/15/2005	39.38	7.62	31.76	11,400	125	21	418	55.3	865
	5/16/2005	39.38	9.15	30.23	10,100	122	13.2	440	34.73	406
	7/14/2005	39.38	10.81	28.57	11,600	213	27.8	854	71.51	184
	10/13/2005	39.38	12.81	26.57	6,590	256	27.7	655	48.50	375
	1/3/2006	39.38	7.40	31.98	4,800	53	5.2	130	21	210
	4/6/2006	39.38	6.04	33.34	8,240	82.5	14.6	364	28.06	771
	9/7/2006	39.38	12.15	27.23	4,130	86.80	7.32	173	19.73	48.60
	11/28/2006	39.38	11.92	27.46	3,680	198	15.10	313	23.82	149
	2/27/2007	39.38	8.52	30.86	5,690	122	15.10	455	33.62	203
5/24/2007	39.38	10.79	28.59	3,400	32.60	4.35	177	14.65	69.5	
8/20/2007	39.38	12.71	26.67	1,310	58.60	4.22	106	7.20	26.8	
11/15/2007	39.38	12.13	27.25	10,300	169	11.1	281	12.0	60.4	
2/22/2008	39.38	8.51	30.87	5,130	33.3	4.12	218	5.87	<0.5	
5/6/2008	39.38	11.41	27.97	3,490	20.3	2.38	90.3	0.77	21.8	
8/5/2008	39.38	12.82	26.56	2,900	97	11	170	17	13	
11/4/2008	39.38	13.11	26.27	2,900	110	15	420	25	10	

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MW-8 cont.	3/24/2009	39.38	9.29	30.09	3,000	21	2.8	90	17.81	6.1
	6/8/2009	39.38	11.38	28.00	6,700 <sup>Y</sup>	81	22	420	283	3.9
	9/29/2009	39.38	13.66	25.72	6,500 <sup>Y</sup>	120	22	<3.1	480	5.1
MW-10	12/1/1996	94.54	10.44	84.10	NA	NA	NA	NA	NA	NA
	4/10/1997	94.54	10.07	84.47	1,000	21	9	3	3	ND
	12/30/1997	94.54	8.78	85.76	10,000	5,300	76	1,100	780	NA
	9/29/1998	94.54	11.93	82.61	9,900	5,400	66	970	620	2,600
	12/16/1998	94.54	10.19	84.35	8,700	3,800	51	790	420	1,800
	3/16/1999	94.54	7.30	87.24	4,100	15	28	420	250	2,800
	6/10/1999	94.54	9.95	84.59	4,200	1,168	34	264	154	1,195
	8/23/1999	94.54	11.60	82.94	3,250	2,135	97	600	248	1,800
	11/9/1999	94.54	12.50	82.04	2,950	1,134	20	<5	70	652
	2/7/2000	94.54	9.25	85.29	<50	<5	<5	<5	<5	448
	5/31/2000	94.54	9.45	85.09	4,400	1,500	25	390	107.1	580
	8/9/2000	94.54	11.52	83.02	6,800	1,055	26	54	53.8	1,283
	11/2/2000	94.54	11.35	83.19	ND	ND	ND	ND	ND	145
	3/13/2001	94.54	8.07	86.47	4,935	969	18	41	72	630
	5/22/2001	94.54	9.80	84.74	2,900	630	11	200	31	270
	8/8/2001	94.54	11.64	82.90	242	35	1	11	2	64
	11/19/2001	94.54	12.06	82.48	3,500	900	260	310	258	410
	2/21/2002	94.54	8.28	86.26	4,700	1,100	20	370	63.7	500
	5/7/2002	94.54	9.49	85.05	3,400	660	13	260	48.0	270
	7/30/2002	36.71	10.93	25.78	160	26	0.55	8.1	1.0	72
	10/20/2002	36.71	12.54	24.17	550	130	3.00	31.0	2.7	70
	1/3/2003	36.71	8.23	28.48	17,000	870	11	290	27	270
	5/3/2003	36.71	8.30	28.41	2,500	650	10	190	15.81 C	180
	7/24/2003	36.71	10.76	25.95	750	160	4	58	6.66 C	79
	10/22/2003	36.71	11.91	24.80	2,000	410	11	170	9.14 C	110
	1/22/2004	36.71	8.91	27.80	4,000	600	15	280	15.3 C	110
	4/1/2004	36.71	9.62	27.09	5,100	580	<1	330	26.4	160
8/20/2004	36.71	11.50	25.21	3,400	550	13	240	17.0	100	
12/7/2004	36.71	9.29	27.42	2,524	556	10	184	16.0	144	
3/15/2005	36.71	7.48	29.23	4,340	354	6.07	166	17.1	258	
5/16/2005	36.71	8.24	28.47	4,750	415	6.87	254	10.4	126	
7/14/2005	36.71	9.78	26.93	6,050	594	9.53	297	10.7	190	
10/13/2005	36.71	11.32	25.39	6,230	811	11.3	355	5.6	167	

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**3609 International Boulevard, Oakland, California**

Monitoring Well	Date	Top Of Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE <sup>2</sup> EPA 8260B (µg/L)
MW-10 cont.	1/3/2006	36.71	6.81	29.90	2,000	350	6.0	210	16	88
	4/6/2006	36.71	6.03	30.68	600	86.5	<2.0	59.1	2.36	30.4
	9/7/2006	36.71	10.90	25.81	6,960	360	<8.60	253	11.30	103
	11/28/2006	36.71	10.92	25.79	2,800	305	<8.6	228	<8.6	72.8
	2/26/2007	36.71	8.02	28.69	9,470	1,400	29.3	1,260	32.60	263.0
	5/23/2007	36.71	9.54	27.17	860	138	2.45	69.2	4.65	30.9
	8/20/2007	36.71	11.47	25.24	86.6	2.88	<2.00	5.98	2.30	2.68
	11/15/2007	36.71	11.12	25.59	492	104	<2.00	41.2	<2.0	18.7
	2/21/2008	36.71	7.85	28.86	2,040	228	4.44	193	2.68	11
	5/6/2008	36.71	10.19	26.52	2,510	161	3.36	130	<2.0	23
	8/5/2008	36.71	11.50	25.21	200	3.2	<0.5	3.7	<0.5	2.9
	11/4/2008	36.71	11.94	24.77	130	3.8	<0.5	4.3	<0.5	3.0
	3/24/2009	36.71	8.48	28.23	2,000	160	4.3	130	6.1	22
	6/8/2009	36.71	10.14	26.57	2,600 <sup>Y</sup>	170	4.9	140	8.2	26
9/29/2009	36.71	12.34	24.37	1,500 <sup>Y</sup>	91	3.1	45	4.0	16	
MW-11	12/1/1996	95.94	11.99	83.95	NA	NA	NA	NA	NA	NA
	4/1/1997	95.94	11.47	84.47	NA	NA	NA	NA	NA	NA
	12/30/1997	95.94	10.40	85.54	710	66	97	59	190	NA
	6/30/1998	95.94	NM	NM	1,100	45	24	71	100	NA
	9/29/1998	95.94	13.24	82.70	170	7	1	4	9	22
	12/16/1998	95.94	11.58	84.36	650	27	4	25	33	>0.5
	3/16/1999	95.94	8.81	87.13	710	30	6	53	84	8
	6/10/1999	95.94	11.50	84.44	4,600	1,240	35	290	159	1,291
	8/23/1999	95.94	12.75	83.19	170	4	4	ND	6	ND
	11/9/1999	95.94	13.85	82.09	<50	<5	<5	<5	<5	<5
	2/7/2000	95.94	13.60	82.34	700	20	15	<5	35	<5
	8/9/2000	95.94	14.87	81.07	590	10.5	5.94	<5	7.75	<5
	11/2/2000	95.94	12.55	83.39	60	ND	ND	ND	ND	ND
	3/13/2001	95.94	9.61	86.33	273	8.6	2.1	10	14	ND
	5/22/2001	95.94	11.15	84.79	280	12	8.3	3.3	9.8	12
	8/8/2001	95.94	13.04	82.90	NA	NA	NA	NA	NA	NA
	11/19/2001	95.94	13.48	82.46	300	7.9	26	5.1	28.9	ND
	2/21/2002	95.94	9.69	86.25	560	34	20	32	37.3	< 0.5
	5/7/2002	95.94	10.99	84.95	280	16	3	7.6	7.6	<2
7/30/2002	NS	13.24	NC	120	5.6	<0.5	0.61	0.53	<2.0	
10/20/2002	NS	NM	NC	NA	NA	NA	NA	NA	NA	

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MW-11 cont.	1/3/2003	NS	9.76	NC	700	32	5.7	25	14.10	<2.0
	5/3/2003	NS	9.66	NC	280	17	1.5 C	8	4.10	<2.0
	7/24/2003	NS	12.30	NC	340	19 C	3.2	0.58	0.89	<2.0
	10/22/2003	NS	13.38	NC	210	5.0 C	<0.5	<0.5	<0.5	<0.5
	1/22/2004	NS	NM	NC	NA	NA	NA	NA	NA	NA
	4/1/2004	NS	NM	NC	NA	NA	NA	NA	NA	NA
	8/20/2004	NS	NM	NC	NA	NA	NA	NA	NA	NA
	12/7/2004	NS	10.54	NC	486	24	3.0	18	4.00	<0.5
	3/15/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
	5/16/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
	7/14/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
	10/13/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
	1/3/2006	NS	NM	NC	NA	NA	NA	NA	NA	NA
	4/6/2006	NS	7.72	NC	872	19.8	3.63	37.5	3.28	<0.5
	5/6/2008	NS	NM	NC	NA	NA	NA	NA	NA	NA
	8/5/2008	NS	NM	NC	NA	NA	NA	NA	NA	NA
	11/4/2008	NS	NM	NC	NA	NA	NA	NA	NA	NA
3/24/2009	NS	NM	NC	NA	NA	NA	NA	NA	NA	
6/8/2009	NS	NM	NC	NA	NA	NA	NA	NA	NA	
9/29/2009	NS	NM	NC	NA	NA	NA	NA	NA	NA	
MW-12	11/9/1999	94.84	13.20	81.64	80	<5	<5	<5	<5	229
	2/7/2000	94.84	10.20	84.64	4,000	351	37	<5	24	513
	5/31/2000	94.84	10.48	84.36	3,930	230	10	34	12	200
	8/9/2000	94.84	12.07	82.77	1,730	15.4	12.4	<5	<5	185
	11/2/2000	94.84	12.05	82.79	1,010	9.3	19.0	ND	7.40	215
	3/13/2001	94.84	9.04	85.80	1,517	13	5.6	5.5	11	214
	5/22/2001	94.84	10.52	84.32	31,000	1,200	ND	95	165	1,900
	8/8/2001	94.84	12.24	82.60	2,090	71	1.8	3	4	142
	11/19/2001	94.84	12.76	82.08	3,000	81	69	13	73	120
	2/21/2002	94.84	8.78	86.06	2,500	77	<0.5	5.7	7.4	95
	5/7/2002	94.84	10.26	84.58	2,700	74	<0.5	20	5.1	94
7/30/2002	36.84	10.93	25.91	2,200	57	<0.5	11	2.6	100	
10/20/2002	36.84	13.13	23.71	2,600	71	<0.5	<0.5	10.3	84	

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MW-12 cont.	1/3/2003	36.84	9.23	27.61	2,300	65	<0.5	1	4.00	86
	5/3/2003	36.84	9.24	27.60	2,200	58	<0.5	4.2 C	4.1 C	96
	7/24/2003	36.84	11.44	25.40	2,200	32 C	16 C	<0.5	9.20	66
	10/22/2003	36.84	12.50	24.34	2200 H	31 C	<0.5	<0.5	3.5 C	49
	1/22/2004	36.84	9.56	27.28	1,700	24 C	14 C	3	5.00	72
	4/1/2004	36.84	10.21	26.63	2,000	11 C	<0.5	<0.5	5 C	36
	8/20/2004	36.84	12.00	24.84	1,900	8.9 C	<0.5	<0.5	1.1 C	26
	12/7/2004	36.84	10.03	26.81	1,018	2	<0.5	<0.5	<1.0	26
	3/15/2005	36.84	8.49	28.35	1,890	4.25	<0.5	6.38	<1.0	30.6
	5/16/2005	36.84	9.07	27.77	1,080	<0.5	<0.5	<0.5	<1.0	20.6
	7/14/2005	36.84	10.43	26.41	1,580	2.71	<2.0	3.33	<1.0	29.3
	10/13/2005	36.84	12.08	24.76	1,560	0.74	<2.0	<0.50	<1.0	28.1
	1/3/2006	36.84	7.89	28.95	480 Y	13	<0.5	<0.5	<0.5	30
	4/6/2006	36.84	7.92	28.92	1,310	<0.5	<2.0	<0.5	<1.0	31.1
	9/7/2006	36.84	11.44	25.40	1,220	0.61	<2.0	2.69	<1.0	23.7
	11/28/2006	36.84	11.61	25.23	543	2.15	<2.0	1.72	<2.0	27.6
	2/26/2007	36.84	9.04	27.80	5,580	9.81	11	8.52	31.3	14.2
	5/23/2007	36.84	10.37	26.47	350	<0.5	<2.0	4.74	2.32	18.9
	8/20/2007	36.84	12.03	24.81	556	0.68	<2.0	4.81	2.41	20.3
	11/15/2007	36.84	11.84	25.00	678	0.79	<2.0	0.51	<2.0	20.4
	2/21/2008	36.84	8.86	27.98	375	0.59	<2.0	1.06	<2.0	2.52
	5/6/2008	36.84	10.85	25.99	742	<0.5	<2.0	0.70	<2.0	8.92
	8/5/2008	36.84	12.15	24.69	550	0.56	<0.5	<0.5	<0.5	13
11/4/2008	36.84	12.78	24.06	NA	NA	NA	NA	NA	NA	
3/24/2009	36.84	9.37	27.47	NA	NA	NA	NA	NA	NA	
6/8/2009	36.84	10.83	26.01	NA	NA	NA	NA	NA	NA	
9/29/2009	36.84	12.89	23.95	NA	NA	NA	NA	NA	NA	
FDC	2/7/2000	97.10	15.40	81.70	NA	NA	NA	NA	NA	NA
	5/31/2000	97.10	12.41	84.69	NA	NA	NA	NA	NA	NA
	8/9/2000	97.10	15.70	81.40	NA	NA	NA	NA	NA	NA
	11/2/2000	97.10	16.85	80.25	NA	NA	NA	NA	NA	NA
	3/13/2001	97.10	9.39	87.71	NA	NA	NA	NA	NA	NA
	5/22/2001	97.10	15.85	81.25	NA	NA	NA	NA	NA	NA
	8/8/2001	97.10	13.30	83.80	NA	NA	NA	NA	NA	NA
	11/19/2001	97.10	17.82	79.28	NA	NA	NA	NA	NA	NA



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FDC cont.	2/21/2002	97.10	16.74	80.36	NA	NA	NA	NA	NA	NA
	5/7/2002	97.10	10.36	86.74	NA	NA	NA	NA	NA	NA
	7/30/2002	39.35	11.93	27.42	NA	NA	NA	NA	NA	NA
	10/20/2002	39.35	13.74	25.61	NA	NA	NA	NA	NA	NA
	1/3/2003	39.35	15.18	24.17	NA	NA	NA	NA	NA	NA
	5/3/2003	39.35	16.20	23.15	NA	NA	NA	NA	NA	NA
	7/24/2003	39.35	16.45	22.90	NA	NA	NA	NA	NA	NA
	10/22/2003	39.35	16.53	22.82	NA	NA	NA	NA	NA	NA
	1/22/2004	39.35	13.74	25.61	NA	NA	NA	NA	NA	NA
	4/1/2004	39.35	16.30	23.05	NA	NA	NA	NA	NA	NA
	8/20/2004	39.35	16.05	23.30	NA	NA	NA	NA	NA	NA
	12/7/2004	39.35	14.56	24.79	NA	NA	NA	NA	NA	NA
	3/16/2005	39.35	13.55	25.80	NA	NA	NA	NA	NA	NA
	5/17/2005	39.35	14.88	24.47	NA	NA	NA	NA	NA	NA
	7/14/2005	39.35	14.32	25.03	NA	NA	NA	NA	NA	NA
	10/13/2005	39.35	14.99	24.36	NA	NA	NA	NA	NA	NA
	1/3/2006	39.35	11.82	27.53	NA	NA	NA	NA	NA	NA
	4/6/2006	39.35	13.60	25.75	NA	NA	NA	NA	NA	NA
	9/7/2006	39.35	15.05	24.30	NA	NA	NA	NA	NA	NA
	11/28/2006	39.35	15.47	23.88	NA	NA	NA	NA	NA	NA
	2/26/2007	39.35	13.01	26.34	NA	NA	NA	NA	NA	NA
	5/23/2007	39.35	14.23	25.12	NA	NA	NA	NA	NA	NA
	8/20/2007	39.35	15.92	23.43	NA	NA	NA	NA	NA	NA
	11/15/2007	39.35	15.98	23.37	NA	NA	NA	NA	NA	NA
	2/21/2008	39.35	10.22	29.13	NA	NA	NA	NA	NA	NA
	5/6/2008	39.35	14.95	24.40	NA	NA	NA	NA	NA	NA
	8/5/2008	39.35	16.05	23.30	NA	NA	NA	NA	NA	NA
	11/4/2008	39.35	16.02	23.33	NA	NA	NA	NA	NA	NA
	3/24/2009	39.35	12.78	26.57	NA	NA	NA	NA	NA	NA
	6/8/2009	39.35	15.89	23.46	NA	NA	NA	NA	NA	NA
9/29/2009	39.35	15.88	23.47	NA	NA	NA	NA	NA	NA	

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FDE	5/31/2000	97.90	13.22	84.68	NA	NA	NA	NA	NA	NA
	8/9/2000	97.90	NM	NM	NA	NA	NA	NA	NA	NA
	11/2/2000	97.90	12.75	85.15	NA	NA	NA	NA	NA	NA
	3/13/2001	97.90	9.14	88.76	NA	NA	NA	NA	NA	NA
	5/22/2001	97.90	13.05	84.85	NA	NA	NA	NA	NA	NA
	8/8/2001	97.90	13.69	84.21	NA	NA	NA	NA	NA	NA
	11/19/2001	97.90	13.92	83.98	NA	NA	NA	NA	NA	NA
	2/21/2002	97.90	13.18	84.72	NA	NA	NA	NA	NA	NA
	5/7/2002	97.90	11.18	86.72	NA	NA	NA	NA	NA	NA
	7/30/2002	40.06	12.81	27.25	NA	NA	NA	NA	NA	NA
	10/20/2002	40.06	14.53	25.53	NA	NA	NA	NA	NA	NA
	1/3/2003	40.06	13.13	26.93	NA	NA	NA	NA	NA	NA
	5/3/2003	40.06	11.79	28.27	NA	NA	NA	NA	NA	NA
	7/24/2003	40.06	13.10	26.96	NA	NA	NA	NA	NA	NA
	10/22/2003	40.06	13.85	26.21	NA	NA	NA	NA	NA	NA
	1/22/2004	40.06	13.27	26.79	NA	NA	NA	NA	NA	NA
	4/1/2004	40.06	13.20	26.86	NA	NA	NA	NA	NA	NA
	8/20/2004	40.06	14.97	25.09	NA	NA	NA	NA	NA	NA
	12/7/2004	40.06	14.25	25.81	NA	NA	NA	NA	NA	NA
	3/16/2005	40.06	12.50	27.56	NA	NA	NA	NA	NA	NA
	5/17/2005	40.06	13.93	26.13	NA	NA	NA	NA	NA	NA
	7/14/2005	40.06	13.98	26.08	NA	NA	NA	NA	NA	NA
	10/13/2005	40.06	13.60	26.46	NA	NA	NA	NA	NA	NA
	1/3/2006	40.06	9.83	30.23	NA	NA	NA	NA	NA	NA
	4/6/2006	40.06	11.30	28.76	NA	NA	NA	NA	NA	NA
	9/7/2006	40.06	13.52	26.54	NA	NA	NA	NA	NA	NA
	11/28/2006	40.06	13.73	26.33	NA	NA	NA	NA	NA	NA
	2/26/2007	40.06	11.20	28.86	NA	NA	NA	NA	NA	NA
	5/23/2007	40.06	12.72	27.34	NA	NA	NA	NA	NA	NA
	8/20/2007	40.06	13.49	26.57	NA	NA	NA	NA	NA	NA
	11/15/2007	40.06	13.28	26.78	NA	NA	NA	NA	NA	NA
	2/21/2008	40.06	9.86	30.20	NA	NA	NA	NA	NA	NA
5/6/2008	40.06	12.42	27.64	NA	NA	NA	NA	NA	NA	
8/5/2008	40.06	13.54	26.52	NA	NA	NA	NA	NA	NA	
11/4/2008	40.06	13.63	26.43	NA	NA	NA	NA	NA	NA	
3/24/2009	40.06	10.58	29.48	NA	NA	NA	NA	NA	NA	
6/8/2009	40.06	12.51	27.55	NA	NA	NA	NA	NA	NA	

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FDE cont	9/29/2009	40.06	14.46	25.60	NA	NA	NA	NA	NA	NA
FDW	5/31/2000	96.90	12.20	84.70	NA	NA	NA	NA	NA	NA
	8/9/2000	96.90	NM	NM	NA	NA	NA	NA	NA	NA
	11/2/2000	96.90	15.50	81.40	NA	NA	NA	NA	NA	NA
	3/13/2001	96.90	10.12	86.78	NA	NA	NA	NA	NA	NA
	5/22/2001	96.90	13.50	83.40	NA	NA	NA	NA	NA	NA
	8/8/2001	96.90	13.08	83.82	NA	NA	NA	NA	NA	NA
	11/19/2001	96.90	14.31	82.59	NA	NA	NA	NA	NA	NA
	2/21/2002	96.90	12.78	84.12	NA	NA	NA	NA	NA	NA
	5/7/2002	96.90	10.14	86.76	NA	NA	NA	NA	NA	NA
	7/30/2002	39.16	11.79	27.37	NA	NA	NA	NA	NA	NA
	10/20/2002	39.16	13.50	25.66	NA	NA	NA	NA	NA	NA
	1/3/2003	39.16	12.13	27.03	NA	NA	NA	NA	NA	NA
	5/3/2003	39.16	10.84	28.32	NA	NA	NA	NA	NA	NA
	7/24/2003	39.16	12.12	27.04	NA	NA	NA	NA	NA	NA
	10/22/2003	39.16	13.48	25.68	NA	NA	NA	NA	NA	NA
	1/22/2004	39.16	13.58	25.58	NA	NA	NA	NA	NA	NA
	4/1/2004	39.16	13.90	25.26	NA	NA	NA	NA	NA	NA
	8/20/2004	39.16	15.69	23.47	NA	NA	NA	NA	NA	NA
	12/7/2004	39.16	14.85	24.31	NA	NA	NA	NA	NA	NA
	3/16/2005	39.16	13.10	26.06	NA	NA	NA	NA	NA	NA
	5/17/2005	39.16	14.60	24.56	NA	NA	NA	NA	NA	NA
	7/14/2005	39.16	15.10	24.06	NA	NA	NA	NA	NA	NA
	10/13/2005	39.16	13.34	25.82	NA	NA	NA	NA	NA	NA
	1/3/2006	39.16	12.61	26.55	NA	NA	NA	NA	NA	NA
	4/6/2006	39.16	12.80	26.36	NA	NA	NA	NA	NA	NA
	9/7/2006	39.16	15.80	23.36	NA	NA	NA	NA	NA	NA
	11/28/2006	39.16	14.10	25.06	NA	NA	NA	NA	NA	NA
	2/26/2007	39.16	10.21	28.95	NA	NA	NA	NA	NA	NA
	5/23/2007	39.16	12.44	26.72	NA	NA	NA	NA	NA	NA
	8/20/2007	39.16	15.08	24.08	NA	NA	NA	NA	NA	NA
11/15/2007	39.16	15.12	24.04	NA	NA	NA	NA	NA	NA	
2/21/2008	39.16	8.93	30.23	NA	NA	NA	NA	NA	NA	
5/6/2008	39.16	12.01	27.15	NA	NA	NA	NA	NA	NA	
8/5/2008	39.16	14.15	25.01	NA	NA	NA	NA	NA	NA	
11/4/2008	39.16	13.94	25.22	NA	NA	NA	NA	NA	NA	
3/24/2009	39.16	9.66	29.50	NA	NA	NA	NA	NA	NA	

**Table 1**  
**Historical Groundwater Elevation Data & Analytical Results**  
**3609 International Boulevard, Oakland, California**

Monitoring Well	Date	Top Of Casing Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE <sup>2</sup> EPA 8260B (µg/L)
FDW cont	6/8/2009	39.16	11.87	27.29	NA	NA	NA	NA	NA	NA
	9/29/2009	39.16	13.85	25.31	NA	NA	NA	NA	NA	NA
EX-1	2/27/2007	40.51	9.05	31.46	15,900	1,400	1,190	725	2,880	185
	5/23/2007	40.51	15.37	25.14	NA	NA	NA	NA	NA	NA
	8/20/2007	40.51	17.42	23.09	NA	NA	NA	NA	NA	NA
	11/15/2007	40.51	13.28	27.23	NA	NA	NA	NA	NA	NA
	2/21/2008	40.51	16.91	23.60	NA	NA	NA	NA	NA	NA
	5/6/2008	40.51	17.38	23.13	NA	NA	NA	NA	NA	NA
	8/5/2008	40.51	17.38	23.13	NA	NA	NA	NA	NA	NA
	11/4/2008	40.51	16.75	23.76	NA	NA	NA	NA	NA	NA
	3/24/2009	40.51	17.04	23.47	NA	NA	NA	NA	NA	NA
	6/8/2009	40.51	16.81	23.70	NA	NA	NA	NA	NA	NA
	9/29/2009	40.51	17.15	23.36	NA	NA	NA	NA	NA	NA

Notes:

<sup>1</sup> Top of casing elevations were re-surveyed to comply with the EDF requirements for electronic reporting of data to the State Water Resources Control Board Database on August 9, 2002.

<sup>2</sup> MtBE was analyzed using the EPA Method 8021B and confirmed using 8260B.

- C: Presence confirmed, but confirmation concentration differed by more than a factor of two.
- H: Heavier hydrocarbons may have contributed to the quantitation.
- NA: Not Analyzed
- NA: Not Applicable, Well/Drain did not exist at time of sampling
- NC: Not calculated. No top of casing elevation was available for MW-11.
- ND, <: Not Detected above laboratory reporting limits.
- NM: Not Measured
- NS: Not Surveyed.
- Y: Sample exhibits fuel pattern which does not resemble standard.

- FDC: French drain center riser.
- FDE: French drain east riser.
- FDW: French drain west riser.

Well MW-4R replaced damaged well MW-4 on April 11, 2005. The first time well MW-4R was monitored was in the Second Quarter 2005  
 NS: Not surveyed. Well MW-11 was not surveyed due to obstructions surrounding well.  
 Well EX-1 was installed in the First Quarter 2007 and initially monitored in February 2007.

**Gasoline by GC/MS**

Lab #: 210937	Location: 3609 Int'l Blvd., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2331	Analysis: EPA 8260B
Matrix: Water	Sampled: 03/24/09
Units: ug/L	Received: 03/25/09

Field ID: MW-1  
Type: SAMPLE

Lab ID: 210937-001

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Gasoline C7-C12	3,100	200	4.000	149540	04/03/09
tert-Butyl Alcohol (TBA)	ND	20	2.000	149681	04/07/09
MTBE	5.1	1.0	2.000	149681	04/07/09
Benzene	14	1.0	2.000	149681	04/07/09
Toluene	6.6	1.0	2.000	149681	04/07/09
Ethylbenzene	90	1.0	2.000	149681	04/07/09
m,p-Xylenes	180	1.0	2.000	149681	04/07/09
o-Xylene	36	1.0	2.000	149681	04/07/09

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	104	80-122	2.000	149681	04/07/09
1,2-Dichloroethane-d4	100	77-137	2.000	149681	04/07/09
Toluene-d8	103	80-120	2.000	149681	04/07/09
Bromofluorobenzene	96	80-125	2.000	149681	04/07/09

Field ID: MW-3  
Type: SAMPLE  
Lab ID: 210937-002

Diln Fac: 1.000  
Batch#: 149699  
Analyzed: 04/07/09

Analyte	Result	RL
Gasoline C7-C12	76	50
tert-Butyl Alcohol (TBA)	ND	10
MTBE	1.2	0.50
Benzene	0.69	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	1.7	0.50
o-Xylene	0.59	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	109	77-137
Toluene-d8	102	80-120
Bromofluorobenzene	104	80-125



**Gasoline by GC/MS**

Lab #:	210937	Location:	3609 Int'l Blvd., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2331	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	03/24/09
Units:	ug/L	Received:	03/25/09

Field ID: MW-10  
Type: SAMPLE

Lab ID: 210937-005

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Gasoline C7-C12	2,000	50	1.000	149540	04/02/09
tert-Butyl Alcohol (TBA)	ND	25	2.500	149681	04/07/09
MTBE	22	0.50	1.000	149540	04/02/09
Benzene	160	1.3	2.500	149681	04/07/09
Toluene	4.3	0.50	1.000	149540	04/02/09
Ethylbenzene	130	1.3	2.500	149681	04/07/09
m,p-Xylenes	6.1	0.50	1.000	149540	04/02/09
o-Xylene	ND	0.50	1.000	149540	04/02/09

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	101	80-122	1.000	149540	04/02/09
1,2-Dichloroethane-d4	94	77-137	1.000	149540	04/02/09
Toluene-d8	101	80-120	1.000	149540	04/02/09
Bromofluorobenzene	103	80-125	1.000	149540	04/02/09

Type: BLANK  
Lab ID: QC490055  
Diln Fac: 1.000

Batch#: 149540  
Analyzed: 04/02/09

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-122
1,2-Dichloroethane-d4	106	77-137
Toluene-d8	99	80-120
Bromofluorobenzene	106	80-125

NA= Not Analyzed  
ND= Not Detected  
RL= Reporting Limit  
Page 3 of 5



## Gasoline by GC/MS

Lab #:	215610	Location:	3609 Int'l Blvd., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2331	Analysis:	EPA 8260B
Field ID:	MW-6	Sampled:	10/12/09
Matrix:	Water	Received:	10/12/09
Units:	ug/L	Analyzed:	10/21/09
Batch#:	156304		

Type: SAMPLE Diln Fac: 6.250  
 Lab ID: 215610-001

Analyte	Result	RL
Gasoline C7-C12	2,000 Y	310
tert-Butyl Alcohol (TBA)	ND	63
MTBE	ND	3.1
Benzene	78	3.1
Toluene	16	3.1
Ethylbenzene	70	3.1
m,p-Xylenes	81	3.1
o-Xylene	17	3.1

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	117	75-137
Toluene-d8	111	80-120
Bromofluorobenzene	105	80-123

Type: BLANK Diln Fac: 1.000  
 Lab ID: QC517606

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	115	75-137
Toluene-d8	110	80-120
Bromofluorobenzene	110	80-123

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit  
 Page 1 of 1





# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

August 16, 1996

PEL # 9608027

SOIL TECH ENGINEERING

Attn: Noori Ameli

Re: Three water and three soil samples for Gasoline/BTEX analysis.

Project name: 3609 E. 14th St., - Oakland  
Project number: 7-92-514-SA

Date sampled: Aug 13, 1996  
Date extracted: Aug 14-15, 1996

Date submitted: Aug 14, 1996  
Date analyzed: Aug 14-15, 1996

**RESULTS:**

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)
WB-1	16000	55	2.3	43	43
WB-2	340000	2700	1900	2700	5900
WB-3	3000	15	3.3	14	14
Detection Limit	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	602	602	602	602
SAMPLE I.D.	Gasoline (ng/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)
B-1-10	N.D.	N.D.	N.D.	N.D.	N.D.
B-2-10	240	390	210	430	940
B-3-10	N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spiked	N.D.	N.D.	N.D.	N.D.	N.D.
Recovery	86.9%	82.0%	94.0%	106.8%	112.4%
Detection limit	1.0	5.0	5.0	5.0	5.0
Method of Analysis	5030 / 8015	8020	8020	8020	8020

  
David Duong  
Laboratory Director

1764 Hocket Court Milpitas, CA. 95035

Tel: 408-946-9636

Fax: 408-946-9663

TABLE 3  
GROUNDWATER ANALYTICAL RESULTS  
IN  
PARTS PER MILLION (ppm)

Date	Well No.	TPHg	B	T	E	X
10/05/93	STMW-1	320	24	21	2.6	15
	STMW-2	260	17	19	0.57	10
	STMW-3	30,000	190	740	310	1,300

TPHg - Total Petroleum Hydrocarbons as gasoline  
BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes  
ND - Not Detected (Below Laboratory Detection Limit)

Logged By: Noori Ameli		Exploratory Boring Log		Boring No. B-1	
Date Drilled: 8/19/93		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification:	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4
2				CL	Very dark grey silty pea gravelly clay, hard, mild petroleum odor. Munsell Color: HUE 5Y 3/1
3				CL	Color gets lighter to dark olive-grey silty clay, stiff.
4				CL	Munsell Color: HUE 5Y 3/2
5	B-1-5			CL	Dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
6					
7					
8				CL	Dark olive-grey silty gravelly clay, stiff, light petroleum odor.
9				CL	Munsell Color: HUE 5Y 3/2
10	B-1-10			CL	Color gets lighter to olive-grey silty clay, stiff, mild petroleum odor.
11					
12					
13					
14					
15	B-1-15			CL	Olive-grey silty clay, mild petroleum odor. Munsell Color: HUE 5Y 4/2
16					

Remarks

**ATTACHMENT 6**

Logged By: Noori Ameli	Exploratory Boring Log	Boring No. B-1
Date Drilled: 8/19/93	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
17				CL	Color changes to olive-brown silty clay, very light petroleum odor, damp. Munsell Color: HUE 2.5 Y 4/4
18					
19					▽ First groundwater encountered at 19 feet.
20				CL	Olive-brown silty clay, mild petroleum odor, wet. Munsell Color: HUE 2.5Y 4/4 Boring terminated at 20 feet.
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

Remarks

Logged By: Noori Ameli	Exploratory Boring Log	Boring No. B-2/STMW-2
Date Drilled: 8/19/93	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravelly clay, hard. Munsell Color: HUE 5Y 3/1
2					
3				CL	Color gets lighter to dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
4					
5	B-2-6			CL	Dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
6					
7					
8					
9				CL	Color changes to olive-brown silty clay, stiff, mild petroleum odor. Munsell Color: HUE 2.5Y 4/4
10					
11					
12	B-2-12			CL	Olive-brown silty clay, stiff, stronger petroleum odor. Munsell Color: HUE 2.5Y 4/4
13					
14					
15					
16					▽ First groundwater encountered at 16 feet.

Remarks

Logged By: <b>Noori Ameli</b>	Exploratory Boring Log	Boring No. <b>B-2/STMW-2</b>
Date Drilled: <b>8/19/93</b>	Approx. Elevation	Boring Diameter <b>8-inch</b>

Drilling Method <b>Mobile dirll rig B-40L</b>	Sampling Method
--	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
17				CL	Olive-brown silty clay, stiff, strong petroleum odor, wet. Munsell Color: HUE 2.5Y 4/4
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30				CL	Olive-brown silty clay, stiff, strong petroleum odor, wet, yellowish-brown sheen on the water. Munsell Color: HUE 2.5Y 4/4
31					Boring terminated at 30 feet.
32					

Remarks

Logged By: Noori Ameli		Exploratory Boring Log		Boring No. B-3/P-1	
Date Drilled: 8/19/93		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				cl	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravelly clay, hard. Munsell Color: HUE 5Y 3/1
2					
3					
4					
5	B-3-5			cl	Color gets lighter to dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
6					
7					
8				cl	Color changes to olive-brown silty clay, stiff, very light petroleum odor. Munsell Color: HUE 5Y 3/2
9					
10	B-3-10			cl	Color changes to olive silty clay, stiff, light petroleum odor. Munsell Color: HUE 5Y 4/3
11					
12					
13					
14					
15	B-3-15			CL	Olive silty clay, stiff, mild petroleum odor, damp. Munsell Color: HUE 5Y 4/3 Boring terminated at 15 feet.
16					
Remarks					

Logged By: <b>Noori Ameli</b>	Exploratory Boring Log	Boring No. <b>B-4</b>
Date Drilled: <b>8/19/93</b>	Approx. Elevation	Boring Diameter <b>8-inch</b>

Drilling Method <b>Mobile drill rig B-40L</b>	Sampling Method
--	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravell clay, hard. Munsell Color: HUE 5Y 3/1.
2					
3					
4					
5	B-4-5			CL	Color gets lighter to dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
6					
7					
8					
9					
10	B-4-10			CL	Color changes to olive silty clay, stiff, very light petroleum odor. Munsell Color: HUE 5Y 4/3
11					
12					
13					
14					
15	B-4-15			CL	Olive silty clay, stiff, very light petroleum odor. Munsell Color: HUE 5Y 4/3 Boring terminated at 15 feet.
16					

Remarks



Logged By: Noori Ameli		Exploratory Boring Log		Boring No. B-5	
Date Drilled: 8/19/93		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L				Sampling Method	
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravelly clay, hard. Munsell color: HUE 5Y 3/1
2					
3					
4					
5	B-5-5			CL	Color gets lighter to dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
6					
7					
8					
9					
10	B-5-10			CL	Color changes to olive silty clay, stiff. Munsell Color: HUE 5Y 4/3
11					
12					
13					
14					
15	B-5-15			CL	Olive silty clay, stiff, damp. Munsell Color: HUE 5Y 4/3 Boring terminated at 15 feet.
16					
Remarks					

Logged By: Noori Ameli	Exploratory Boring Log	Boring No. B-5
Date Drilled: 8/19/93	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 4/3 Very dark grey silty pea gravelly clay, hard. Munsell Color: HUE 5Y 3/1
2					
3					
4					
5	B-5-5			CL	Color gets lighter to dark olive-grey silty clay, silty. Munsell Color: HUE 5Y 3/2
6					
7					
8					
9					
10	B-5-10			CL	Color changes to olive silty clay, stiff. Munsell Color: HUE 5Y 4/5
11					
12					
13					
14					
15	B-5-15			CL	Olive silty clay, stiff, damp. Munsell Color: HUE 5Y 4/3 Boring terminated at 15 feet.
16					

Remarks

Logged By: Noori Ameli	Exploratory Boring Log	Boring No. B-6/P-3
Date Drilled: 8/20/93	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravelly clay, hard. Munsell Color: HUE 5Y 3/1 Mild petroleum odor.
2					
3					
4					
5	B-6-5			CL	Color changes to dark olive-grey silty clay, stiff, mild petroleum odor. Munsell Color: HUE 5Y 3/2
6					
7					
8					
9					
10	B-6-10			CL	Color changes to very dark greyish-brown silty clay, stiff, strong petroleum odor. Munsell Color: HUE 2.5Y 3/2
11				CL	Very dark greyish-brown silty clay, stiff, strong petroleum odor. Munsell Color: HUE 2.5Y 3/2
12				CL	Color gets lighter to dark greyish-brown silty clay, strong petroleum odor, stiff. Munsell Color: HUE 2.5Y 4/2
13					
14	B-6-14			CL	Dark greyish-brown silty clay, stiff, mild petroleum odor, damp. Munsell Color: HUE 2.5Y 4/2
15					
16					▽ First groundwater encountered at 16 feet. Boring terminated at 16 feet.

Remarks

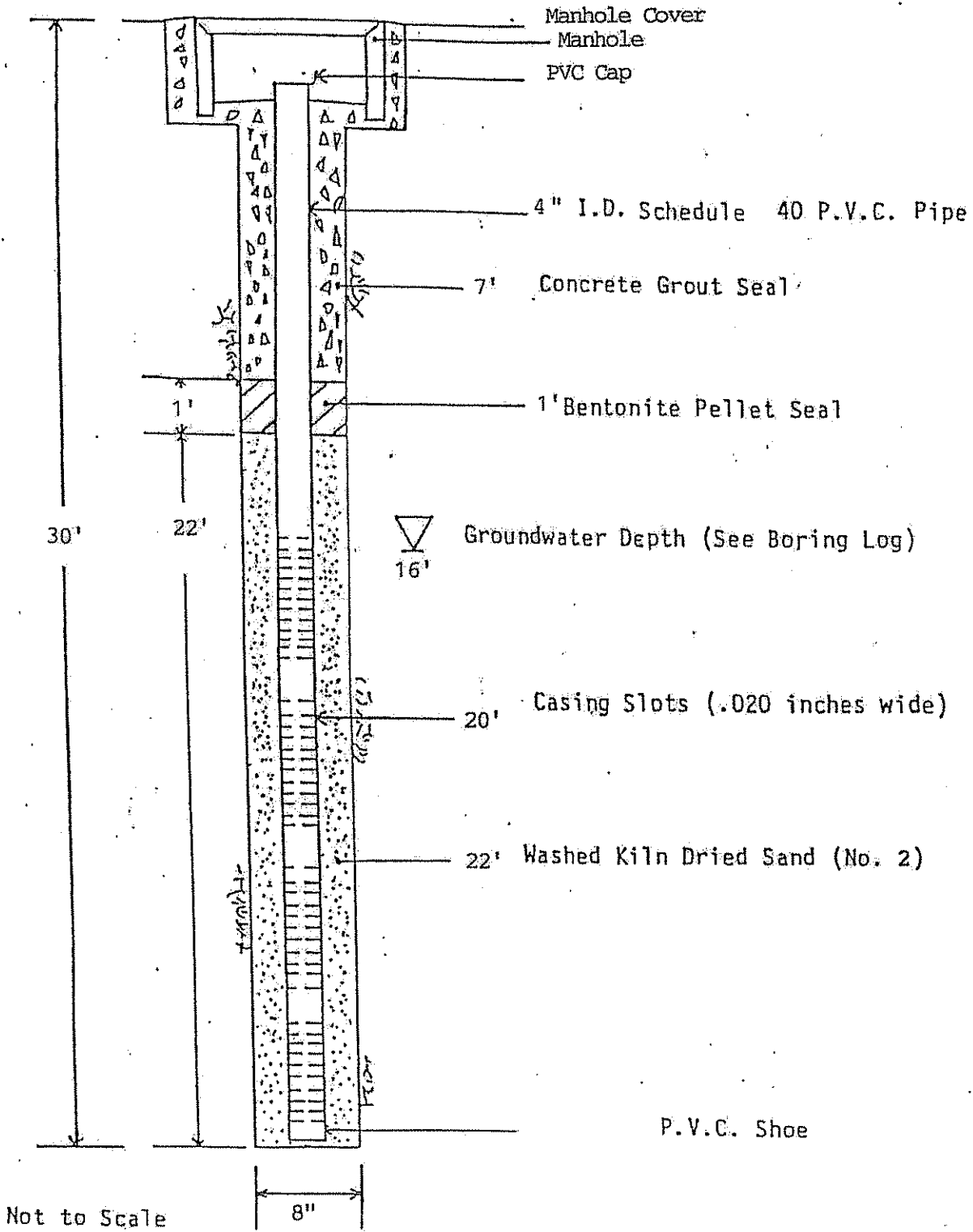
Logged By: Noori Ameli	Exploratory Boring Log	Boring No. B-7/SIMW-3
Date Drilled: 8/20/93	Approx. Elevation	Boring Diameter 8-inches

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravelly clay, hard, light sewage odor. Munsell Color: HUE 5Y 3/1
2					
3					
4					
5	B-7-5			CL	Color changes to dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
6					
7					
8					
9					
10	B-7-10			CL	Color gets lighter to olive-grey silty clay, stiff, light petroleum odor. Munsell Color: HUE 5Y 4/2
11					
12					
13					
14	B-7-14			CL	Olive-brown silty clay, stiff, light petroleum odor. Munsell Color: HUE 2.5Y 4/4
15					
16					▽ First groundwater encountered at 16 feet.

Remarks

Logged By: Noori Ameli		Exploratory Boring Log		Boring No. B-7/STMW-3	
Date Drilled: 8/23/93		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
17				CL	Olive-brown silty clay, stiff, light petroleum odor. Munsell Color: HUE 2.5Y 4/4
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30				CL	Olive-brown silty clay, stiff, strong petroleum odor, wet, yellowish sheen on the water. Munsell Color: HUE 2.5Y 4/4
31					Boring terminated at 30 feet.
32					
Remarks					



SIMW-3

Piezometer Schematic

SOIL TECH ENGINEERING, INC.

PS3

Logged By: Noori Ameli		Exploratory Boring Log		Boring No. B-8/P-2	
Date Drilled: 8/20/93		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravelly clay, hard. Munsell Color: HUE 5Y 3/1
2					
3					
4					
5	B-8-5			CL	Color changes to dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
6					
7					
8					
9					
10	B-8-10			CL	Color changes to olive-grey silty clay, stiff, light petroleum odor. Munsell Color: HUE 5Y 4/2
11					
12					
13					
14	B-8-14			CL	Olive-grey silty clay, stiff, light petroleum odor, damp. Munsell Color: HUE 5Y 4/2
15					
16				CL	Olive-grey silty clay, stiff, mild petroleum odor, moist. Munsell Color: HUE 5Y 4/2 ∇ First groundwater encountered at 16 feet. Boring terminated at 16 feet.
Remarks					

Logged By: Noori Ameli		Exploratory Boring Log		Boring No. B-9	
Date Drilled: 8/20/93		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Igimization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
1				CL	6-inch dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravelly clay, hard. Munsell Color: HUE 5Y 3/1
2					
3					
4					
5	B-9-5			CL	Color changes to dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
6					
7					
8				CL	Color changes to olive-grey silty clay, stiff, light petroleum odor. Munsell Color: HUE 5Y 4/2
9					
10	B-9-10			CL	Olive-grey silty clay, stiff, light petroleum odor. Munsell Color: HUE 5Y 4/2
11					
12					
13					
14	B-9-14			CL	Olive-grey silty clay, stiff, light petroleum odor, damp. Munsell Color: HUE 5Y 4/2
15				CL	Olive-grey silty clay, stiff, mild petroleum odor, moist. Munsell Color: HUE 5Y 4/2
16					▽ First groundwater encountered at 16 feet. Boring terminated at 16 feet.
Remarks					



Logged By: Noori Ameli	Exploratory Boring Log	Boring No. B-10
Date Drilled 8/20/93	Approx. Elevation	Boring Diameter 8-inch

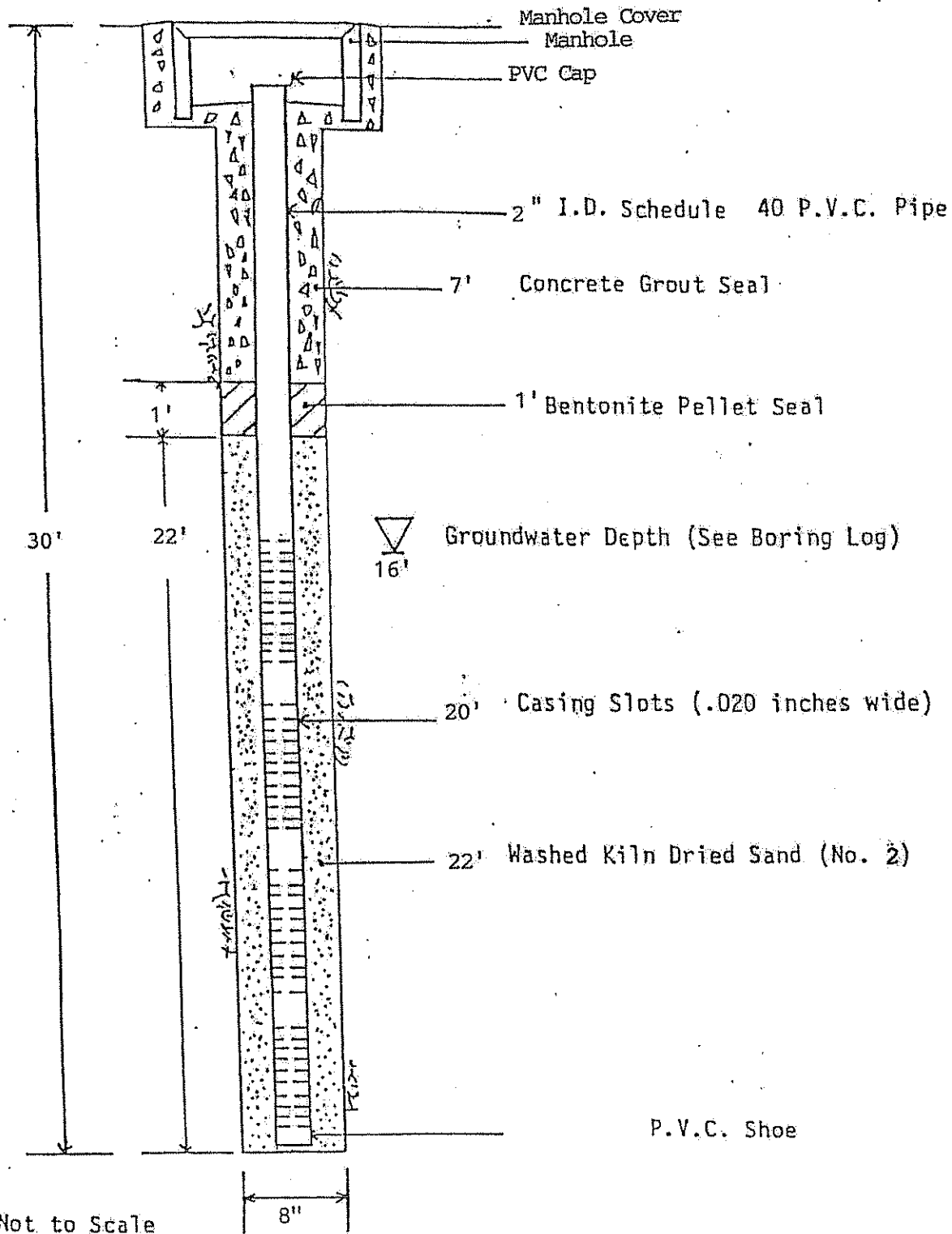
Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravelly clay, hard. Munsell Color: HUE 5Y 3/1
2					
3					
4					
5	B-10-5			CL	Color changes to dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
6					
7				CL	Color changes to olive-grey silty clay, stiff. Munsell Color: HUE 5Y 4/2
8					
9					
10	B-10-10			CL	Olive-grey silty clay, stiff. Munsell Color: HUE 5Y 4/2
11					
12					
13					
14	B-10-14			CL	Color changes to olive-brown silty clay, stiff, light petroleum odor. Munsell Color: HUE 2.5Y 4/4
15				CL	Olive-brown silty clay, stiff, light petroleum odor. Munsell Color: HUE 2.5Y 4/4
16					∇ First groundwater encountered at 16 feet. Boring terminated at 16 feet.

Remarks

Logged By		Exploratory Boring Log		Boring No. B-11/SIMW-1	
Date Drilled		Approx. Elevation		Boring Diameter	
Drilling Method			Sampling Method		
Mobile drill rig B-40L					
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravelly clay, hard. Munsell Color: HUE 5y 3/1
2					
3					
4					
5	B-11-5			CL	Color changes to dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
6				CL	Color changes to olive-grey silty clay, stiff. Munsell Color: HUE 5Y 4/2
7					
8					
9					
10	B-11-10			CL	Olive-grey silty clay, stiff, very light petroleum odor. Munsell Color: HUE 5Y 4/2
11					
12					Mild petroleum odor.
13					
14	B-11-14			CL	Olive-grey silty clay, stiff, strong petroleum odor, damp. Munsell Color: HUE 5Y 4/2
15				CL	Olive-grey silty clay, stiff, strong petroleum odor, moist. Munsell Color: HUE 5Y 4/2
16					∇ First groundwater encountered at 16 feet.
Remarks					

Logged By: Noori Ameli		Exploratory Boring Log		Boring No. B-11/STMW-1	
Date Drilled: 8/23/93		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/ft.	Unified Soil Classification	DESCRIPTION
17				CL	Olive-grey silty clay, stiff, strong petroleum odor, moist. Munsell Color: HUE 5Y 4/2
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30				CL	Olive-grey silty clay, stiff, strong petroleum odor, wet, yellowish-brown sheen on the water. Munsell Color: HUE 5Y 4/2
31					Boring terminated at 30 feet.
32					
Remarks					



STMW-1

Piezometer Schematic

SOIL TECH ENGINEERING, INC.

PS1

Logged By: Noori Ameli		Exploratory Boring Log		Boring No. B-12	
Date Drilled: 8/20/93		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blower/Ft.	Unified Soil Classification	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravelly clay, hard. Munsell Color: HUE 5Y 3/1
2					
3					
4					
5	B-12-5			CL	Color changes to dark grey silty pea gravelly clay, stiff. Munsell Color: HUE 5Y 3/2
6					
7				CL	Color changes to olive-grey silty clay, stiff. Munsell Color: HUE 5Y 4/2
8					
9					
10	B-12-10			CL	Olive-grey silty clay, stiff, very light petroleum odor. Munsell Color: HUE 5Y 4/2
11					
12					
13					
14	B-12-14			CL	Olive-grey silty clay, stiff, light petroleum odor. Munsell Color: HUE 5Y 4/2 Boring terminated at 14 feet.
15					
16					
Remarks					

Logged By: Noori Ameli	Exploratory Boring Log	Boring No. B-13/P4
Date Drilled: 8/24/93	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CL	6-inches dark yellowish-brown baserock. Munsell Color: HUE 10YR 3/4 Very dark grey silty pea gravelly clay, hard. Munsell Color: HUE 5Y 3/1
2					
3					
4					
5	B-13-5			CL	Color gets lighter to dark olive-grey silty clay, hard. Munsell Color: HUE 5Y 3/2
6					
7				CL	Color changes to dark greyish-brown silty clay, stiff. Munsell Color: HUE 2.5Y 4/2
8					
9					
10	B-13-10			CL	Dark greyish-brown silty clay, stiff. Munsell Color: HUE 2.5Y 4/2
11					
12				CL	Color changes to olive silty clay, stiff, light petroleum odor. Munsell Color: HUE 5Y 4/3
13					
14	B-13-14			CL	Olive silty clay, stiff, mild petroleum odor. Munsell Color: HUE 5Y 4/3
15				CL	Olive silty pea gravelly clay, stiff, mild petroleum odor. Munsell Color: HUE 5Y 4/3 Boring terminated at 15 feet.
16					

Remarks

Logged By: <b>Noori Ameli</b>	Exploratory Boring Log	Boring No. <b>B-1</b>
Date Drilled: <b>8/13/96</b>	Approx. Elevation	Boring Diameter <b>8-inch</b>

Drilling Method <b>Mobile drill rig B-40L</b>	Sampling Method
--	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
1					4-inch concrete, 6-inch dark yellowish-brown baserock. Munsell Color: HUE 10YR 4/4 Very dark grey silty clay, very stiff. Munsell Color: HUE 5Y 3/1
2					
3					Color gets lighter to dark olive-grey silty clay, very stiff. Munsell Color: HUE 5Y 3/2
4					
5	B-1-5		N=15	CL	Dark olive-grey silty clay with minor pea gravel, stiff. Munsell Color: HUE 5Y 3/2
6					
7					
8					
9					
10	B-1-10		N=17	CL	Color gets lighter to olive-grey silty clay, stiff. Munsell Color: HUE 5Y 4/2 Olive-grey silty clay, stiff.
11					
12					Color gets darker to dark olive-grey silty pea gravelly clay, very light petroleum odor, damp. Munsell Color: HUE 5Y 3/2
13					
14					
15					∇ First groundwater encountered at 15 feet. Boring terminated at 15 feet.
16					

Remarks

Logged By: Noori Ameli	Exploratory Boring Log	Boring No. B-2
Date Drilled: 8/13/96	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
1					3-inch asphalt, 6-inch dark yellowish-brown baserock. Munsell Color: HUE 10YR 4/4 Very dark grey silty clay, very stiff. Munsell Color: HUE 5Y 3/1
2					
3					Color gets lighter to dark olive-grey silty clay, very stiff. Munsell Color: HUE 5Y 3/2
4					
5	B-2-5		N=14	CL	Dark olive-grey silty clay, stiff. Munsell Color: HUE 5Y 3/2
6					
7					
8					Color gets lighter to olive-grey silty clay, stiff, very light petroleum odor. Munsell Color: HUE 5Y 4/2
9					
10	B-2-10		N=19	CL	Olive-grey silty clay, stiff, light petroleum odor. Munsell Color: HUE 5Y 4/2
11					
12					Petroleum odor gets stronger, damp.
13					
14					
15					∇ First groundwater encountered at 15 feet. Boring terminated at 15 feet.
16					

Remarks



Logged By: <b>Noori Ameli</b>	Exploratory Boring Log	Boring No. <b>B-3/STMW-9</b>
Date Drilled: <b>8/13/96</b>	Approx. Elevation	Boring Diameter <b>8-inch</b>
Drilling Method <b>Mobile drill rig B-40L</b>		Sampling Method

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
1					12-inch dark yellowish-brown baserock. Munsell Color: HUE 10YR 4/4
2					Very dark greyish-brown silty clay, stiff. Munsell Color: HUE 2.5Y 3/2
3					
4					
5	B-3-5		N=16	CL	Very dark greyish-brown silty clay, stiff. Munsell Color: HUE 2.5Y 3/2
6					
7					
8					Color gets lighter to olive-brown silty clay. Munsell Color: HUE 2.5Y 4/4
9					
10	B-3-10		N=15	CL	Olive-brown silty clay, stiff. Munsell Color: HUE 2.5Y 4/4
11					Color changes to dark greyish-brown silty clay, damp, stiff. Munsell Color: HUE 2.5Y 4/2
12					
13					
14					
15					<u>∇</u> First groundwater encountered at 15 feet. Boring terminated at 15 feet.
16					

Remarks

File No. 7-92-514-SA

Logged By: <b>Frank Hamed</b>	Exploratory Boring Log	Boring No. <b>STMW-9</b>
Date Drilled: <b>9/06/96</b>	Approx. Elevation	Boring Diameter <b>8-inch</b>

Drilling Method <b>Mobile drill rig B-40L</b>	Sampling Method
--	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification:	DESCRIPTION
1					Previously logged on 8/13/96.
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16				CL	Greyish-brown silty clay, very moist, stiff, petroleum.

Remarks

Logged By: Frank Hamedi	Exploratory Boring Log	Boring No. SIMW-9
Date Drilled: 9/06/96	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
17				CL	Greyish-brown silty clay, very moist, stiff, petroleum odor.
18					
19					
20					
21					
22					
23				CL	Color changes to brown silty clay, very moist, stiff, petroleum odor.
24					
25					Boring terminated at 25 feet.
26					
27					
28					
29					
30					
31					
32					

Remarks

Logged By: <b>Frank Hamed</b>	Exploratory Boring Log	Boring No. <b>STM-10</b>
Date Drilled: <b>9/06/96</b>	Approx. Elevation	Boring Diameter <b>8-inch</b>

Drilling Method <b>Mobile drill rig B-40L</b>	Sampling Method
--	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
1					4-inch asphalt concrete. 12-inch greyish-brown baserock.
2					
3					
4					
5	B-10-5		N=17		Dark grey silty clay, stiff.
6					
7					
8					
9					
10	B-10-10		N=20		Light brown silty clay, petroleum odor, moist.
11					
12					
13					
14					<u>√</u> First groundwater encountered at 14 feet.
15					
16					Color changes to dark brown silty clay, stiff to very stiff.

Remarks

File No. 7-92-514-SA

Logged By: Frank Hamedi	Exploratory Boring Log	Boring No. SIMW-10
Date Drilled: 9/06/96	Approx. Elevation	Boring Diameter 8-inch
Drilling Method Mobile drill rig B-40L		Sampling Method

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
17				CL	Light brown silty clay, moist, petroleum odor.
18					
19					
20				CL	Color changes to dark brown silty clay, stiff to very stiff.
21					
22					
23					
24					
25					Boring terminated at 25 feet.
26					
27					
28					
29					
30					
31					
32					

Remarks

File No. 7-92-514-SA

Logged By: Frank Hamed	Exploratory Boring Log	Boring No. SIMW-11
Date Drilled: 9/06/96	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
3					3-inch asphalt, 12-inch brown baserock.
4					Dark grey silty clay,
5	B-11-5		N=16	CL	Dark grey silty clay, very stiff.
6					
7					
8					
9					
10	B-11-10		N=19	CL	Light brown silty clay with some gravel, petroleum odor.
11					
12					
13					
14					∇ First groundwater encountered at 14 feet.
15					
16					

Remarks

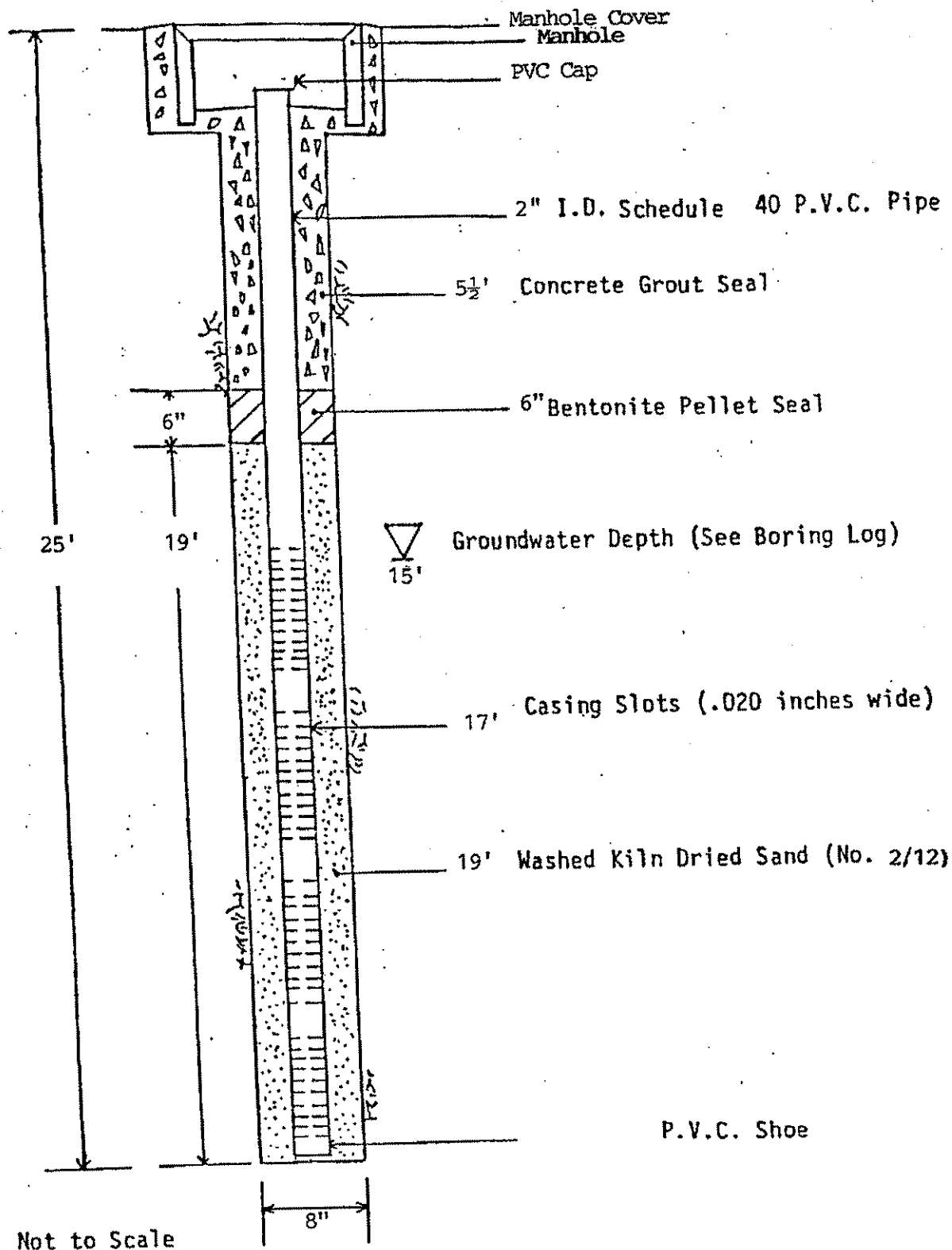
File No. 7-92-514-SA

Logged By: Frank Hamedi	Exploratory Boring Log	Boring No. SIMW-11
Date Drilled: 9/06/96	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
17					Light brown silty clay with some gravel, petroleum odor.
18				CL	Olive-grey silty clay, petroleum odor.
19					
20					
21				CL	Dark brown silty clay with gravel, very stiff.
22					
23					
24					
25					Boring terminated at 25 feet.
26					
27					
28					
29					
30					
31					
32					

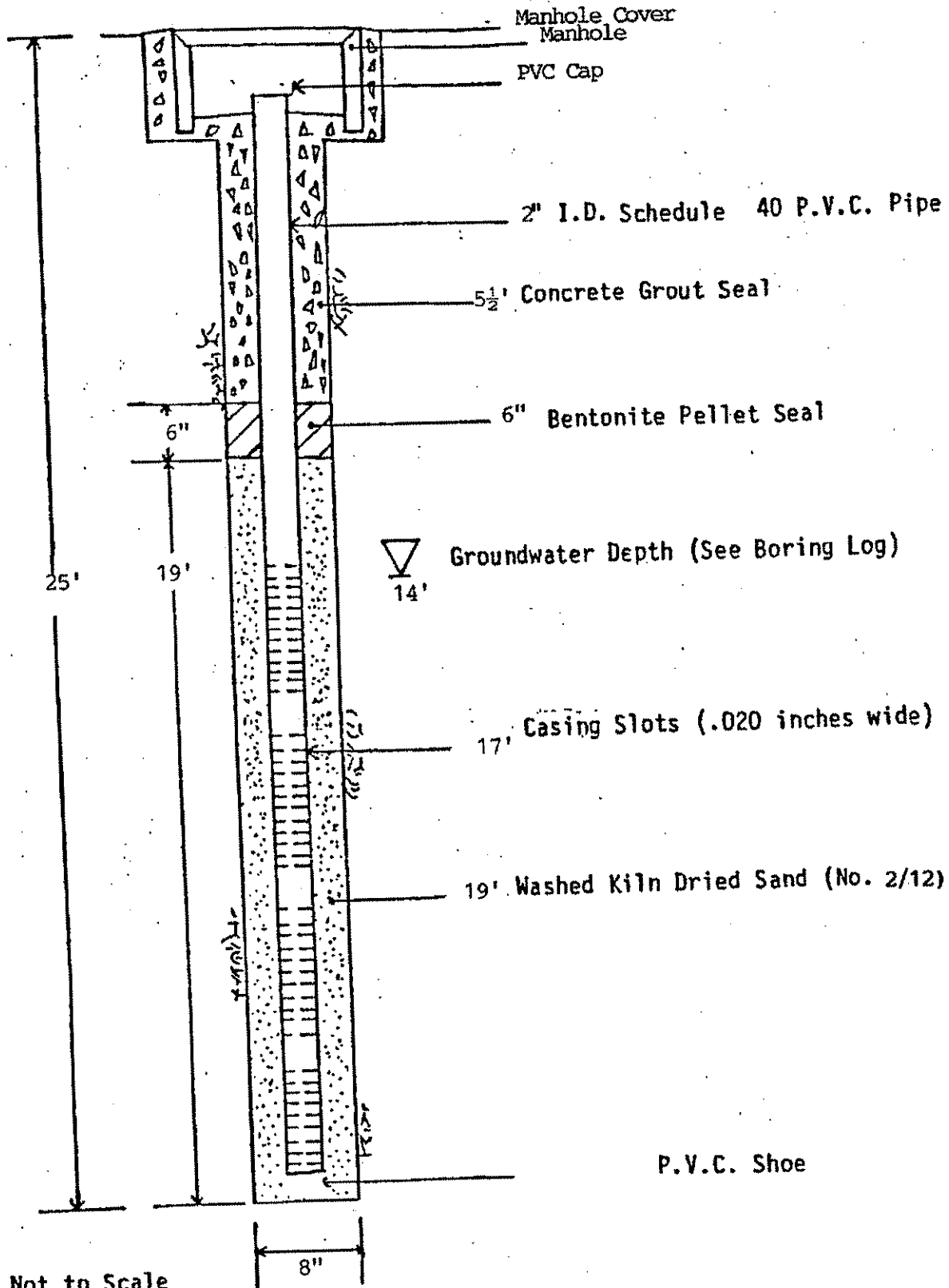
Remarks



SIMW-9

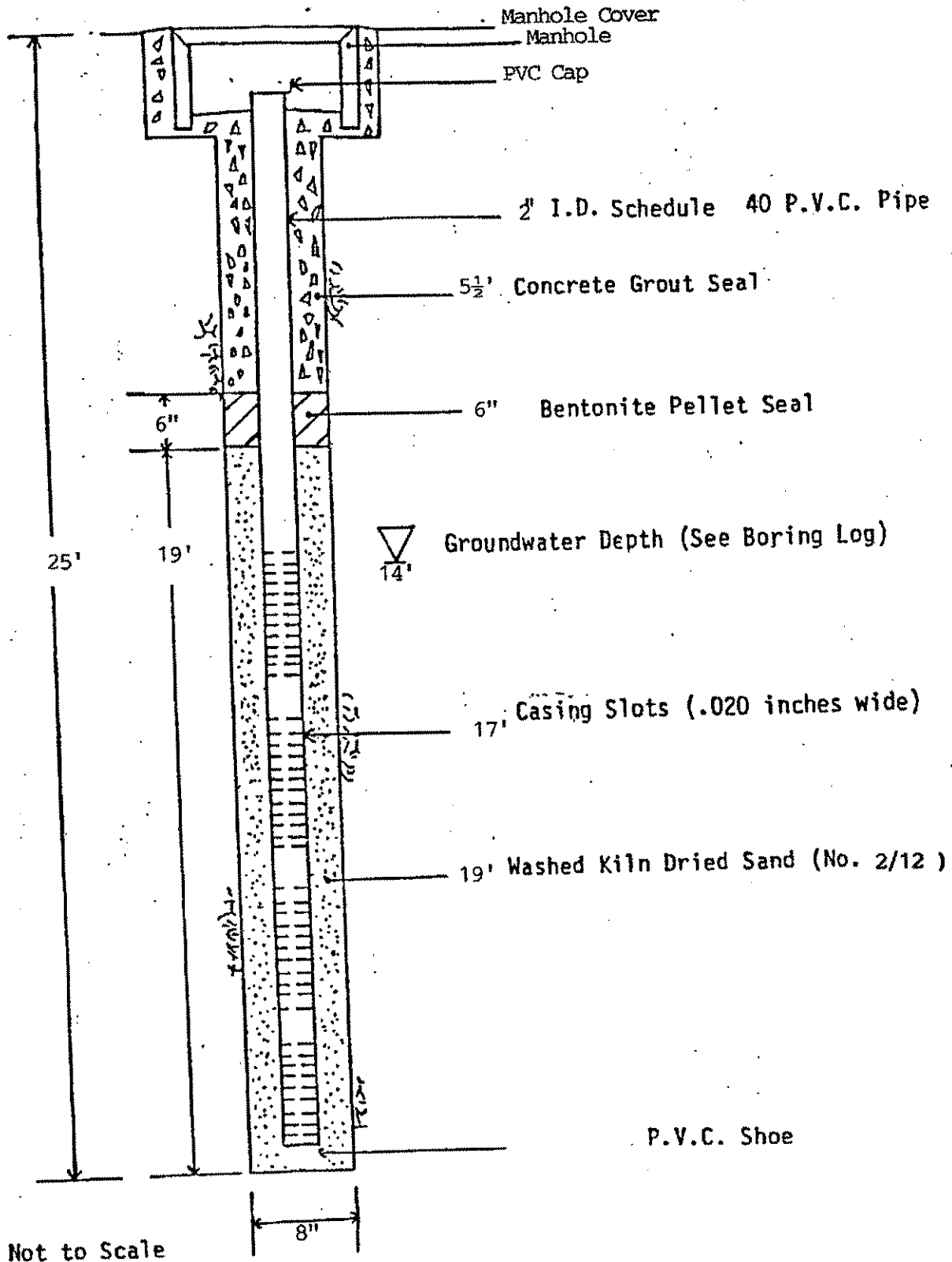
Piezometer Schematic





SIMW-10

Piezometer Schematic



SIMW-11

Logged By Noori Ameli		Exploratory Boring Log		Boring No. B-14	
Date Drilled: 8/30/95		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1					6-inch concrete. Very dark grey silty pea gravelly clay, hard. Munsell Soil Color: HUE 10YR 3/1
2					
3					
4					
5	B-14-5			CL	Color gets lighter to dark greyish-brown silty clay, hard. Munsell Soil Color: HUE 10YR 4/2 Dark greyish-brown silty clay, hard. Munsell Color: HUE 10YR 4/2
6					
7					
8					Color gets lighter to brown silty clay, hard. Munsell Soil Color: HUE 10YR 4/3
9					
10	B-14-10			CL	Color changes to olive-grey silty clay, hard. Munsell Soil Color: HUE 5Y 4/2
11					
12					
13					
14					
15					<u>∇</u> First groundwater encountered at 15 feet. Olive-grey silty clay, stiff, moist, hard. Munsell Soil Color: HUE 5Y 4/2
16					Boring terminated at 15 feet.
Remarks					

Logged By: Noori Ameli		Exploratory Boring Log		Boring No. STMW-4	
Date Drilled: 8/30/95		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1					2-inch asphalt, 10-inch dark brown baserock. Munsell Soil Color: HUE 10YR 4/3
2					Very dark grey silty pea gravelly clay, stiff. Munsell Soil Color: HUE 10YR 3/1
3					
4					
5					Very dark grey silty clay, hard. Munsell Soil Color: HUE 10YR 3/1
6					Color gets lighter to dark brown silty clay, hard. Munsell Soil Color: HUE 10YR 3/3
7					
8	STMW-4-8			CL	Brown silty clay, hard. Munsell Soil Color: HUE 10YR 4/3
9					
10					
11					
12					
13					
14					Color changes to dark olive-grey silty clay, hard, very light petroleum odor.
15					Munsell Soil Color: HUE 5Y 3/2
16					∇ First groundwater encountered at 16 feet.
Remarks					

Logged By Noori Ameli	Exploratory Boring Log	Boring No STMW-4
Date Drilled 8/30/95	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/ft	Unified Soil Classification	DESCRIPTION
17					Color changes to dark olive-grey silty clay, hard, very light petroleum odor. Munsell Soil Color: HUE 5Y 3/2
18					
19					
20					Color changes to dark greyish-brown silty clay, hard, light petroleum odor. Munsell Soil Color: HUE 2.5Y 4/2
21					
22					
23					
24					
25					
26					
27					Dark greyish-brown fine sandy clay, moist, light petroleum odor, stiff. Munsell Soil Color: HUE 2.5Y 4/2
28					Boring terminated at 27 feet.
29					
30					
31					
32					

Remarks

Logged By: Noori Ameli		Exploratory Boring Log		Boring No. SIMW-5	
Date Drilled 8/30/95		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1					6-inch concrete. Very dark grey silty clay, hard. Munsell Soil Color: HUE 10YR 3/1
2					
3					
4					
5	SIMW-5-5			CL	Color gets lighter to very dark greyish-brown silty clay with minor gravel, hard. Munsell Soil Color: HUE 10YR 3/2
6					
7					Color gets lighter to dark greyish-brown silty clay, hard. Munsell Soil Color: HUE 2.5Y 4/2
8					
9					
10	SIMW-5-10			CL	Color changes to dark olive-grey silty clay, hard. Munsell Soil Color: HUE 5Y 3/2
11					
12					Color changes to dark greyish-brown silty clay, hard. Munsell Soil Color: HUE 2.5Y 4/2
13					
14					
15					
16					
Remarks					

Logged By: <b>Noori Ameli</b>		Exploratory Boring Log		Boring No <b>STMW-5</b>	
Date Drilled: <b>8/30/95</b>		Approx. Elevation		Boring Diameter <b>8-inch</b>	
Drilling Method <b>Mobile drill rig B-40L</b>			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blowing	Unified Soil Classification	DESCRIPTION
17					Very light petroleum odor.            ▽ First groundwater encountered at 21 feet. Dark greyish-brown silty pea gravelly clay, stiff, moist. Munsell Soil Color: HUE 2.5Y 4/2            Boring terminated at 26 feet.
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
Remarks					

Logged By: Noori Ameli		Exploratory Boring Log		Boring No. STMW-6	
Date Drilled 8/31/95		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L				Sampling Method	
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1					6-inch concrete, 4-inch dark brown baserock. Munsell Soil Color: HUE 10YR 4/3
2					Very dark grey silty clay, hard. Munsell Soil Color: HUE 10YR 3/1
3					Color changes to dark olive-grey silty clay, hard. Munsell Soil Color: HUE 5Y 3/2
4					
5	STMW-6-5			CL	Dark olive-grey silty clay, hard. Munsell Soil Color: HUE 5Y 3/2
6					
7					
8					Color gets lighter to dark greyish-brown silty clay, hard. Munsell Soil Color: HUE 2.5Y 4/2
9					
10	STMW-6-10			CL	Dark greyish-brown silty clay, hard. Munsell Soil Color: HUE 2.5Y 4/2
11					
12					
13					
14					
15					Very light petroleum odor.
16					
Remarks					



Logged By Noori Ameli		Exploratory Boring Log		Boring No. STMW-6	
Date Drilled: 8/31/95		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/5'	Unified Soil Classification	DESCRIPTION
17					<p>∇ First groundwater encountered at 17 feet.                      Dark greyish-brown fine sandy clay, hard, very light petroleum odor.                      Munsell Soil Color: HUE 2.5Y 4/2</p>
18					
19					
20					
21					<p>Dark greyish-brown fine sandy gravelly clay, wet, stiff.                      Munsell Soil Color: HUE 2.5Y 4/2</p>
22					
23					
24					
25					
26					<p>Dark greyish-brown fine sandy gravelly clay, wet, stiff.                      Munsell Soil Color: HUE 2.5Y 4/2                      Boring terminated at 26 feet.</p>
27					
28					
29					
30					
31					
32					
Remarks					

Logged By: Noori Ameli		Exploratory Boring Log		Boring No. STMW-7	
Date Drilled: 8/31/95		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1					6-inch concrete, very dark grey silty clay with minor pea gravel, hard. Munsell Soil Color: HUE 10YR 3/1
2					
3					
4					
5	STMW-7-5			CL	Very dark grey silty clay with minor pea gravel, hard. Munsell Soil Color: HUE 10YR 3/1
6					
7					Color changes to dark olive-grey silty clay, hard.
8					Munsell Soil Color: HUE 5/Y 3/2
9					
10	STMW-7-10			CL	Color gets lighter to olive-grey silty clay, hard. Munsell Soil Color: HUE 5Y 4/2
11					
12					
13					
14					
15					
16					∇ First groundwater encountered at 16 feet.
Remarks					

Logged By Noori Ameli	Exploratory Boring Log	Boring No SIMW-7
Date Drilled 8/31/95	Approx. Elevation	Boring Diameter 8-inch

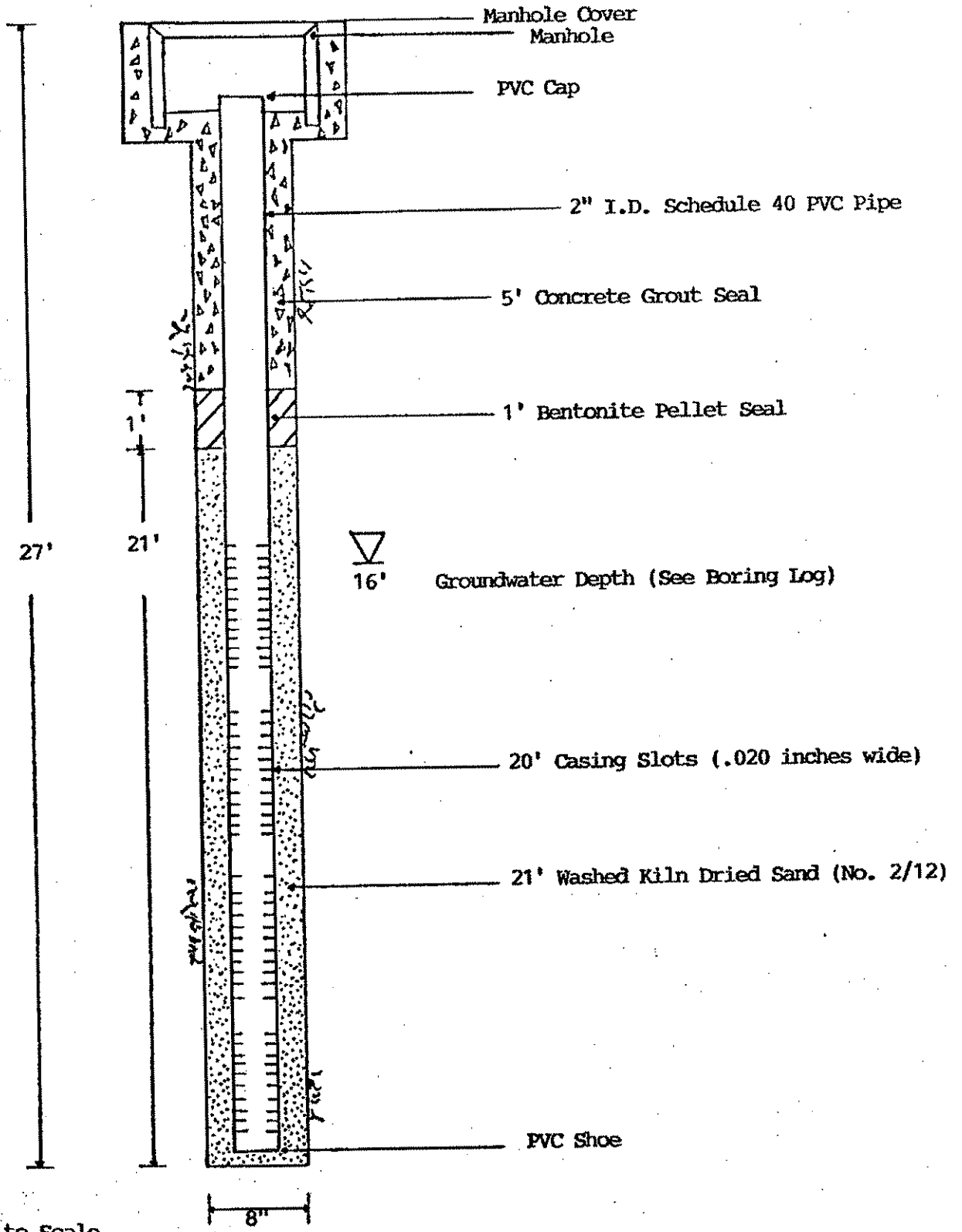
Drilling Method Mobile drill rig B-40L	Sampling Method
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Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
17					Olive-grey fine sandy clay, stiff, very light petroleum odor, moist. Munsell Soil Color: HUE 5Y 4/2
18					
19					Olive-grey sandy pea gravelly clay, stiff, very light petroleum odor, wet. Munsell Soil Color: HUE 5Y 4/2
20					
21					
22					
23					
24					
25					
26					Boring terminated at 26 feet.
27					
28					
29					
30					
31					
32					

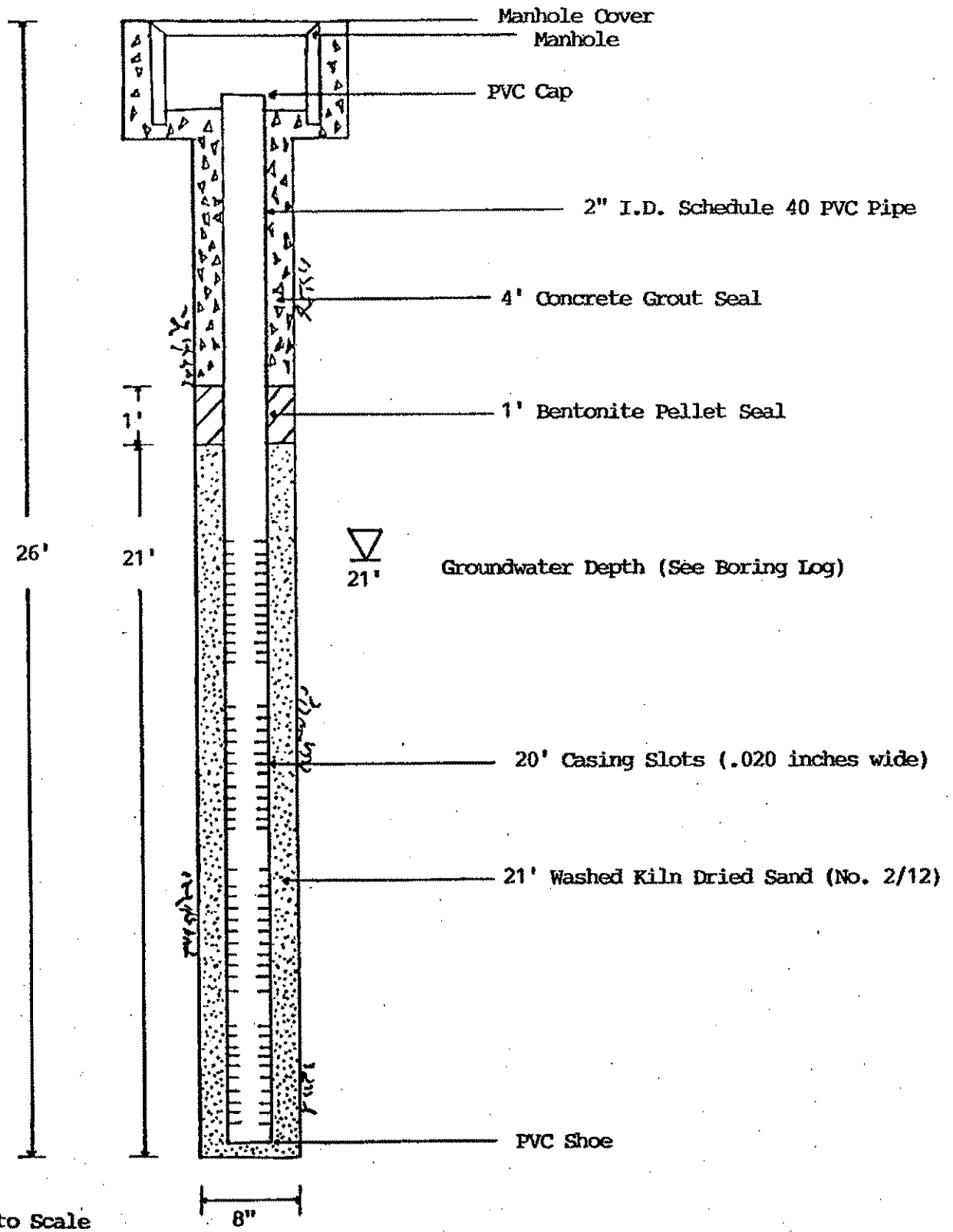
Remarks

Logged By: Noori Ameli		Exploratory Boring Log			Boring No. STMW-8
Date Drilled: 8/30/95		Approx. Elevation			Boring Diameter 8-inch
Drilling Method Mobile drill rig B-40L				Sampling Method	
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1					2-inch asphalt, 6-inch dark brown baserock. Munsell Soil Color: HUE 10YR 4/3
2					Very dark grey silty clay with minor pea gravel, hard. Munsell Soil Color: HUE 10YR 3/1
3					
4	STMW-8-4			CL	Color changes to dark olive-grey silty clay, hard. Munsell Soil Color: HUE 5Y 3/2
5					
6					
7					
8	STMW-8-8			CL	Color gets lighter to olive-grey silty clay, hard. Munsell Soil Color: HUE 5Y 4/2
9					
10					
11					
12					
13					
14					
15					∇ First groundwater encountered at 15 feet. Olive-grey silty clay, moist, light petroleum odor, hard. Munsell Soil Color: HUE 5Y 4/2
16					
Remarks					

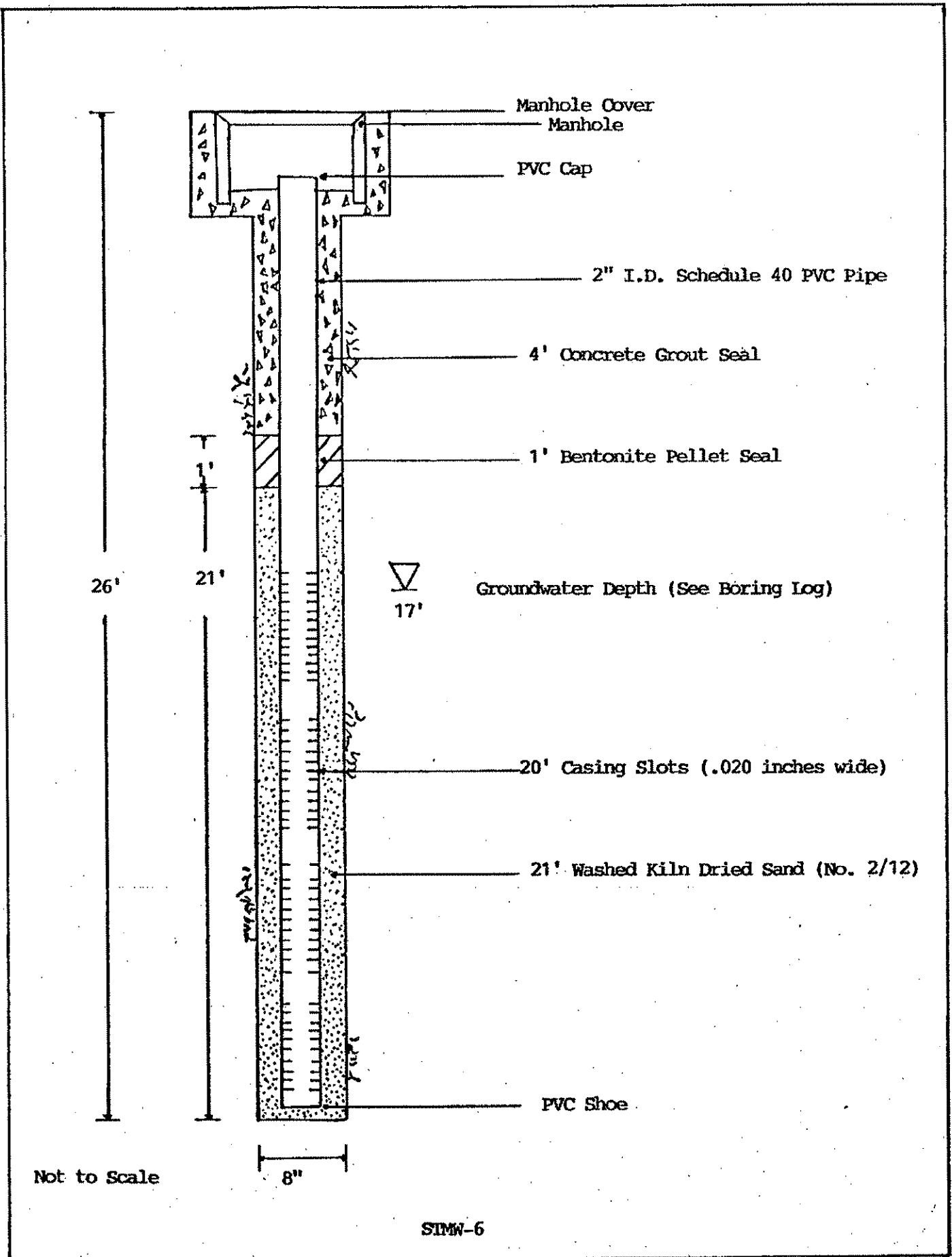
Lopped By: Noori Ameli		Exploratory Boring Log		Boring No. SIMW-8	
Date Drilled 8/31/95		Approx. Elevation		Boring Diameter 8-inch	
Drilling Method Mobile drill rig B-40L			Sampling Method		
Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/ft	Unified Soil Classification	DESCRIPTION
17					Olive-grey silty clay, moist, light petroleum odor, hard. Munsell Soil Color: HUE 5Y 4/2
18					
19					
20					Color gets lighter to dark greyish-brown silty fine sandy
21					clay, stiff, wet, light petroleum odor. Munsell Soil Color: HUE 2.5Y 4/2
22					
23					Dark greyish-brown sandy gravelly clay, stiff, wet, Light petroleum odor. Munsell Soil Color: HUE 2.5Y 4/2
24					
25					
26					
27					Boring terminated at 27 feet.
28					
29					
30					
31					
32					
Remarks					



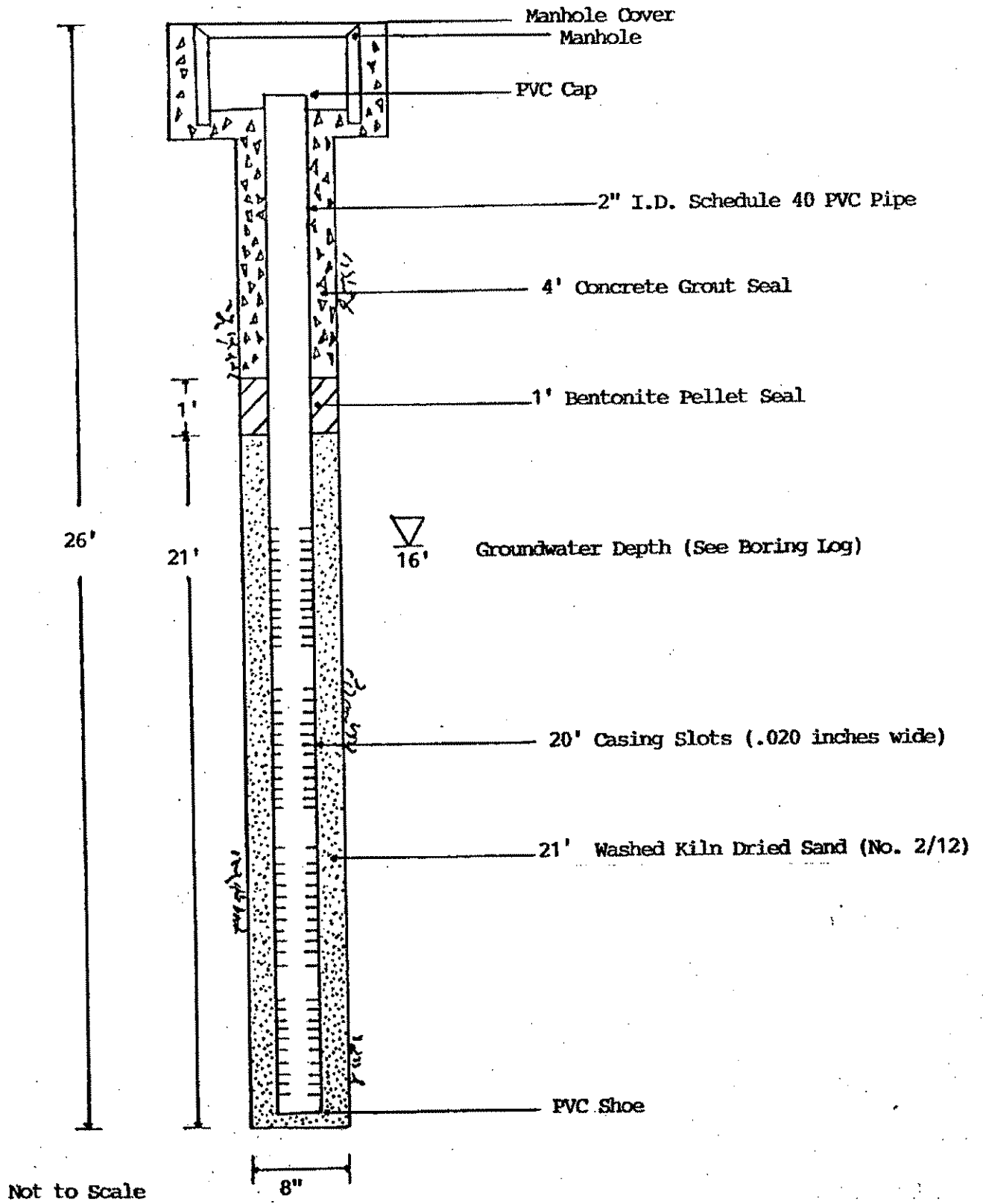
SIMW-4



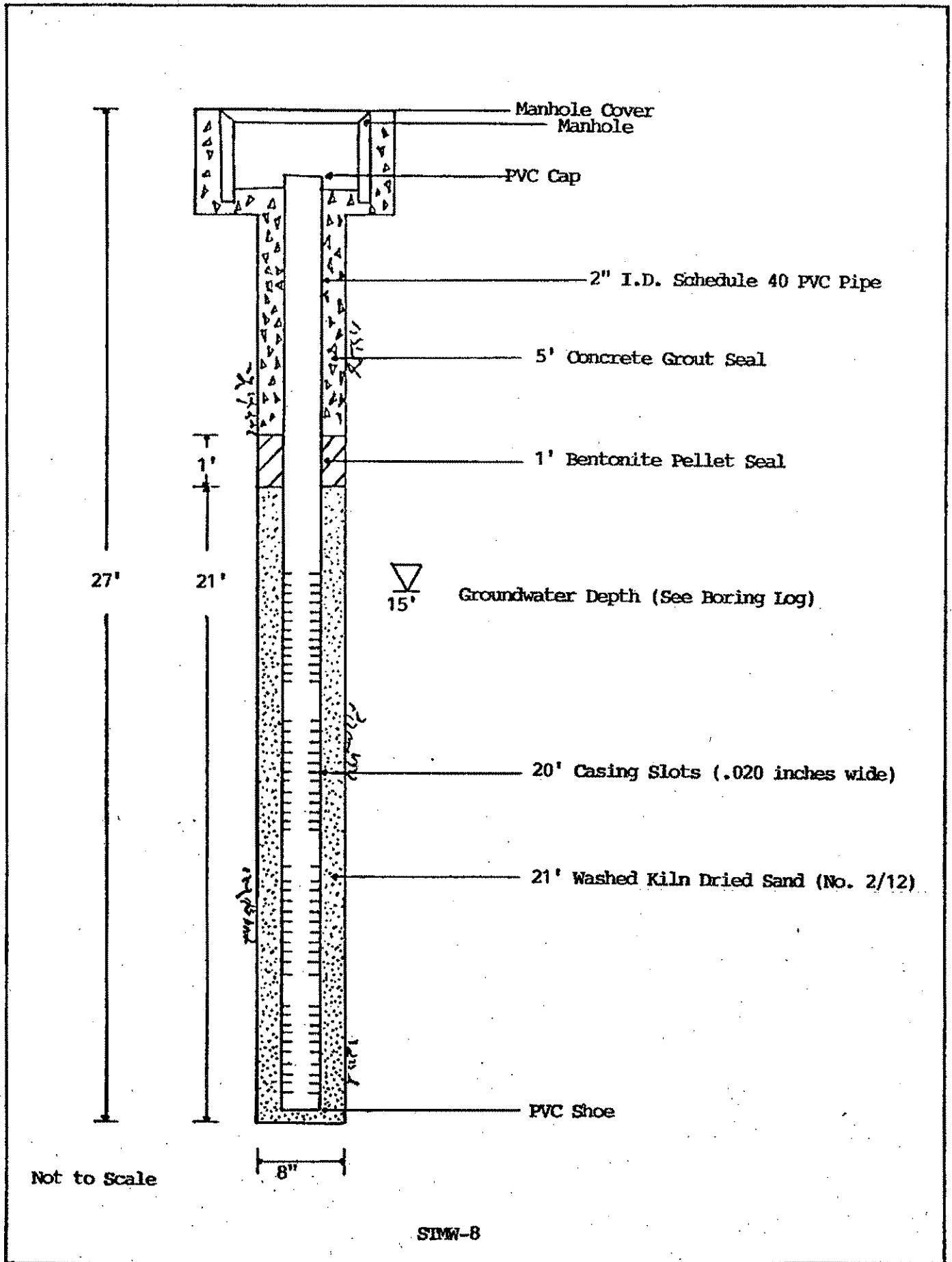
SIMW-5







SIMW-7





PROJECT: 2332

DATE DRILLED: 02/05/2007

SITE LOCATION: 3609 International Blvd.  
Oakland, CA

CASING ELEVATION: 40.51 feet

DRILLER: Gregg Drilling

DEPTH TO GW: 10 feet bgs

DRILLING METHOD: Hollow Stem Auger (HSA)

T.O.C. TO SCREEN: 5 feet

BORING DIAMETER: 10"

SCREEN LENGTH: 15 feet

LOGGED BY: E. Hightower

APPROVED BY: M. Sepehr, Ph.D., P.E.

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON SAMPLED CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	0		GW	Gravel (GW), 5YR 4/1 : Dark grey; loose; moist; medium grained; strong petroleum hydrocarbon (PHC) odor.				
	5							
	10							
	15							
	20		CL	Sandy Clay (CL), 7.5YR4/2: Brown; medium stiff; moist; fine-grained sand; mottling throughout (2.5Y4/3); strong PHC odor.				
	25							

COMMENTS: TD @ 20 feet bgs