



REMEDIAL ACTION COMPLETION CERTIFICATION

May 13, 2013

Mr. Montague and Carol Upshaw
Fidelity Roof Company
1075 40th Street
Oakland, CA 94608

Subject: Case Closure for Fuel Leak Case No. RO0000186 (Global ID # T0600102117), Fidelity Roof Company,
1075 40th Street, Oakland, CA 94608

Mr. Montague and Carol Upshaw:

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 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,


Ariu Levi
Director



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

May 13, 2013

Mr. Montague and Carol Upshaw
Fidelity Roof Company
1075 40th Street
Oakland, CA 94608

Subject: Closure Transmittal; Fuel Leak Case No. RO0000186 (Global ID # T0600102117),
Fidelity Roof Company, 1075 40th Street, Oakland, CA 94608

Mr. Montague and Carol Upshaw:

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.

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Residual contamination is documented to remain in-place at the site and as documented is principally concentrated vertically below the area of UST removal and overexcavation, between the approximate depths of 8 and 13 fbg. Residual contamination also appears to remain outside the area of UST excavation / overexcavation. Additionally, soil analytical results for the upper five feet of soil were not collected during investigations and thus are not documented.
- Soil vapor samples collected May 5, June 10, and September 28, 2011 contained concentrations of leak check compounds of up to 28,000 $\mu\text{g}/\text{m}^3$ 1,1-Difluoroethane (1,1-DFA), 34,000 $\mu\text{g}/\text{m}^3$ 1,1-DFA, and 1,800 $\mu\text{g}/\text{m}^3$ Isopropyl Alcohol (IP), respectively. Because the shroud concentrations of 1,1-DFA were not collected, an estimate of the leak rate cannot be made. While the IP tracer was present in the September 2011 sampling results, shroud concentrations were significantly higher (57,000 $\mu\text{g}/\text{m}^3$ IP). This represents a concentration of 3.16% of the shroud concentration, and is not expected to significantly affect the results. Soil vapor samples collected using the IP tracer documented vapor concentrations of up to <160 $\mu\text{g}/\text{m}^3$ benzene, 26 $\mu\text{g}/\text{m}^3$ toluene, 6.3 $\mu\text{g}/\text{m}^3$ ethylbenzene, and 37.7 $\mu\text{g}/\text{m}^3$ xylenes.
- ACEH must be notified if any excavation activities take place or the building footprint is modified. If a change in land use to any residential or other conservative land use scenario occurs at this site; Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. Due to the potential for direct exposure and vapor intrusion to indoor air for future buildings or building modifications, 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.

Mr. Montague and Carol Upshaw

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If you have any questions, please call Mark Detterman at (510) 567-6876. Thank you.

Sincerely,



Donna L. Drogos, P.E.
Division Chief

- Enclosures:
1. Remedial Action Completion Certificate
 2. Case Closure Summary

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Suite 3341, Oakland, CA 94612-2032 (sent via electronic mail to lgriffin@oaklandnet.com)

Ms. Cherie McCaulou (w/enc.), SF- Regional Water Quality Control Board, 1515 Clay Street, Suite 1400, Oakland, CA 94612, (sent via electronic mail to CMacaulou@waterboards.ca.gov)

City of Emeryville, Economic Development & Housing Department, c/o Markus Niebanck, 1333 Park Avenue, Emeryville, CA 94608 (sent via electronic mail to MNiebanck@ci.emeryville.ca.us)

Donna Drogos, (sent via electronic mail to donna.drogos@acgov.org)

Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)

Electronic File, GeoTracker

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

I. AGENCY INFORMATION

Date: January 24, 2013

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6876
Responsible Staff Person: Mark Detterman	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Fidelity Roof Company		
Site Facility Address: 1075 40 th Street, Oakland, CA 94608		
RB Case No.: 01-2301	Local Case No.: 3341	LOP Case No.: RO0000186
URF Filing Date: 10/10/1996	Geotracker ID: T0600102117	APN: 12-954-10-2
Responsible Parties	Addresses	Phone Numbers
Montague M. and Carol J. Upshaw	Fidelity Roof Company 1075 40 th Street Oakland, CA 94608-3616	(510) 547-6330

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
----	1,000	Diesel	Removed	12/19/1995
----	500	Gasoline	Removed	12/19/1995
Piping			Not Reported	----

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Holes and corrosion were reported for both USTs.		
Site characterization complete? Yes	Date Approved By Oversight Agency: ----	
Monitoring wells installed? Yes	Number: 12	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 4.17 fbgs	Lowest Depth: 12.26 fbgs	Flow Direction: West to Northwest
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: Two cathodic protection wells are located within a ¼-mile radius; both are upgradient of the site. One industrial well is located at an approximate distance 1,700 feet in an upgradient to cross-gradient direction. One abandoned well (unused, but not destroyed) is present at an approximate distance of 480 feet in a cross- to upgradient direction. Based on distances and direction these wells are not anticipated to be receptors.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: San Francisco Bay, located approximately one mile west.
Off-Site Beneficial Use Impacts (Addresses/Locations): None identified.	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	1- 1,000 gallon diesel 1- 500 gallon gasoline	Not Reported*	12/19/1995
Piping	Not Reported	Not Reported*	12/19/1995
Free Product	None Reported	----	----
Soil	235 tons	Vasco Road Landfill; Livermore, CA	12/6/1996
	282 tons	West Contra Costa County Landfill, Richmond, CA.	3/12/2008
Groundwater	4,900 gallons	HVDPE event; discharged to sanitary sewer.	3/9/2006
	2,500 gallons	Disposed at Instrat facility; Rio Vista, CA	3/11/2008

* A tank closure report was not submitted.

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)	2,900	2,900	110,000	980
TPH (Diesel)	830	830	160,000	760
TPH (Motor Oil)	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
Oil and Grease	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
Benzene	16	3.9	13,000	< 0.5
Toluene	83	9.3	5,000	< 0.5
Ethylbenzene	66	66	3,500	13
Xylenes	320	320	15,000	< 1.0
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	16 *	6.9 *	< 0.2 *	<0.2
MTBE and 8260B	6.5 ¹	6.5 ¹	19,000 ²	1,600 ³
Other (8240/8270)	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed

*Lead was the only heavy metal analyzed.

¹ MTBE = 6.5 mg/kg; TBA = 2.5 mg/kg; TAME < 0.020 mg/kg; ETBE < 0.020 mg/kg; DIPE < 0.020 mg/kg; EtOH < <0.005 mg/kg; EDB < 0.005 mg/kg; and 1,2-DCA < 0.005 mg/kg.

² MTBE = 19,000 µg/l; TBA = 6,900 µg/l; TAME < 100 µg/l; ETBE < 100 µg/l; DIPE < 100 µg/l; 1,2-DCA < 100 µg/l; and EDB < 100 µg/l

³ MTBE = 26 µg/l; TBA = 1,600 µg/l; TAME, ETBE, and DIPE < 2.0 µg/l; 1,2-DCA < 1.0 µg/l; EtOH and EDB not analyzed

Site History and Description of Corrective Actions:

The site is currently used as a company yard and offices for Fidelity Roof Company. The property is located in a mixed commercial and residential area of Oakland and is bordered to the south by Yerba Buena Avenue, residential properties to the east, commercial and residential properties to the west, and 40th Street to the north.

Soil on the site generally consists of clays, with occasional interbedded silts, sands, and gravel. Stabilized groundwater is generally at depths between 5 and 10 feet below ground surface (fbgs). Groundwater appears to have been encountered initially at depths ranging from 12 to 16 fbgs, but this is not specifically reported. Groundwater monitoring has been conducted at the site from March 19, 1997 to December 29, 2011. Contamination on the site is highest in the southeast portion of the site in areas west, northwest, and around the former underground storage tanks (USTs).

On December 19, 1995, one 1,000-gallon diesel UST and one 500- or 800-gallon gasoline UST were removed from the southeastern area of the property. Three discrete soil samples and one soil stockpile sample were collected. Soil samples collected beneath the 1,000-gallon diesel UST contained up to 8.7 milligrams per kilogram (mg/kg) Total Petroleum Hydrocarbons as gasoline (TPHg), 29 mg/kg Total Petroleum Hydrocarbons as diesel (TPHd), and 29 mg/kg Methyl Tertiary Butyl Ether (MTBE), and 0.77 mg/kg benzene. Soil samples collected from beneath the 500-gallon UST gasoline contained 100 mg/kg TPHg, 96 mg/kg TPHd, 2.3 mg/kg benzene, and 1.4 mg/kg MTBE (benzene is not reported). The soil stockpile sample contained 580 mg/kg TPHg, 120 mg/kg TPHd, and 42 mg/kg lead. Groundwater was not encountered in the excavation. Holes and corrosion were noted on all portions of the USTs, but the locations were not specifically defined.

On September 12, 1996, four soil borings (SB-1 through SB-4) were advanced near the former UST excavation. Soil samples were collected every five feet; only the samples collected at ten fbgs were analyzed. The soil sample collected from boring SB-1 at ten fbgs contained the highest concentrations including up to 290 mg/kg TPHg, 45 mg/kg TPHd, 3.9 mg/kg benzene, and 1.5 mg/kg MTBE. Groundwater was encountered at approximately 13-15 fbgs and grab groundwater samples were collected from bores SB-2 and SB-4. Concentrations in the grab groundwater samples contained up to 5,500 micrograms per liter ($\mu\text{g/l}$) TPHg, 2,100 $\mu\text{g/l}$ TPHd, 340 $\mu\text{g/l}$ benzene, and 230 $\mu\text{g/l}$ MTBE. The tank removal excavation pit remained open and a four-point composite soil sample was collected from the stockpiled soil generated during this event. Two soil samples were additionally collected from the southern wall of the open excavation.

On October 25, 1996, the tank removal excavation was overexcavated laterally seven feet to the south and 12 feet to the west. Three sidewall and three four-point composite stockpile soil samples were collected during the excavation activities. The sidewall sample collected from the west wall of the excavation contained the greatest concentration; with 150 mg/kg TPHg, 300 mg/kg TPHd, and 16 mg/kg benzene (MTBE was not analyzed in these samples). The greatest contaminant concentrations in the four-point stockpile samples were 850 mg/kg TPHg, 720 mg/kg TPHd, and 1.3 mg/kg benzene. In November 1996, 235 tons of contaminated soil was disposed of at the BFI Vasco Road Sanitary Landfill in Livermore, CA.

On March 6, 1997 three borings (BH-1 through BH-3) were advanced and converted to monitoring wells (MW-1 to MW-3). Soil samples collected from 10 fbgs were analyzed for contamination. Groundwater samples were collected from the wells on March 13, 1997. The soil sample collected from BH-3 (MW-3) contained the greatest TPHg and benzene concentrations of 110 mg/kg and 1.1 mg/kg, respectively. The soil samples collected from BH-2 (MW-2) contained the greatest TPHd concentration of 18 mg/kg. No MTBE was detected in the soil samples. The groundwater sample collected from MW-3 was the only sample with detectable concentrations of constituents other than MTBE. Groundwater from MW-3 contained 26,000 $\mu\text{g/l}$ TPHg, 5,000 $\mu\text{g/l}$ TPHd and 3,000 $\mu\text{g/l}$ benzene. MTBE was detected in MW-1, MW-2, and MW-3 groundwater samples at concentrations of 23, 65, and 230 $\mu\text{g/l}$, respectively. The static groundwater depth was measured between 7.59 and 8.25 fbgs.

To assess lateral extent of impacted groundwater, six soil borings (SB-1 through SB-6) were drilled south and west of existing well locations on November 4, 1998. The borings were advanced to depths between 15 and 20 fbgs and groundwater was encountered between 12 and 15 fbgs. Soil samples were collected; however, all samples were placed on hold at the laboratory and were not analyzed. In groundwater, TPHd was only detected in upgradient bore SB-1 at a concentration of 2,400 $\mu\text{g/l}$. Toluene was the only other detected constituent and was found in SB-6 at a concentration of 0.6 $\mu\text{g/l}$.

Based on the November 4, 1998 boring results monitoring well MW-4 was requested to be installed upgradient (south) of the former tank locations on July 15, 1999. Two soil samples were collected at 10 and 14 fbgs from the boring. No detectable concentrations of petroleum hydrocarbons were found in the soil samples. Well MW-4 was sampled during the next groundwater monitoring event on August 5, 1999. MTBE was the only detectable constituent in well MW-4 in that sampling event; at a concentration of 37 $\mu\text{g/l}$. Groundwater sampled from well MW-3 during the same event contained the highest groundwater concentrations; with 5,100 $\mu\text{g/l}$ TPHd, 31,000 $\mu\text{g/l}$ TPHg and 5,400 $\mu\text{g/l}$ benzene detected. The MW-2 groundwater sample contained 600 $\mu\text{g/l}$ MTBE.

A Corrective Action Plan (CAP) was submitted on July 31, 2001 which evaluated a number of remedial technologies, recommended vapor extraction / air sparging, and proposed that a pilot test of the technology be conducted. The need for the pilot test was accepted in a December 2001 directive letter; however, the proposed remedial cleanup goals were not.

On May 6, 2004, soil borings AS-1, AS-2, and SVE-1 were completed as two 30 fbg air sparge wells and one ten fbg soil vapor extraction well, respectively. Additionally, six shallow vapor points (DP-1 through DP-6) were installed to a depth of 15.5 fbg on May 12 and 13, 2004. The purpose of the May 6, 2004 well installation was to determine the potential for air sparge/soil vapor extraction (AS/SVE) remediation. Soil samples were collected at approximately five foot intervals from the soil borings. Grab groundwater samples were collected on May 24, 2004 from bores DP-1, DP-2, and DP-3, and groundwater was collected from well MW-3. All contaminant concentrations, with the exception of MTBE, were greatest in shallow vapor point DP-5, located at the edge, but within the area of overexcavation, 15 feet southwest of the former UST area. Soil concentrations, at a depth of 11.5 fbg, in DP-5 were 2,900 mg/kg TPHg, 830 mg/kg TPHd, 0.012 mg/kg benzene, and <10 mg/kg MTBE. The highest MTBE soil concentration was 0.049 mg/kg, detected in well AS-1 which was located approximately 15 feet west of the former overexcavated UST area. Groundwater samples collected during the event contained up to 90,000 µg/l TPHg, 26,000 µg/l TPHd, 6,700 µg/l benzene, and <1,200 µg/l MTBE in MW-3.

Preliminary tests of the AS/SVE pilot test were conducted during May and June, 2004. Air samples collected during AS/SVE operation contained up to 150,000 micrograms per liter (µg/L) TPHg (150,000,000 micrograms per cubic meter [µg/m³]), 1,800 µg/L (1,800,000 µg/m³) benzene, and 1,400 µg/L (1,400,000 µg/m³) MTBE. Based on the results a combined bio-sparge and SVE remediation system was recommended.

After the AS/SVE pilot test light non-aqueous phase liquid (LNAPL) was observed in MW-3 from September 2004 to March 2006. The LNAPL was requested to be removed prior to any corrective action measures. Three mobile LNAPL extraction events were conducted between September and November 2004; 245 gallons of LNAPL and groundwater were extracted and LNAPL thickness was reduced from 0.66 to 0.05 feet.

Due to the low permeability of soils, AS/SVE remediation was deemed to be less effective than high vacuum dual phase extraction (HVDPE). Consequently a 5-day HVDPE extraction event was conducted after receipt of permits from EBMUD and the BAAQMD by Cal-Clean between March 8 and March 13, 2006. Approximately 4,900 gallons of groundwater was extracted and discharged to the sanitary sewer collection system. The estimated hydrocarbon recovery from this event was 58.4 lbs., with calculated 1,763 lbs. remaining in the smear zone soils.

On December 14, 2006 wells MW-5 and MW-6 were installed to delineate the lateral and downgradient extent of the MTBE plume. Soil samples were collected at approximately 10 and 16 fbg in each soil bore; groundwater stabilized at 16 and 8 fbg, respectively. All concentrations in soil (TPHg, TPHd, BTEX, and MTBE) were non-detectable at standard reporting limits. Subsequently a LNAPL recovery system was proposed in March 2007 work plan, and consisted of a passive Keck skimmer device.

After a change in consultants a change in the remedial approach was proposed in an April 2007 work plan. The work plan proposed excavation in the vicinity of the former fuel dispenser and LNAPL containing well MW-3 and the implementation of an ozone injection pilot test. A work plan addendum was requested and an addendum included the installation of four soil bores to characterize residual hydrocarbon concentrations associated with the excavation backfill, and beneath the depth of the excavation.

On November 23, 2007, wells DP-3, DP-4, DP-5, DP-6, AS-1, AS-2, and MW-3 were decommissioned by pressure grouting. On November 27, 2007, soil borings B-1 to B-4 were installed to vertically characterize residual concentrations associated with the backfilled UST excavation. Existing reports indicated the excavations were backfilled with uncharacterized cleaner tank excavation spoils below clean fill, while the vertical extent previously had not been determined. The bores were installed to depths ranging from approximately 16 to 30 fbg in the source zone. Soil and grab groundwater samples were collected from each boring. The highest concentration of TPHd in soil and groundwater was detected in boring B-3 at eight fbg at 410 mg/kg and 750 µg/l, respectively. The highest concentration of TPHg in soil and groundwater was detected in boring B-2 at eight fbg at a concentration of 170 mg/kg and 320 µg/l, respectively. Boring B-2 also contained the highest concentration of MTBE in soil (at 12 fbg) and groundwater, at concentrations of 6.5 mg/kg and with 180 µg/l, respectively.

Remedial excavation activities were conducted between March 10 and 12, 2008 immediately north of the Yerba Buena Avenue entrance to the site. The excavation measured approximately 25 by 55 feet and extended to an approximate depth of 12 fbg. Of the total volume of soil excavated, a total of 282 tons of soil was segregated and disposed of offsite. After completion of excavation activities on March 12, 2007, groundwater was periodically removed from the excavation cavity after allowing it to recharge. A total of 2,500 gallons of hydrocarbon impacted groundwater was extracted over approximately a one week period. One grab groundwater sample (VH-2) was collected from the holding tank containing the extracted recharge water. Nine sidewall soil samples (SW-1 through SW-9) and six pit bottom soil samples (EB-1 through EB-6) were collected from the excavation pit on March 18, 2008. The highest sidewall soil concentrations were collected from the southern wall of the excavation at with 73 mg/kg TPHg, 63 mg/kg TPHd, and 0.003 mg/kg benzene; no MTBE was detected at standard reporting limits. The

highest excavation bottom sample concentrations were 170 mg/kg TPHg, 7.4 mg/kg TPHd, 0.012 mg/kg benzene; no MTBE was detected at standard limits of reporting. Additionally, sixteen discrete soil samples (SP-1 through SP-16) were collected from soil stockpiles generated during the excavation that were designated as clean backfill for the excavation pit. Only one soil stockpile sample contained detectable amounts of contaminants, with concentrations of 1.5 mg/kg TPHg and 0.043 mg/kg xylenes. The grab groundwater sample collected from the holding tank contained 100 µg/l TPHg, 440 µg/l TPHd, and 8.0 µg/l xylenes. The interim remedial action report recommended case closure exclusively based on the residual concentrations in soil in the vicinity of the excavation. As a result of the interim remedial excavation ACEH requested that post-excavation groundwater monitoring occur prior to implementation of the ozone injection pilot test, requested soil vapor sampling due to documented benzene concentrations in soil and groundwater, and requested that the extent of the MTBE plume be delineated.

Between April 7 and 11, 2011, groundwater monitoring well MW-7 and borings GA-1 through GA-8 were drilled and installed. Soil and grab groundwater samples were collected from each boring. Three soil gas samples (SG/VS-1 through SG/VS-3) were collected from vapor wells adjacent to the building in the eastern portion of the site.

Well MW-7 was installed in a submerged condition with the top of the screen approximately six feet below first encountered groundwater; consequently the well does not monitor the groundwater surface but a position below the groundwater surface. The soil sample collected from boring GA-4, advanced in the location of the former USTs, at 19.5 fbs was the only sample to contain constituents other than MTBE. Soil sample GA-4 contained 7.9 mg/kg TPHg, 0.13 mg/kg benzene, and 2.5 mg/kg tert-butyl alcohol (TBA). MTBE was detected in soil from borings GA-1 through GA-4, with the highest concentration detected of 0.89 mg/kg, collected from GA-4. Grab groundwater samples collected from borings GA-2 and GA-4, located closest but downgradient of, the former UST location and the March 2008 excavation area, contained the highest contaminant concentrations. The highest detected concentrations in grab groundwater were 250 µg/l TPHg, 100 µg/l benzene, and 1,600 µg/l MTBE. MTBE was detected in all groundwater samples except those from downgradient borings GA-7 and GA-8.

Soil vapor samples collected May 5, June 10, and September 28, 2011 contained concentrations of leak check compounds of up to 28,000 µg/m³ 1,1-Difluoroethane (1,1-DFA), 34,000 µg/m³ 1,1-DFA, and 1,800 µg/m³ Isopropyl Alcohol (IP), respectively. Because the shroud concentrations of 1,1-DFA were not collected, an estimate of the leak rate cannot be made. While the IP tracer was present in the September 2011 sampling results, shroud concentrations were significantly higher (57,000 µg/m³ IP). This represents a concentration of 3.16% of the shroud concentration, and is not expected to significantly affect the results. Soil vapor samples collected using the IP tracer documented vapor concentrations of up to <160 µg/m³ benzene, 26 µg/m³ toluene, 6.3 µg/m³ ethylbenzene, and 37.7 µg/m³ xylenes; each is less than their respective soil gas vapor intrusion ESL.

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, closure of this site appears to be consistent with the policies established by the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy which became effective on August 17, 2012.		
<p>Site Management Requirements:</p> <p>Residual contamination is documented to remain in-place at the site and as documented is principally concentrated vertically below the area of UST removal and overexcavation, between the approximate depths of 8 and 13 fbg. Residual contamination also appears to remain outside the area of UST excavation / overexcavation between the excavation and the cinder block wall (DP-5). This could not be removed without structural impairment of the wall. Additionally, soil analytical results for the upper five feet of soil were not collected during investigations and thus are not documented.</p> <p>This fuel leak case has been evaluated for closure consistent with the criteria in the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Direct soil gas measurements have been obtained at a depth of 5 feet below grade surface (bgs) and contained concentrations of oxygen between 18.5 and 19.9% at that depth; however, as noted analytical samples have not been collected within 5 feet of the surface as outlined in scenario 2a.ii. However, ACEH judges it appropriate to close the site under scenario 2c with implementation of a land use restriction as an institutional control. Therefore case closure is granted for the current commercial land use and existing building configuration only.</p> <p>ACEH must be notified if any excavation activities take place or the building footprint is modified. If a change in land use to any residential or other conservative land use scenario occurs at this site; Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. Due to the potential for direct exposure and vapor intrusion to indoor air for future buildings or building modifications, ACEH will re-evaluate the case upon receipt of approved development/construction plans.</p> <p>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.</p> <p>This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.</p>		
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: 7	Number Retained: 10
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

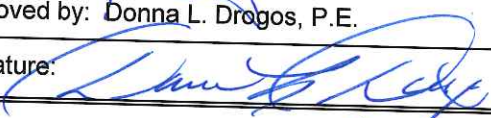
Considerations and/or Variances:

- Residual contamination is documented to remain in-place at the site and as documented is principally concentrated vertically below the area of UST removal and overexcavation, between the approximate depths of 8 and 13 fbs. Residual contamination also appears to remain outside the area of UST excavation / overexcavation. Additionally, soil analytical results for the upper five feet of soil were not collected during investigations and thus are not documented.
- Soil vapor samples collected May 5, June 10, and September 28, 2011 contained concentrations of leak check compounds of up to 28,000 $\mu\text{g}/\text{m}^3$ 1,1-Difluoroethane (1,1-DFA), 34,000 $\mu\text{g}/\text{m}^3$ 1,1-DFA, and 1,800 $\mu\text{g}/\text{m}^3$ Isopropyl Alcohol (IP), respectively. Because the shroud concentrations of 1,1-DFA were not collected, an estimate of the leak rate cannot be made. While the IP tracer was present in the September 2011 sampling results, shroud concentrations were significantly higher (57,000 $\mu\text{g}/\text{m}^3$ IP). This represents a concentration of 3.16% of the shroud concentration, and is not expected to significantly affect the results. Soil vapor samples collected using the IP tracer documented vapor concentrations of up to <160 $\mu\text{g}/\text{m}^3$ benzene, 26 $\mu\text{g}/\text{m}^3$ toluene, 6.3 $\mu\text{g}/\text{m}^3$ ethylbenzene, and 37.7 $\mu\text{g}/\text{m}^3$ xylenes.

Conclusion:

Alameda County Environmental Health staff believe that the site meets the criteria for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy under the current commercial land use developed as a roofing company yard and offices based upon the information available in our files to date. No further investigation or cleanup for the fuel leak case is necessary at this time. However, as specified in the Site Management Requirements, re-evaluation of this case may be required if land uses changes to any residential or other conservative land use scenario, construction or excavation activities take place, or the building structure is otherwise modified.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Mark Detterman, P.G., C.E.G.	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 1/24/2013
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: 	Date: 01/25/13

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.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: <u>January 28, 2013</u>	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: <u>3/26/2013</u>	Date of Well Decommissioning Report: <u>4/15/2013</u>	
All Monitoring Wells Decommissioned: <input checked="" type="radio"/> Yes <input type="radio"/> No	Number Decommissioned: <u>10</u>	Number Retained: <u>0</u>
Reason Wells Retained: <u>NA</u>		
Additional requirements for submittal of groundwater data from retained wells: <u>NA</u>		
ACEH Concurrence - Signature: <u>Makes</u>	Date: <u>5/13/2013</u>	

Attachments:

1. Site Vicinity Map (2 pp)
2. Site Plans (15 pp)
3. Soil Analytical Data (13 pp)
4. Groundwater Analytical Data (12 pp)
5. Soil Vapor Data (3 pp)
6. Boring Logs (45 pp)
7. Cross Sections (6 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.

Detterman, Mark, Env. Health

From: MCcaulou, Cherie@Waterboards [Cherie.MCcaulou@waterboards.ca.gov]
Sent: Tuesday, January 29, 2013 1:40 PM
To: Detterman, Mark, Env. Health
Subject: RE: RO0000186; Closure Summary for Fidelity Roof Company (T0600102117)

Hello Mark – Thank you for the notification of case closure for the Fidelity Roof Company site at 1075 40th Street in Oakland. Please update the site management requirements in GeoTracker for the residual contamination that will be left in place. If you have any questions or comments, please contact me.

Sincerely,

Cherie McCaulou
Engineering Geologist
cmccaulou@waterboards.ca.gov
510-622-2342

From: Detterman, Mark, Env. Health [<mailto:Mark.Detterman@acgov.org>]
Sent: Monday, January 28, 2013 4:30 PM
To: MCcaulou, Cherie@Waterboards
Subject: FW: RO0000186; Closure Summary for Fidelity Roof Company (T0600102117)

Cherie,
I guess my oversight, but I had assumed you (the RWQCB) still got the 30 day comment period, rather than the 60 day specified by the LTCP. Guess you get 60 days too!

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>

From: Detterman, Mark, Env. Health
Sent: Monday, January 28, 2013 2:20 PM
To: MCcaulou, Cherie@Waterboards
Cc: Drogos, Donna, Env. Health
Subject: RO0000186; Closure Summary for Fidelity Roof Company (T0600102117)

Cherie,

In order to comply with the RWQCB's 30-day review period, attached is the closure summary for the referenced site, located at 1075 40th Street, Oakland, CA 94608. If no comments from the RWQCB are received within the 30-day review period, ACEH's will proceed with case closure.

This is an older site, with some history. Residual contamination will be left in place and the site will be placed in the Oakland permit tracking system. Eight wells are installed; well destruction is pending RWQCB concurrence.

Should you have questions, please let me know.

Best,

Mark Detterman

Senior Hazardous Materials Specialist, PG, CEG

Alameda County Environmental Health

1131 Harbor Bay Parkway

Alameda, CA 94502

Direct: 510.567.6876

Fax: 510.337.9335

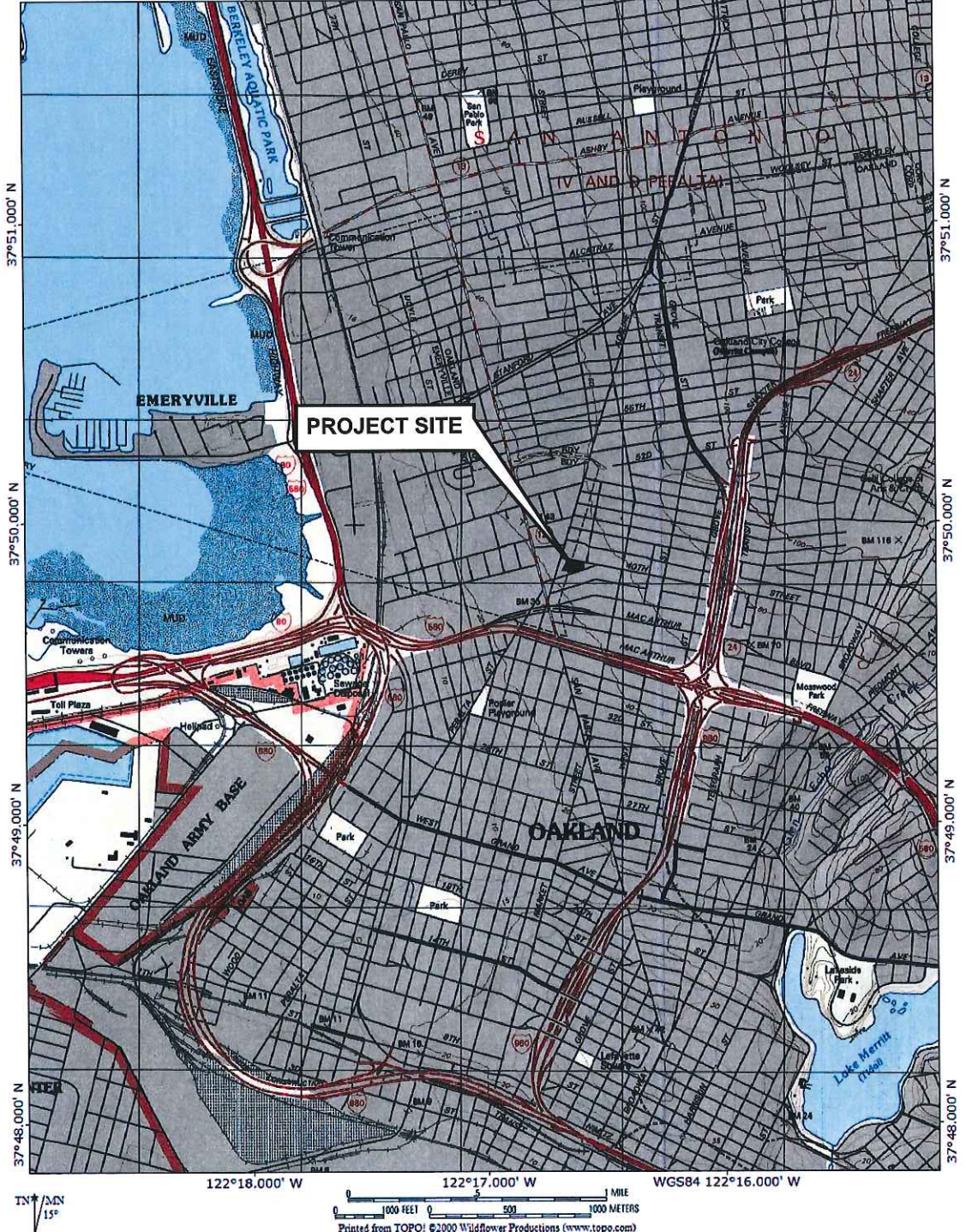
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>

ATTACHMENT 1

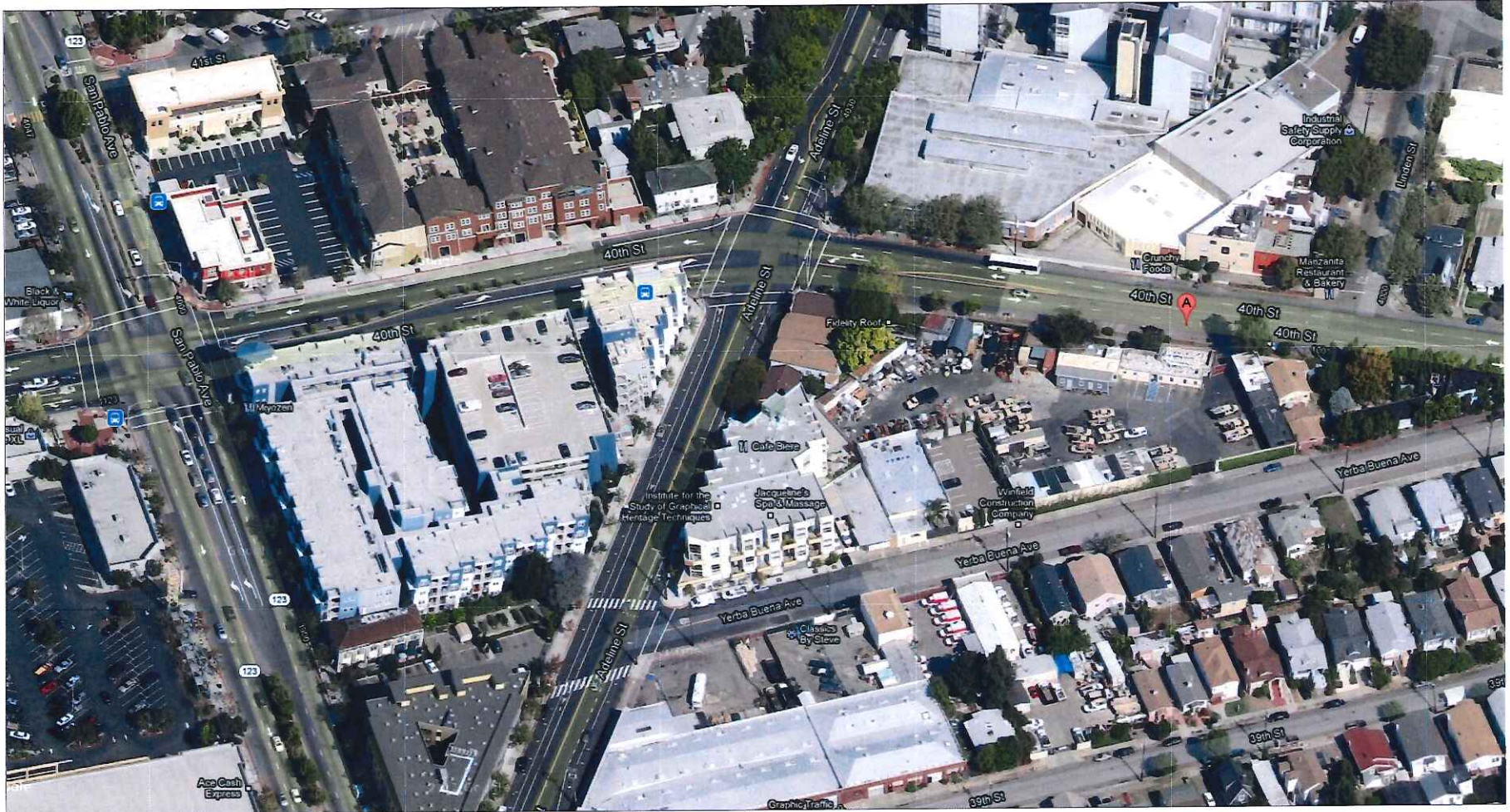
TOPOI map printed on 04/03/07 from "California.tpo" and "Untitled.tpg"
 122°18.000' W 122°17.000' W WGS84 122°16.000' W



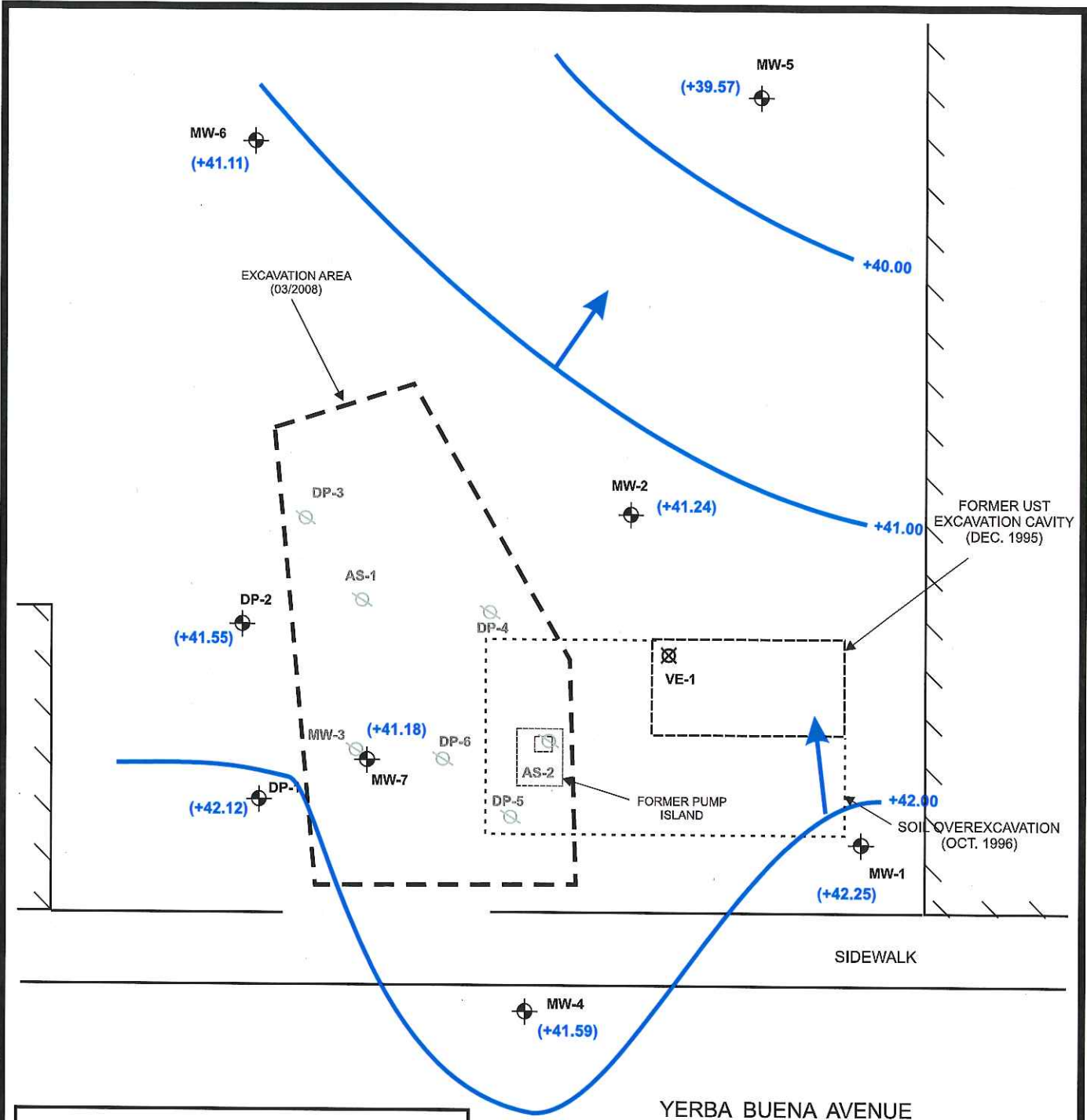
DESIGNED BY:	CHECKED BY:	SITE VICINITY MAP 1075 40TH STREET OAKLAND, CALIFORNIA	DATE: 11/18/2011	FIGURE: 1	
DRAWN BY: MR	SCALE:				
PROJECT NO:					



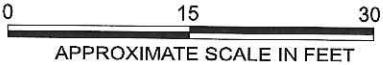
To see all the details that are visible on the screen, use the "Print" link next to the map.



ATTACHMENT 2



LEGEND	
	- ABANDONED WELL
	- REMEDIATION WELL
	- GROUNDWATER MONITORING WELL

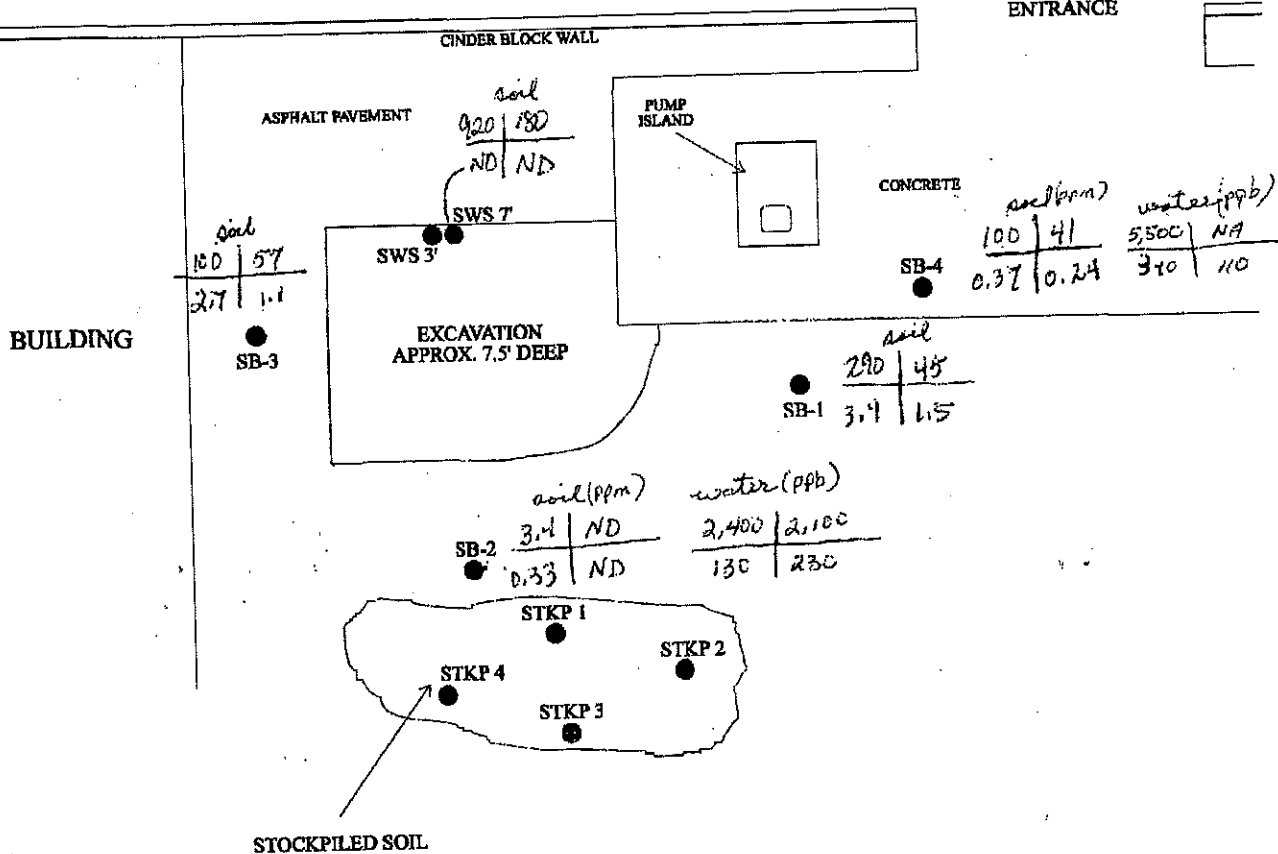


DESIGNED BY:	CHECKED BY:	GROUNDWATER ELEVATIONS AND CONTOURS - 11/29/2011	DATE: 12/22/2011	FIGURE: 3	
DRAWN BY: JG	SCALE:				
PROJECT NO:					

YERBA BUENA AVENUE

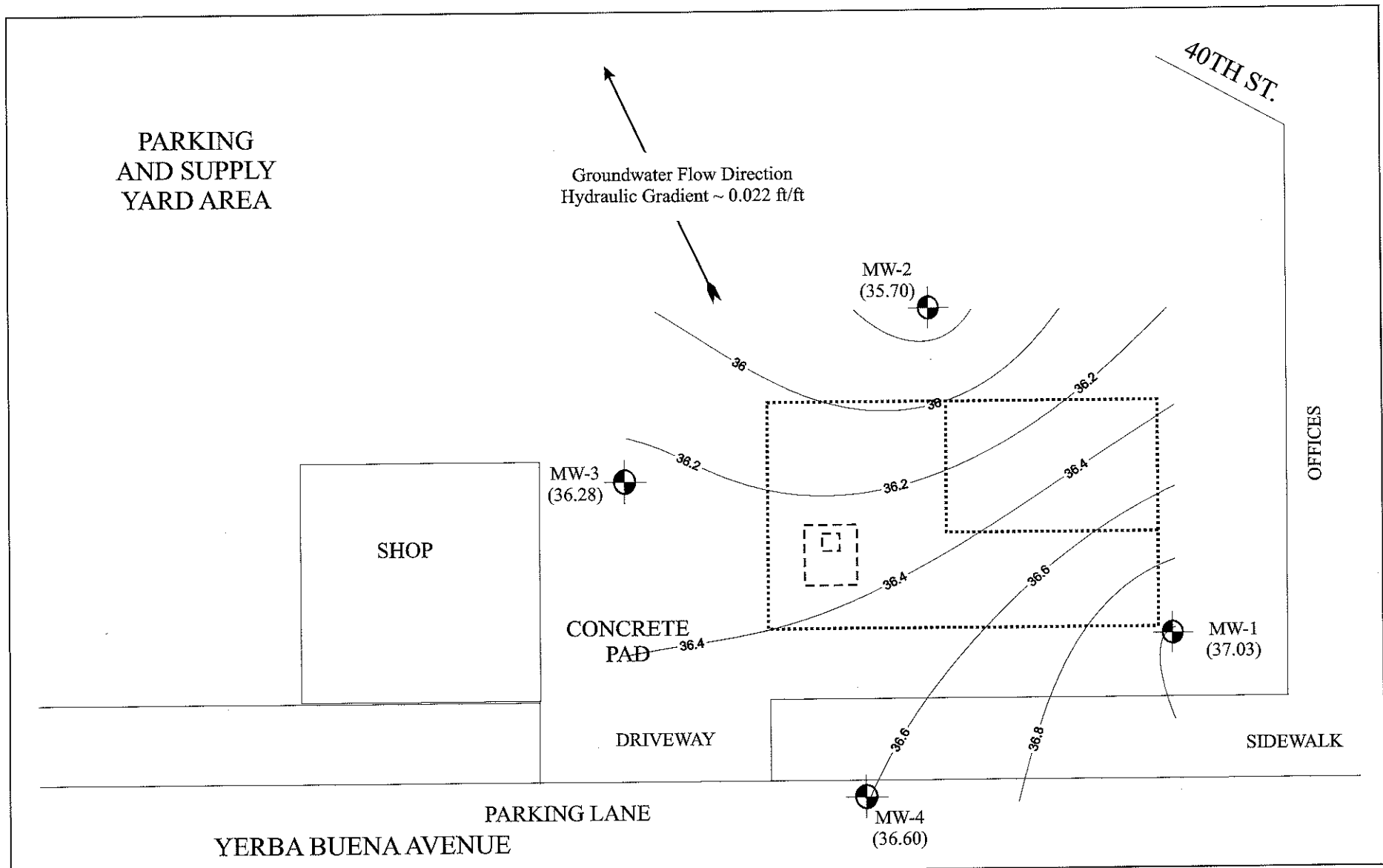
← TO 40th STREET


ENTRANCE



ALL ENVIRONMENTAL, INC.
3364 MT. DIABLO BOULEVARD, LAFAYETTE

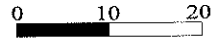
SCALE: 1 IN = 10 FT	APPROVED BY:	DRAWN BY: J.S. ANDERSON
DATE: 7 OCTOBER 96		REVISED: J.S. ANDERSON
SOIL BORING AND SAMPLE LOCATION MAP		
1075 40th STREET OAKLAND, CALIFORNIA	DRAWING NUMBER: FIGURE 2	



 Existing Groundwater Monitoring Well
 MW-3 (33.88) Water table elevation in feet above mean sea level

Contours plotted with Surfer(R) V. 7.0 Contour interval = 0.2 ft

Scale: 1" = 20'




AEI CONSULTANTS
 2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK, CA

WATER TABLE CONTOURS (06/05/06)

1075 40TH STREET
OAKLAND, CALIFORNIA

Figure 4
 AEI Project: 116303




**Table 2a: Groundwater Flow Data
Fidelity Roofing, 1075 40th Street, Oakland, California**

Episode	Date	Average Water Table Elevation (ft amsl)	Water Table Elevation Change (ft)	Hydraulic Gradient/ Flow Direction (ft/ft)
1	03/19/97	36.81	----	----
2	06/20/97	35.58	-1.23	----
3	10/08/97	35.52	-0.06	----
4	01/16/98	37.55	2.03	----
5	08/05/99	34.87	-2.67	----
6	11/18/99	35.14	0.27	----
7	02/24/00	37.49	2.35	----
8	05/24/00	36.55	-0.94	----
9	08/29/00	33.98	-2.57	NW (0.09)
10	01/12/01	36.08	2.10	W (0.06)
11	04/18/01	36.08	0.00	W (0.02)
12	07/27/01	33.99	-2.09	W (0.02)
13	11/06/01	33.77	-0.22	NW (0.05)
14	02/13/02	36.48	2.71	NW (0.05)
15	05/14/02	35.54	-0.94	N (0.04)
16	08/15/02	34.15	-1.39	W (0.05)
17	11/14/02	34.69	0.54	N (0.08)
18	02/12/03	36.09	1.40	NW (0.03)
19	05/16/03	35.08	-1.01	NW (0.06)
20	08/29/03	33.94	-1.14	NW (0.04)
21	12/02/03	35.39	1.45	NW (0.05)
22	03/08/04	36.50	1.12	NW (0.04)
23	06/08/04	35.17	-1.34	NW (0.02)
24	09/10/04	34.29	-0.88	NW (0.007)
25	12/13/04	36.91	2.63	NW (0.05)
26	03/11/05	37.73	0.81	NW (0.016)
27	06/15/05	36.18	-1.55	NW (0.015)
28	09/08/05	34.59	-1.59	NW (0.042)
29	12/01/05	36.78	2.19	NW (0.040)
30	03/07/06	38.45	1.67	NNE (0.03)
31	06/05/06	36.40	-2.05	NNW (0.022)

Notes:

ft amsl = feet above mean sea level

LEGEND

-  - ABANDONED WELL
-  - REMEDIATION WELL
-  - GROUNDWATER MONITORING WELL

CONCENTRATIONS IN MICROGRAMS PER LITER, UG/L

40TH STREET
SIDEWALK

FIDELITY ROOF CO OFFICE

DATE: 05/12/2010
GW ELEV: 41.94'
TPH-G: <50
B: <0.5
T: <0.5
E: <0.5
X: <1.0
MTBE: <1.0
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <50

DATE: 05/12/2010
GW ELEV: 41.82'
TPH-G: 99
B: <0.50
T: <0.50
E: <0.50
X: <1.0
MTBE: 220
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <500

DATE: 05/12/2010
GW ELEV: 42.46'
TPH-G: <50
B: <0.5
T: <0.5
E: <0.5
X: <1.0
MTBE: <1.0
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <50

DATE: 05/12/2010
GW ELEV: 42.01'
TPH-G: 1,700
B: 130
T: <0.5
E: 28
X: <1.0
MTBE: 1,500
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: 4,700
TPH-D: 610

DATE: 11/27/2007
TPH-G: 320
B: 4.6
T: 0.51
E: 4.6
X: 35.6
MTBE: 180
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <500

DATE: 05/12/2010
GW ELEV: 42.83'
TPH-G: <50
B: <0.5
T: <0.5
E: <0.5
X: <1.0
MTBE: 4.5
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <50

DATE: 11/27/2007
TPH-G: <50
B: 1.2
T: <0.5
E: <0.5
X: 1.0
MTBE: 9.4
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <500

DATE: 05/12/2010
GW ELEV: 42.53
TPH-G: <50
B: <0.5
T: 0.71
E: <0.5
X: <1.0
MTBE: <1.0
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <50

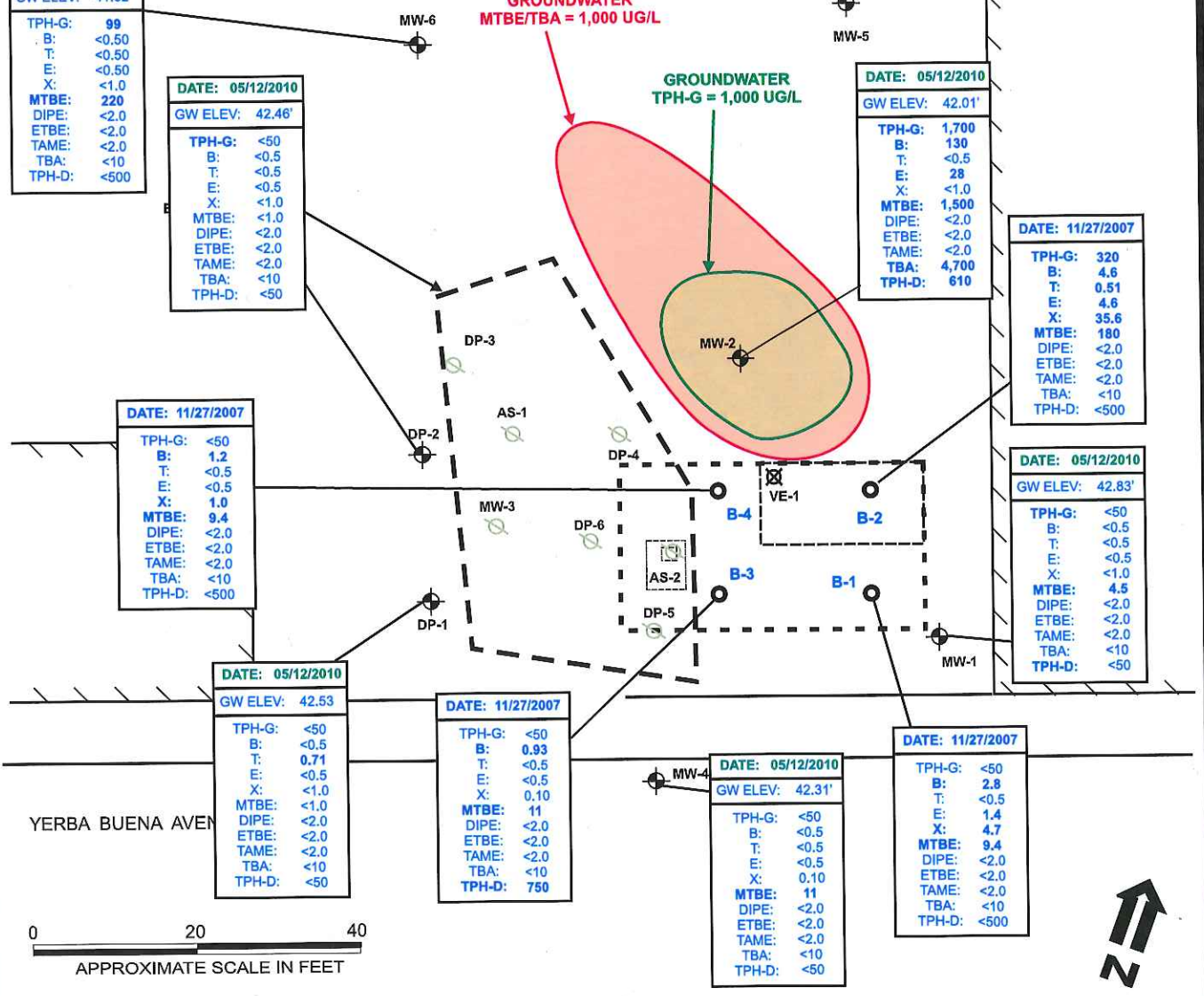
DATE: 11/27/2007
TPH-G: <50
B: 0.93
T: <0.5
E: <0.5
X: 0.10
MTBE: 11
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: 750

DATE: 05/12/2010
GW ELEV: 42.31'
TPH-G: <50
B: <0.5
T: <0.5
E: <0.5
X: 0.10
MTBE: 11
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <50

DATE: 11/27/2007
TPH-G: <50
B: 2.8
T: <0.5
E: 1.4
X: 4.7
MTBE: 9.4
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <500

GROUNDWATER
MTBE/TBA = 1,000 UG/L

GROUNDWATER
TPH-G = 1,000 UG/L



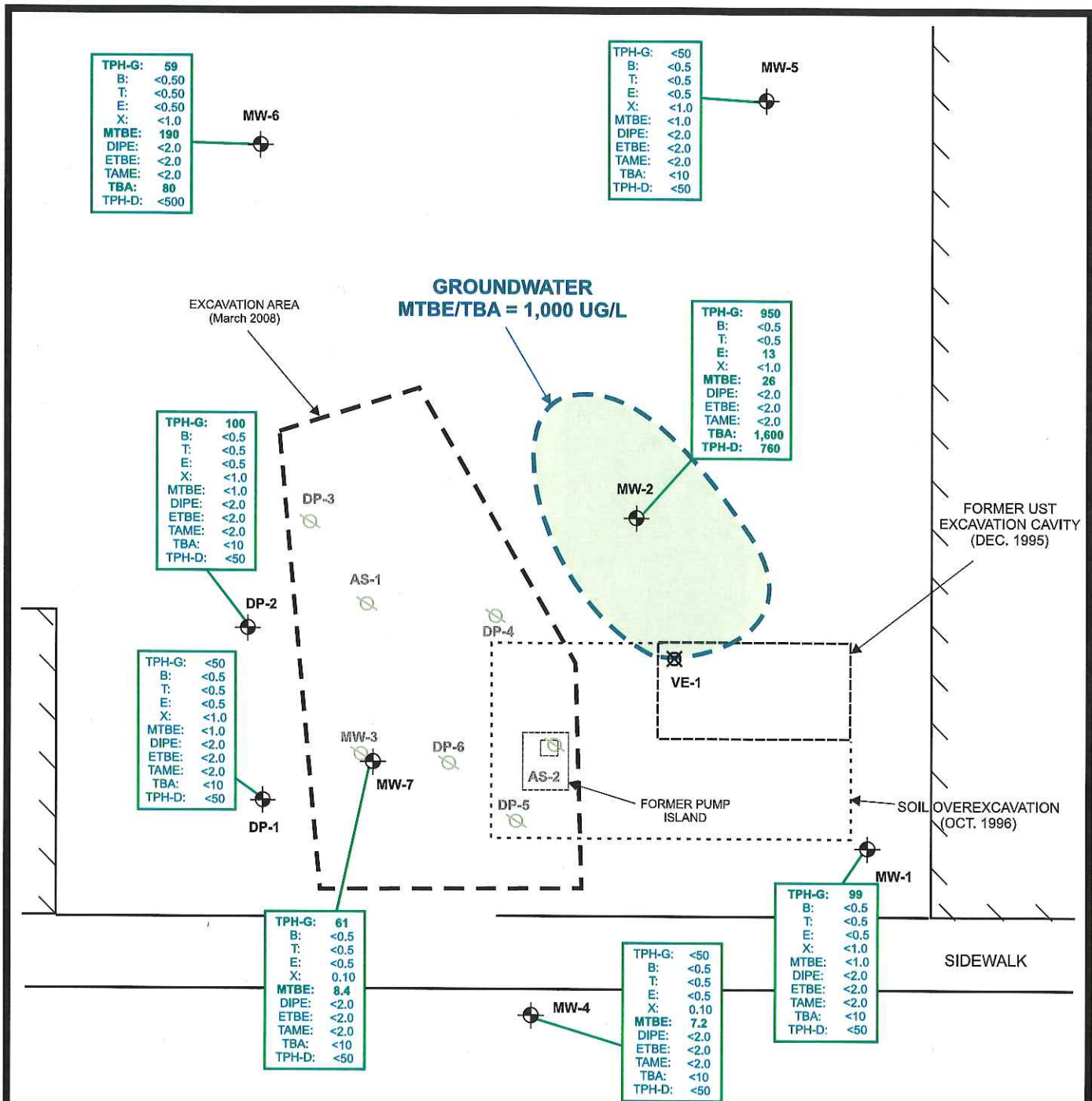
DESIGNED BY:	CHECKED BY:
DRAWN BY: MR	SCALE:
PROJECT NO:	

HISTORIC POST-REMEDIAL
GROUNDWATER HYDROCARBON RESULTS

1075 40TH STREET
OAKLAND, CALIFORNIA

DATE: 11/18/2011 FIGURE: 4





TPH-G:	59
B:	<0.50
T:	<0.50
E:	<0.50
X:	<1.0
MTBE:	190
DIPE:	<2.0
ETBE:	<2.0
TAME:	<2.0
TBA:	80
TPH-D:	<500

TPH-G:	<50
B:	<0.5
T:	<0.5
E:	<0.5
X:	<1.0
MTBE:	<1.0
DIPE:	<2.0
ETBE:	<2.0
TAME:	<2.0
TBA:	<10
TPH-D:	<50

TPH-G:	100
B:	<0.5
T:	<0.5
E:	<0.5
X:	<1.0
MTBE:	<1.0
DIPE:	<2.0
ETBE:	<2.0
TAME:	<2.0
TBA:	<10
TPH-D:	<50

TPH-G:	950
B:	<0.5
T:	<0.5
E:	13
X:	<1.0
MTBE:	26
DIPE:	<2.0
ETBE:	<2.0
TAME:	<2.0
TBA:	1,600
TPH-D:	760

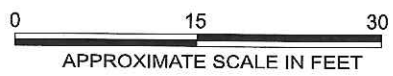
TPH-G:	<50
B:	<0.5
T:	<0.5
E:	<0.5
X:	<1.0
MTBE:	<1.0
DIPE:	<2.0
ETBE:	<2.0
TAME:	<2.0
TBA:	<10
TPH-D:	<50

TPH-G:	61
B:	<0.5
T:	<0.5
E:	<0.5
X:	0.10
MTBE:	8.4
DIPE:	<2.0
ETBE:	<2.0
TAME:	<2.0
TBA:	<10
TPH-D:	<50

TPH-G:	<50
B:	<0.5
T:	<0.5
E:	<0.5
X:	0.10
MTBE:	7.2
DIPE:	<2.0
ETBE:	<2.0
TAME:	<2.0
TBA:	<10
TPH-D:	<50

TPH-G:	99
B:	<0.5
T:	<0.5
E:	<0.5
X:	<1.0
MTBE:	<1.0
DIPE:	<2.0
ETBE:	<2.0
TAME:	<2.0
TBA:	<10
TPH-D:	<50

LEGEND	
	- ABANDONED WELL
	- REMEDIATION WELL
	- GROUNDWATER MONITORING WELL



DESIGNED BY:	CHECKED BY:	GROUNDWATER HYDROCARBON RESULTS - 11/29/2011	DATE: 12/22/2011	FIGURE: 4
DRAWN BY: JG	SCALE:			
PROJECT NO:				

LEGEND

- - SOIL BORING LOCATION (NOVEMBER 2007)
- - ABANDONED WELL
- ⊗ - REMEDIATION WELL
- ⊕ - GROUNDWATER MONITORING WELL

SOIL HYDROCARBON RESULTS, IN MG/KG (PPM)

NOTES: RESULTS FOR SOILS SUBSEQUENTLY EXCAVATED ARE NOT INCLUDED;

40TH STREET
SIDEWALK

FIDELITY ROOF CO OFFICES

DEPTH	10.0'	16.0'
TPH-D	ND	ND
TPH-G	ND	ND
B	ND	ND
T	ND	ND
E	ND	ND
X	ND	ND
MTBE	ND	ND

DEPTH	10.5'	14.0'
TPH-D	ND	ND
TPH-G	ND	ND
B	ND	ND
T	ND	ND
E	ND	ND
X	ND	ND
MTBE	ND	ND

DEPTH	8.0'	12.0'	16.0'
TPH-D	260	ND	ND
TPH-G	1.6	7.8	6.0
B	0.044	0.013	0.26
T	0.0052	ND	ND
E	0.039	0.0074	0.16
X	0.25	ND	0.0085
MTBE	0.14	0.25	0.41

DEPTH	10.0'
TPH-D	18
TPH-G	7.7
B	ND
T	ND
E	ND
X	ND
MTBE	ND

DEPTH	10.0'
TPH-D	ND
TPH-G	3.4
B	0.33
T	0.013
E	0.068
X	0.046
MTBE	ND

DEPTH	8.0'	12.0'	16.0'
TPH-D	25	15	18
TPH-G	170	6.2	11
B	0.087	1.1	1.1
T	0.010	ND	ND
E	1.3	0.15	0.22
X	8.5	0.12	0.77
MTBE	1.4	6.5	3.8

DEPTH	10.0'
TPH-D	57
TPH-G	100
B	2.7
T	2.9
E	2.7
X	11
MTBE	1.1

DEPTH	10.0'
TPH-D	2.5
TPH-G	7.7
B	0.028
T	0.021
E	0.060
X	0.058
MTBE	ND

DEPTH	11.5'
TPH-D	-
TPH-G	2.5
B	0.12
T	ND
E	0.082
X	0.071
MTBE	ND

DEPTH	10.0'
TPH-D	-
TPH-G	ND
B	ND
T	ND
E	ND
X	ND
MTBE	ND

DEPTH	9.0'
TPH-D	71
TPH-G	1.4
B	ND
T	ND
E	0.008
X	0.010
MTBE	ND

DEPTH	10.0'	14.0'
TPH-D	ND	ND
TPH-G	ND	ND
B	ND	ND
T	ND	ND
E	ND	ND
X	ND	ND
MTBE	ND	ND

DEPTH	8.0'
TPH-D	410
TPH-G	ND
B	ND
T	ND
E	ND
X	ND
MTBE	ND

DEPTH	9.0'
TPH-D	23
TPH-G	120
B	0.054
T	0.16
E	0.98
X	0.79
MTBE	ND

DEPTH	8.0'	12.0'	16.0'
TPH-D	47	16	ND
TPH-G	3.2	18	2.1
B	0.038	0.28	0.077
T	ND	ND	ND
E	0.042	0.51	0.032
X	0.0067	0.057	ND
MTBE	ND	ND	ND

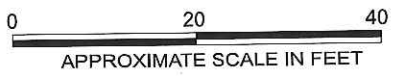
EXCAVATION AREA
(03/2008)

SOIL BENZENE =
1.0 MG/KG

SOIL TPH-G =
100 MG/KG

SOIL TPH-D =
100 MG/KG

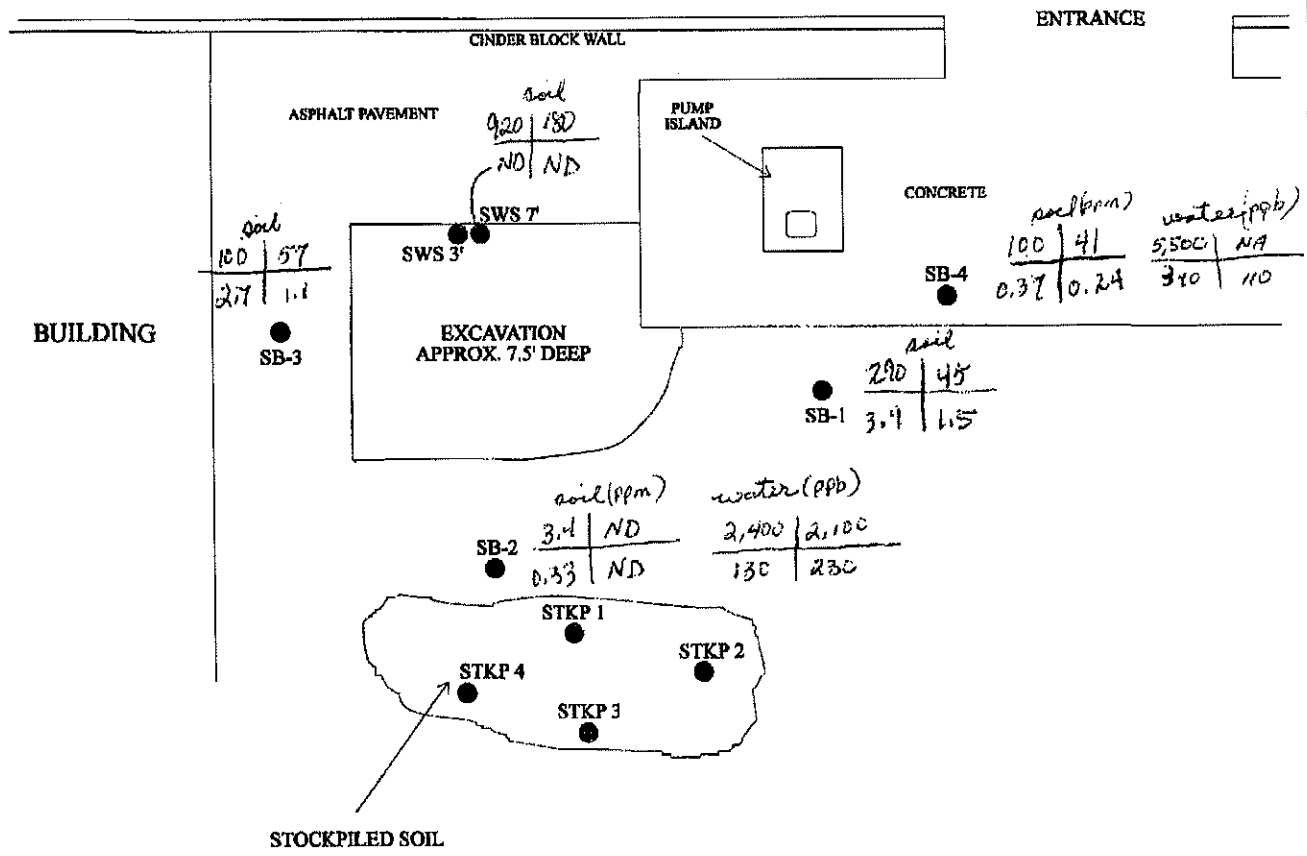
YERBA BUENA AVENUE



DESIGNED BY:	CHECKED BY:	HISTORIC POST-REMEDIAL SOIL HYDROCARBON RESULTS 1075 40TH STREET OAKLAND, CALIFORNIA	DATE: 11/18/2011	FIGURE: 3
DRAWN BY: MR	SCALE:			
PROJECT NO:				

YERBA BUENA AVENUE

← TO 40th STREET



KEY

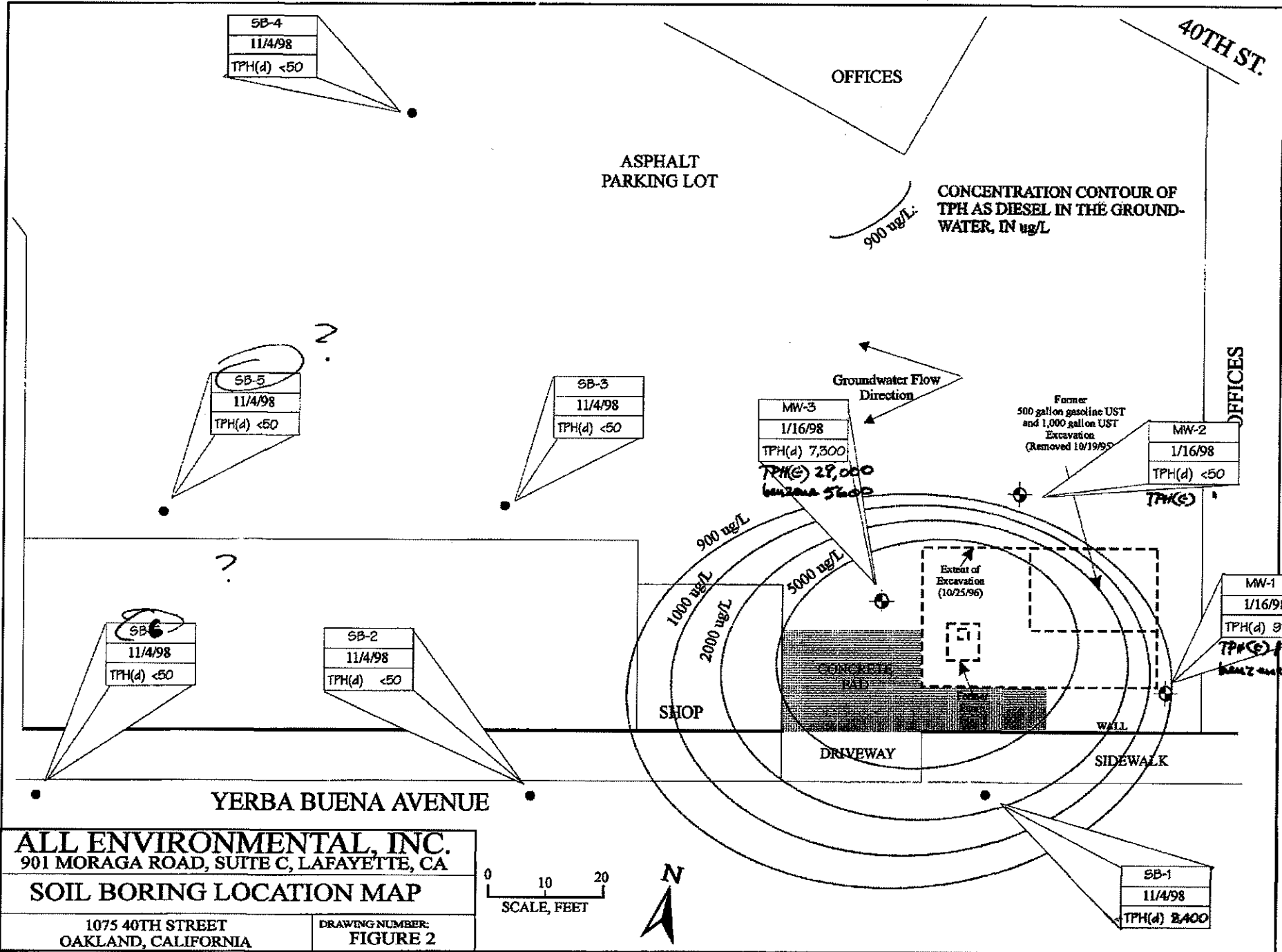
- SOIL BORING LOCATION
- SOIL SAMPLE LOCATION

Soil
 TPH-a | TPH-d (ppm)
 Benzene | MTBE



ALL ENVIRONMENTAL, INC.
 3364 MT. DIABLO BOULEVARD, LAFAYETTE

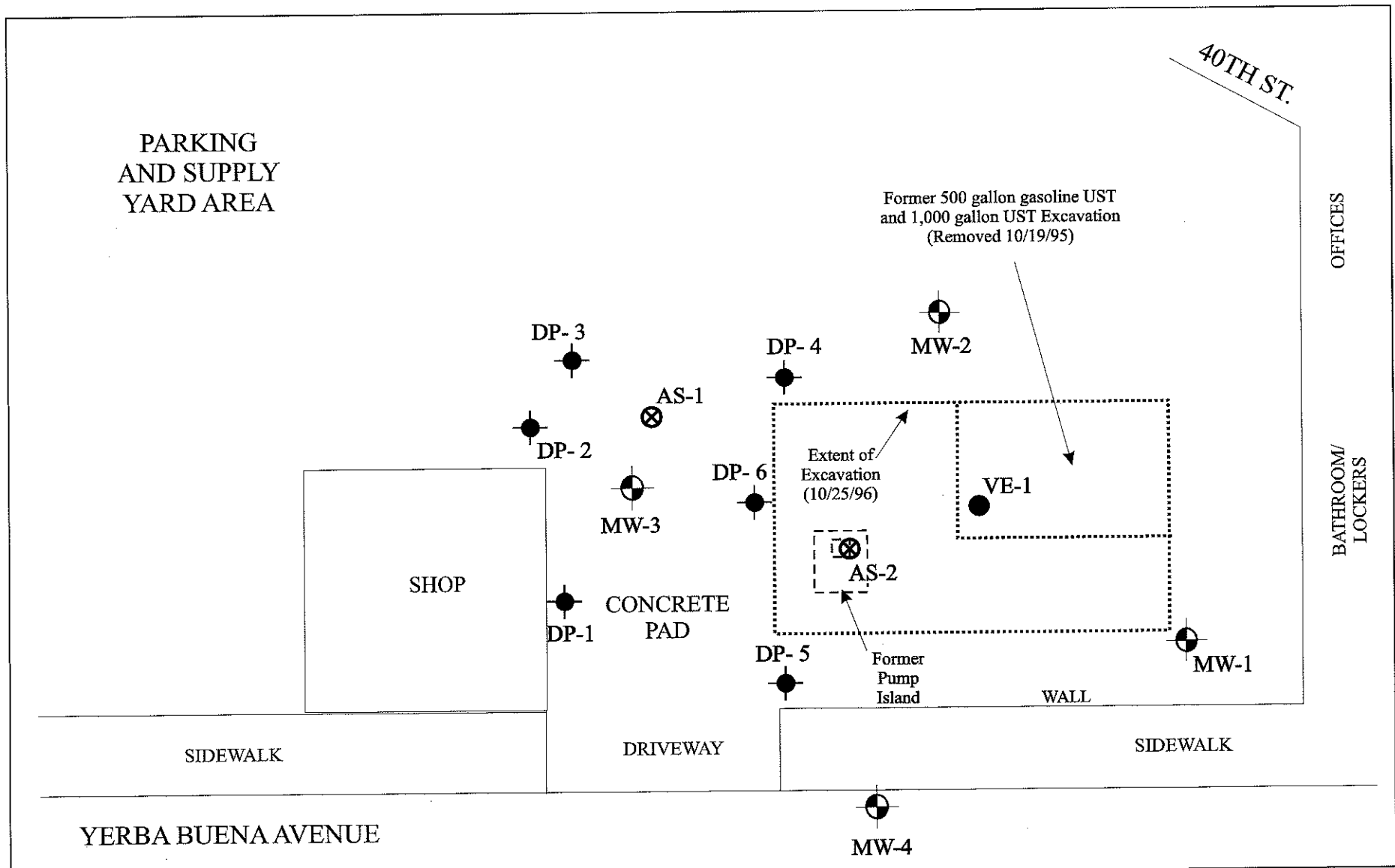
SCALE: 1 IN = 10 FT	APPROVED BY:	DRAWN BY: J.S. ANDERSON
DATE: 7 OCTOBER 96		REVISED: J.S. ANDERSON
SOIL BORING AND SAMPLE LOCATION MAP		
1075 40th STREET OAKLAND, CALIFORNIA		DRAWING NUMBER: FIGURE 2



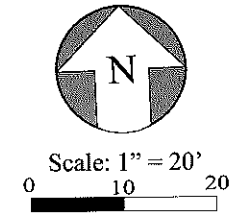
ALL ENVIRONMENTAL, INC.
 901 MORAGA ROAD, SUITE C, LAFAYETTE, CA
SOIL BORING LOCATION MAP

1075 40TH STREET
 OAKLAND, CALIFORNIA

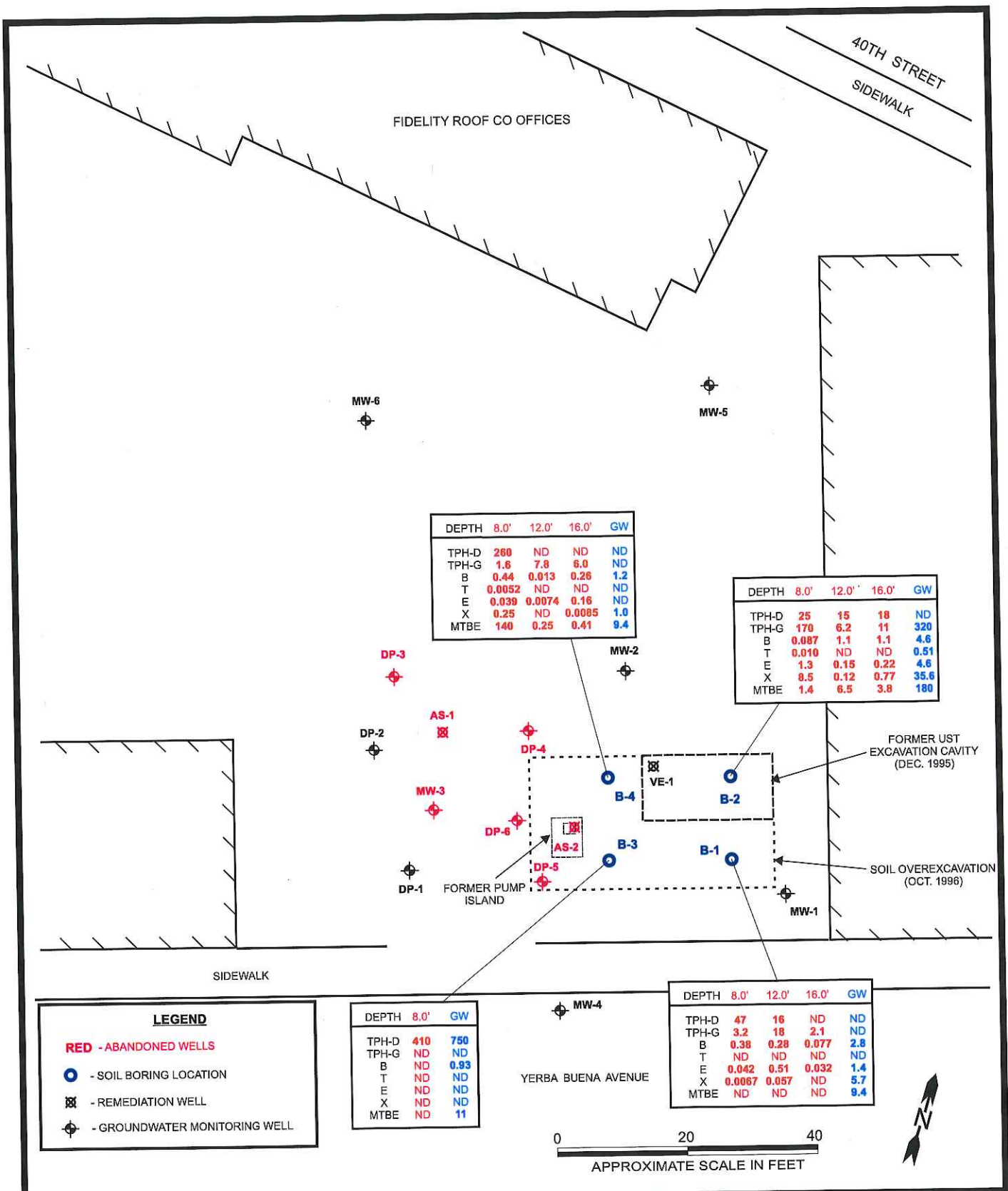
DRAWING NUMBER:
 FIGURE 2



- Monitoring Well
- VE Well
- DP Well
- AS Well



AEI CONSULTANTS	
2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK, CA	
SITE LAYOUT PLAN	
1075 40TH STREET OAKLAND, CALIFORNIA	FIGURE 2 AEI Project No. 116303



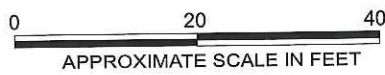
LEGEND

RED - ABANDONED WELLS

● - SOIL BORING LOCATION

⊠ - REMEDIATION WELL

⊕ - GROUNDWATER MONITORING WELL



DESIGNED BY: _____ CHECKED BY: _____

DRAWN BY: JG SCALE: _____

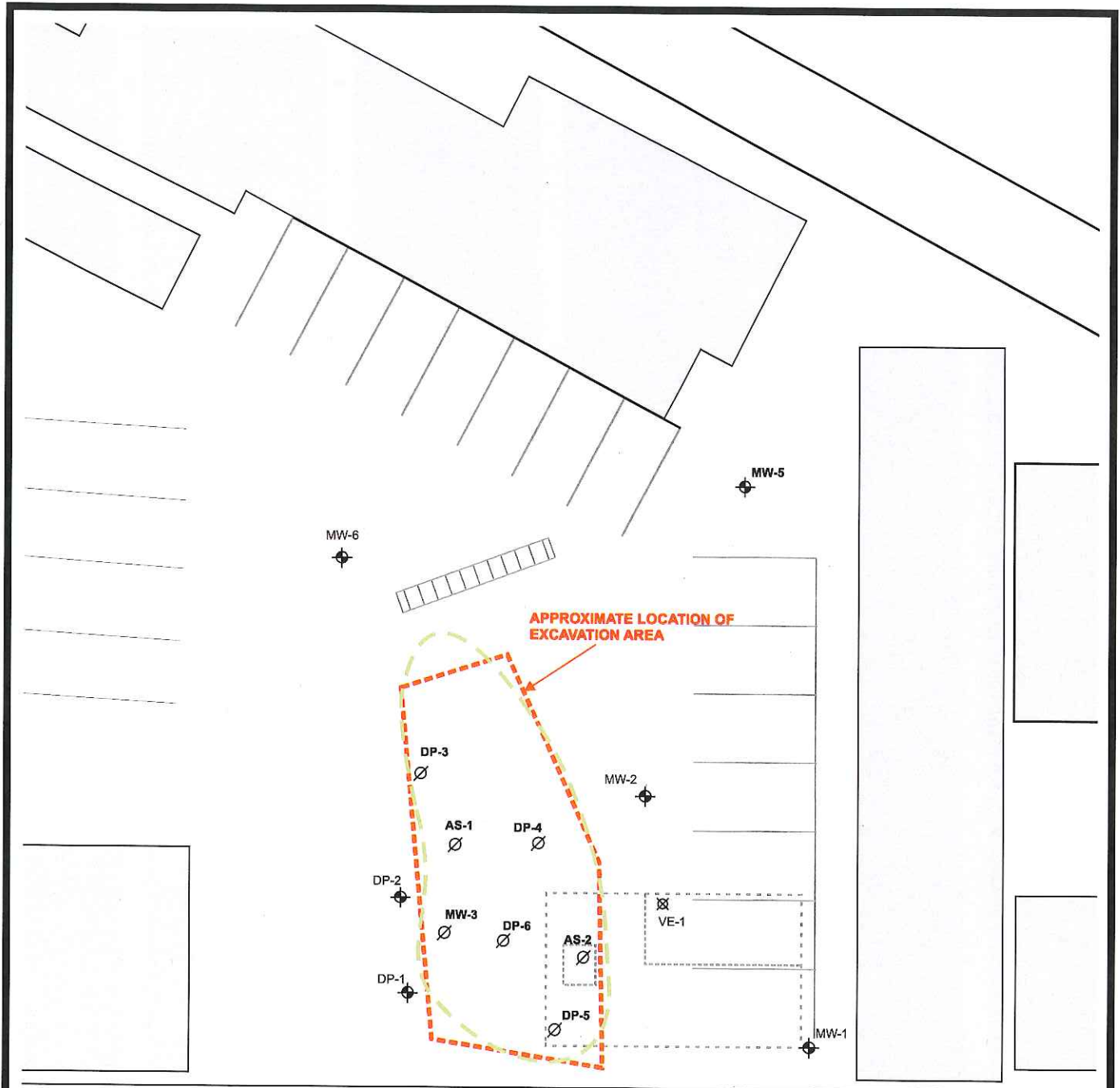
PROJECT NO: 330-01-02

SOIL & GROUNDWATER HYDROCARBON RESULTS

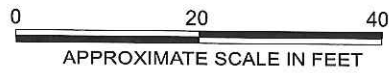
FIDELITY ROOFING UST SITE
1075 40TH STREET
OAKLAND, CALIFORNIA

DATE: 03/21/2008 FIGURE: 3



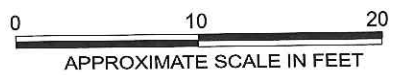
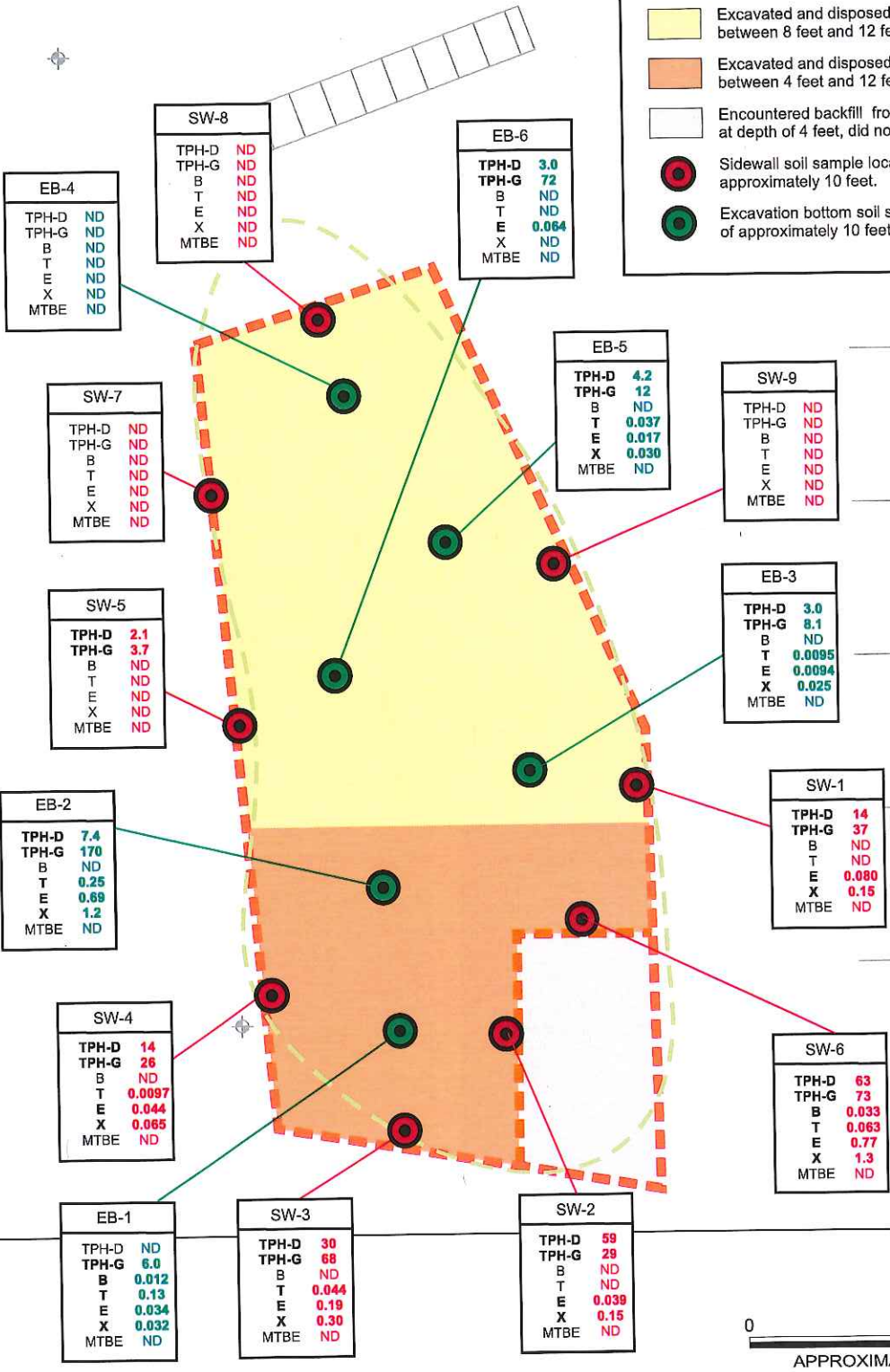


- ⊕ - MONITORING WELL
- ⊗ - REMEDIATION WELL
- ∅ - DECOMMISSIONED WELL

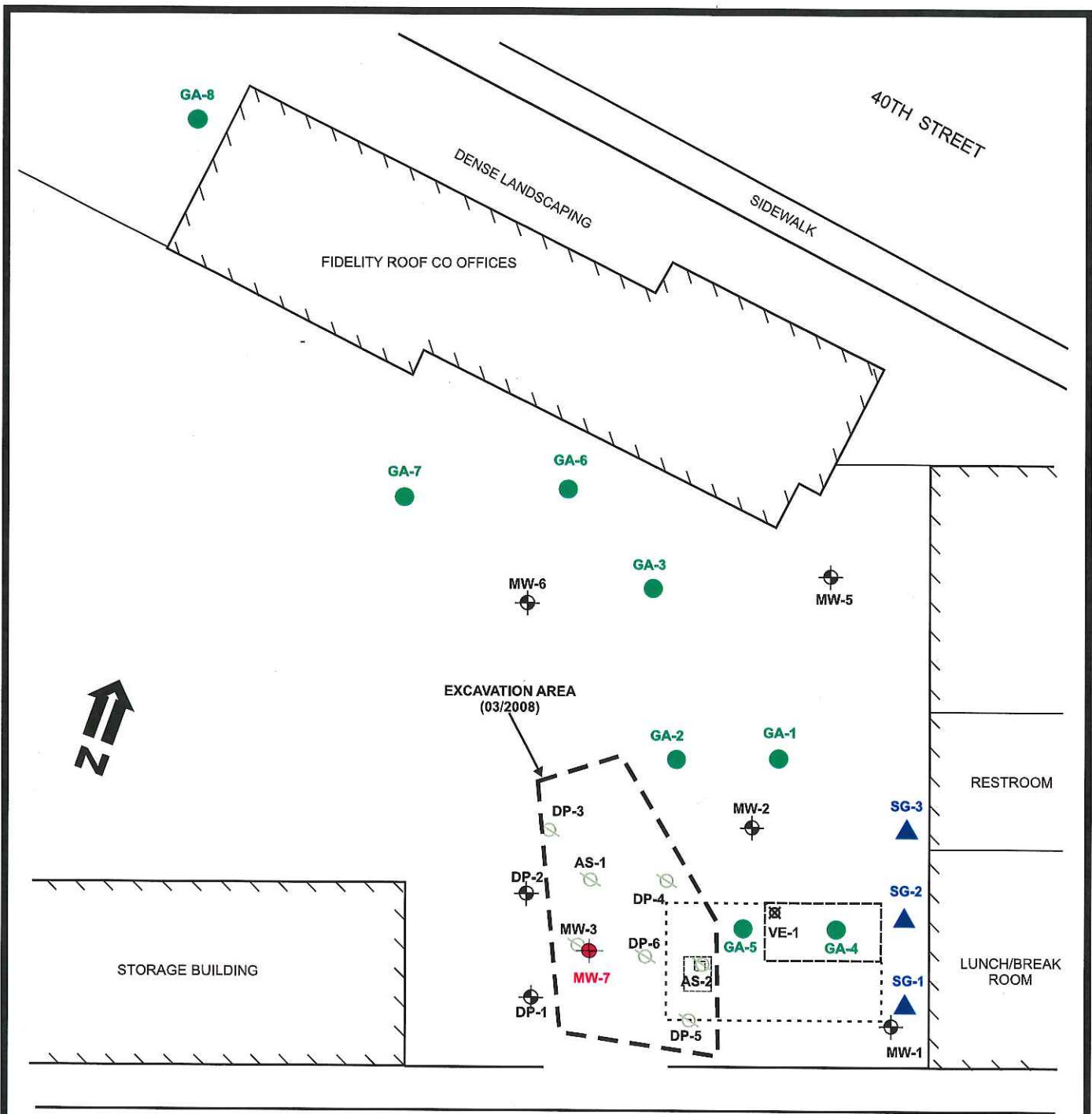


DESIGNED BY:	CHECKED BY:	LOCATION OF EXCAVATION AREA	DATE: 04/22/2008	FIGURE: 4
DRAWN BY: JG	SCALE:		GRIBI	
PROJECT NO: 354-01-04				

Excavated and disposed of hydrocarbon impacted soils between 8 feet and 12 feet in depth.
 Excavated and disposed of hydrocarbon impacted soils between 4 feet and 12 feet in depth.
 Encountered backfill from previous soil investigation at depth of 4 feet, did not excavate further.
 Sidewall soil sample location. Collected at depth of approximately 10 feet.
 Excavation bottom soil sample location. Collected at depth of approximately 10 feet.



DESIGNED BY:	CHECKED BY:	RESULTS OF CONFIRMATION SOIL SAMPLING 1075 40TH STREET OAKLAND, CALIFORNIA	DATE: 04/22/2008	FIGURE: 5
DRAWN BY: JG	SCALE:			
PROJECT NO: 354-01-04				



- ABANDONED WELL
- REMEDIATION WELL
- GROUNDWATER MONITORING WELL
- NEW SOIL GAS SAMPLE LOCATION
- NEW SOIL BORING LOCATION
- NEW GROUNDWATER MONITORING WELL

DESIGNED BY:	CHECKED BY:
DRAWN BY: MR	SCALE:
PROJECT NO:	

SITE PLAN

1075 40TH STREET
OAKLAND, CALIFORNIA

DATE: 11/18/2011 FIGURE: 2



ATTACHMENT 3

Table 1 - Soil Sample Analyses

Sample Identification	TPHg mg/kg	TPHd mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Xylenes mg/kg	MTBE mg/kg	Lead mg/kg
SB-1, L-2, 10'	290	45	3.9	2.7	4.6	18	1.5	9.4
SB-2, L-2, 10'	3.4	<50	0.33	0.013	0.068	0.046	<0.05	5.4
SB-3, L-2, 10'	100	57	2.7	2.9	2.7	11	1.1	7.7
SB-4, L-2, 10'	100	41	0.37	0.28	1.5	6.9	0.24	11
STKP (1-4)	3.8	28	0.009	0.021	0.012	0.079	<1.0	NA
SWS 7'	920	180	<0.2	2.3	<0.2	21	<0.9	NA

Table 2 - Groundwater Sample Analyses

Sample Identification	TPHg ug/L	TPHd ug/L	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Xylenes ug/L	MTBE ug/L	Lead mg/L
SB2 W	2400	2100	130	110	84	250	230	<0.2
SB4 W	5500	NA	340	350	250	1200	110	NA

Total Petroleum Hydrocarbons as gasoline = TPHg
 Total Petroleum Hydrocarbons as diesel = TPHd
 mg/kg = milligrams per kilogram (ppm)
 ug/L = micrograms per liter (ppb)
 mg/L = milligrams per liter (ppm)
 NA = Not Analyzed

analysis to a state certified laboratory.

9.0 ANALYTICAL RESULTS OF SAMPLES

Soil and groundwater samples were analyzed at McCampbell Analytical, Inc. of Pacheco, California (State Certification No. 1644). One soil sample from each boring and groundwater samples from each well were submitted for chemical analyses for TPH as gasoline (EPA Method 5030/8015), TPH as diesel (EPA Method 3510/8015), methyl tertiary butyl ether (MTBE) (EPA Method 8020/602), and benzene, toluene, ethyl benzene, and total xylenes (BTEX) (EPA Method 8020/602).

Refer to the following Table 2 for a summary of the soil sample analyses and to Table 3 for a summary of the groundwater sample analyses.

Table 2 - Soil Sample Analyses

Sample Identification (Depth)	Date	TPHg mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl benzene mg/kg	Total Xylenes mg/kg	TPHd mg/kg
BH-1, (10')	3/6/97	7.7	<0.05	0.028	0.021	0.060	0.058	2.5
BH-2, (10')	3/6/97	7.7	<0.05	<0.05	<0.05	<0.05	<0.05	18
BH-3, (10')	3/6/97	110	<0.9	1.1	0.36	1.9	7.5	6.8

mw-1
mw-2
mw-3

Total Petroleum Hydrocarbons as gasoline = TPHg
 Total Petroleum Hydrocarbons as diesel = TPHd
 methyl tertiary butyl ether = MTBE
 mg/kg = milligrams per kilogram (ppm)



Table 1
Soil Sample Analytical Results

Sample ID	TPH as gasoline mg/kg	TPH as diesel mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg
MW-4 10'	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
MW-4 14'	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
M.D.L.	1.0	1.0	0.05	0.005	0.005	0.005	0.005

ND = Not detected above the Method Detection Limit

µg/kg = micrograms per kilogram (ppb)

mg/kg = milligrams per kilogram (ppm)

MDL = Method Detection Limit

Table 4: Soil Hydrocarbon Analytical Data, Fidelity Roofing, 1075 40th Street, Oakland, California

Sample ID	Sample Depth (ug/L)	Date (ft)	TPHg (ug/L)	TPHd (ug/L)	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes
AS1-20	20.0	05/06/04	ND<1.0	ND<50	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
AS2-15	15.0	05/06/04	ND<1.0	1.4 ¹	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
AS2-20	10.0	05/06/04	ND<1.0	ND<50	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
DP1-10	10	05/13/04	ND<1.0	NA	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
DP2-11.5	11.5	05/13/04	2.5	NA	ND<0.05	0.12	ND<0.005	0.082	0.071
DP3-11.5	11.5	05/13/04	120 ²	45 ^{3,4}	ND<1.5	0.18	0.20	0.31	0.21
DP4-7.5	7.5	05/13/04	ND<1.0	NA	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
DP4-10	10	05/13/04	350 ²	94 ^{3,4}	ND<4.5	0.40	0.53	0.81	0.44
DP5-11.5	11.5	05/13/04	2900	830 ^{3,4}	ND<10	12	9.3	66	320
DP5-13	13	05/13/04	83	77 ^{3,4}	ND<0.25	0.52	0.11	1.6	2.3
DP6-8	8	05/13/04	11 ²	NA	ND<0.5	0.012	0.022	0.0075	0.014
DP6-13	13	05/13/04	74	11 ³	ND<1.0	1.3	ND<0.10	2.9	3.7

Notes:

ug/L= micrograms per liter
 MTBE= Methyl Tertiary Butyl Ether
 TPHg= Total Petroleum Hydrocarbons as gasoline
 TPHd= Total Petroleum Hydrocarbons as diesel

- 1 - oil range compounds are significant
- 2 - no recognizable pattern
- 3 - diesel range compounds are significant; no recognizable pattern
- 4 - gasoline range compounds are significant

Table 5: Soil Fuel Oxygenate Analytical Data, Fidelity Roofing, 1075 40th Street, Oakland, California

Sample ID	Sample Depth (µg/kg)	Date (µg/kg)	TAME (µg/kg)	TBA (µg/kg)	EDB (µg/kg)	1,2-DCA (µg/kg)	DIPE Method 8260 (µg/kg)	Ethanol (µg/kg)	ETBE (µg/kg)	Methanol (µg/kg)	MTBE (µg/kg)
AS1-20	20.0	05/06/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	14
AS2-15	15.0	05/06/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	49
AS2-20	10.0	05/06/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
DP1-10	10	05/13/04	NA	NA	NA	NA	NA	NA	NA	NA	NA
DP2-11.5	11.5	05/13/04	NA	NA	NA	NA	NA	NA	NA	NA	NA
DP3-11.5	11.5	05/13/04	ND<5.0	ND<25	ND<5.0	NA	ND<5.0	NA	ND<5.0	NA	ND<5.0
DP4-7.5	7.5	05/13/04	NA	NA	NA	NA	NA	NA	NA	NA	NA
DP4-10	10	05/13/04	ND<5.0	ND<25	ND<5.0	NA	ND<5.0	NA	ND<5.0	NA	12
DP5-11.5	11.5	05/13/04	ND<2000	ND<10,000	NA	NA	ND<2000	NA	ND<2000	NA	ND<2000
DP5-13	13	05/13/04	ND<5.0	ND<25	ND<5.0	NA	ND<5.0	NA	ND<5.0	NA	ND<5.0
DP6-8	8	05/13/04	NA	NA	NA	NA	NA	NA	NA	NA	NA
DP6-13	13		ND<20	ND<100	NA	NA	ND<20	NA	ND<20	NA	ND<20

Notes:

(µg/kg) micrograms per kilogram

TPHg= Total Petroleum Hydrocarbons as gasoline
 TPHd= Total Petroleum Hydrocarbons as diesel

TAME - tert-Amyl methyl ether
 TBA - t-Butyl alcohol
 EDB - 1,2-Dibromethane
 1,2-DCA - 1,2-Dichloroethane
 DIPE - Diisopropyl ether
 ETBE - Ethyl tert-butyl ether
 MTBE= Methyl Tertiary Butyl Ether

TABLE 4: FUEL OXYGENATES ANALYTICAL DATA
Fidelity Roofing, 1075 40th Street, Oakland, California

Well ID	Date	TAME (mg/L)	TBA (mg/L)	EDB (mg/L)	1,2-DCA (mg/L)	DIPE (mg/L)	ETBE benzene (mg/L)	MTBE (mg/L)	Ethanol	Methanol
MW-1	06/08/04	ND<0.5	ND<5.0	ND<0.5	1.5	ND<0.5	ND<0.5	1.0	----	----
	09/10/04	ND<0.5	ND<5.0	ND<0.5	----	ND<0.5	ND<0.5	1.0	----	----
MW-2	06/08/04	ND<100	ND<1000	ND<100	ND<100	ND<100	ND<100	4,300	----	----
	09/10/04	ND<50	ND<500	ND<50	ND<50	ND<50	ND<50	2,800	----	----
MW-3	06/08/04	ND<5.0	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	99	----	----
	09/10/04	ND<100	ND<1000	ND<100	ND<100	ND<100	ND<100	ND<100	----	----
MW-4	06/08/04	ND<0.5	ND<5.0	ND<0.5	0.79	ND<0.5	ND<0.5	15	----	----
	09/10/04	ND<0.5	ND<5.0	ND<0.5	NA	ND<0.5	ND<0.5	8.2	----	----
MW-5	01/03/07	ND<0.5	ND<5.0	----	----	ND<0.5	ND<0.5	ND<0.5	ND<50	ND<500
MW-6	01/03/07	ND<10	ND<100	----	----	ND<10	ND<10	320	ND<1,000	ND<10,000

Notes: Notes:

(mg/L) micrograms per liter
TAME tert-Amyl methyl ether
TBA t-Butyl alcohol
EDB 1,2-Dibromethane

1,2-DCA 1,2-Dichloroethane
DIPE Diisopropyl ether
ETBE Ethyl tert-butyl ether
MTBE Methyl Tertiary Butyl Ether

Table 1
SOIL AND GROUNDWATER HYDROCARBON ANALYTICAL RESULTS
 Fidelity Roof Co UST Site

Sample ID	Sample Matrix	Sample Depth	Concentration, Soil: milligrams per kilogram (mg/kg); Water: micrograms per liter (ug/l)						
			TPH-D	TPH-G	B	T	E	X	Oxygenates
B-1-8.0'	soil	8.0 feet	47	3.2	0.038	<0.0050	0.042	0.0067	All ND
B-1-12.0'	soil	12.0 feet	16	18	0.28	<0.0050	0.51	0.057	All ND
B-1-16.0'	soil	16.0 feet	<5.0	2.1	0.077	<0.0050	0.032	<0.0050	All ND
B-1-GW	water	(8.0 feet)	<500	<50	2.8	<0.50	1.4	5.7	9.4 MTBE
B-2-8.0'	soil	8.0 feet	25	170	0.087	0.010	1.3	8.5	1.4 MTBE 0.34 TBA
B-2-12.0'	soil	12.0 feet	15	6.2	1.1	<0.0050	0.15	0.12	6.5 MTBE 0.56 TBA
B-2-16.0'	soil	16.0 feet	18	11	1.1	<0.0050	0.22	0.77	3.8 MTBE 0.26 TBA
B-2-GW	water	(8.0 feet)	<500	320	4.6	0.51	4.6	35.6	180 MTBE
B-3-8.0'	soil	8.0 feet	410	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	All ND
B-3-GW	water	(8.0 feet)	750	<50	0.93	<0.50	<0.50	<0.10	11 MTBE
B-4-8.0'	soil	8.0 feet	260	1.6	0.044	0.0052	0.039	0.25	0.14 MTBE
B-4-12.0'	soil	12.0 feet	<5.0	7.8	0.013	<0.0050	0.0074	<0.0050	0.25 MTBE
B-4-16.0'	soil	16.0 feet	<5.0	6.0	0.26	<0.0050	0.16	0.0085	0.41 MTBE
B-4-GW	water	(8.0 feet)	<500	<50	1.2	<0.50	<0.50	1.0	9.4 MTBE
ESL, soil, drinking water, Res & CI			83	83	0.044	2.9	3.3	2.3	0.023 MTBE 4.4 TBA
ESL, soil, non-drinking water, CI			450	150	0.26	29	33	100	8.4 MTBE 310 TBA
ESL, groundwater, drinking water, Res & CI			100	100	1.0	40	30	20	5.0 MTBE NE TBA
ESL, groundwater, non-drinking water, Res & CI			2,500	5,000	540	400	300	5,300	1,800 MTBE 50,000 TBA
ESL, groundwater, vapor intrusion, Res			NE	NE	42	31,000	100,000	10,000	4,700 MTBE NE TBA

TPH-D = Total Petroleum Hydrocarbons as Diesel
 TPH-G = Total Petroleum Hydrocarbons as Gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 Oxygenates = Methyl-tert-Butyl Ether (MTBE), Ter-Butyl Alcohol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME).

<0.0050 = Not detected above the expressed value.
 ESL = Environmental Screening Level, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, November 2007.
 Res = Residential land use
 CI = Commercial/Industrial land use

Table 1
EXCAVATION PIT SOIL ANALYTICAL RESULTS
 Fidelity Roof Company UST Site

Sample ID	Sample Depth	Concentration, milligrams per kilogram (mg/kg, or ppm)						
		TPH-D	TPH-G	B	T	E	X	MTBE
EXCAVATION PIT SIDEWALL SOIL SAMPLES								
SW-1	10.0 feet	14	37	<0.050	<0.050	0.080	0.15	<0.50
SW-2	10.0 feet	59	29	<0.010	<0.010	0.039	0.15	<0.010
SW-3	10.0 feet	30	68	<0.005	0.044	0.19	0.30	<0.05
SW-4	10.0 feet	14	26	<0.005	0.0097	0.044	0.065	<1.25
SW-5	10.0 feet	2.1	3.7	<0.005	<0.005	<0.005	<0.005	<0.05
SW-6	10.0 feet	63	73	0.033	0.063	0.77	1.3	<0.05
SW-7	10.0 feet	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SW-8	10.0 feet	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SW-9	10.0 feet	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
EXCAVATION PIT BOTTOM SOIL SAMPLES								
EB-1	12.0 feet	<1.0	6.0	0.012	0.013	0.034	0.032	<0.05
EB-2	12.0 feet	7.4	170	<0.010	0.25	0.69	1.2	<0.10
EB-3	12.0 feet	3.0	8.1	<0.005	0.0095	0.0094	0.025	<0.05
EB-4	12.0 feet	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
EB-5	12.0 feet	4.2	12	<0.005	0.037	0.017	0.030	<0.05
EB-6	12.0 feet	3.0	72	<0.062	<0.062	0.064	<0.062	<0.62
ESL, soil, drinking water, Res & CI		83	83	0.044	2.9	3.3	2.3	0.023
ESL, soil, non-drinking water, CI		150	450	0.26	29	33	100	8.4

TPH-D = Total Petroleum Hydrocarbons as Diesel
 TPH-G = Total Petroleum Hydrocarbons as Gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 MTBE = Methyl-tert-Butyl Ether.

<0.050 = Not detected above the expressed value.
 ESL = Environmental Screening Level, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, November 2007.
 Res = Residential land use
 CI = Commercial/Industrial land use

Table 2
EXCAVATED SOIL STOCKPILE ANALYTICAL RESULTS
 Fidelity Roof Company UST Site

Sample ID	Concentration, milligrams per kilogram (mg/kg, or ppm)					
	TPH-G	B	T	E	X	MTBE
SP-1	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-2	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-4	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-6	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-7	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-8	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-9	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-11	1.5	<0.005	<0.005	<0.005	0.043	<0.005
SP-12	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-13	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-14	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-15	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SP-16	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
ESL, soil, drinking water, Res & CI	83	0.044	2.9	3.3	2.3	0.023
ESL, soil, non-drinking water, CI	450	0.26	29	33	100	8.4

TPH-D = Total Petroleum Hydrocarbons as Diesel
 TPH-G = Total Petroleum Hydrocarbons as Gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 MTBE = Methyl-tert-Butyl Ether.

<1.0 = Not detected above the expressed value.
 ESL = Environmental Screening Level, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, November 2007.
 Res = Residential land use
 CI = Commercial/Industrial land use

Table 1
SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Soil Concentration: milligrams per kilogram (mg/kg), Groundwater Concentration: micrograms per kilogram (ug/L)							
			TPH-G	B	T	E	X	MTBE	TBA	OXY
GA-1-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-1-11.5	Soil	11.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-1-15.0	Soil	15.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.023	<0.050	ND
GA-1-18.0	Soil	18.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.021	<0.050	ND
GA-1-27.0	Soil	27.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-1-29.5	Soil	29.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-1-W	Water	(25-30 feet)	<50	<0.50	1.8	<0.50	3.2	26	<10	ND
GA-2-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-2-17.5	Soil	17.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.220	<0.050	ND
GA-2-27.0	Soil	27.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.045	<0.050	ND
GA-2-W16-22	Water	(16-22 feet)	250	<0.50	2.4	<0.50	3.28	1,600	<10	ND
GA-2-W28-30	Water	(28-30 feet)	250	1.4	3.7	0.64	6.3	1,600	<10	ND
GA-3-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-15.0	Soil	15.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-23.5	Soil	23.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-26.0	Soil	26.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-29.5	Soil	29.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-34.5	Soil	34.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-39.5	Soil	39.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-W-15-20	Water	(15-20 feet)	<50	<0.50	3.1	0.65	3.9	3.4	<10	ND
GA-3-W-30-40	Water	(30-40 feet)	<50	<0.50	0.61	<0.50	<1.0	1.1	<10	ND
GA-4-19.5	Soil	19.5 feet	7.9	0.13	<0.005	0.072	0.046	0.89	2.5	ND
GA-4-21.0	Soil	21.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-4-23.5	Soil	23.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.079	0.053	ND
GA-4-W-20-24	Water	(20-24 feet)	160	100	2.9	15	13.2	1,000	350	ND
GA-5-W-25-30	Water	(25-30 feet)	<50	7.7	<0.50	2.3	<2.8	31	<28	2.5
GA-6-19.0	Soil	19.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-6-22.0	Soil	22.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-6-27.0	Soil	27.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-6-W	Water	(18-28 feet)	<50	<0.50	<0.50	<0.50	<1.0	4.6	<10	ND

Table 1
SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Soil Concentration: milligrams per kilogram (mg/kg), Groundwater Concentration: micrograms per kilogram (ug/L)							
			TPH-G	B	T	E	X	MTBE	TBA	OXY
GA-7-17.5	Soil	17.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-7-22.0	Soil	22.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-7-W	Water	(18-28 feet)	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	ND
GA-8-16.5	Soil	16.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-8-22.0	Soil	22.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-8-27.5	Soil	27.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-8-W	Water	(18-28 feet)	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	ND
MW-7-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-11.0	Soil	11.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-15.5	Soil	15.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-19.5	Soil	19.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7	Water	(5-20 feet)	<50	<0.50	<0.50	<0.50	<1.0	9.6	<10	ND
Shallow Soil ESL, groundwater IS a drinking water source, commercial land use			83	0.044	2.9	3.3	2.3	0.075	0.075	0.023
Groundwater ESL, groundwater IS a drinking water source, commercial land use.			100	1.0	40	30	20	12	12	5.0

Table Notes:

TPH-D = total petroleum hydrocarbons as diesel
 TPH-G = total petroleum hydrocarbons as gasoline
 MTBE = Methyl tert-butyl ether
 <1.0 = Not detected above the expressed detection level.
 All ND = No detectable concentrations of full list of constituents

ESL = Environmental Screening Levels, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, May 2008.

Table 2
SUMMARY OF SOIL VAPOR LABORATORY ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Constituent Concentration, micrograms per cubic meter (ug/m ³)					
			B	T	E	X	1,1-DFA	IP
Vapor Samples, May 5, 2011, Sampled from temporary vapor probes.								
VS-1	Vapor	1.5 feet	7.5	15	8.0	28.0	27,000	--
VS-2	Vapor	1.5 feet	6.9	19	7.1	23.9	26,000	--
VS-3	Vapor	0.5 feet	9.6	20	7.4	26.5	28,000	--

ATTACHMENT 4

Table 1
Groundwater Laboratory Analytical Results
Fidelity Roof Co. UST Site

Well ID	Date	GW Depth	GW Elev.	Concentration, micrograms per liter (ug/l)								Oxy
				TPH-D	TPH-G	B	T	E	X	MTBE		
MW-1	3/19/1997	8.25	42.74	<50	<50	<0.5	<0.5	<0.5	<0.5	23	-	
<50.99>	6/23/1997	9.1	41.89	420	1,300	150	2.1	12	19	14	-	
	10/8/1997	9.95	41.04	66	56	2.8	<0.5	<0.5	<0.5	5.8	-	
	1/16/1998	7.57	43.42	910	1,500	95	0.72	69	8.4	<33	-	
	8/5/1999	10.16	40.83	63	160	1.6	<0.5	0.56	1.1	<15	-	
	11/18/1999	8.52	42.47	<50	79	<0.5	<0.5	<0.5	<0.5	<5.0	-	
	2/24/2000	7.65	43.34	160	300	14	0.82	3.5	1.6	<5.0	-	
	5/24/2000	8.47	42.52	480	1,300	93	<0.5	17	1.6	<10	-	
	8/29/2000	10.28	40.71	<0.5	120	0.93	<0.5	<0.5	<0.5	<5.0	-	
	1/12/2001	8.5	42.49	170	360	16	<0.5	9.3	0.69	<5.0	-	
	4/18/2001	8.77	42.22	410	1,100	63	<0.5	34	0.73	2,800	-	
	7/27/2001	10.5	40.49	66	130	1.6	<0.5	<0.5	<0.5	<5.0	-	
	11/6/2001	10.28	40.71	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	
	2/13/2002	8.47	42.52	270	430	17	0.51	11	0.64	<5.0	-	
	5/14/2002	9.5	41.49	170	340	21	<0.5	5.3	0.67	<5.0	-	
	8/15/2002	10.39	40.60	53	96	0.66	<0.5	<0.5	<0.5	<5.0	-	
	11/14/2002	9.08	41.91	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	
	2/12/2003	8.36	42.63	120	710	28	4.3	32	130	<5.0	-	
	5/16/2003	8.49	42.50	340	1,100	54	4.1	40	100	<15	-	
	8/29/2003	9.91	41.08	280	1,200	46	5.1	55	230	<5.0	-	
	12/2/2003	8.88	42.11	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	
	3/8/2004	7.66	43.33	240	120	2.9	<0.5	<0.5	0.71	<5.0	-	
	6/8/2004	9.39	41.60	782	<50	<0.5	<0.5	<0.5	<0.5	<5.0	ND	
	9/10/2004	9.95	41.04	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	ND	
	12/13/2004	6.94	44.05	150	240	11	<0.5	5.6	<0.5	<5.0	-	
	3/11/2005	7.35	43.64	420	1,100	43	0.60	12	0.80	<40	-	
	6/15/2005	7.35	43.64	220	440	26	<0.5	0.60	<0.5	<15	-	
	9/8/2005	9.57	41.42	76	120	2.0	<0.5	<0.5	<0.5	<5.0	-	
	12/1/2005	7.66	43.33	<50	<50	1.3	<0.5	0.74	<0.5	<5.0	-	
	3/7/2006	7.32	43.67	150	590	29	0.89	4.4	1.1	<5.0	-	
	6/5/2006	8.46	42.53	120	74	1.2	<0.5	<0.5	<0.5	<5.0	-	
	9/18/2006	9.36	41.63	99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	
	1/3/2007	7.99	43.00	<50	78	1.4	<0.5	0.66	<0.5	<5.0	-	
	06/12/2007	9.21	41.78	<500	88	9.2	<0.5	0.64	<1.0	3.8	ND	
	09/12/2007	10.02	40.97	<500	410	5.1	<0.5	<0.5	<1.0	2.7	ND	
	12/5/2007	8.68	42.31	1,100	2,300	96	<0.5	20	<1.0	6.2	ND	
	03/04/2008	7.87	43.12	920	200	2.8	<0.5	<0.5	<1.0	3.2	ND	
	05/22/2008	9.62	41.37	590	150	18	<0.5	<0.5	<1.0	<1.0	ND	
	09/10/2008	10.57	40.42	<50	110	<0.5	<0.5	<0.5	<1.0	<1.0	ND	
	11/25/2008	9.77	41.22	63	<50	2.6	<0.5	<0.5	<1.0	<1.0	ND	
	02/26/2009	7.06	43.93	<50	79	6.9	<0.5	0.95	<1.0	3.5	ND	
	05/26/2009	9.03	41.96	72	220	10	<0.5	0.85	<1.0	6.4	ND	

Table 1
Groundwater Laboratory Analytical Results
Fidelity Roof Co. UST Site

Well ID	Date	GW Depth	GW Elev.	Concentration, micrograms per liter (ug/l)							
				TPH-D	TPH-G	B	T	E	X	MTBE	Oxy
	11/18/2009	9.55	41.44	180	150	<0.5	<0.5	<0.5	<1.0	4.0	ND
	05/12/2010	8.16	42.83	<50	<50	<0.5	<0.5	<0.5	<1.0	4.5	ND
	10/27/2010	9.18	41.81	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	05/19/2011	8.30	42.69	<50	68	2.5	<0.5	<0.5	<1.0	4.8	ND
	11/29/2011	8.74	42.25	<50	99	<0.5	<0.5	<0.5	<1.0	<1.0	ND
MW-2	3/19/1997	8.4	42.09	<50	<50	<0.5	<0.5	<0.5	<0.5	65	-
<50.49>	6/23/1997	8.85	41.64	<50	<50	3.4	<0.5	<0.5	<0.5	70	-
	10/8/1997	9.8	40.69	<50	<50	<0.5	<0.5	<0.5	<0.5	90	-
	1/16/1998	5.28	45.21	<50	<50	<0.5	<0.5	<0.5	<0.5	65	-
	8/5/1999	9.32	41.17	<50	<50	<0.5	<0.5	<0.5	<0.5	600	-
	11/18/1999	10.2	40.29	<50	<50	<0.5	<0.5	<0.5	<0.5	370	-
	2/24/2000	7.03	43.46	<50	<50	<0.5	<0.5	<0.5	<0.5	880	-
	5/24/2000	8.01	42.48	62	<250	<0.5	<0.5	<0.5	<0.5	2,200	-
	8/29/2000	11.07	39.42	<50	<200	<0.5	<0.5	<0.5	<0.5	1,900	-
	1/12/2001	8.6	41.89	70	470	8.7	3.1	16	73	2,000	-
	4/18/2001	8.8	41.69	<50	<50	<0.5	<0.5	<0.5	<0.5	2,800	-
	7/27/2001	11.1	39.39	<50	<100	<0.5	<0.5	<0.5	<0.5	3,300	-
	11/6/2001	12.21	38.28	<50	<100	<0.5	<0.5	<0.5	<0.5	3,000	-
	2/13/2002	7.98	42.51	<50	54	<0.5	<0.5	<0.5	<0.5	3,200	-
	5/14/2002	10.48	40.01	<50	<150	4.8	<1.0	<1.0	<1.0	3,800	-
	8/15/2002	10.64	39.85	<50	<50	<0.5	<0.5	<0.5	<0.5	2,900	-
	11/14/2002	11.69	38.80	<50	<120	<1.0	<1.0	<1.0	<1.0	3,800	-
	2/12/2003	9.07	41.42	120	1,100	57	7.0	55	210	3,200	-
	5/16/2003	11.25	39.24	85	530	35	3.6	22	79	6,000	-
	8/29/2003	12.19	38.30	1200	2,400	39	5.8	77	320	4,800	-
	12/2/2003	10.96	39.53	<50	<100	<1.0	<1.0	<1.0	<1.0	3,300	-
	3/8/2004	8.41	42.08	<50	<250	<2.5	<2.5	<2.5	<2.5	4,300	ND
	6/8/2004	10.19	40.30	<50	<120	<1.2	<1.2	<1.2	<1.2	2,800	ND
	9/10/2004	10.84	39.65	<250	<250	<2.5	<2.5	<2.5	<2.5	4,100	-
	12/13/2004	8.41	42.08	<50	77	<0.5	0.83	<0.5	1.9	4,200	-
	3/11/2005	7.81	42.68	<50	120	14	<0.5	0.56	<0.5	4,900	-
	6/15/2005	7.81	42.68	<50	1,200	85	<5.0	<5.0	<5.0	12,000	-
	9/8/2005	11.58	38.91	<50	<500	<5.0	<5.0	<5.0	<5.0	8,600	-
	12/1/2005	9.03	41.46	<50	<500	<5.0	<5.0	<5.0	<5.0	12,000	-
	3/7/2006	7.78	42.71	<50	<500	44	<5.0	<5.0	<5.0	10,000	-
	6/5/2006	9.28	41.21	1,000	890	110	<5.0	<5.0	31	19,000	-
	9/18/2006	10.39	40.10	4,100	2,000	<5.0	<5.0	<5.0	<5.0	8,900	-
	01/3/2007	8.79	41.70	600	1,500	150	<5.0	51	59	7,500	-
	06/12/2007	9.90	40.59	1,700	2,600	230	1.3	110	37.8	8,100	6,900=TBA
	09/12/2007	10.75	39.74	740	2,600	9.1	<0.5	73	42.1	1,900	3,900=TBA
	12/5/2007	-	-	870	2,000	1.1	<0.5	34	15.66	660	2,700=TBA
	03/04/2008	8.01	42.48	700	1,400	150	<0.5	30	11	1,800	3,100=TBA

Table 1
Groundwater Laboratory Analytical Results
 Fidelity Roof Co. UST Site

Well ID	Date	GW Depth	GW Elev.	Concentration, micrograms per liter (ug/l)							Oxy
				TPH-D	TPH-G	B	T	E	X	MTBE	
	1/3/2007	8.84	41.09	Free Product = 0.28 ft, Not Sampled							
	06/12/2007	9.71	40.22	Free Product = 0.55 ft, Not Sampled							
	09/12/2007	10.82	39.11	Free Product = 0.73 ft, Not Sampled							
	12/5/2007			Well Abandoned November 27 2007							
MW-4	8/5/1999	8.79	40.18	<50	<50	<0.5	<0.5	<0.5	<0.5	37	-
<48.97>	11/18/1999	8.11	40.86	<50	<50	<0.5	<0.5	<0.5	<0.5	20	-
	2/24/2000	5.19	43.78	<50	<50	<0.5	<0.5	<0.5	<0.5	20	-
	5/24/2000	7.23	41.74	140	120	1.3	<0.5	<0.5	<0.5	31	-
	8/29/2000	9.04	39.93	<50	<50	<0.5	<0.5	<0.5	<0.5	22	-
	1/12/2001	6.4	42.57	81	<50	<0.5	<0.5	<0.5	<0.5	25	-
	4/18/2001	7.3	41.67	170	30	2.4	1.1	0.66	4.2	35	-
	7/27/2001	9.16	39.81	110	87	1.8	<0.5	2.0	10	26	-
	11/6/2001	9.03	39.94	59	200	4.5	1.0	5.2	24	21	-
	2/13/2002	6.6	42.37	91	<50	<0.5	<0.5	<0.5	<0.5	15	-
	5/14/2002	7.19	41.78	140	260	12	2.7	11	49	26	-
	8/15/2002	8.97	40.00	<50	<50	<0.5	<0.5	<0.5	<0.5	12	-
	11/14/2002	7.52	41.45	<50	<50	<0.5	<0.5	<0.5	<0.5	11	-
	2/12/2003	6.37	42.60	130	170	3.1	0.66	6.4	27	16	-
	5/16/2003	6.81	42.16	60	<50	<0.5	<0.5	<0.5	<0.5	23	-
	8/29/2003	8.56	40.41	120	610	16	2.7	30	130	10	-
	12/2/2003	6.02	42.95	<50	<50	<0.5	<0.5	<0.5	<0.5	7.7	-
	3/8/2004	5.75	43.22	<50	<50	<0.5	<0.5	<0.5	<0.5	10	-
	6/8/2004	8.19	40.78	<50	<50	<0.5	<0.5	<0.5	<0.5	11	-
	9/10/2004	8.84	40.13	<50	<50	<0.5	<0.5	<0.5	<0.5	10	-
	12/13/2004	5.75	43.22	<50	<50	<0.5	<0.5	<0.5	<0.5	16	-
	3/11/2005	5.26	43.71	<50	<50	<0.5	<0.5	<0.5	<0.5	16	-
	6/15/2005	5.26	43.71	<50	<50	<0.5	<0.5	<0.5	<0.5	15	ND
	9/8/2005	8.2	40.77	54	<50	<0.5	<0.5	<0.5	<0.5	8.2	ND
	12/1/2005	6.93	42.04	<50	<50	<0.5	<0.5	<0.5	<0.5	13	-
	3/7/2006	4.17	44.80	<50	<50	<0.5	<0.5	<0.5	<0.5	11	-
	6/5/2006	6.88	42.09	<50	<50	<0.5	<0.5	<0.5	<0.5	11	-
	9/18/2006	8.33	40.64	110	<50	<0.5	<0.5	<0.5	<0.5	10	-
	1/3/2007	6.57	42.40	<50	<50	<0.5	<0.5	<0.5	<0.5	7.9	-
	06/12/2007	8.01	40.96	<500	<50	<0.5	<0.5	<0.5	<0.5	8.3	ND
	09/12/2007	8.94	40.03	<500	<50	<0.5	<0.5	<0.5	<0.5	5.7	ND
	12/5/2007	7.61	41.36	<50	<50	<0.5	<0.5	<0.5	<0.5	7.4	ND
	03/04/2008	6.23	42.74	<50	<50	<0.5	<0.5	<0.5	<0.5	6.8	ND
	05/22/2008	8.35	40.62	<50	<50	<0.5	<0.5	<0.5	<1.0	4.5	ND
	09/10/2008	9.38	39.59	<50	89	<0.5	<0.5	<0.5	<1.0	9.3	ND
	11/25/2008	8.61	40.36	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	02/26/2009	4.65	44.32	<50	<50	<0.5	<0.5	<0.5	<1.0	4.6	ND
	05/29/2009	7.66	41.31	<50	<50	<0.5	<0.5	<0.5	<1.0	13	ND
	11/18/2009	8.20	40.77	310	<50	<0.5	<0.5	<0.5	<1.0	13	ND

Table 1
Groundwater Laboratory Analytical Results
Fidelity Roof Co. UST Site

Well ID	Date	GW Depth	GW Elev.	Concentration, micrograms per liter (ug/l)							
				TPH-D	TPH-G	B	T	E	X	MTBE	Oxy
	05/12/2010	6.66	42.31	<50	<50	<0.5	<0.5	<0.5	<1.0	11	ND
	10/27/2010	7.78	41.19	<50	<50	<0.5	<0.5	<0.5	<1.0	3.0	ND
	05/19/2011	6.34	42.63	<50	<50	<0.5	<0.5	<0.5	<1.0	10	ND
	11/29/2011	7.38	41.59	<50	<50	<0.5	<0.5	<0.5	<1.0	7.2	ND
MW-5	01/03/2007	16.47	34.57	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	-
<51.04>	06/12/2007	10.12	40.92	<500	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	09/12/2007	11.75	39.29	<500	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	12/5/2007	11.35	39.69	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	03/04/2008	9.64	41.40	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	05/22/2008	10.37	40.67	<50	<50	<0.5	<0.5	<0.5	<1.0	67	ND
	09/10/2008	11.03	40.01	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	11/25/2008	10.65	40.39	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	02/26/2009	9.19	41.85	<50	<50	1.0	4.6	5.4	24.6	<1.0	ND
	05/26/2009	10.24	40.80	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	11/18/2009	10.45	40.59	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	05/12/2010	9.10	41.94	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	10/27/2010	10.93	40.11	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	05/19/2011	9.37	41.67	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	11/29/2011	11.47	39.57	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
MW-6	01/03/07	8.93	41.41	63	<50	<0.5	<0.5	<0.5	<1.0	<5.0	-
<50.34>	06/12/2007	10.05	40.29	<500	<50	<0.5	<0.5	<0.5	<1.0	72	ND
	09/12/2007	10.83	39.51	<500	<50	<0.5	<0.5	<0.5	<1.0	180	18=TBA
	12/5/2007	9.98	40.36	<50	<50	<0.5	<0.5	<0.5	<1.0	39	ND
	03/04/2008	8.12	42.22	<50	<50	<0.5	<0.5	<0.5	<1.0	38	ND
	05/22/2008	12.26	38.08	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	09/10/2008	10.14	40.20	<50	<50	<0.5	<0.5	<0.5	<1.0	310	180=TBA
	11/25/2008	11.50	38.84	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	02/26/2009	6.39	43.95	<50	<50	<0.5	2.2	2.6	11.9	86	ND
	05/26/2009	9.41	40.93	<50	<50	<0.5	<0.5	<0.5	<1.0	88	ND
	11/18/2009	10.11	40.23	<50	<50	<0.5	<0.5	<0.5	<1.0	62	ND
	05/12/2010	8.52	41.82	<50	99	<0.5	<0.5	<0.5	<1.0	220	ND
	10/27/2010	10.08	40.26	<50	<50	<0.5	<0.5	<0.5	<1.0	62	ND
	05/19/2011	8.10	42.24	<50	68	<0.5	<0.5	<0.5	<1.0	260	ND
	11/29/2011	9.23	41.11	<50	59	<0.5	<0.5	<0.5	<1.0	190	80=TBA
MW-7	05/19/2011	7.94	42.01	<50	<50	<0.5	<0.5	<0.5	<1.0	9.6	ND
<49.95>	11/29/2011	8.77	41.18	61	<50	<0.5	<0.5	<0.5	<1.0	8.4	ND
VE-1	12/01/2005	5.19	45.56	540	140	26	13	4.5	15	250	-
<50.75>	03/07/2006	2.81	47.94	-	55	5.2	1.4	2.3	4.5	230	-
	06/05/2006	5.37	45.38	490	180	30	4.6	5.8	8.2	410	-
	01/03/2007	4.92	45.83	250	82	8.4	1.5	1.7	2.6	320	-
AS-1	12/01/2005	8.11	42.24	-	<50	<0.5	0.81	<0.5	1.5	<5.0	-
<50.35>	01/03/2007	9.2	41.15	130	<50	<0.5	<0.5	<0.5	<0.5	98	-

Well Abandoned November 27 2007

Table 1
Groundwater Laboratory Analytical Results
Fidelity Roof Co. UST Site

Well ID	Date	GW Depth	GW Elev.	Concentration, micrograms per liter (ug/l)							
				TPH-D	TPH-G	B	T	E	X	MTBE	Oxy
AS-2	12/01/2005	9.64	40.87	–	<50	<0.5	<0.5	<0.5	<0.5	<5.0	–
<50.51>	01/03/2007	10.8	39.71	910	<50	<0.5	<0.5	<0.5	<0.5	<5.0	–
Well Abandoned November 27 2007											
DP-1	12/01/2005	7.22	42.74	–	220	<0.5	2.8	<0.5	0.94	<5.0	–
<49.96>	03/07/2006	4.4	45.56	–	<50	<0.5	0.71	<0.5	1.1	<5.0	–
	06/13/2006	7.99	41.97	67	<50	<0.5	<0.5	<0.5	<0.5	<5.0	–
	01/03/2007	7.12	42.84	93	<50	<0.5	<0.5	<0.5	<0.5	<5.0	–
	06/13/2007	8.92	41.04	<500	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	09/12/2007	9.95	40.01	<50	100	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	12/5/2007	9.98	39.98	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	03/04/2008	6.49	43.47	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	05/22/2008	9.73	40.23	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	09/10/2008	10.51	39.45	<50	75	<0.5	<0.5	<0.5	<1.0	2.1	ND
	11/25/2008	9.83	40.13	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	02/26/2009	5.66	44.30	<50	<50	<0.5	0.99	1.3	4.7	<1.0	ND
	05/29/2009	8.49	41.47	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	11/18/2009	9.27	40.69	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	05/12/2010	7.43	42.53	<50	<50	<0.5	0.77	<0.5	<1.0	<1.0	ND
	10/27/2010	9.37	40.59	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	05/19/2011	7.37	42.59	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	11/29/2011	7.84	42.12	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
DP-2	12/01/2005	6.83	43.34	–	<50	<0.5	<0.5	<0.5	<0.5	59	–
<50.17>	03/07/2006	6.09	44.08	–	230	1.2	2.6	<0.5	1.2	<10	–
	06/13/2006	7.98	42.19	110	280	<0.5	1.2	<0.5	0.67	<5.0	–
	01/03/2007	7.45	42.72	77	170	<0.5	<0.5	<0.5	<0.5	<5.0	–
	06/13/2007	8.39	41.78	<500	75	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	09/12/2007	9.84	40.33	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	12/5/2007	9.57	40.60	<50	76	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	03/04/2008	7.03	43.14	<50	60	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	05/22/2008	10.27	39.90	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	09/10/2008	10.52	39.65	<50	96	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	11/25/2008	9.58	40.59	59	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	02/26/2009	6.18	43.99	<50	<50	<0.5	1.0	1.3	5.0	<1.0	ND
	05/26/2009	8.46	41.71	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	11/18/2009	9.46	40.71	<50	85	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	05/12/2010	7.71	42.46	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	10/27/2010	9.94	40.23	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	05/19/2011	7.95	42.22	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	11/29/2011	8.62	41.55	<50	100	<0.5	<0.5	<0.5	<1.0	<1.0	ND
DP-3	12/01/2005	7.14	43.31	–	120	2.1	0.96	<0.5	0.78	140	–
<50.45>	03/07/2006	6.62	43.83	–	<50	<0.5	<0.5	<0.5	<0.5	260	–
	06/13/2006	9.34	41.11	88	220	0.57	0.83	<0.5	<0.5	67	–
	06/13/2006	10.53	39.92	110	78	<0.5	1.1	<0.5	0.98	45	–

Table 1
Groundwater Laboratory Analytical Results
Fidelity Roof Co. UST Site

Well ID	Date	GW Depth	GW Elev.	Concentration, micrograms per liter (ug/l)							
				TPH-D	TPH-G	B	T	E	X	MTBE	Oxy
	01/03/2007	8.92	41.53	150	<50	0.60	<0.5	<0.5	<0.5	<5.0	-
	06/13/2007	10.10	40.35	<500	<50	<0.5	<0.5	<0.5	<1.0	22	ND
	09/12/2007	10.87	39.58	<50	<50	<0.5	<0.5	<0.5	<1.0	36	ND
Well Abandoned November 27 2007											
DP-4	12/01/2005	8.43	42.42	ns	ns	ns	ns	ns	ns	ns	-
<50.85>	03/07/2006	7.19	43.66	--	2,400	570	3.2	38	0.94	310	-
	06/13/2006	8.71	42.14	250	1,100	210	2.0	9.2	1.2	330	-
	06/13/2006	9.56	41.29	210	810	190	1.4	11	0.98	190	-
	01/03/2007	8.33	42.52	260	1,500	210	4.1	11	0.54	200	-
	06/13/2007	9.39	41.46	<500	370	10	<0.5	2.2	<1.0	85	13=TBA
	09/12/2007	10.21	40.64	<500	660	33	<0.5	0.58	<1.0	62	14=TBA
Well Abandoned November 27 2007											
DP-5	12/01/2005	4.69	45.92	na	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-
<50.61>	03/07/2006	2.33	48.28	na	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-
	06/13/2006	5.03	45.58	140	<50	<0.5	<0.5	<0.5	<0.5	5.4	-
	01/03/2007	4.98	45.63	240	<50	<0.5	<0.5	<0.5	<0.5	5.5	-
	06/13/2007	4.33	46.28	<500	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
	09/12/2007	4.96	45.65	<500	<50	<0.5	<0.5	<0.5	<1.0	<1.0	ND
Well Abandoned November 27 2007											
DP-6	12/01/2005	5.91	44.77	-	7,000	1000	7.8	860	230	<120	-
<50.68>	03/07/2006	7.11	43.57	-	6,500	850	5.9	650	350	<160	-
	06/13/2006	8.73	41.95	1,500	3,100	250	1.2	270	120	28	-
	09/18/2006	9.69	40.99	570	840	70	1.3	77	4.5	<10	-
	01/03/2007	7.98	42.70	1,700	2,400	270	3.9	160	30	21	-
	06/13/2007	8.43	42.25	1,100	1,900	310	0.51	200	26.9	15	ND
	09/12/2007	10.14	40.54	1,300	2,800	500	1.3	380	60	20	ND
Well Abandoned November 27 2007											

Notes:

ug/l= micrograms per liter
 GW Elev = Groundwater mean sea level elevation.
 TPH-D = Total Petroleum Hydrocarbons as diesel
 TPH-G = Total Petroleum Hydrocarbons as gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene

X = Xylenes
 MTBE = Methyl Tertiary Butyl Ether
 Oxy = Oxygenates (except MTBE), including Ter-Butanol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME)
 ND = Not detected above the expressed value
 <50.99> = Top of casing mean sea level elevation (Morrow Surveying, 01/22/2007).

**Table 4: Groundwater Sample Analytical Data - Fuel Oxygenates
Fidelity Roof Company, 1075 40th Street, Oakland, California**

Well ID	Date	TAME (µg/L)	TBA (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	MTBE (µg/L)
MW-1	06/08/04	ND<0.5	ND<5.0	ND<0.5	1.5	ND<0.5	ND<0.5	1.0
	09/10/04	ND<0.5	ND<5.0	ND<0.5	NA	ND<0.5	ND<0.5	1.0
	12/13/04			Not analyzed, MTBE analyzed by 8021B				
	03/11/05			Not analyzed, MTBE analyzed by 8021B				
MW-2	06/08/04	ND<100	ND<1000	ND<100	ND<100	ND<100	ND<100	4,300
	09/10/04	ND<50	ND<500	ND<50	ND<50	ND<50	ND<50	2,800
	12/13/04			Not analyzed, MTBE analyzed by 8021B				
	03/11/05			Not analyzed, MTBE analyzed by 8021B				
MW-3	06/08/04	ND<5.0	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	99
	09/10/04	ND<100	ND<1000	ND<100	ND<100	ND<100	ND<100	ND<100
	03/11/05			Not analyzed, MTBE analyzed by 8021B				
MW-4	06/08/04	ND<0.5	ND<5.0	ND<0.5	0.79	ND<0.5	ND<0.5	15
	09/10/04	ND<0.5	ND<5.0	ND<0.5	NA	ND<0.5	ND<0.5	8.2
	12/13/04			Not analyzed, MTBE analyzed by 8021B				
	03/11/05			Not analyzed, MTBE analyzed by 8021B				

Notes:

(µg/L)	micrograms per liter	1,2-DCA	1,2-Dichloroethane
TAME	tert-Amyl methyl ether	DIPE	Diisopropyl ether
TBA	t-Butyl alcohol	ETBE	Ethyl tert-butyl ether
EDB	1,2-Dibromethane	MTBE	Methyl Tertiary Butyl Ether

Table 1:
Groundwater Sample Analytical Results
November 4, 1998

Sample ID	Consulting Laboratory	TPH (µg/L)	TPH (ppb)	MDEH (µg/L)	Benzene (µg/L)	Toluene (µg/L)	ETHYLENE GLYCOL (µg/L)	Xylene (µg/L)
SB-1	AEI/SAI-MAI	<50	2,400	<20	<0.5	<0.5	<0.5	<1.5
SB-2	AEI/SAI	<50	<50	<20	<0.5	<0.5	<0.5	<1.5
SB-4	AEI/SAI	<50	<50	<20	<0.5	<0.5	<0.5	<1.5
SB-5	AEI/SAI	<50	<50	<20	<0.5	<0.5	<0.5	<1.5
SB-6	AEI/SAI	<50	<50	<20	<0.5	0.6	<0.5	<1.5
MDL		50	50	20	0.5	0.5	0.5	1.5

MDL = Method Detection Limit

TPH = Total Petroleum Hydrocarbons

ND = Not detected above the Method Detection Limit

µg/L = micrograms per liter (ppb)

AEI = All Environmental, Inc.

SAI = SunStar Analytical, Inc., Tustin, California

MAI = McCampbell Analytical, Inc., Pacheco, California

Table 1
SOIL AND GROUNDWATER HYDROCARBON ANALYTICAL RESULTS
 Fidelity Roof Co UST Site

Sample ID	Sample Matrix	Sample Depth	Concentration, Soil: milligrams per kilogram (mg/kg); Water: micrograms per liter (ug/l)						
			TPH-D	TPH-G	B	T	E	X	Oxygenates
B-1-8.0'	soil	8.0 feet	47	3.2	0.038	<0.0050	0.042	0.0067	All ND
B-1-12.0'	soil	12.0 feet	16	18	0.28	<0.0050	0.51	0.057	All ND
B-1-16.0'	soil	16.0 feet	<5.0	2.1	0.077	<0.0050	0.032	<0.0050	All ND
B-1-GW	water	(8.0 feet)	<500	<50	2.8	<0.50	1.4	5.7	9.4 MTBE
B-2-8.0'	soil	8.0 feet	25	170	0.087	0.010	1.3	8.5	1.4 MTBE 0.34 TBA
B-2-12.0'	soil	12.0 feet	15	6.2	1.1	<0.0050	0.15	0.12	6.5 MTBE 0.56 TBA
B-2-16.0'	soil	16.0 feet	18	11	1.1	<0.0050	0.22	0.77	3.8 MTBE 0.26 TBA
B-2-GW	water	(8.0 feet)	<500	320	4.6	0.51	4.6	35.6	180 MTBE
B-3-8.0'	soil	8.0 feet	410	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	All ND
B-3-GW	water	(8.0 feet)	750	<50	0.93	<0.50	<0.50	<0.10	11 MTBE
B-4-8.0'	soil	8.0 feet	260	1.6	0.044	0.0052	0.039	0.25	0.14 MTBE
B-4-12.0'	soil	12.0 feet	<5.0	7.8	0.013	<0.0050	0.0074	<0.0050	0.25 MTBE
B-4-16.0'	soil	16.0 feet	<5.0	6.0	0.26	<0.0050	0.16	0.0085	0.41 MTBE
B-4-GW	water	(8.0 feet)	<500	<50	1.2	<0.50	<0.50	1.0	9.4 MTBE
ESL, soil, drinking water, Res & CI			83	83	0.044	2.9	3.3	2.3	0.023 MTBE 4.4 TBA
ESL, soil, non-drinking water, CI			450	150	0.26	29	33	100	8.4 MTBE 310 TBA
ESL, groundwater, drinking water, Res & CI			100	100	1.0	40	30	20	5.0 MTBE NE TBA
ESL, groundwater, non-drinking water, Res & CI			2,500	5,000	540	400	300	5,300	1,800 MTBE 50,000 TBA
ESL, groundwater, vapor intrusion, Res			NE	NE	42	31,000	100,000	10,000	4,700 MTBE NE TBA

TPH-D = Total Petroleum Hydrocarbons as Diesel
 TPH-G = Total Petroleum Hydrocarbons as Gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 Oxygenates = Methyl-tert-Butyl Ether (MTBE), Ter-Butyl Alcohol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME).

<0.0050 = Not detected above the expressed value.
 ESL = Environmental Screening Level, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, November 2007.
 Res = Residential land use
 CI = Commercial/Industrial land use

Table 3
EXTRACTED GROUNDWATER ANALYTICAL RESULTS
 Fidelity Roof Company UST Site

<i>Sample ID</i>	Concentration, micrograms per liter (ug/L, or ppb)					
	<i>TPH-D</i>	<i>TPH-G</i>	<i>B</i>	<i>T</i>	<i>E</i>	<i>X</i>
VH-2	440	240	<1.0	<1.0	<1.0	8.0
ESL, groundwater, drinking water, Res & CI	100	100	1.0	40	30	20
ESL, groundwater, non-drinking water, Res & CI	2,500	5,000	540	400	300	5,300
ESL, groundwater, vapor intrusion, Res	NE	NE	42	31,000	100,000	10,000

TPH-D = Total Petroleum Hydrocarbons as Diesel
 TPH-G = Total Petroleum Hydrocarbons as Gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 <0.0050 = Not detected above the expressed value.

ESL = Environmental Screening Level, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, November 2007.
 Res = Residential land use
 CI = Commercial/Industrial land use
 NE = Not Established

Table 1
SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Soil Concentration: milligrams per kilogram (mg/kg), Groundwater Concentration: micrograms per kilogram (ug/L)							
			TPH-G	B	T	E	X	MTBE	TBA	OXY
GA-1-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-1-11.5	Soil	11.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-1-15.0	Soil	15.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.023	<0.050	ND
GA-1-18.0	Soil	18.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.021	<0.050	ND
GA-1-27.0	Soil	27.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-1-29.5	Soil	29.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-1-W	Water	(25-30 feet)	<50	<0.50	1.8	<0.50	3.2	26	<10	ND
GA-2-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-2-17.5	Soil	17.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.220	<0.050	ND
GA-2-27.0	Soil	27.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.045	<0.050	ND
GA-2-W16-22	Water	(16-22 feet)	250	<0.50	2.4	<0.50	3.28	1,600	<10	ND
GA-2-W28-30	Water	(28-30 feet)	250	1.4	3.7	0.64	6.3	1,600	<10	ND
GA-3-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-15.0	Soil	15.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-23.5	Soil	23.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-26.0	Soil	26.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-29.5	Soil	29.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-34.5	Soil	34.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-39.5	Soil	39.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-W-15-20	Water	(15-20 feet)	<50	<0.50	3.1	0.65	3.9	3.4	<10	ND
GA-3-W-30-40	Water	(30-40 feet)	<50	<0.50	0.61	<0.50	<1.0	1.1	<10	ND
GA-4-19.5	Soil	19.5 feet	7.9	0.13	<0.005	0.072	0.046	0.89	2.5	ND
GA-4-21.0	Soil	21.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-4-23.5	Soil	23.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.079	0.053	ND
GA-4-W-20-24	Water	(20-24 feet)	160	100	2.9	15	13.2	1,000	350	ND
GA-5-W-25-30	Water	(25-30 feet)	<50	7.7	<0.50	2.3	<2.8	31	<28	2.5
GA-6-19.0	Soil	19.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-6-22.0	Soil	22.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-6-27.0	Soil	27.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-6-W	Water	(18-28 feet)	<50	<0.50	<0.50	<0.50	<1.0	4.6	<10	ND

Table 1
SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Soil Concentration: milligrams per kilogram (mg/kg), Groundwater Concentration: micrograms per kilogram (ug/L)							
			TPH-G	B	T	E	X	MTBE	TBA	OXY
GA-7-17.5	Soil	17.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-7-22.0	Soil	22.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
<i>GA-7-W</i>	<i>Water</i>	<i>(18-28 feet)</i>	<i><50</i>	<i><0.50</i>	<i><0.50</i>	<i><0.50</i>	<i><1.0</i>	<i><1.0</i>	<i><10</i>	<i>ND</i>
GA-8-16.5	Soil	16.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-8-22.0	Soil	22.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-8-27.5	Soil	27.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
<i>GA-8-W</i>	<i>Water</i>	<i>(18-28 feet)</i>	<i><50</i>	<i><0.50</i>	<i><0.50</i>	<i><0.50</i>	<i><1.0</i>	<i><1.0</i>	<i><10</i>	<i>ND</i>
MW-7-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-11.0	Soil	11.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-15.5	Soil	15.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-19.5	Soil	19.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
<i>MW-7</i>	<i>Water</i>	<i>(5-20 feet)</i>	<i><50</i>	<i><0.50</i>	<i><0.50</i>	<i><0.50</i>	<i><1.0</i>	9.6	<i><10</i>	<i>ND</i>
Shallow Soil ESL, groundwater IS a drinking water source, commercial land use			83	0.044	2.9	3.3	2.3	0.075	0.075	0.023
<i>Groundwater ESL, groundwater IS a drinking water source, commercial land use.</i>			100	1.0	40	30	20	12	12	5.0

Table Notes:

TPH-D = total petroleum hydrocarbons as diesel
 TPH-G = total petroleum hydrocarbons as gasoline
 MTBE = Methyl tert-butyl ether
 <1.0 = Not detected above the expressed detection level.
 All ND = No detectable concentrations of full list of constituents

ESL = Environmental Screening Levels, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, May 2008.

Table 2
SUMMARY OF SOIL VAPOR LABORATORY ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Constituent Concentration, micrograms per cubic meter (ug/m ³)					
			B	T	E	X	1,1-DFA	IP
Vapor Samples, May 5, 2011, Sampled from temporary vapor probes.								
VS-1	Vapor	1.5 feet	7.5	15	8.0	28.0	27,000	--
VS-2	Vapor	1.5 feet	6.9	19	7.1	23.9	26,000	--
VS-3	Vapor	0.5 feet	9.6	20	7.4	26.5	28,000	--

**Table 7: AS/SVE Pilot Test Air Sample Analytical Data
Fidelity Roof Company, 1075 40th Street, Oakland, California**

Sample ID	Date	Time	TPHg (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	Comments
VE1	5/20/2004	1020	16,000	ND<90	14	60	ND<5.0	25	VE
VE1-2	5/20/2004	1400	96	ND<2.5	ND<0.25	0.45	ND<0.25	0.23	VE/sparge
MW3	5/20/2004	1015	140,000	1,400	1,800	280	330	1,200	VE
MW-3-2	5/20/2004	1416	150,000	ND<2000	1,500	310	440	1,600	VE/sparge
MW-3-3-1	05/21/04	1035	83,000	ND<1000	1,100	110	ND<50	110	VE
MW-3-3-2	05/21/04	1230	74,000	590	1,000	160	120	380	VE/sparge
DP3-1	05/21/04	1040	150	ND<2.5	ND<0.25	2.0	0.60	1.5	VE
DP3-2	05/21/04	1300	490	ND<2.5	7.4	1.8	4.40	16	VE/sparge

Notes:

ug/L= micrograms per liter of air

MTBE = Methyl Tertiary Butyl Ether

TPHg = Total Petroleum Hydrocarbons as gasoline

Table 1
SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Soil Concentration: milligrams per kilogram (mg/kg), Groundwater Concentration: micrograms per kilogram (ug/L)							
			TPH-G	B	T	E	X	MTBE	TBA	OXY
GA-7-17.5	Soil	17.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-7-22.0	Soil	22.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-7-W	Water	(18-28 feet)	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	ND
GA-8-16.5	Soil	16.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-8-22.0	Soil	22.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-8-27.5	Soil	27.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-8-W	Water	(18-28 feet)	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	ND
MW-7-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-11.0	Soil	11.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-15.5	Soil	15.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-19.5	Soil	19.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7	Water	(5-20 feet)	<50	<0.50	<0.50	<0.50	<1.0	9.6	<10	ND
Shallow Soil ESL, groundwater IS a drinking water source, commercial land use			83	0.044	2.9	3.3	2.3	0.075	0.075	0.023
Groundwater ESL, groundwater IS a drinking water source, commercial land use.			100	1.0	40	30	20	12	12	5.0

Table Notes:

TPH-D = total petroleum hydrocarbons as diesel
 TPH-G = total petroleum hydrocarbons as gasoline
 MTBE = Methyl tert-butyl ether
 <1.0 = Not detected above the expressed detection level.
 All ND = No detectable concentrations of full list of constituents

ESL = Environmental Screening Levels, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, May 2008.

Table 2
SUMMARY OF SOIL VAPOR LABORATORY ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Constituent Concentration, micrograms per cubic meter (ug/m ³)					
			B	T	E	X	1,1-DFA	IP
Vapor Samples, May 5, 2011, Sampled from temporary vapor probes.								
VS-1	Vapor	1.5 feet	7.5	15	8.0	28.0	27,000	--
VS-2	Vapor	1.5 feet	6.9	19	7.1	23.9	26,000	--
VS-3	Vapor	0.5 feet	9.6	20	7.4	26.5	28,000	--

Table 2
SUMMARY OF SOIL VAPOR LABORATORY ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Constituent Concentration, micrograms per cubic meter (ug/m ³)					
			B	T	E	X	1,1-DFA	IP
Vapor Samples, June 10, 2011, Sampled from temporary vapor wells installed in hand auger borings.								
VS-1	Vapor	1.5 feet	<3.3	14	32	202	34,000	--
VS-2	Vapor	1.5 feet	<3.3	6.7	10	57	19,000	--
VS-3	Vapor	0.5 feet	<3.3	9.1	6.9	38.8	23,000	--
Vapor Samples, September 28, 2011, Sampled from temporary vapor wells installed in hand auger borings.								
SG-1	Vapor	4.5 feet	<3.3	26	6.3	37.7	--	1,800
SG-2	Vapor	4.5 feet	<160	<190	<220	<220	--	1,500
SG-3	Vapor	4.5 feet	Pulled water during purging no sample collected					
SHROUD	Vapor	--	<160	<190	<220	<220	--	57,000
ESL, shallow soil gas, residential			84	6,300	980	21,000	--	--

TPH-D = Total petroleum hydrocarbons as diesel
 TPH-G = Total petroleum hydrocarbons as gasoline
 B = Benzene, T = Toluene, E = Ethylbenzene, X = Xylenes
 1,1-DFA = 1,1-Difluoroethane (leak check compound)
 IP = Isopropyl Alcohol (leak check compound)
 <3.3 = Not detected above the expressed detection level.
 -- = Not analyzed for this analyte

ESL = Environmental Screening Level, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, May 2008.
 Res = Residential Land Use
 CI = Commercial/Industrial Land Use

ATTACHMENT 6

PROJECT: FIDELITY - Project No. 1449	LOG OF BOREHOLE: SB-1	
BORING LOC.: WEST OF EXCAVATION	ELEVATION, TOC: --	
DRILLING CONTRACTOR: GREGG DRILLING	START DATE: 9/12/96	END DATE: 9/12/96
DRILLING METHOD: DIRECT PUSH	TOTAL DEPTH: 20.0'	
DRILLING EQUIPMENT: GEOPROBE DRILL RIG	DEPTH TO WATER: 15.0'	
SAMPLING METHOD: 2" DRIVE SAMPLER	LOGGED BY: J.S. ANDERSON	
HAMMER WEIGHT and FALL: N/A	RESPONSIBLE PROFESSIONAL: JPD	

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES		COMMENTS
			SAMPLE NO.	INTERVAL BLOW COUNTS	
0.0	AB	0.0 - 0.6; Asphalt, 3" Aggregate Base.			
1					
2					
3					
4	CL	0.6 - 20.0; <u>Sandy Gravelly Clay</u> ; dark greenish gray, 5GY 4/1, low plasticity; gravel up to 1/8".	L-1		Hydrocarbon odor. 0.0 ppm
5					
6					
7					
8					
9					
10		0.6 - 20.0; <u>Sandy Gravelly Clay</u> (cont.); mod. yellowish brown 10YR 4/2 w/ grayish olive mottling.	L-2		Strong Hyd odor. >1000 ppm
11					
12					
13					
14					

PROJECT: FIDELITY - Project No. 1449

LOG OF BOREHOLE: SB-1

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES		COMMENTS
			SAMPLE NO.	INTERVAL BLOW COUNTS	
15	CL	0.6 - 20.0; <u>Sandy, Gravelly, Clay</u> (cont.)	L-3		Hyd. odor. Moist. 300 ppm ▼
16					
17					
18					
19					
20					No sample collected.
21		Borehole terminated at 20.0 feet. No generation of groundwater.			Borehole backfilled with cement grout.
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

PROJECT: FIDELITY - Project No. 1449		LOG OF BOREHOLE: SB-2	
BORING LOC.: NORTH OF EXCAVATION		ELEVATION, TOC: --	
DRILLING CONTRACTOR: GREGG DRILLING		START DATE: 9/12/96	END DATE: 9/12/96
DRILLING METHOD: DIRECT PUSH		TOTAL DEPTH: 20.0'	
DRILLING EQUIPMENT: GEOPROBE DRILL RIG		DEPTH TO WATER: 13.4'	
SAMPLING METHOD: 2" DRIVE SAMPLER		LOGGED BY: J.S. ANDERSON	
HAMMER WEIGHT and FALL: N/A		RESPONSIBLE PROFESSIONAL: JPD	

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES		COMMENTS
			SAMPLE NO.	BLOW COUNTS	
0.0 - 0.6	AB	Asphalt, 3" Aggregate Base.			
0.6 - 8.5	CL	Gravelly Clay; grayish brown, 5YR 3/2, low plasticity; gravel up to 1/8".	L-1		Hydrocarbon odor. 0.0 ppm
8.5 - 19.0		Sandy Clay; dark yellowish orange 10YR 6/6, gray mottling.	L-2		Strong Hyd odor. 800 ppm
					▼ 1215

PROJECT: FIDELITY - Project No. 1449

LOG OF BOREHOLE: SB-2

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES		COMMENTS
			SAMPLE NO.	INTERVAL BLOW COUNTS	
15	CL	8.5 - 19.0; <u>Sandy Clay (cont.)</u> ; moderate yellowish brown 10YR 4/2; medium plasticity	L-3		No odor. Moist.
19	SM	19.0 - 20.0; <u>Silty Sand</u> ; moderate yellowish brown 10YR 4/2; gravel up to 1/8".	L-4		No odor. Very moist.
20		Borehole terminated at 20.0 feet.			Borehole backfilled with cement grout.
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

PROJECT: FIDELITY - Project No. 1449		LOG OF BOREHOLE: SB-3	
BORING LOC.: EAST OF EXCAVATION		ELEVATION, TOC: --	
DRILLING CONTRACTOR: GREGG DRILLING		START DATE: 9/12/96	END DATE: 9/12/96
DRILLING METHOD: DIRECT PUSH		TOTAL DEPTH: 20.0'	
DRILLING EQUIPMENT: GEOPROBE DRILL RIG		DEPTH TO WATER: NA	
SAMPLING METHOD: 2" DRIVE SAMPLER		LOGGED BY: J.S. ANDERSON	
HAMMER WEIGHT and FALL: N/A		RESPONSIBLE PROFESSIONAL: JPD	

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES			COMMENTS
			SAMPLE NO.	INTERVAL	BLOW COUNTS	
0.0 - 0.6	AB	Asphalt, 3" Aggregate Base.				
0.6 - 20.0	CL	Silty Clay; grayish brown, 5YR 3/2, low plasticity.	L-1			No odor.
0.6 - 20.0		Silty Clay (cont.); dark yellowish orange 10YR 6/6 w/ olive gray mottling.	L-2			Strong Hyd odor. 50 ppm

PROJECT: FIDELITY - Project No. 1449

LOG OF BOREHOLE: SB-3

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES		COMMENTS
			SAMPLE NO.	INTERVAL BLOW COUNTS	
15	CL	0.6 - 20.0; <u>Silty Clay (cont.)</u> ; moderate yellowish brown 10YR 5/4.	L-3		No odor. Moist.
16					
17					
18					
19					
20		0.6 - 20.0; <u>Silty Clay (cont.)</u> ; moderate yellowish brown 10YR 5/4; gravel up to 1.8"..	L-4		No odor.
21		Borehole terminated at 20.0 feet.			Borehole backfilled with cement grout.
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

PROJECT: FIDELITY - Project No. 1449		LOG OF BOREHOLE: SB-4	
BORING LOC.: NORTH OF EXCAVATION		ELEVATION, TOC: --	
DRILLING CONTRACTOR: GREGG DRILLING		START DATE: 9/12/96	END DATE: 9/12/96
DRILLING METHOD: DIRECT PUSH		TOTAL DEPTH: 20.0'	
DRILLING EQUIPMENT: GEOPROBE DRILL RIG		DEPTH TO WATER: 13.0'	
SAMPLING METHOD: 2" DRIVE SAMPLER		LOGGED BY: J.S. ANDERSON	
HAMMER WEIGHT and FALL: N/A		RESPONSIBLE PROFESSIONAL: JPD	

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES		COMMENTS
			SAMPLE NO.	INTERVAL	
0.0 - 0.6	AB	Asphalt, 3" Aggregate Base.			
0.6 - 15.0	CL	Gravelly Clay; grayish brown, 5YR 3/2, low plasticity; gravel up to 1/8".	L-1		Slight Hyd. odor.
0.6 - 15.0		Gravelly Clay (cont.)	L-2		Slight Hyd. odor.
13.0					▼



PROJECT: FIDELITY - Project No. 1449

LOG OF BOREHOLE: SB-4

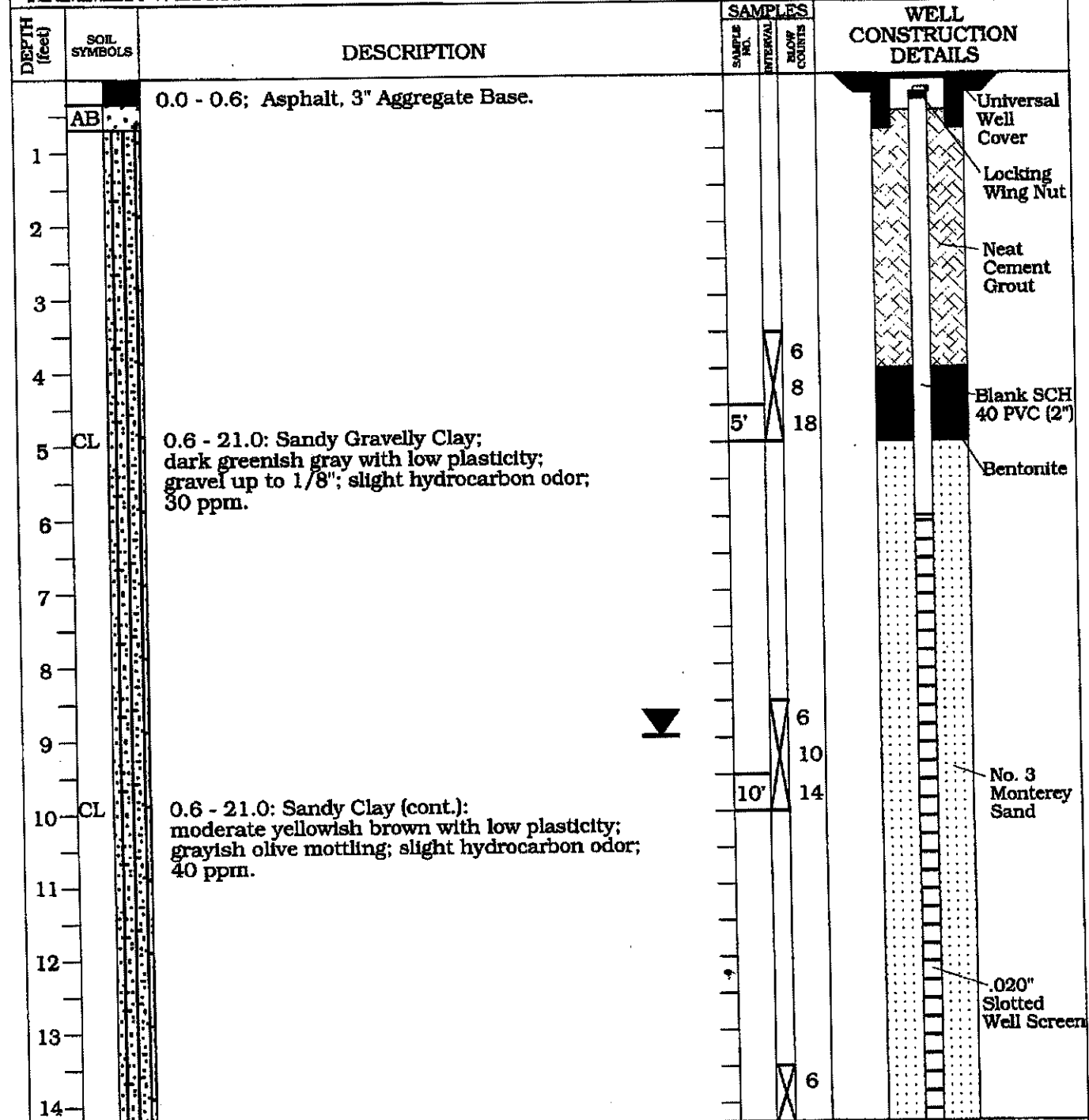
DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES		COMMENTS
			SAMPLE NO.	INTERVAL BLOW COUNTS	
15	CL	15.0 - 20.0; <u>Silty Clay</u> ; moderate yellowish brown 10YR 5/4; medium plasticity.	L-3		Slight odor.
16					
17					
18					
19		15.0 - 20.0; <u>Silty Clay (cont.)</u>			
20			L-4		Slight odor.
21		Borehole terminated at 20.0 feet.			Borehole backfilled with cement grout.
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

PROJECT: Fidelity Roof Co. #1540

LOG OF BOREHOLE: MW-1

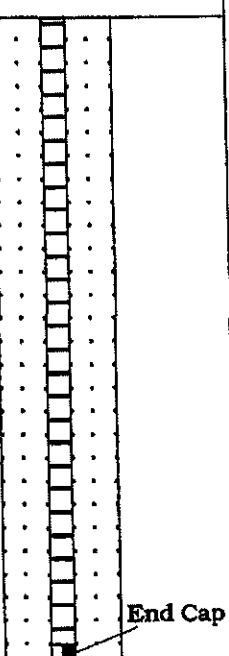
DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES		WELL CONSTRUCTION DETAILS
			SAMPLE NO.	BLOW COUNTS	
15	CL	0.6 - 21.0: Sandy Clay (cont.): moderate yellowish brown with low plasticity; grayish olive mottling; slight hydrocarbon odor; 30 ppm.	15'	7	
16			8		
17					
18					
19					
20	CL	0.6 - 21.0: Sandy Gravelly Clay (cont.): moderate yellowish brown with high plasticity; grayish olive mottling; slight hydrocarbon odor; 0 ppm.	20'	20	
21			25	40	
22		Terminated at 21.0'			End Cap
23					
24					
25					
26					
27					
28					
29					
30					
31					

PROJECT: Fidelity Roof Co. # 1540		LOG OF WELL NUMBER: MW-2	
BORING LOC.: REFER TO SITE PLAN		ELEVATION, TOC: 44.94'	
DRILLING CONTRACTOR: GREGG DRILLING		START DATE: 3/6/97	END DATE: 3/6/97
DRILLING METHOD: HOLLOW STEM AUGER		TOTAL DEPTH: 21'	SCREEN INT: 6'-21'
DRILLING EQUIPMENT: MOBILE B-53		DEPTH TO WATER: 9'	CASING: 2" PVC
SAMPLING METHOD: 2" DRIVE SAMPLER		LOGGED BY: BC	
HAMMER WEIGHT and FALL: 140 lb, 30"		RESPONSIBLE PROFESSIONAL: JPD	

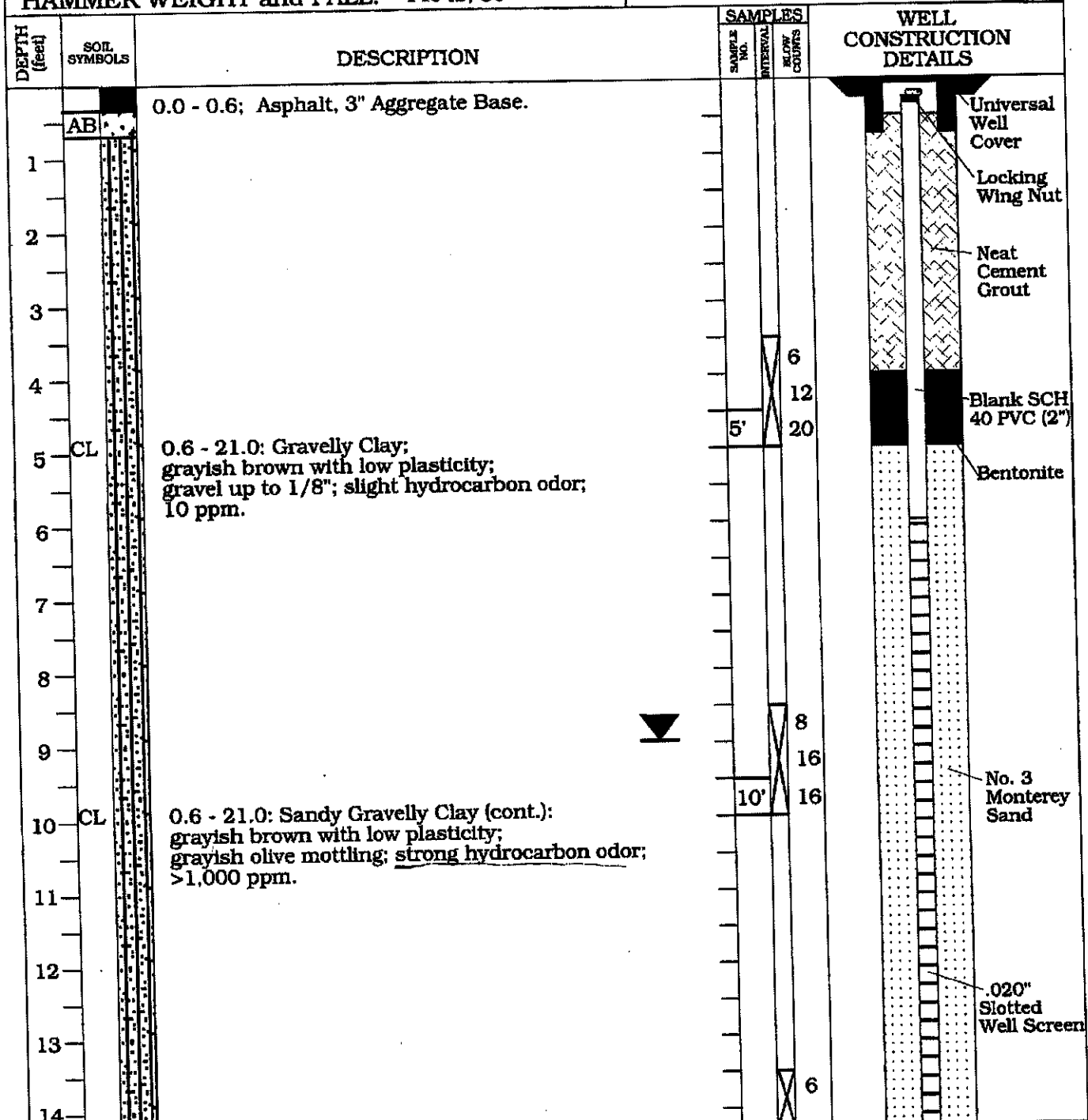


PROJECT: Fidelity Roof Co. #1540

LOG OF BOREHOLE: MW-2

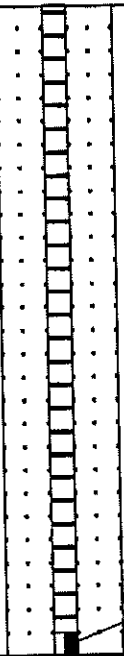
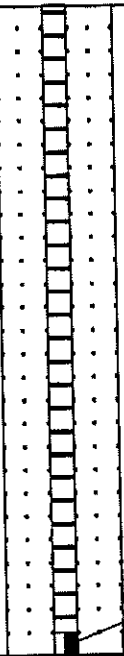
DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES		WELL CONSTRUCTION DETAILS
			SAMPLE NO.	INTERVAL BLOW COUNTS	
15	CL	0.6 - 21.0: Sandy Clay (cont.): moderate yellowish brown with low plasticity; grayish olive mottling; slight hydrocarbon odor; 40 ppm.	15'	12 15	
16					
17					
18					
19				10 18	
20	CL	0.6 - 21.0: Sandy Gravelly Clay (cont.): moderate yellowish brown with low plasticity; grayish olive mottling; slight hydrocarbon odor; 20 ppm.	20'	25	
21					
22		Terminated at 21.0'			
23					
24					
25					
26					
27					
28					
29					
30					
31					

PROJECT: Fidelity Roof Co. # 1540		LOG OF WELL NUMBER: MW-3	
BORING LOC.: REFER TO SITE PLAN		ELEVATION, TOC: 44.32'	
DRILLING CONTRACTOR: GREGG DRILLING		START DATE: 3/6/97	END DATE: 3/6/97
DRILLING METHOD: HOLLOW STEM AUGER		TOTAL DEPTH: 21'	SCREEN INT: 6'-21'
DRILLING EQUIPMENT: MOBILE B-53		DEPTH TO WATER: 9'	CASING: 2" PVC
SAMPLING METHOD: 2" DRIVE SAMPLER		LOGGED BY: BC	
HAMMER WEIGHT and FALL: 140 lb, 30"		RESPONSIBLE PROFESSIONAL: JPD	



PROJECT: Fidelity Roof Co. #1540

LOG OF BOREHOLE: MW-3

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES		WELL CONSTRUCTION DETAILS
			SAMPLE NO.	INTERVAL BLOW COUNTS	
15	CL	0.6 - 21.0: Sandy Clay (cont.): moderate yellowish brown with low plasticity; grayish olive mottling; slight hydrocarbon odor; 84 ppm.	15'	8 10	
16					
17					
18					
19					
20	CL	0.6 - 21.0: Sandy Gravelly Clay (cont.): moderate yellowish brown with low plasticity; grayish olive mottling; slight hydrocarbon odor; 8 ppm.	20'	8 15 20	 End Cap
21					
22		Terminated at 21.0'			
23					
24					
25					
26					
27					
28					
29					
30					
31					

Project No: 1893

Borehole #: SB-1

Date: 11/3/98

Project: FIDELITY ROOF CO



Total Depth: 16 FEET

Client: MONTY UPSHAW

Logged By: PJM

Location: 1075 40TH STREET

Responsible Professional JPD

SUBSURFACE PROFILE			SAMPLE			Well Data	Remarks
Depth	Symbol	Description	Number	Type	Blows/ft		
0		Ground Surface					
1		FILL Asphalt, gravel and sand					No odor, 0.0 ppm
2		SANDY CLAY Greenish grey clay with 5% sand with sands increasing with depth	SB-14'	SS	NA		
3							
4							
5							
6			SB-18'	SS	NA		Hydropunch 8 to 12 feet, No GW ? Hydropunch 12 to 16 feet, No GW PVC inserted to 16 feet Slow water generation
7							
8							
9							
10							
11							
12							
13							
14							
15							
16		End of Borehole					
17							
18							
19							
20							
21							
22							

Drilled By: VIRONEX

All Environmental, Inc.
901 Moraga Road, Suite C
Lafayette, CA 94549

Hole Size: 2"

Drill Type: GEOPROBE

Drill Method: DIRECT PUSH

Sheet: 1 of 1

Project No: 1893

Borehole #: SB-2

Date: 11/3/98

Project: FIDELITY ROOF CO


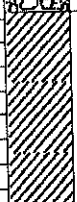
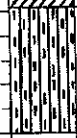
Total Depth: 15 FEET

Client: MONTY UPSHAW

Logged By: PJM

Location: 1075 40TH STREET

Responsible Professional JPD

SUBSURFACE PROFILE			SAMPLE			Well Data	Remarks
Depth	Symbol	Description	Number	Type	Blows/ft		
0		Ground Surface					
1		FILL Asphalt, gravel and sand					
2		SANDY CLAY Sandy clay, with gravel and 20% sand Medium grey, N5					0.0 ppm
3							
4			SB-2 4'	SS	NA		
5							
6		CLAYEY SAND Stiff clayey sand					
7							
8			SB-2 8'	SS	NA		
9							hydropunch to 12, no GW
10							
11							hydropunch to 15, no GW
12							PVC inserted to 15
13							Slow water generation
14							
15		End of Borehole					
16							
17							
18							
19							
20							
21							
22							

Drilled By: VIRONEX

All Environmental, Inc.
901 Moraga Road, Suite C
Lafayette, CA 94549

Hole Size: 2"

Drill Type: GEOPROBE

Drill Method: DIRECT PUSH

Sheet: 1 of 1

Project No: 1893

Borehole #: SB-3

Date: 11/3/98

Project: FIDELITY ROOF CO



Total Depth: 20 FEET

Client: MONTY UPSHAW

Logged By: PJM

Location: 1075 40 STREET

Responsible Professional: JPD

SUBSURFACE PROFILE			SAMPLE			Well Data	Remarks
Depth	Symbol	Description	Number	Type	Blows/ft		
0		Ground Surface					
1		SURFACE AND FILL Asphalt above sand and gravel					
2							
3		CLAY Stiff clay, greyish red to black with gravel to 15 mm and sand to 5%					
4			SB-3 4'	SS	NA		no odor
5							0.0 ppm
6							
7				SB-3 8'	SS	NA	
8							
9							
10							
11							
12							no GW generated
13							
14							
15							Hydropunch to 20
16							PVC inserted to 20
17							
18							No GW generated after 3 hrs
19							
20		End of Borehole					
21							
22							

VIRONEX VIRONEX

GEOPROBE GEOPROBE

DIRECT PUSH DIRECT PUSH

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Lafayette, CA 94549

2" 2"

Sheet 1 of 1

Project No: 1893

Borehole #: SB-4

Date: 11/3/98

Project: FIDELITY ROOF CO

Total Depth: 19 FEET

Client: MONTY UPSHAW

Logged By: PJM

Location: 1075 40TH STREET

Responsible Professional JPD

SUBSURFACE PROFILE			SAMPLE			Well Data	Remarks
Depth	Symbol	Description	Number	Type	Blows/ft		
0		Ground Surface					
1		FILL Asphalt, gravel and sand					
2		CLAY Dark grey clay with 5% sand, very stiff					
3							
4			SB-4 4'	SS	NA		0.0 ppm
5		SANDY SILT sandy silt with gravel up to 15 mm					
6							
7							
8			SB-4 8'	SS	NA		
9							hydropunch to 12, no GW
10							
11							
12							hydropunch to 19, no GW
13							PVC inserted to 19
14							Slow water generation
15							
16							
17							
18							
19							
20		End of Borehole					
21							
22							

Drilled By: VIRONEX

Drill Type: GEOPROBE

Drill Method: DIRECT PUSH

All Environmental, Inc.
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Lafayette, CA 94549

Hole Size: 2"

Sheet: 1 of 1

Project No: 1893

Borehole #: SB-5

Date: 11/3/98

Project: FIDELITY ROOF CO


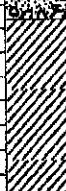
Total Depth: 20 FEET

Client: MONTY UPSHAW

Logged By: PJM

Location: 1075 40TH STREET

Responsible Professional JPD

SUBSURFACE PROFILE			SAMPLE			Well Data	Remarks
Depth	Symbol	Description	Number	Type	Blows/ft		
0		Ground Surface					
1		FILL Asphalt, gravel and sand					
2		CLAY Dark grey clay with 5% sand and gravel up to 10mm	SB-5 4'	SS	NA		0.0 ppm
3							No odor
4		SANDY CLAY Dark yellowish brown clay with sand and gravel up to 10mm (15% sand and gravel)	SB-5 8'	SS	NA		
5							
6							
7							
8							
9							
10							
11							
12						▼	Hydropunch to 12, No GW
13							
14							
15							Hydropunch to 20, PVC inserted
16							Dry after 1 hour
17							
18							
19							
20							
21		End of Borehole					
22							

Drilled By: VIRONEX

Drill Type: GEOPROBE

Drill Method: DIRECT PUSH

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Lafayette, CA 94549

Hole Size: 2"

Sheet: 1 of 1

Project No: 1893

Borehole #: SB-6

Date: 11/3/98

Project: FIDELITY ROOF CO

Total Depth: 20 FEET

Client: MONTY UPSHAW

Logged By: PJM

Location: 1075 40TH STREET

Responsible Professional JPD

SUBSURFACE PROFILE			SAMPLE			Well Data	Remarks
Depth	Symbol	Description	Number	Type	Blows/ft		
0		Ground Surface					
1		FILL					
2		Asphalt, gravel and sand					
3		CLAYEY SAND Light grey clayey sand with gravel					
4			SB-6 4'	SS	NA		
5							0.0 ppm
6							No odor
7		Color change to orange/brown					
8			SB-6 8'	SS	NA		
9							
10							
11							Hydropunch to 12, No GW
12							
13							
14							
15							Hydropunch to 16, No GW
16							
17							
18							Hydropunch to 20
19							Water Samples Collected
20							
21		End of Borehole					
22							

Drilled By: VIRONEX

All Environmental, Inc.
901 Moraga Road, Suite C
Lafayette, CA 94549

Hole Size: 2"

Drill Type: GEOPROBE

Drill Method: DIRECT PUSH

Sheet: 1 of 1

Project No: 3119





Sheet: 1 of 1

Project Name: FIDELITY

Log of Borehole: MW-4

Client: M. UPSHAW

Location: YERBA BUENA AVE.

Depth ft m	Soil Symbol	Subsurface Description	Sample Data				Well Data	Remarks
			Sample Label	Type	Blow Counts/	Recovery		
0		Ground Surface						
1		ASPHALT Asphalt and gravel fill						
2		CLAY Clay with silt and minor sand, damp, moderately plastic						
3								
4								
5							No hydrocarbon odor	
6			MW-4 5'	SS		100		
7		SILT Sandy silt with gravel up to 0.5 cm						
8								
9								
10							No hydrocarbon odor	
11			MW-4 10'	SS		100		
12		Coarse gravel up to 2 cm						
13								
14			MW-4 14'	SS		100	No hydrocarbon odor	
15								
16			MW-4 16'	SS		45	Saturated soil initially encounter at 15 feet bgs	
17		SAND Silty and clayey sand, with up to 50% coarse gravel up to 1.5 cm						
18								
19								
20		End of Borehole						
21								
22								

Drill Date 7/15/99

Reviewed by: JPD

All Environmental, Inc.
901 Moraga Road, Suite C
Lafayette, CA 94549
(800) 801-3224

Drill Method: HOLLOW AUGER

Logged by: PJM

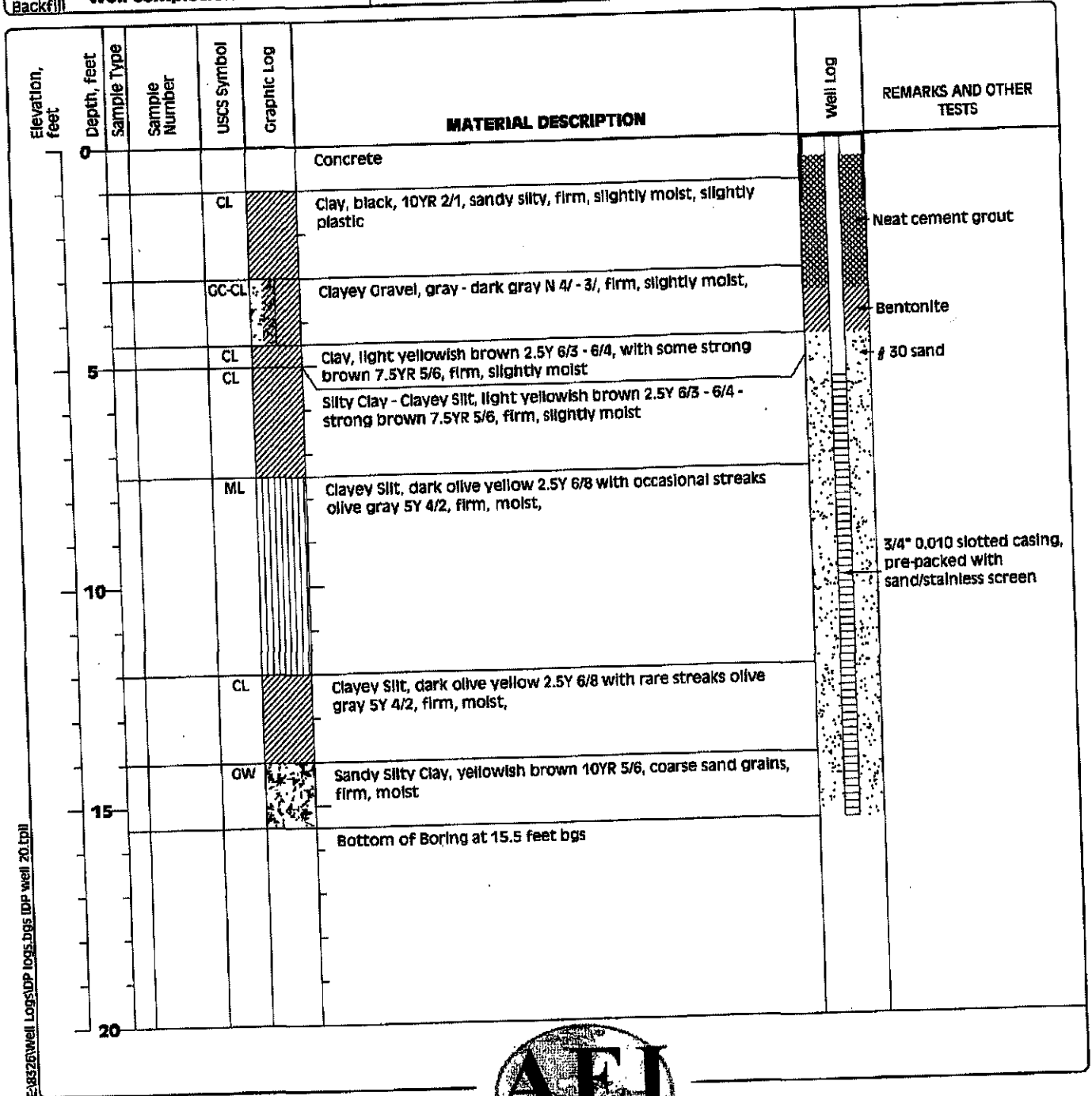
Total Depth: 20 ft.

Depth to Water: 15 ft.

Project: Fidelity Roof Company
Project Location: 1075 40th Street, Oakland, CA
Project Number: 8326

Log of Boring DP-1
 Sheet 1 of 1

Date(s) Drilled May 13, 2004	Logged By Robert F. Flory	Checked By Jeff Rosenberg
Drilling Method Direct push	Drill Bit 2.25" sampler, 1.25 Size/Type continuous core	Total Depth of Borehole 15.5 feet bgs
Drill Rig Type AMC 8530 Pro-D	Drilling Contractor Woodward Drilling	Approximate Surface Elevation
Groundwater Level and Date Measured Not Encountered ATD	Sampling Method(s) None	Well Permit.
Borehole Backfill Well Completion	Location	



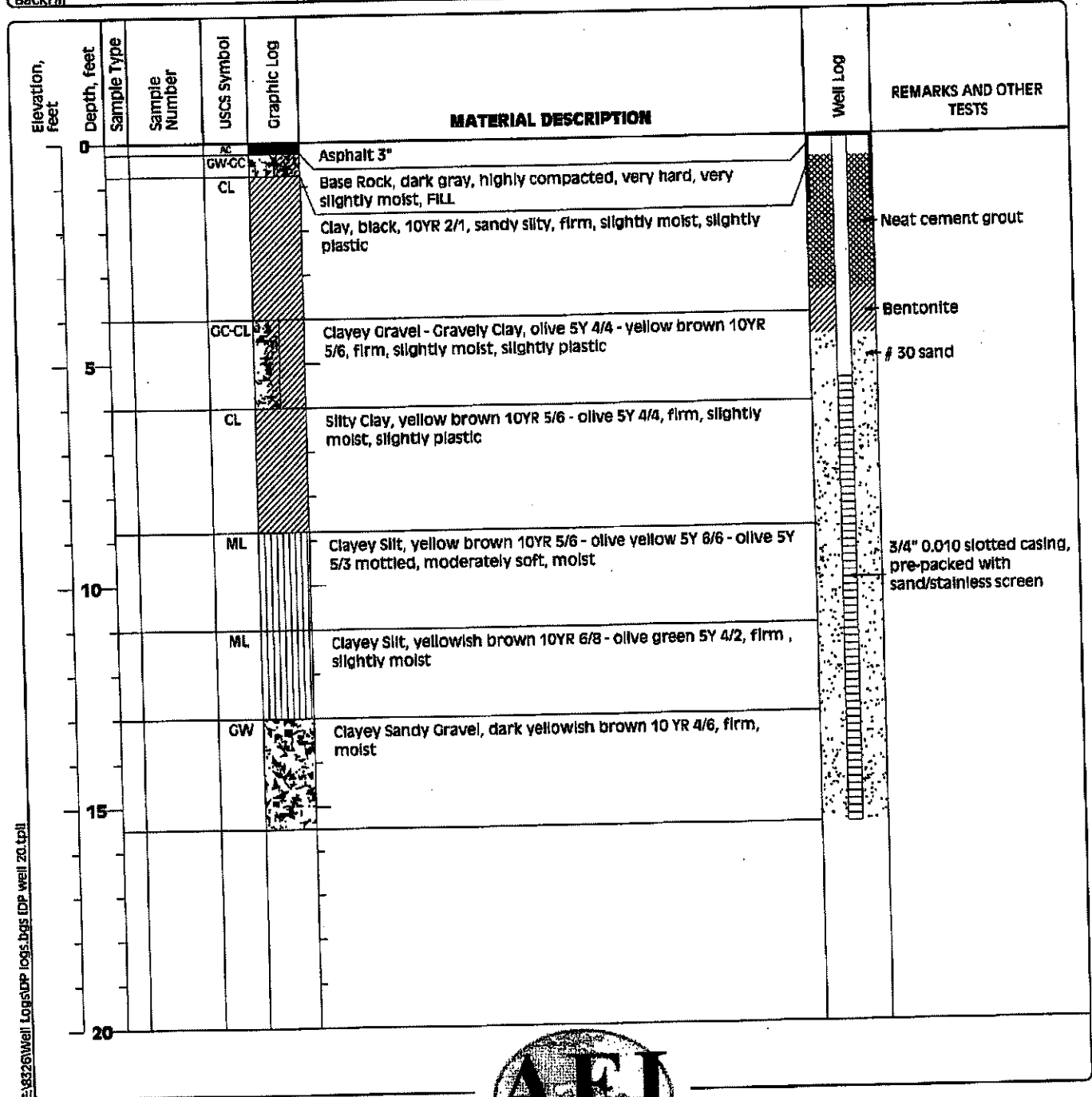
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Project: Fidelity Roof Company
Project Location: 1075 40th Street, Oakland, CA
Project Number: 8326

Log of Boring DP-2
 Sheet 1 of 1

Date(s) Drilled May 13, 2004	Logged By Robert F. Flory	Checked By Jeff Rosenberg
Drilling Method Direct push	Drill Bit 2.25" sampler, 1.25 Size/Type continuous core	Total Depth of Borehole 15.5 feet bgs
Drill Rig Type AMC 9530 Pro-D	Drilling Contractor Woodward Drilling	Approximate Surface Elevation
Groundwater Level and Date Measured Not Measured	Sampling Method(s) None	Well Permit.
Borehole Backfill Well Completion	Location	



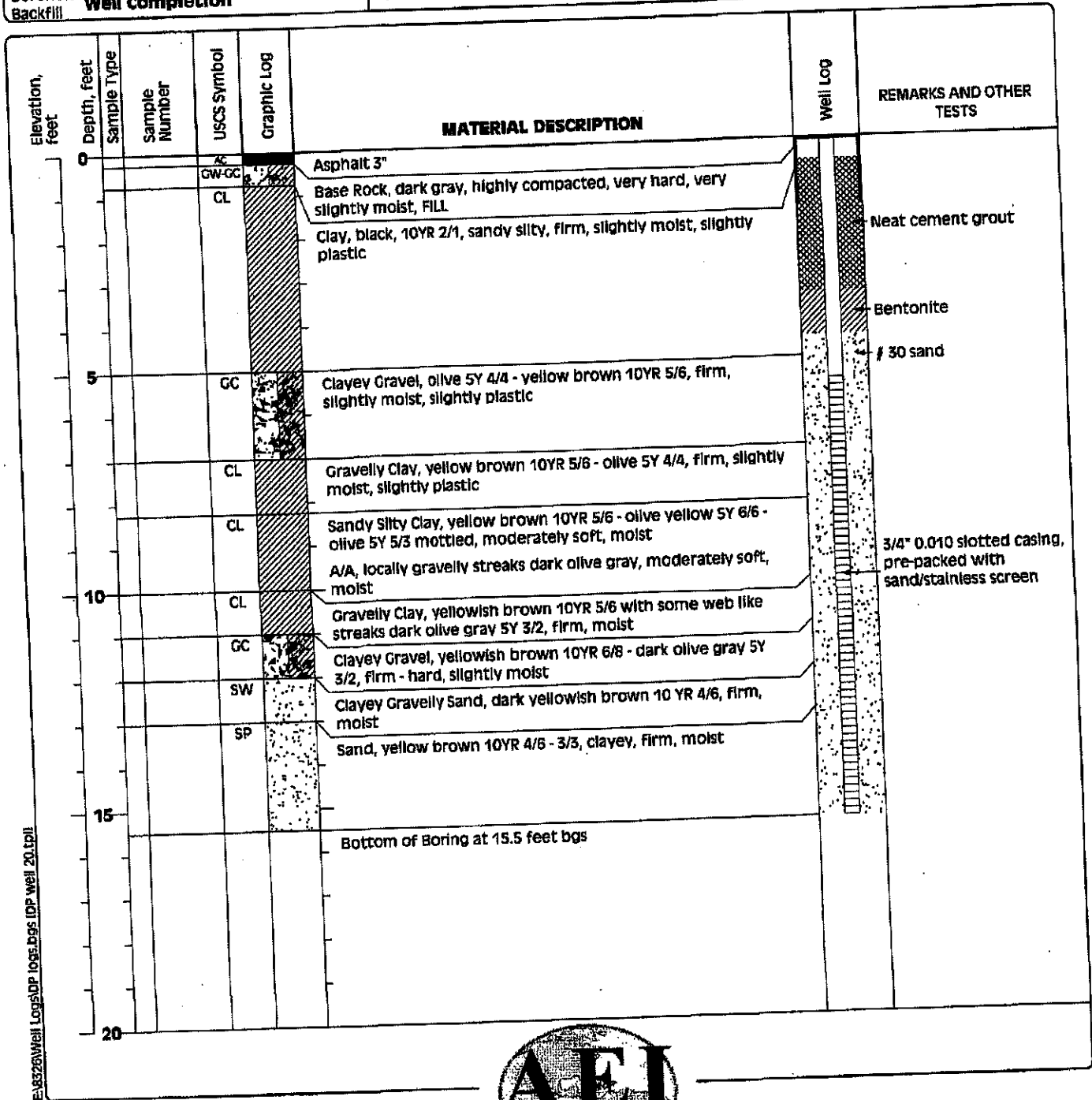
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Project: Fidelity Roof Company
Project Location: 1075 40th Street, Oakland, CA
Project Number: 8326

Log of Boring DP-3
 Sheet 1 of 1

Date(s) Drilled May 13, 2004	Logged By Robert F. Flory	Checked By Jeff Rosenberg
Drilling Method Direct push	Drill Bit Size/Type 2.25" sampler, 1.25 continuous core	Total Depth of Borehole 15.5 feet bgs
Drill Rig Type AMC 9530 Pro-D	Drilling Contractor Woodward Drilling	Approximate Surface Elevation
Groundwater Level Not Encountered and Date Measured ATD	Sampling Method(s) None	Well Permit.
Borehole Backfill Well completion	Location	



E:\8326\Well Logs\DP 1095.bgs IDP well 20.tpl



Project: Fidelity Roof Company
Project Location: 1075 40th Street, Oakland, CA
Project Number: 8326

Log of Boring DP-4
 Sheet 1 of 1

Date(s) Drilled: May 13, 2004	Logged By: Robert F. Flory	Checked By: Jeff Rosenberg
Drilling Method: Direct push	Drill Bit Size/Type: 2.25" sampler, 1.25 continuous core	Total Depth of Borehole: 15.5 feet bgs
Drill Rig Type: AMC 9530 Pro-D	Drilling Contractor: Woodward Drilling	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s): None	Well Permit.
Borehole Backfill: Well Completion	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Well Log	REMARKS AND OTHER TESTS
0				OW-GC		Asphalt 3"		
				CL		Base Rock, dark gray, highly compacted, very hard, very slightly moist, FILL		
						Clay, black, 10YR 2/1, sandy silty, firm, slightly moist, slightly plastic		Neat cement grout
	5			GC-CL		Clayey Gravel - Gravelly Clay, olive 5Y 4/4 - yellow brown 10YR 5/6, firm, slightly moist, slightly plastic		Bentonite
						Silty Clay, black - dark olive gray 5Y 3/2 - 5Y 2.5/1, firm, slightly moist, slight hydrocarbon odor		# 30 sand
				ML		Clayey Silt, dark olive gray 5Y 3/2 - 5Y 2.5/1, firm, slightly moist, slight hydrocarbon odor		
				CL		Silty Clay, olive gray - dark olive gray 5Y 4/2 - 3/2, locally sandy locally gravelly, firm, moist		
10				ML		Silty Clay, olive 5Y 5/4 - 5/6 - olive yellow 2.5Y 6/8, firm, slightly moist, firm, moist		
				CL		Silty Clay, olive yellow 2.5Y 6/8, firm, moist, firm, slightly moist		
				GC		Clayey Sandy Gravel, olive 5Y 4/3 - light olive brown 2.5Y 5/6 mottled, firm, slightly moist		
				GW		Very Clayey Sandy Gravel, olive 5Y 4/3 - light olive brown 2.5Y 5/6 mottled, firm, slightly moist		
15				GC		Clayey Gravel, yellowish brown 10YR 5/6, firm, moist		3/4" 0.010 slotted casing, pre-packed with sand/stainless screen
						Bottom of Boring at 15.5 feet bgs		

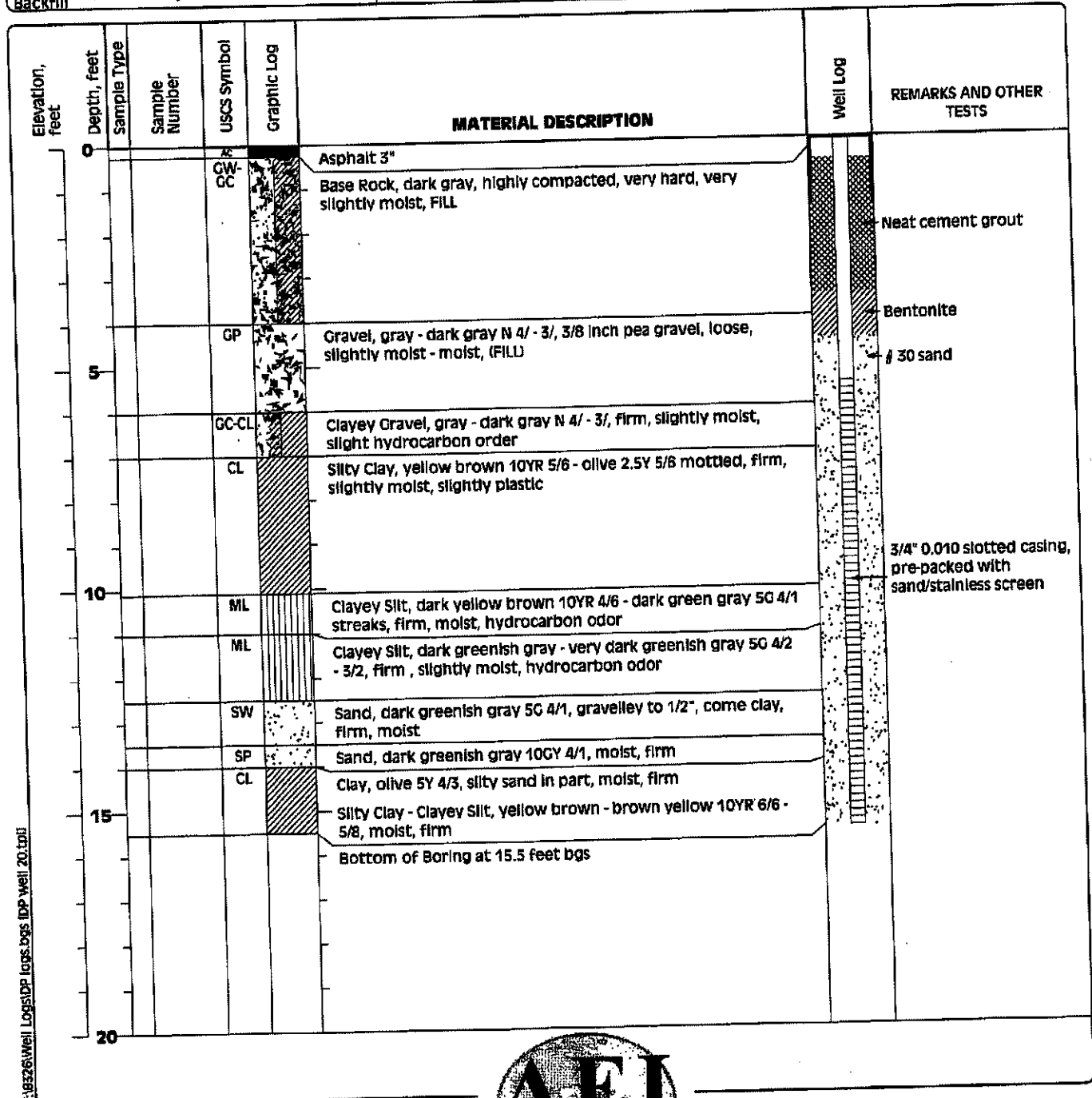
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Project: Fidelity Roof Company
Project Location: 1075 40th Street, Oakland, CA
Project Number: 8326

Log of Boring DP-5
 Sheet 1 of 1

Date(s) Drilled	May 12, 2004	Logged By	Robert F. Flory	Checked By	Jeff Rosenberg
Drilling Method	Direct push	Drill Bit Size/Type	2.25" sampler, 1.25 continuous core	Total Depth of Borehole	15.5 feet bgs
Drill Rig Type	AMC 9530 Pro-D	Drilling Contractor	Woodward Drilling	Approximate Surface Elevation	
Groundwater Level and Date Measured		Sampling Method(s)	None	Well Permit	
Borehole Backfill	Well Completion	Location			



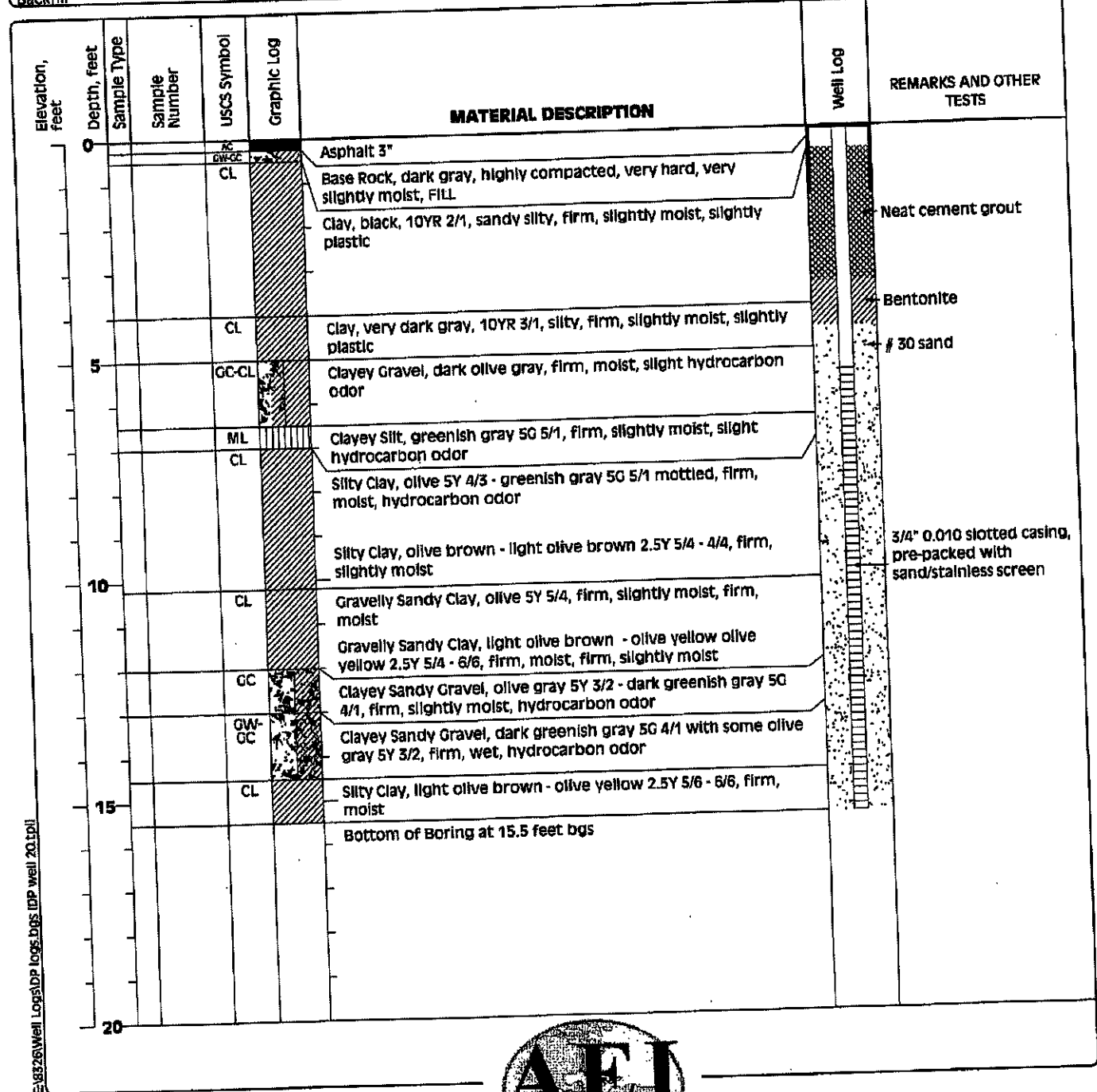
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Project: Fidelity Roof Company
Project Location: 1075 40th Street, Oakland, CA
Project Number: 8326

Log of Boring DP-6
 Sheet 1 of 1

Date(s) Drilled May 13, 2004	Logged By Robert F. Flory	Checked By Jeff Rosenberg
Drilling Method Direct push	Drill Bit Size/Type 2.25" sampler, 1.25 continuous core	Total Depth of Borehole 15.5 feet bgs
Drill Rig Type AMC 9530 Pro-D	Drilling Contractor Woodward Drilling	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) None	Well Permit.
Borehole Backfill Well Completion	Location	



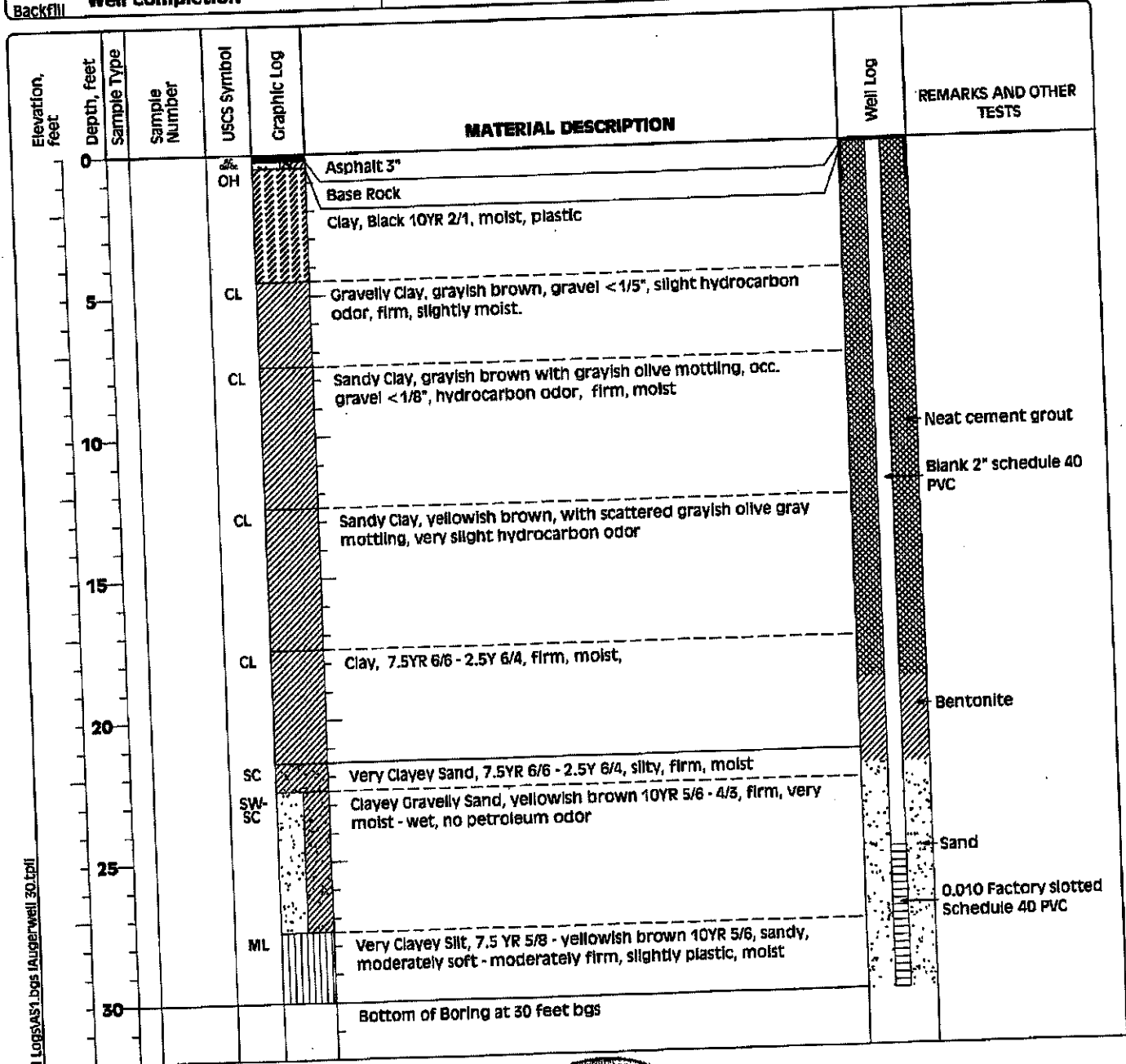
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Project: Fidelity Roof Company
Project Location: 1075 40th Street, Oakland, CA
Project Number: 8326

Log of Boring AS-1
 Sheet 1 of 1

Date(s) Drilled: May 6, 2004	Logged By: Robert F. Flory	Checked By: Jeff Rosenberg
Drilling Method: Hollow Stem Auger	Drill Bit Size/Type: 8 inch soil bit	Total Depth of Borehole: 30 feet bgs
Drill Rig Type: CME 75	Drilling Contractor: Woodward Drilling	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s): None	Hammer Data
Borehole Backfill: Well Completion	Location	



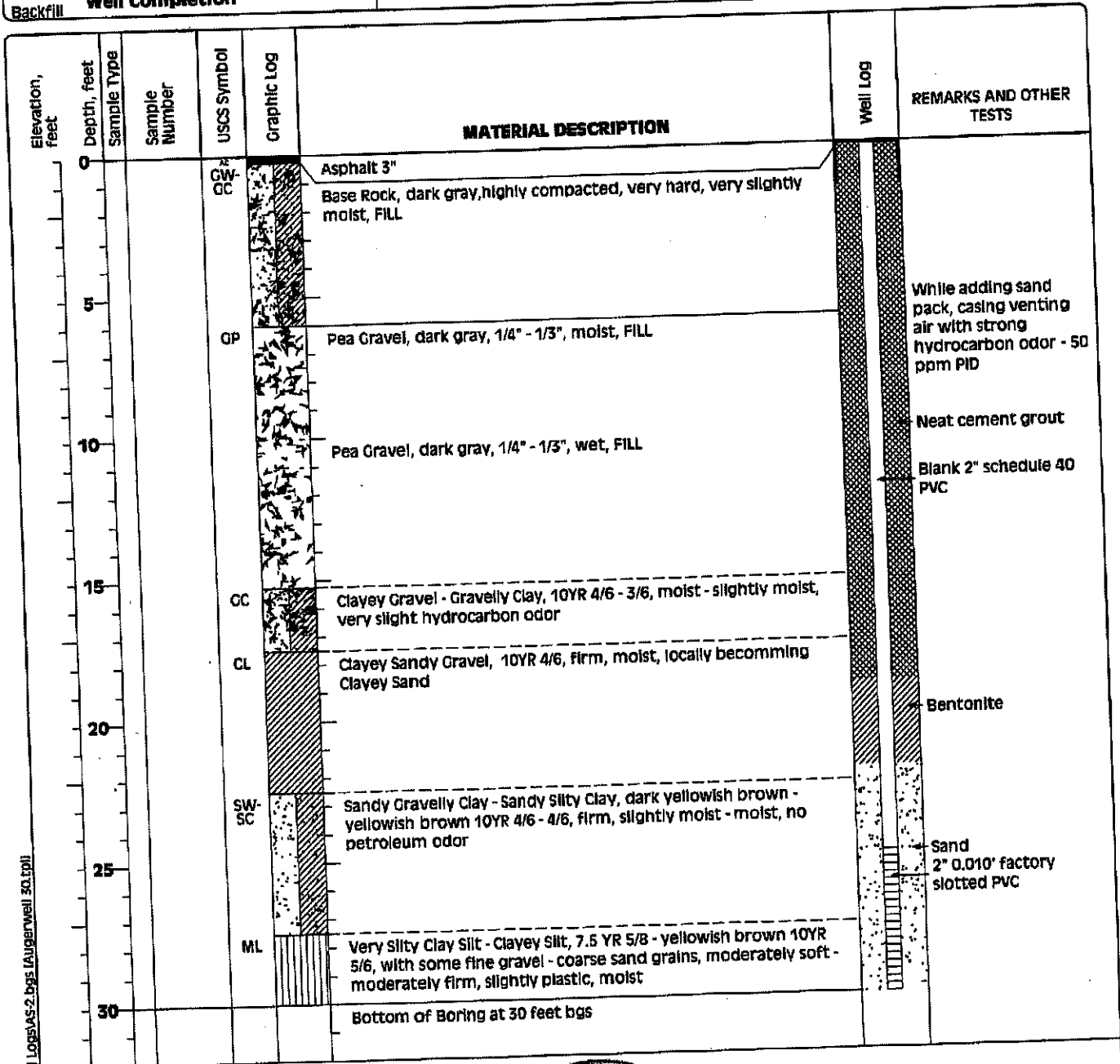
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Project: Fidelity Roof Company
Project Location: 1075 40th Street, Oakland, CA
Project Number: 8326

Log of Boring AS-2
 Sheet 1 of 1

Date(s) Drilled May 6, 2004	Logged By Robert F. Flory	Checked By Jeff Rosenberg
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 8 inch soil bit	Total Depth of Borehole 30 feet bgs
Drill Rig Type CME 75	Drilling Contractor Woodward Drilling	Approximate Surface Elevation Hammer Data
Groundwater Level and Date Measured	Sampling Method(s) None	
Borehole Backfill Well Completion	Location	



E:\8326\Well Logs\AS-2.bgs (AJR)rwel1 30.tbl



Project: Fidelity Roof Company
Project Location: 1075 40th Street, Oakland, CA
Project Number: 8326

Log of Boring VE-1
 Sheet 1 of 1

Date(s) Drilled: May 6, 2004	Logged By: Robert F. Flory	Checked By: Jeff Rosenberg
Drilling Method: Hollow Stem Auger	Drill Bit Size/Type: 8 inch soil bit	Total Depth of Borehole: 10 feet bgs
Drill Rig Type: CME 75	Drilling Contractor: Woodward Drilling	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s): None	Hammer Data
Borehole Backfill: Well Completion	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Well Log	REMARKS AND OTHER TESTS
0				GW-GC		Asphalt 3"		Neat cement grout
						Base Rock, dark gray, highly compacted, very hard, very slightly moist, FILL		4" sched 40 PVC casing
								Bentonite
	5			GP		Pea Gravel, dark gray, 1/4" - 1/3", moist, FILL		Sand
	10					Pea Gravel, dark gray, 1/4" - 1/3", wet, FILL		4" 0.020 factory slotted sched. 40 PVC
						Bottom of Boring at 10 feet bgs		

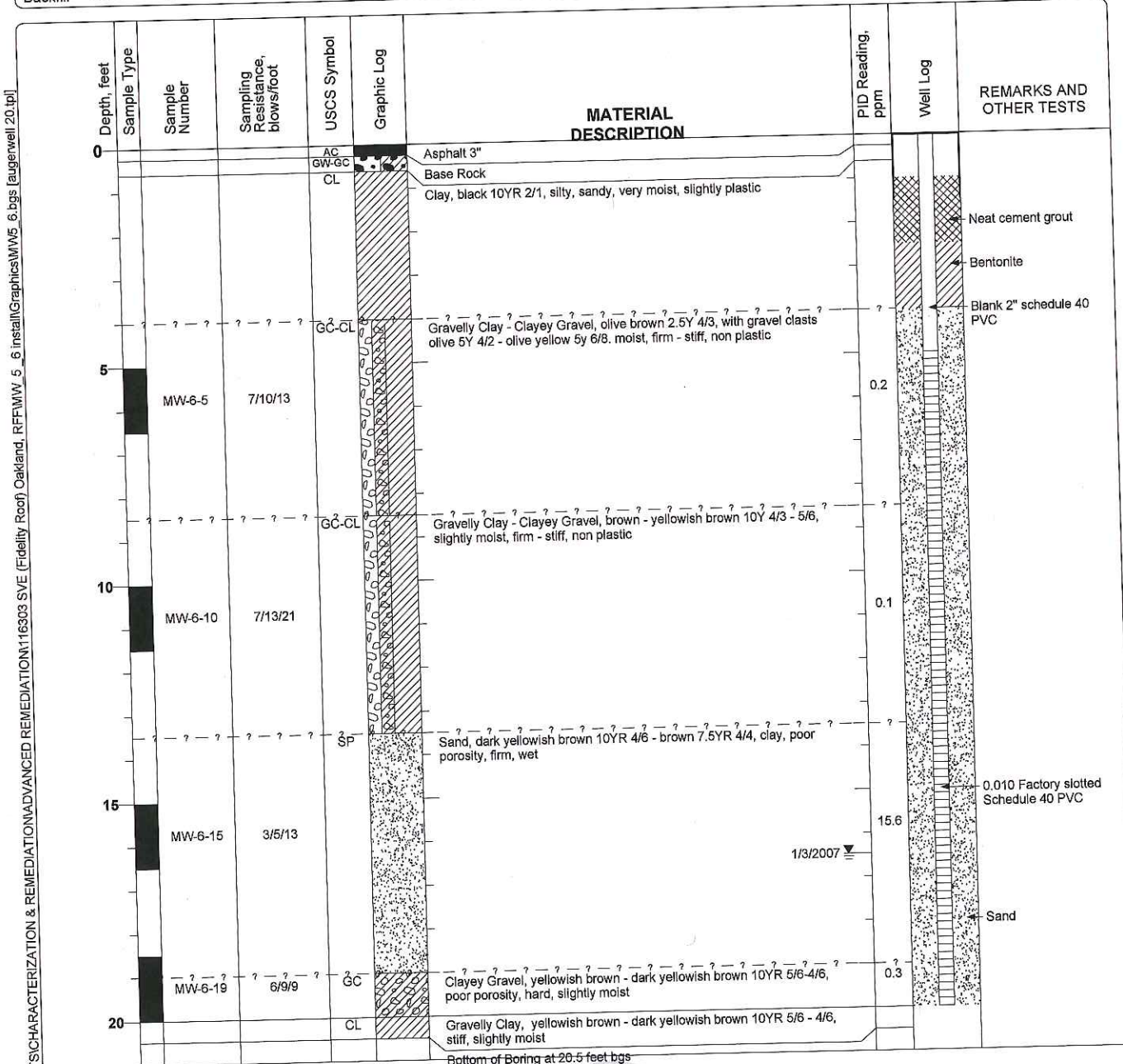
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Project: Fidelity Roof Company
 Project Location: 1075 40th Street, Oakland, CA
 Project Number: 116303

Log of Boring MW-5
 Sheet 1 of 1

Date(s) Drilled December 14, 2006	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 20.5 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW Drilling	Surface Elevation 51.32 feet MSL
Groundwater Level and Date Measured 16.47 feet measured on 1/3/2007	Sampling Method(s) ModCal	Permit # W2006-1013
Borehole Backfill Well Completion	Location	



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Project: Fidelity Roof Company
Project Location: 1075 40th Street, Oakland, CA
Project Number: 116303

Log of Boring MW-6
 Sheet 1 of 1

Date(s) Drilled December 14, 2006	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 8 1/4 inch Hollowstem	Total Depth of Borehole 20 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW Drilling	Surface Elevation 50.74 feet MSL
Groundwater Level and Date Measured 8.93 feet measured on 1/3/2007	Sampling Method(s) ModCal	Permit # W2006-1014
Borehole Backfill Well Completion	Location	

Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	Well Log	REMARKS AND OTHER TESTS
0				AC GW-GC CL		Asphalt 3" Base Rock			
				CL		Clay, very dark brown 10YR 2/2, silty, sandy, moist, stiff - slightly plastic			Neat cement grout
				CL		Sandy Clay, dark brown 10YR 3/2, moist, stiff - slightly plastic			Bentonite
				CL		Sandy Clay, very dark gray - dark brown 10YR 3/1-3/2, gravelly, moist, stiff with streaks bgs Clayey Gravel			Blank 2" schedule 40 PVC
5		MW-5-5	8/10/13	CL		Sandy gravelly Clay, brown 10YR 4/3 with abundant dark gray 10YR 4/1 - yellowish brown 10YR 6/8 clasts, moist, stiff - slightly plastic	0.1		
				CL		Silty Clay, yellowish brown, stiff, moist (auger returns)			Auger returns
				CL		Sandy Clay, olive brown 2.5Y 4/2-5/3, with some grayish brown 2.5Y 5/2 mottling, scattered fine gravel, stiff, moist	?		
10		MW-5-10	12/16/22	CL		Sandy Clay, strong brown, 7.5YR 5/6-5/8 with scattered dark gray 7.5YR 4/1 - black 7.5YR 2.5/1 splotches, moderately stiff, very moist, slightly plastic	0.1		
				CL		Sandy Clay, strong brown, 7.5YR 5/6-5/8 with scattered dark gray 7.5YR 4/1 - black 7.5YR 2.5/1 splotches, moderately stiff, very moist, slightly plastic	?		0.010 Factory slotted Schedule 40 PVC
15		MW-5-15	3/4/6	CL		Sandy Silty Clay, yellowish brown 10YR 5/6-5/8, rare gravel, stiff, slightly moist	0.2		
				CL		Sandy Silty Clay, yellowish brown 10YR 5/6-5/8, rare gravel, stiff, slightly moist	?		Sand
20		MW-5-19	8/14/17			Bottom of Boring at 20 feet bgs	0.1		

X:\PROJECTS\CHARACTERIZATION & REMEDIATION\ADVANCED REMEDIATION\116303 SVE (Fidelity Roof) Oakland, RFE\MW_5_6 install\Graphics\MW5_6.bgs [augerwell 20.tp]



LOG OF SOIL BORING

GRIBI Associates

SHEET 1 OF 1

BORING NUMBER : **B-1**

BORING LOCATION:

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOFING UST SITE
OAKLAND, CALIFORNIA

PROJECT NUMBER: 330-01-02

START DATE: 11/27/2007

COMPLETION DATE: 11/27/2007

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 24.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS - INITIAL - FINAL	USCS	LOG OF MATERIAL
0						0.0 - 1.0 ft. Asphalt and base.
5						1.0 - 8.0 ft. Silty Gravel/Fill (GM) Grey brown, backfill mix of silt/sand/gravel, loose, dry, wet at 6.5 feet, moderate hydrocarbon odor at 7.0 feet.
10	B-1-8.0'	8.0 FT.	8.0 - 8.0		CL	8.0 - 10.0 ft. Clay (CL) Olive-grey, stiff becoming soft, moist becoming wet, slightly silty, moderate hydrocarbon odor.
15	B-1-12.0'	12.0 FT.	12.0 - 12.0		CL	10.0 - 16.0 ft. Clay (CL) Brown, stiff with occasional soft zones, moist with occasional wet zones, slight to no hydrocarbon odor.
20	B-1-16.0'	16.0 FT.	16.0 - 16.0			HYDROPUCH: Push to 24 feet and pull rod up to expose 21 to 24 feet and no groundwater comes. Pull rod up to expose 18 feet to 24 feet and groundwater did not enter boring.

LOG OF SOIL BORING

GRIBI Associates

SHEET 1 OF 1

BORING NUMBER : **B-2**

BORING LOCATION:

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOFING UST SITE
OAKLAND, CALIFORNIA

PROJECT NUMBER: 330-01-02

START DATE: 11/27/2007

COMPLETION DATE: 11/27/2007

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 30.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS - INITIAL - FINAL	USCS	LOG OF MATERIAL
						0.0 - 1.0 ft. Asphalt and base.
5						1.0 - 8.0 ft. Silty Gravel/Fill (GM) Grey brown, backfill mix of silt/sand/gravel, loose, dry, wet at 7.0 feet, moderate hydrocarbon odor at 7.0 feet.
	B-2-8.0'	8.0 FT.	8.0 - 8.0		CL	8.0 - 12.0 ft. Clay (CL) Partial Recovery- brown, wet, soft to medium stiff, moderate hydrocarbon odor.
10						12.0 - 16.0 ft. Clay (CL) Brown, very stiff, moist, moderately silty and moderate hydrocarbon odor/staining from 12 to 13 feet, hydrocarbon odor decreasing with depth.
	B-2-12.0'	12.0 FT.	12.0 - 12.0		CL	16.0 - 20.0 ft. Clay (CL) Brown, stiff to very stiff, moist, slightly silty, no odor or staining
15						
	B-2-16.0'	16.0 FT.	16.0 - 16.0		CL	
20						
						HYDROPUCH: Push to 25 feet and pull rod up to expose 22 to 25 feet and groundwater did not enter boring. Advance rod down to 30 feet to expose 27 feet to 30 feet and groundwater did not enter boring.

LOG OF SOIL BORING

GRIBI Associates

SHEET 1 OF 1

BORING NUMBER : B-3

BORING LOCATION:

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOFING UST SITE
OAKLAND, CALIFORNIA

PROJECT NUMBER: 330-01-02

START DATE: 11/27/2007

COMPLETION DATE: 11/27/2007

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 12.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ↙ - INITIAL ↘ - FINAL	USCS	LOG OF MATERIAL
5						0.0 - 1.0 ft. Asphalt and base.
10	B-3-8.0'	8.0 FT.	8.0 - 8.0		CL	1.0 - 8.0 ft. Silty Gravel/Fill (GM) Grey brown, backfill mix of silt/sand/gravel, loose, dry, wet at 7.0 feet, moderate hydrocarbon odor at 7.0 feet.
15						8.0 - 12.0 ft. Pea Gravel (GW) Very little recovery, boring closed due to pea gravel, did not advance further at this location.
20						

LOG OF SOIL BORING

GRIBI Associates

SHEET 1 OF 1

BORING NUMBER : **B-4**

DRILLING CONTRACTOR: GREGG DRILLING

BORING LOCATION:

DRILLING METHOD: DIRECT PUSH

BORING TYPE: SOIL BORING

BOREHOLE DIAMETER: 2.5 INCHES

PROJECT NAME: FIDELITY ROOFING UST SITE
OAKLAND, CALIFORNIA

START DATE: 11/27/2007








COMPLETION METHOD: BORING

PROJECT NUMBER: 330-01-02

COMPLETION DATE: 11/27/2007

BORING TOTAL DEPTH: 16.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS - INITIAL - FINAL	USCS	LOG OF MATERIAL
5						0.0 - 1.0 ft. Asphalt and base.
						1.0 - 8.0 ft. Silty Gravel/Fill (GM) Grey brown, backfill mix of silt/sand/gravel, loose, dry, wet at 6.5 feet, moderate hydrocarbon odor at 7.0 feet.
10	B-4-8.0'	8.0 FT.				8.0 - 12.0 ft. Clay (CL) Brown, moist, stiff to very stiff, slight to moderate hydrocarbon odor from 8-10 feet - decreasing with depth, no hydrocarbon staining.
						12.0 - 16.0 ft. Clay (CL) Brown, moist, stiff to very stiff, no hydrocarbon odors or staining.
15	B-4-12.0'	12.0 FT.				
20	B-4-16.0'	16.0 FT.				
						HYDROPUCH: Push to 24 feet and pull rod up to expose 21 to 24 feet and no groundwater comes. Pull rod up to expose 18 feet to 24 feet and groundwater did not enter boring.

LOG OF SOIL BORING

BORING NUMBER : **GA-1**

BORING LOCATION: NORTH OF MW-2

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/07/2011

COMPLETION DATE: 04/07/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 30.0 FEET

GROUNDWATER DEPTH: 26.0 FT. INITIAL
APPROX. 8 FT FINAL

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▽ - FINAL	USCS	LOG OF MATERIAL	
						DESCRIPTION	USCS
						0.0 - 2.0 ft.	Asphalt and base gravel.
					CL	2.0 - 6.5 ft.	Sandy Clay (CL) Reddish brown, firm, dense, some fine gravel clasts, moist, no hydrocarbon odors or staining.
10	GA-1-7.5	7.5 FT.		▽ PID = 0	CL	6.5 - 14.0 ft.	Clay (CL) Grey brown, hard, firm, dense, moist, no hydrocarbon odors or staining.
	GA-1-11.5	11.5 FT.		PID = 0	CL	14.0 - 17.5 ft.	Silty Clay (CL) Brown, soft to firm, some gravel clasts, moist to wet, no hydrocarbon odors or staining.
	GA-1-15.0	15.0 FT.		PID = 0	CL	17.5 - 20.0 ft.	Gravelly Clay (CL) Brown, firm to soft, moist to wet, no hydrocarbon odors or staining.
20	GA-1-18.0	18.0 FT.		PID = 0	CL	20.0 - 26.0 ft.	Clay (CL) Brown, firm, dense, moist, no hydrocarbon odors or staining.
				▽	SP	26.0 - 28.0 ft.	Gravelly Sand (SP) Brown, firm to loose, silty, subangular clasts to 1/2 inch diameter, wet, no hydrocarbon odors or staining.
30	GA-1-27.0	27.0 FT.		PID = 0	CL	28.0 - 29.5 ft.	Clay (CL) Brown, firm, dense, moist, no hydrocarbon odors or staining.
	GA-1-27.5	27.5 FT.		PID = 0	SM	29.5 - 30.0 ft.	Silty Sand (SM) Brown, firm to soft, very fine to fine grained, wet, no hydrocarbon odors or staining.
						TOTAL DEPTH: 30.0 FEET	
						COLLECTED GRAB GROUNDWATER SAMPLE GA-1-W AT 30 FT BGS, OPEN HOLE WITH SCREEN FROM 25 TO 30 BGS. FT & BLANK CSG TO SURFACE.	
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LOG OF SOIL BORING

BORING NUMBER : **GA-2**

BORING LOCATION: NORTHWEST OF MW-2

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/07/2011

COMPLETION DATE: 04/07/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 30.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS - INITIAL - FINAL	USCS	LOG OF MATERIAL	
						DESCRIPTION	CHARACTERISTICS
						0.0 - 3.0 ft.	Asphalt and base gravel.
					CL	3.0 - 5.0 ft.	Clay (CL) Dark Grey, silty, moist, no hydrocarbon odors or staining.
					SP	5.0 - 6.5 ft.	Gravelly Sand (SP) Grey Brown, loosely to firm, moist, no hydrocarbon odors or staining.
10	GA-2-7.5	7.5 FT.		PID = 0	CL	6.5 - 15.5 ft.	Silty Clay (CL) Light grey brown, firm, dense, moist, no hydrocarbon odors or staining.
					SM	15.5 - 16.5 ft.	Silty Sand (SM) Brown, fine to very fine, loose, wet, no hydrocarbon odors or staining
20	GA-2-17.0	17.0 FT.		PID = 0	GM	16.5 - 20.5 ft.	Silty Gravel (GM) Brown, silty to sandy, wet, loose to firm, no hydrocarbon odors or staining.
					CL	20.5 - 25.0 ft.	Silty Clay (CL) Brown, hard, dense, moist, no hydrocarbon odors or staining.
					SP	25.0 - 27.0 ft.	Gravelly Sand (SP) Brown, sandy grades to gravelly sand, wet, firm to loose, no hydrocarbon odors or staining.
30	GA-2-27.0	27.0 FT.		PID = 0	CL	27.0 - 29.0 ft.	Clay (CL) Brown, slightly silty, hard, dense, no hydrocarbon odors or staining.
					SC	29.0 - 30.0 ft.	Clayey Sand (SC) Brown, soft, very fine, wet, no hydrocarbon odors or staining.
						TOTAL DEPTH: 30.0 FEET	
						COLLECTED GRAB GROUNDWATER SAMPLE GA-2-W-16-22, OPEN AT 22 FT BGS,	
						COLLECTED GRAB GROUNDWATER SAMPLE GA-2-W-28-30; HYDRO-PUNCH FROM 28-30 FT BGS,	
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LOG OF SOIL BORING

BORING NUMBER: **GA-4**

BORING LOCATION: E SIDE OF FORMER UST PIT

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/08/2011

COMPLETION DATE: 04/8/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 24.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS	USCS	LOG OF MATERIAL
				▽ - INITIAL ▽ - FINAL		
10				▽		0.0 - 16.0 ft. No Recovery
20	GA-4-19.5	19.5 FT.	▬	▽ PID = 0	CL	16.0 - 19.0 ft. Silty Clay (CL) Brown, firm, dense, slight to moderate hydrocarbon odors.
	GA-4-21.0	21.0 FT.	▬	▽ PID = 0	SC	19.0 - 20.5 ft. Clayey Silt (SC) Brown, lightly sandy (very fine), moist to wet, slight to moderate hydrocarbon odors
	GA-4-23.5	23.5 FT.	▬	▽ PID = 0	GC	20.5 - 22.0 ft. Clayey Gravel (GC) Grey, loose to firm, wet, subangular clasts to 1", slight hydrocarbon odors.
					CL	22.0 - 24.0 ft. Silty Clay (CL) Brown, firm, dense, slightly moist, no hydrocarbon odors or staining.
30						TOTAL DEPTH: 24.0 FEET
						COLLECTED GRAB GROUNDWATER SAMPLE GA-4-W-20-24.
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50						

LOG OF SOIL BORING

BORING NUMBER : GA-5

BORING LOCATION: W SIDE OF FORMER UST PIT

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/08/2011

COMPLETION DATE: 04/08/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 30.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▽ - FINAL	USCS	LOG OF MATERIAL	
10						HYDROPUNCHED; NO LITHOLOGIC LOGGING	
20							
30						TOTAL DEPTH: 30.0 FEET COLLECTED HYDROPUNCH GRAB GROUNDWATER SAMPLE GA-5-W-25-30 FT BGS.	
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50							

LOG OF SOIL BORING

BORING NUMBER : GA-6

BORING LOCATION: NORTHWEST OF GA-3

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/08/2011

COMPLETION DATE: 04/8/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 28.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▲ - INITIAL ▼ - FINAL	USCS	LOG OF MATERIAL
						0.0 - 2.0 ft. Asphalt and base gravel.
					CL	2.0 - 6.0 ft. Clay (CL) Dark Grey to black, hard, dense, no hydrocarbon odors or staining.
10					CL	6.0 - 15.5 ft. Silty Clay (CL) Brown, dense, hard, moist, no hydrocarbon odors or staining.
					ML	15.5 - 17.5 ft. Gravelly Silt (GM) Brown, moist to wet, pea-sized clasts, firm to occ soft (18'-19'), no hydrocarbon odors or staining.
20	GA-6-19.0	19.0 FT.		PID = 0	GM	17.5 - 22.0 ft. Silty Gravel (GM) Brown, clayey hard, dense, moist, no hydrocarbon odors or staining, no water.
	GA-6-22.0	22.0 FT.		PID = 0	ML	22.0 - 25.0 ft. Silt (ML) Brown, soft, slightly sandy, clayey, moist to wet, no hydrocarbon odors or staining, no water.
					GM	25.0 - 27.0 ft. Silty Gravel (GM) Brown, hard, dense, moist to wet, no hydrocarbon odors or staining.
30	GA-6-27.0	27.0 FT.		PID = 0	CL	27.0 - 28.0 ft. Clay (CL) Brown, hard, dense, moist, no hydrocarbon odors or staining. Pulled outer metal casing and left the PVC with 10 ft. screen.
						TOTAL DEPTH: 28.0 FEET
						PULLED OUTER METAL CASING & LEFT THE PVC WITH 10FT SCREEN.
						COLLECTED GRAB GROUNDWATER SAMPLE GA-6-W, OPEN HOLE SCREENED 18-28 FT BGS.
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LOG OF SOIL BORING

BORING NUMBER : **GA-7**

BORING LOCATION: NORTHWEST OF GA-3

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/08/2011

COMPLETION DATE: 04/8/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 28.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▼ - INITIAL ▼ - FINAL	USCS	LOG OF MATERIAL	
						0.0 - 2.5 ft.	Asphalt and base gravel.
					CL	2.5 - 5.0 ft.	Clay (CL) Black to grey, hard, dense, no hydrocarbon odors or staining.
					ML	5.0 - 8.0 ft.	Gravelly Silt (ML) Grey, moist, pea-sized clasts, firm, dense, no hydrocarbon odors or staining.
10					CL	5.0 - 16.0 ft.	Clay (CL) Brown, slightly silty, occasionally gravelly, moist, firm, dense, no hydrocarbon odors or staining.
	GA-7-17.5	17.5 FT.		PID = 0	GM	16.0 - 20.0 ft.	Silty Gravel (GM) Brown, clayey, hard, dense, moist, occasionally wet, no hydrocarbon odors or staining, no water.
20	GA-7-22.0	22.0 FT.		PID = 0	ML	20.0 - 24.0 ft.	Clayey Silt (ML) Brown, soft to firm, locally wet, no hydrocarbon odors or staining.
						24.0 - 28.0 ft.	No Recovery.
30						TOTAL DEPTH: 28.0 FEET COLLECTED GRAB GROUNDWATER SAMPLE GA-7-W, OPEN HOLE SCREENED 18-28 FT BGS.	
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LOG OF SOIL BORING

BORING NUMBER : **GA-8**

BORING LOCATION: NORTHWEST OF GA-3

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/08/2011

COMPLETION DATE: 04/8/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 28.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▽ - FINAL	USCS	LOG OF MATERIAL	
					ML	0.0 - 4.0 ft. Silt (ML) Brown, loose to firm, moist, soft to firm, no hydrocarbon odors or staining.	
					ML	4.0 - 6.0 ft. Clayey Silt (ML) Dark grey to black, firm, dense, no hydrocarbon odors or staining.	
10					CL	6.0 - 15.0 ft. Clay (CL) Light brown, dense, firm, no hydrocarbon odors or staining.	
	GA-7-17.5	17.5 FT.		PID = 0	GM	15.0 - 17.0 ft. Silty Gravel (GM) Brown, firm, subrounded clasts to 2 inches diameter, no hydrocarbon odors or staining, no water.	
20					CL	17.0 - 22.0 ft. Clay (CL) Brown, dense, firm, slightly silty, moist, no hydrocarbon odors or staining.	
	GA-7-22.0	22.0 FT.		PID = 0	ML	22.0 - 24.0 ft. Clayey Silt (ML) Brown, soft to firm, moist to wet, no hydrocarbon odors or staining.	
					CL	24.0 - 26.5 ft. Silty Clay (CL) Grey brown, dense, firm, no hydrocarbon odors or staining.	
30					GM	26.5 - 28.0 ft. Silty Gravel (GM) Red brown, clayey, subangular clasts to 2-inches diameter, dense, moist, no hydrocarbon odors or staining.	
						TOTAL DEPTH: 28.0 FEET COLLECTED GRAB GROUNDWATER SAMPLE GA-8-W, OPEN HOLE SCREENED 18-28 FT BGS.	
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LOG OF SOIL BORING

BORING NUMBER : **MW-7**

BORING LOCATION: IN FORMER EXCAVATION
CAVITY

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/07/2011

COMPLETION DATE: 04/07/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: HOLLOW STEM AUGER

BOREHOLE DIAMETER: 8.0 INCHES

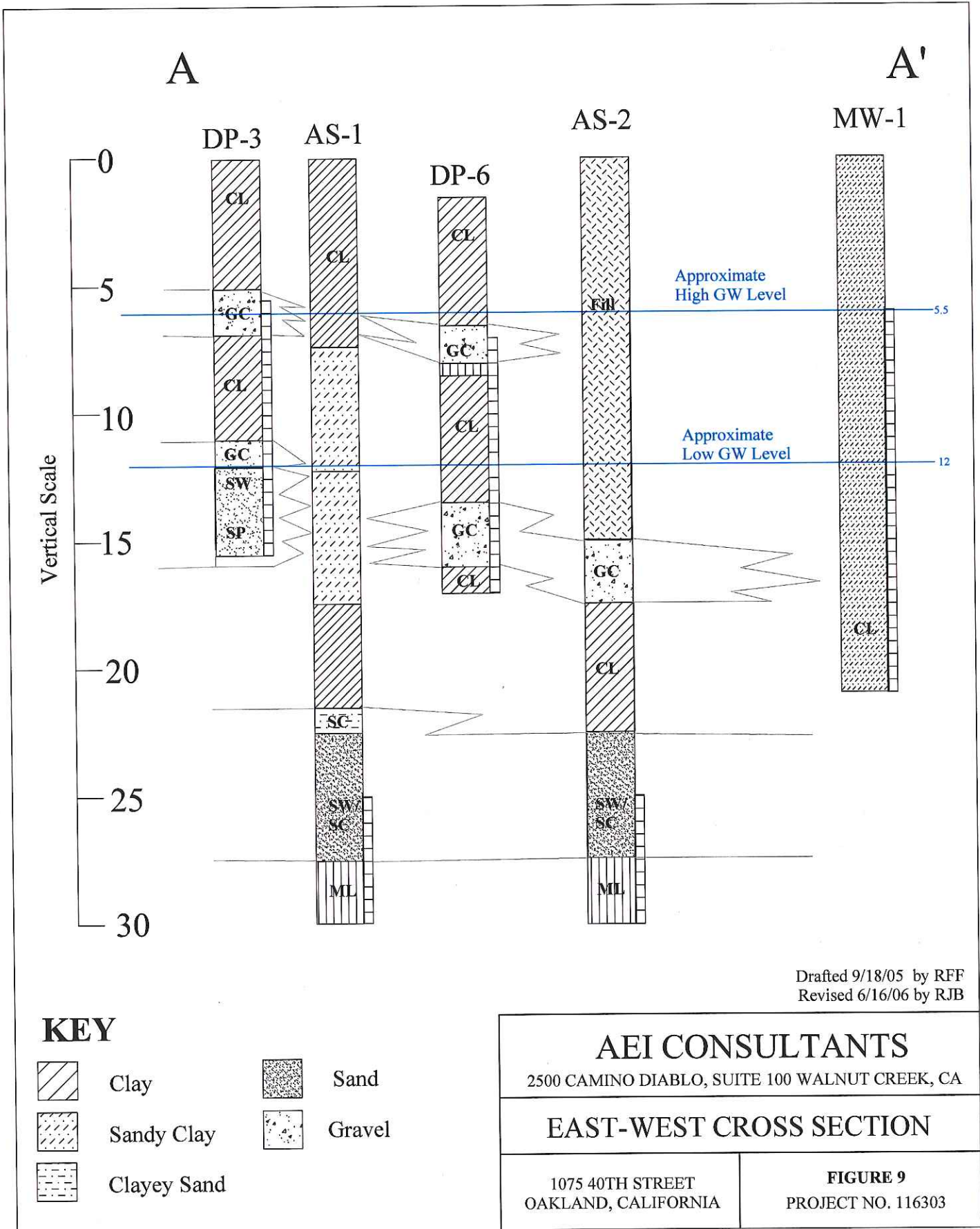
COMPLETION METHOD: GWM WELL

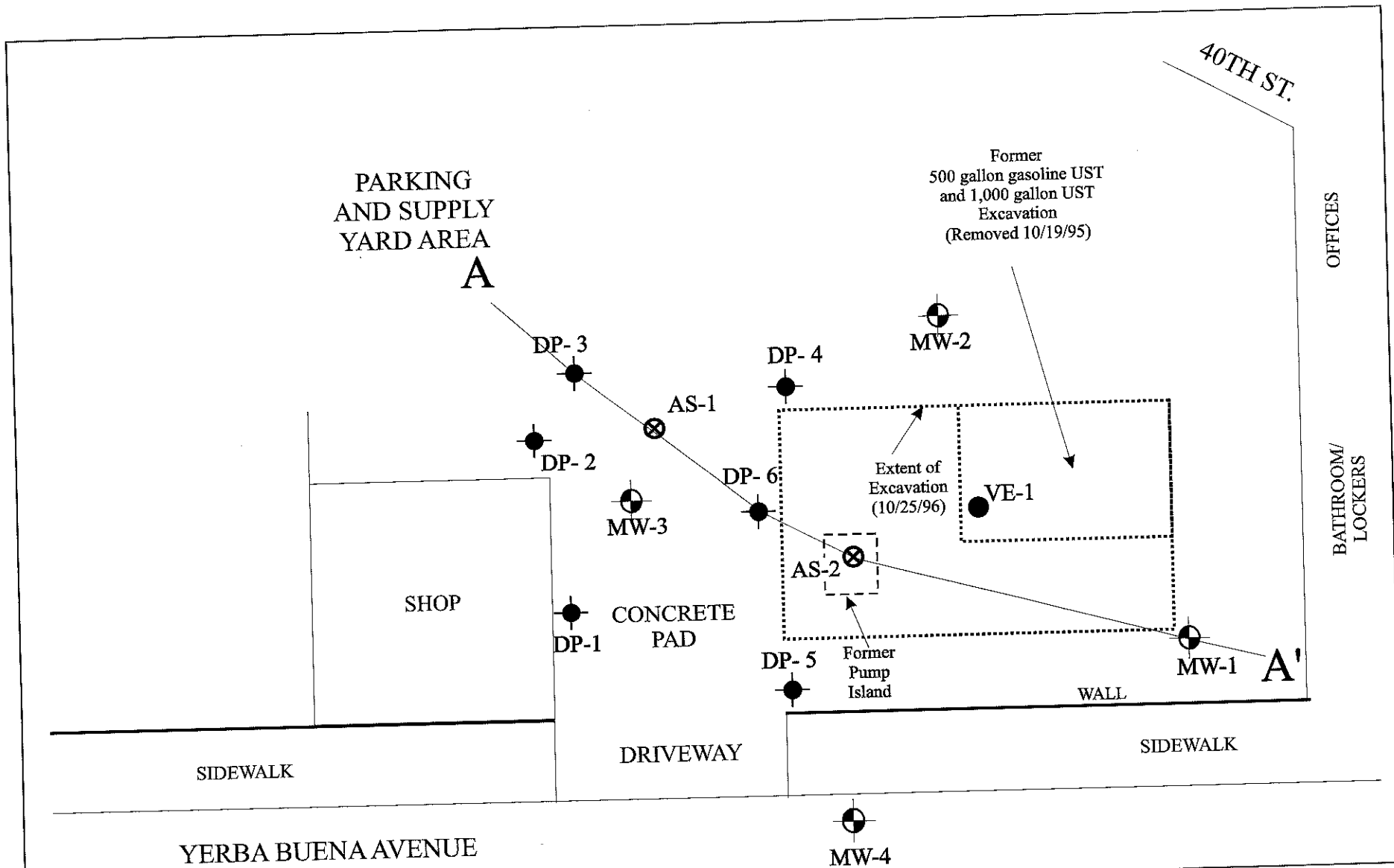
BORING TOTAL DEPTH: 20.0 FEET





GROUNDWATER DEPTH:

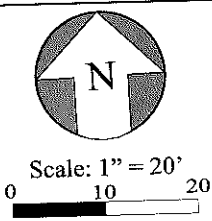
DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS	USCS	LOG OF MATERIAL								
				PID = 0 ▽ - INITIAL ▾ - FINAL		0.0 - 2.5 ft. Asphalt and base gravel.								
	MW-7-7.5	7.5 FT.			ML 5.0 - 9.0 ft. Silt (ML) Grey, moist, firm, dense, no hydrocarbon odors or staining.									
10	MW-7-11.0	11.0 FT.			GW 9.0 - 12.0 ft. Gravel (GW) Grey to brown, pea-sized, subrounded clasts, loose, moist to wet, no hydrocarbon odors or staining.									
	MW-7-15.5	15.5 FT.		PID = 0	CL 12.0 - 20.0 ft. Clay (CL) Brown, silty, occasionally gravelly, moist, firm, soft and wet from 14 to 16 ft, moist to wet, no hydrocarbon odors or staining.									
20	MW-7-19.5	19.5 FT.		PID = 0		TOTAL DEPTH: 20.0 FEET								
30	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p style="text-align: center; margin: 0;">WELL SPECIFICATIONS</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">A - WELL SCREEN DEPTH: 15.04 FT</td> <td style="width: 50%;">CASING TYPE: SCH 40 PVC</td> </tr> <tr> <td>B - WELL SCREEN LENGTH: 5.00 FT</td> <td>CASING SIZE: 2.0 INCH</td> </tr> <tr> <td>C - DEPTH TO TOP OF SAND: 14.00 FT</td> <td>SLOT SIZE: 0.020 INCH</td> </tr> <tr> <td>D - DEPTH BENTONITE SEAL: 12.00 FT</td> <td></td> </tr> </table> </div>						A - WELL SCREEN DEPTH: 15.04 FT	CASING TYPE: SCH 40 PVC	B - WELL SCREEN LENGTH: 5.00 FT	CASING SIZE: 2.0 INCH	C - DEPTH TO TOP OF SAND: 14.00 FT	SLOT SIZE: 0.020 INCH	D - DEPTH BENTONITE SEAL: 12.00 FT	
A - WELL SCREEN DEPTH: 15.04 FT	CASING TYPE: SCH 40 PVC													
B - WELL SCREEN LENGTH: 5.00 FT	CASING SIZE: 2.0 INCH													
C - DEPTH TO TOP OF SAND: 14.00 FT	SLOT SIZE: 0.020 INCH													
D - DEPTH BENTONITE SEAL: 12.00 FT														
40														
50														

ATTACHMENT 7





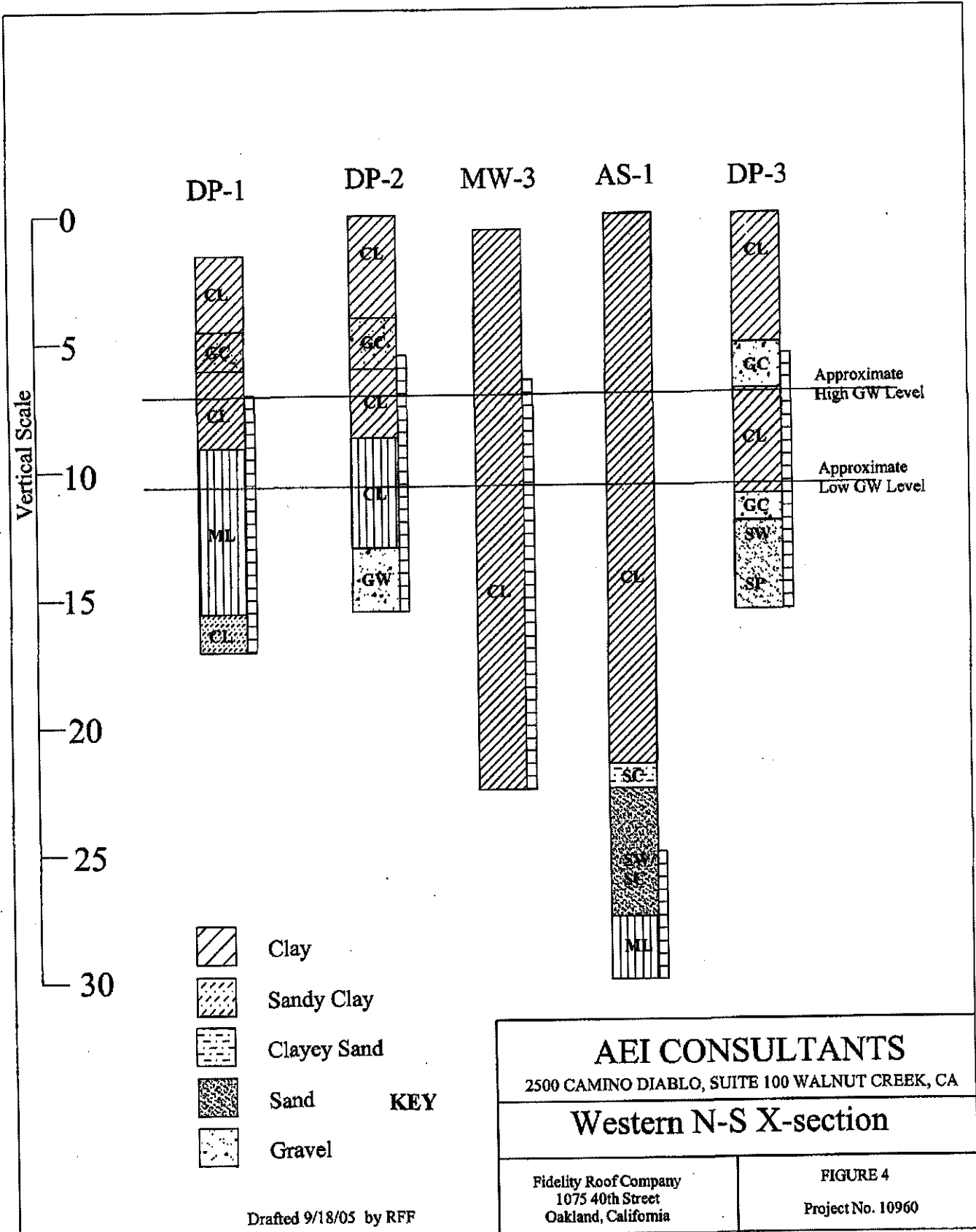
-  **Monitoring Well**
 Groundwater results reported in $\mu\text{g/L}$
 TPH-g = Total Petroleum Hydrocarbons as gasoline
 TPH-d = Total Petroleum Hydrocarbons as diesel
 MTBE = Methyl tertiary-Butyl Ether
 BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
 Sampling Event: 12/01/05
 na = not analyzed ns-fp = not sampled - free product present
-  **VE Well**
-  **DP Well**
-  **AS Well**

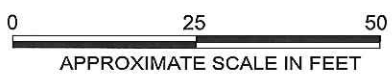
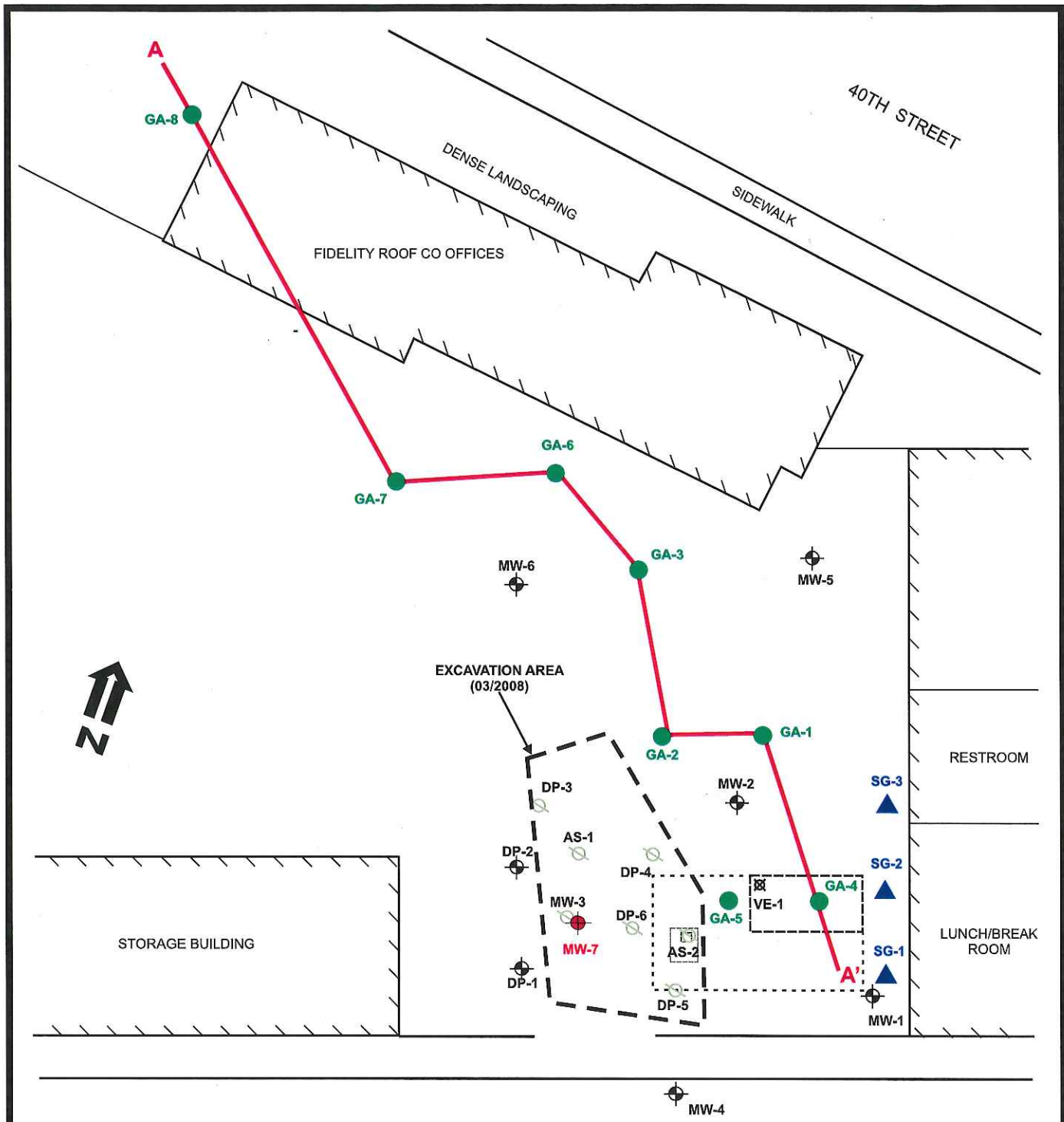


AEI CONSULTANTS
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CROSS SECTION A-A'

1075 40TH STREET OAKLAND, CALIFORNIA	FIGURE 8 AEI Project No. 116303
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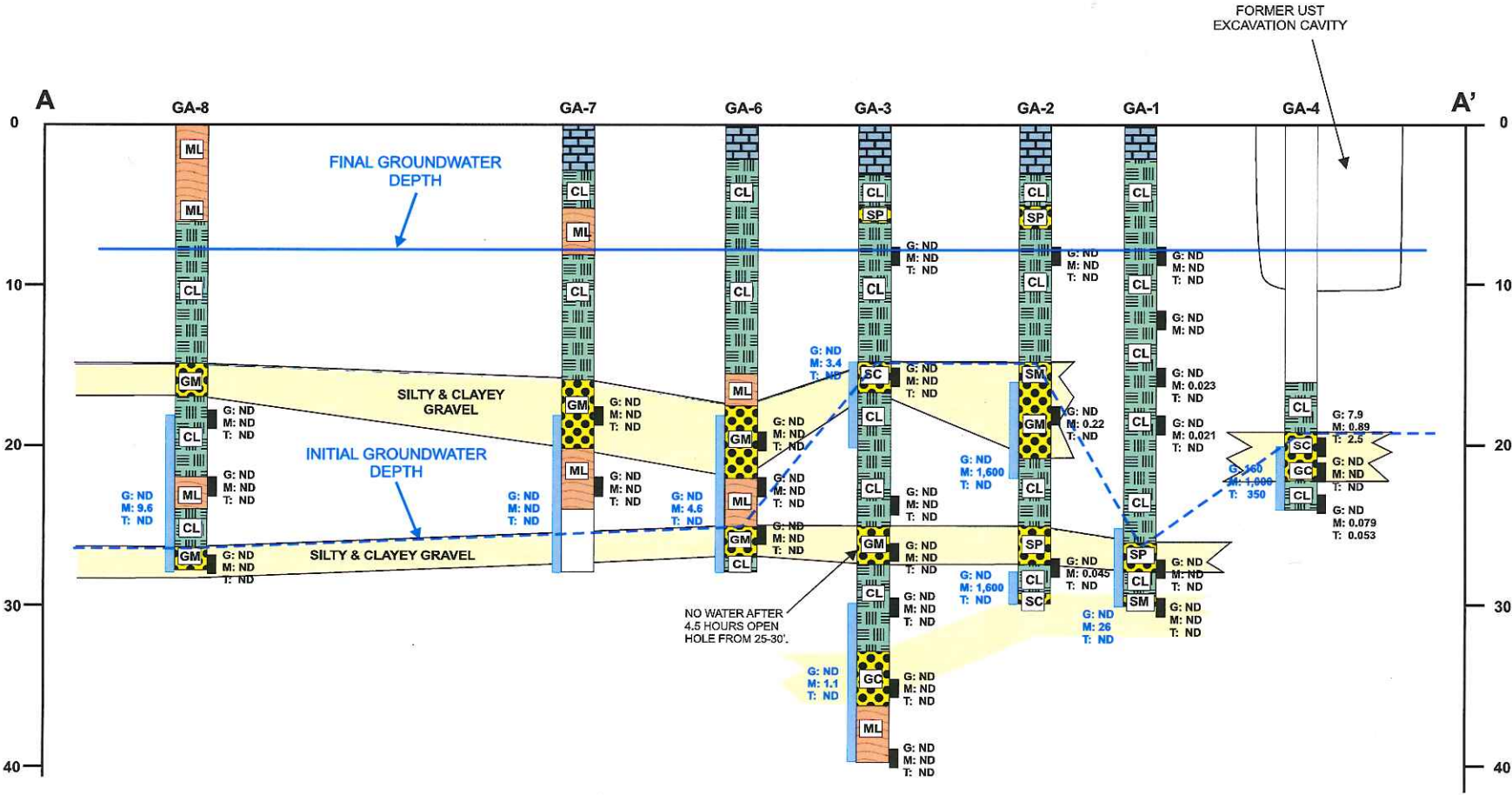
- ABANDONED WELL
- REMEDIATION WELL
- GROUNDWATER MONITORING WELL
- NEW SOIL GAS SAMPLE LOCATION
- NEW SOIL BORING LOCATION
- NEW GROUNDWATER MONITORING WELL

DESIGNED BY:	CHECKED BY:
DRAWN BY: MR	SCALE:
PROJECT NO:	

CROSS SECTION LOCATION MAP

1075 40TH STREET
OAKLAND, CALIFORNIA

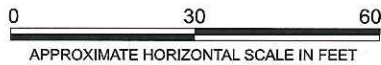
DATE: 11/18/2011	FIGURE: 5



LEGEND

GROUNDWATER SAMPLE INTERVAL: G: ND, M: 4.6, T: ND (TPH-G, MTBE & TBA RESULTS, UG/L)

SOIL SAMPLE INTERVAL: G: 7.9, M: 0.89, T: 2.5 (TPH-G, MTBE & TBA RESULTS, MG/KG)



DESIGNED BY:	CHECKED BY:
DRAWN BY: JEG	SCALE:
PROJECT NUMBER:	

LITHOLOGIC CROSS SECTION
 1075 40TH STREET
 OAKLAND, CALIFORNIA

DATE: 11/18/11

FIGURE: 4

