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Alameda County
Environmental Health

SUSTAINABLE STRATEGIES FOR GLOBAL LEADERS

January 27, 2009
DELTA Project SCA152751
SAP: 129460

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

**Subject: Soil Vapor Extraction Pilot Test Work Plan
Former Shell-Branded Service Station
15275 Washington Avenue
San Leandro, California**



Dear Mr. Wickham:

Delta Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared this work plan for a soil vapor extraction (SVE) pilot test at the site referenced above. The proposed pilot test will provide data to evaluate remedial measures to address measured vapor concentrations reported in the *Soil Vapor Investigation Report* dated October 7, 2008.

This document has been prepared in response to a letter received from Alameda County Environmental Health (ACEH) dated November 13, 2008 requesting that a pilot test work plan or feasibility study be submitted for the site by January 28, 2009.

BACKGROUND

Site Location

The subject site is located in the northwest corner of the intersection of Washington Avenue and Lewelling Boulevard in San Leandro, California. (Figures 1 and 2). The site is designated by Alameda County Environmental Health Services (ACEHS) as Fuel Leak Case No. RO0000372. The Geotracker Global ID is T0600101226.

Site Description

The subject site, formerly a Shell-branded service station, is currently an automotive emissions testing facility (Speed Smog Check). The surrounding area is a mix of residential (primarily multi-family units) and commercial properties (Figure 2). The site is bounded on the west by a mobile home park, on the south by Lewelling Boulevard, on the east by Washington Avenue, and on the north by commercial buildings. An ARCO service station is located on the southwest corner of the intersection and is currently an open leaking underground fuel tank (LUFT) case.

Site Owner

The site property is currently owned by Mr. Frank Salel, Salel Enterprises, whose mailing address is P.O. Box 5099, Oakland, California 94605.

SITE GEOLOGIC/HYDROGEOLOGIC SETTING

The following sections provide a summary of the regional geologic and hydrogeologic setting.

Regional Geologic Setting

The site is located on the East Bay Plain approximately two miles east of the edge of San Francisco Bay. The East Bay Plain is a northwest trending strip of land between foothills to the east and San Francisco Bay to the west. As mapped by E. J. Helley and others (1979), soils in the site vicinity consist of late Pleistocene alluvium comprised of weakly consolidated, slightly weathered, poorly sorted, irregularly interbedded clay, silt, sand, and gravel. Sediments become finer-grained near the edge of San Francisco Bay.

Regional Hydrogeologic Setting

The site is located in the central portion of the East Bay Plain Groundwater Sub basin (DWR Bulletin 118). The East Bay Plain sub basin aquifer system consists of unconsolidated sediments of Quaternary age. Shallow aquifers are recharged by numerous creeks that cross the sub basin in a westward direction. In the site area, streams discharge to San Francisco Bay. The total depth of domestic wells reportedly ranges from 32 to 525 feet below the ground surface (bgs) with an average of 206 feet bgs. The total depth of municipal and irrigation wells ranges from 29 to 630 feet bgs, with an average of 191 feet bgs (DWR Bulletin 118). Groundwater flow is typically to the west toward San Francisco Bay. Water agencies in the area include East Bay Municipal Utility District (EBMUD) and Alameda County Flood Control and Water Conservation District.

TRC Companies, Inc. completed a well survey of the site area in 2006 identifying 39 wells within approximately ½-mile radius of the site (see table and map, Attachment A). Twenty-nine of the wells were classified as “irrigation”, six as “domestic”, one as “cathodic”, and three were of unknown use. Average depth of irrigation wells ranged from 34 feet to 720 feet bgs; the average depth of domestic wells ranged from 28 feet to 84 feet bgs. No municipal water supply wells were identified within the search radius.

Site Hydrogeologic Conditions

Borings have encountered primarily clay to a depth of approximately 25 feet bgs. Some clay samples were described as containing fractures and root holes. Interbedded layers of silty sand/clayey sand were identified in borings S-1 through S-5, S-9, S-17, SG-3, and SR-1 at depths of approximately 4 to 6 feet bgs. Silty sand and sand were found from approximately 25 feet to 40.5 feet bgs, the total depth explored. Copies of boring logs and well construction diagrams are provided as Appendix A. Hydrogeologic cross-sections are shown on Figures 3 and 4.

Groundwater was first encountered in site borings at depths ranging from approximately 6 to 20 feet bgs within clay deposits. In the *Corrective Action Plan* dated June 24, 1997, Enviro, Inc. concluded “the upper water-bearing zone appears to extend to a depth of approximately 6 feet to 20 feet bgs. Water in this upper zone is most likely yielded from the discreet sandy interbeds and possibly from silty horizons in the predominantly clayey (CL and CH) matrix.” All groundwater monitoring wells are screened in this upper groundwater zone. Groundwater monitoring well construction information is included as Appendix A.

Groundwater flow is predominantly to the west-southwest. Copies of selected groundwater contour maps are included as Appendix B. A step-test was performed by GeoStrategies, Inc. (GeoStrategies) at the site on March 27, 1990 using well SR-1. The well dewatered after 52 minutes of pumping at a rate of 2 gallons per minute. Slug tests were performed in wells S-1, S-3, S-5, S-7, S-9, S-13, S-14, and S-16. Analysis of the slug test data indicated coefficient of permeability values ranging from 7.27 to 99.9 feet per day. In a report dated June 23, 1990, GeoStrategies concluded "The wide range in values are most likely attributed to the heterogeneity of the clay (especially the complexity of the interbedded sandy horizons) in the subsurface as well as inherent well construction difficulties in low-permeable, fine grained aquifers where classic well design procedures fail."

NATURE AND EXTENT OF SOURCE

Former USTs (1985-1987)

Elevated concentrations of total petroleum hydrocarbons as gasoline (TPH-g) were detected in groundwater in the first onsite groundwater monitoring wells installed August 1985 (S-1 through S-4, Figure 2). Separate phase hydrocarbons (SPH) were detected in well S-3, located west and downgradient of the site underground fuel storage tanks (USTs), at 0.5 feet. In 1986, four borings (S-A through S-D) were advanced to obtain soil and groundwater samples in areas of potential petroleum hydrocarbon impacts, including the waste oil tank (S-A) and USTs (S-B, SB-C, and S-D, Figure 2). TPH-g was detected in the tank pit backfill at a concentration of 1,700 milligrams per kilogram (mg/kg) and at the bottom of tank pit at 1,500 mg/kg (boring S-B). Soil analytical data is presented as Appendix C. Boring S-B was converted to a groundwater monitoring well; SPH at 0.4 feet was detected in well S-B. Wells S-B, S-2, and S-4 were destroyed in May 1987 during on-site construction activities.

Waste Oil Tank Removal (1987)

The site waste oil tank was replaced in June 1987. Soils were excavated to a depth of approximately 13 feet bgs; soil samples collected from beneath the waste oil tank reported 280 mg/kg TPH-g and 14 mg/kg benzene. The soil samples did not report any measureable concentrations of total petroleum hydrocarbons as diesel (TPH-d) or volatile organic compounds (VOCs) other than benzene.

UST Replacements (1987)

The four fuel USTs were removed in June 1987 (Figure 2). A total of four soil samples were collected from the tank pit walls (Samples A-D). All soil samples except sample D contained less than 100 mg/kg TPH-g; soil sample D reported 910 mg/kg TPH-g.

In addition, during a subsurface investigation done by Kaprealian Engineering, Inc. in December 1987 three trenches were excavated to a depth of approximately 8.5 feet bgs away from the former tank pit area. TPH-g was reported in soil samples at concentrations ranging from 100 to 730 mg/kg.

Additional Groundwater Monitoring Well Installations (1988-1989)

In November 1988, seven monitoring wells (S-6 through S-12) were installed (Figure 2) and a soil gas survey was performed. Groundwater samples collected from wells S-1 through S-12 contained TPH-g from 50 micrograms per liter ($\mu\text{g/l}$) to 70,000 $\mu\text{g/l}$ (well S-3). Soil gas samples reported TPH-g at concentrations of 0.63 parts per million (ppm) to 5,800 ppm; the soil survey data are presented as Attachment E. In March 1989, groundwater monitoring wells S-13 through S-17 and recovery well SR-1 were installed (Figure 2). In 1991, well S-18 was installed.

Groundwater Monitoring Data (1985 – 2008)

Groundwater monitoring reports dating back to 1985 indicate that, with the exception of well S-9, levels of petroleum hydrocarbons have declined steadily over time, apparently due to natural attenuation and SVE remediation. Concentrations in well S-9 remain above target levels. The most recent monitoring report including historic groundwater monitoring data is presented as Appendix D.

The highest concentrations of TPH-g have been detected in groundwater samples from wells S-3, S-5, and S-9 located adjacent to the fuel USTs and the downgradient area to the west. TPH-g was greater than 10,000 µg/l in well S-3 from its installation in 1985 through January 2003. In 1993, wells S-11 through S-15 were paved over by the City of San Leandro (Enviros, 1997).

Soil Gas Survey (1997)

In March 1997, a second soil gas survey was performed at the site and adjacent trailer park property (Figure 2). Soil gas samples were collected using GeoProbe™ direct-push soil vapor sampling equipment at nine locations (SG-01 through SG-09). At five locations (SG-01, SG-02, SG-05, SG-06, and SG-09), soil vapor samples were collected at a depth of 4 feet bgs. At four locations (SG-03, SG-04, SG-07, and SG-08), soil vapor samples were collected at depths of 2 feet, 4 feet, and 6 feet bgs. An ambient air sample (AMB-01) was collected at a location between the service station and the trailer park. In addition, soil samples were collected at four locations (SG-03, SG-04, SG-07, and SG-08).

Soil vapor analytical results are summarized in a table presented as Appendix E. The highest TPH-g concentrations were detected at locations SG-01, at 100,000,000 micrograms per cubic meter (µg/m³), and SG-007, at 130,000,000 µg/m³. The highest benzene concentrations were detected in soil vapor samples SG-01 at 750,000 µg/m³, SG-03 at 90,000 µg/m³, and SG-07 at 450,000 µg/m³.

The highest concentrations of TPH-g were detected in SG-03, at 4 to 6 feet bgs at 4,200 mg/kg, and 6 to 8 feet at 3,600 mg/kg. The highest benzene concentration was detected at location SG-3 at 4 to 6 feet bgs at 10 mg/kg.

Soil Gas Survey (2008)

In June 2008, Delta performed a post-remediation soil gas survey (see map, Appendix E). Soil gas samples were collected from 14 locations (P-10 through P-23); sample points P-10 through P-12 and P-15 were located on the adjacent mobile home park. Soil vapor samples were collected at a depth of 5.5 feet bgs, just above the top of the saturated zone. TPH-g was detected at concentrations ranging from 450 to 9,000,000 µg/m³. Benzene was detected at concentrations ranging from 3.2 to 12,000 µg/m³. Soil vapor analytical data from this survey is included as Appendix E.

SITE REMEDIATION

The site fuel USTs were removed and replaced in June 1987. A total of 500 cubic yards of soil were removed from the tank pit and transported off-site for disposal. An additional 200 cubic yards of soil were excavated from trenches in the dispenser areas. Approximately 1,410 pounds of vapor-phase hydrocarbons were removed by the SVE system in 1998-1999. The SVE system was removed from the site in 2002 (Delta, June 2007).

PILOT TESTING

Based on a preliminary review of possible remedial alternatives, Delta proposes to conduct SVE pilot testing to evaluate the effectiveness of this technique for remediation of elevated soil vapor concentrations. Pilot test results will then be used to complete a feasibility study to determine the most appropriate means of remedial action for this site.

SCOPE OF WORK

DELTA proposes to install two horizontal SVE wells (ET-1 and ET-2) in five-foot deep trenches. Figure 5 presents a site map with proposed horizontal test showing the proposed extended test well locations, and Figure 6 presents the well installation details. The five-foot deep trenches will be approximately 12 feet in length and one-foot in width. The horizontal SVE wells are proposed to be screened approximately 10 feet along the entire length of the trench. Once installed, a pilot test will be performed on the SVE wells and the results will be used to evaluate the feasibility of this technology for remediation at the site.

PRE-FIELD ACTIVITIES

Upon approval of the work plan, Delta will visit the site to mark the well locations, contact Underground Services Alert at least 48 hours prior to subsurface disturbance, arrange the schedule, and coordinate mobilization of equipment and materials. Prior to field mobilization, a utility locator contractor will perform a geophysical survey of the proposed trench locations. Notifications regarding proposed field activities will be made in advance to the appropriate agencies and the property owner, and any necessary permits will be obtained in advance of field work.

WELL INSTALLATION FIELD ACTIVITIES

SVE Horizontal Well Installation Procedures. The two trenches will each be excavated using a backhoe to approximately five feet bgs in depth, 12 feet in length and one foot in width; the existing pavement will be saw cut prior to excavation. The trench will be backfilled with #2/16 Monterey sand to a depth of approximately one foot above the bottom. The well screen will be placed on top of the sand along with the connected riser pipe. The 10-foot long screen will be constructed of 4-inch diameter Schedule 40 PVC with a 0.010-inch slot size. The riser pipe will also be constructed of blank Schedule 40 PVC. The elbow on the riser pipe will be a long radius elbow. The screen will be covered with an additional one foot of #2/16 Monterey sand above the top of the screen, followed by a 6-inch hydrated bentonite chip seal overlain by a 6-inch bentonite slurry. The trench will be backfilled with pea gravel to match existing conditions and allow for replacement of pavement with like material. If asphalt is used, it will be hot mix and thoroughly compacted to provide an adequate seal. A locking cap will be placed on each wellhead, which will be enclosed in a flush-mounted traffic-rated vault. During well installation activities, soil will be field screened for the presence of volatile organic compounds (VOCs) by headspace analysis using a photo-ionization detector (PID) calibrated to 100 ppm by volume (ppmv) of isobutylene. PID readings will be recorded on the air monitoring forms.

Disposal of Drill Cuttings and Rinseate. Soil cuttings and rinseate water generated during air-knifing activities will be placed in Department of Transportation- (DOT) approved 55-gallon drums. The drums will be sealed and labeled in accordance with the appropriate protocols, and each drum will be identified on a waste inventory form. The drums will be temporarily left on site, pending characterization, transport and disposal by Shell's waste management contractor. Disposal of drill cuttings and rinseate water at appropriate disposal or recycling facilities will be coordinated by Shell.

PROPOSED SVE PILOT TESTING ACTIVITIES

Delta will conduct pilot testing to determine whether this SVE technique is effective at the site. Delta will utilize a portable vapor extraction system with a positive-displacement vacuum pump and a thermal catalytic oxidation unit to treat extracted vapors prior to release to the atmosphere in compliance with the unit's air

permit. The pilot testing will consist of one step test and one extended test. The primary goal of the step test will be to determine the optimal applied vacuum that will maximize vapor flow rates without short-circuiting to the surface. The goal of the extended test will be to determine the radius-of-influence (ROI) of the vacuum system and to determine the concentrations that can be expected from a full-scale system. Well ET-1 will be used as the extraction well and wells ET-2, S-1, S-3, S-16 and S-18 will be used as observation wells. If there is insufficient flow or short-circuiting observed from ET-1, ET-2 may be used as the extraction well. The SVE pilot test will be conducted as described below. For the purpose of this test, ROI will be defined as 1 percent of the vacuum applied to the extraction well.

FIELD ACTIVITIES

SVE Step Test. The applied vacuum will be increased in three to five steps depending on the observed flow rates and vacuum. The initial applied vacuum will be 10 inches of water (in H₂O), and will be increased in 10 in H₂O increments or more depending on observed results. During each step test, the following tasks will be performed:

- Vacuum measurements will be collected from the observation wells at 15-minute intervals;
- Vapor flow rates and applied vacuum readings at the extraction wellhead will be collected at 15-minute intervals;
- Vapor samples will be collected from the extraction well at the beginning of each step in the step test and analyzed in the field for total hydrocarbons using a PID; and
- At the beginning of the step test a vapor sample for laboratory analysis will be collected from the test well; Tedlar bags containing vapor samples will be placed in an opaque storage container until delivered to the laboratory. Chain-of-custody documentation will be maintained throughout the sample collection, transport, and analyses process.

SVE Extended Test. Immediately following the step test, the extended test will begin. The applied vacuum for this test will be based on the results of the step test. The extended test will be run for a total of 24 hours. During the extended test, the following tasks will be performed:

- Vapor flow rates and applied vacuum readings at the extraction wellhead, and vacuum measurements at the observation wells, will be collected at 15-minute intervals for the first two hours, 30-minute intervals for the second two hours, hourly for the next four hours, and every 2 hours for the remainder of the test. Vapor samples will be collected from the extraction well at these same intervals; these samples will be collected in Tedlar bags and analyzed in the field for total hydrocarbons using a PID.
- Vapor samples from the extraction well will be collected in Tedlar bags for laboratory analysis at the beginning of the extended test, after 2 hours, after 4 hours, after 8 hours, after 16 hours and at the end of the test. Tedlar bags containing vapor samples will be placed in an opaque storage container until delivered to the laboratory. Chain-of-custody documentation will be maintained throughout the sample collection, transport, and analyses process.

LABORATORY ANALYSES

Soil vapor samples will be analyzed for TPH-g using EPA Method TO-3, benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) using EPA Method TO-15, and nitrogen, methane, carbon dioxide, carbon monoxide, and oxygen by American Society for Testing and Materials (ASTM) Method D-1946 ("Fixed Gas Analysis").

DATA ANALYSIS AND REPORT PREPARATION

Following completion of field activities and receipt of all analytical results, a final report will be prepared summarizing the findings of the SVE well installation and SVE pilot testing activities at the site. The report will include the following:

- Site assessment procedures and findings, including a site location map, horizontal extraction well trench details, tables summarizing laboratory analytical results, and certified analytical reports with chain-of-custody documents;
- Pilot testing data tables summarizing pilot testing and certified analytical reports with chain-of-custody documents;
- A determination of the required vacuum needed to maximize air flow rates (determined from step test results);
- Site conceptual details including extraction well ROI (distance at which approximately 1 percent of applied vacuum is measured), flow rates and SVE system vacuum; and
- Analysis of SVE pilot testing data to determine hydrocarbon mass removal from the soil.

REMARKS

This work plan represents Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This work plan is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This work plan is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this document.

Should you have any questions or need any further assistance, please contact Suzanne McClurkin-Nelson (Delta) at (408) 826-1875 or Mr. William Lantz (Delta) at (626) 873-2702. In addition, Mr. Dennis Brown (Shell) can be reached at (707) 865-0251.

Sincerely,
Delta Consultants

Suzanne McClurkin-Nelson
Senior Project Manager

William Lantz, RCE C63515
Senior Engineering Specialist



cc: Denis Brown, Shell Oil Products US, Carson
Mike Bakaldin, San Leandro Fire Department, San Leandro
Salel Enterprises c/o Foothill Hardware, Oakland

ATTACHMENTS:

- Figure 1 – Site Location Map
- Figure 2 – Extended Site Map
- Figure 3 – Hydrogeology Cross Section A-A'
- Figure 4 - Hydrogeology Cross Section B-B'
- Figure 5 – Proposed Extended Test Well Locations
- Figure 6 – Well Installation Details
- Appendix A – Boring Logs and Well Construction Diagrams
- Appendix B – Historical Groundwater Contour Maps
- Appendix C – Soil Analytical Data
- Appendix D – Historical Groundwater Monitoring Data
- Appendix E - Soil Vapor Analytical Results

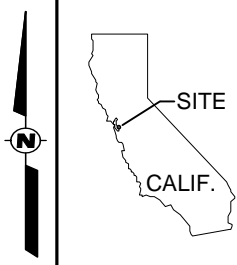
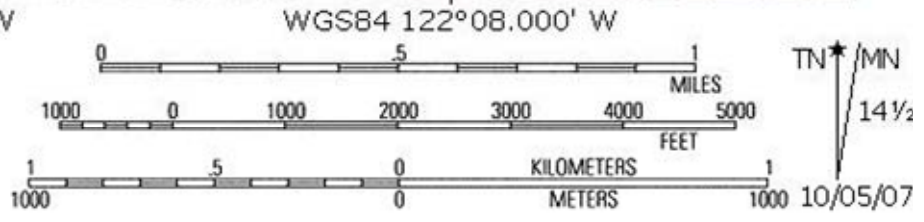
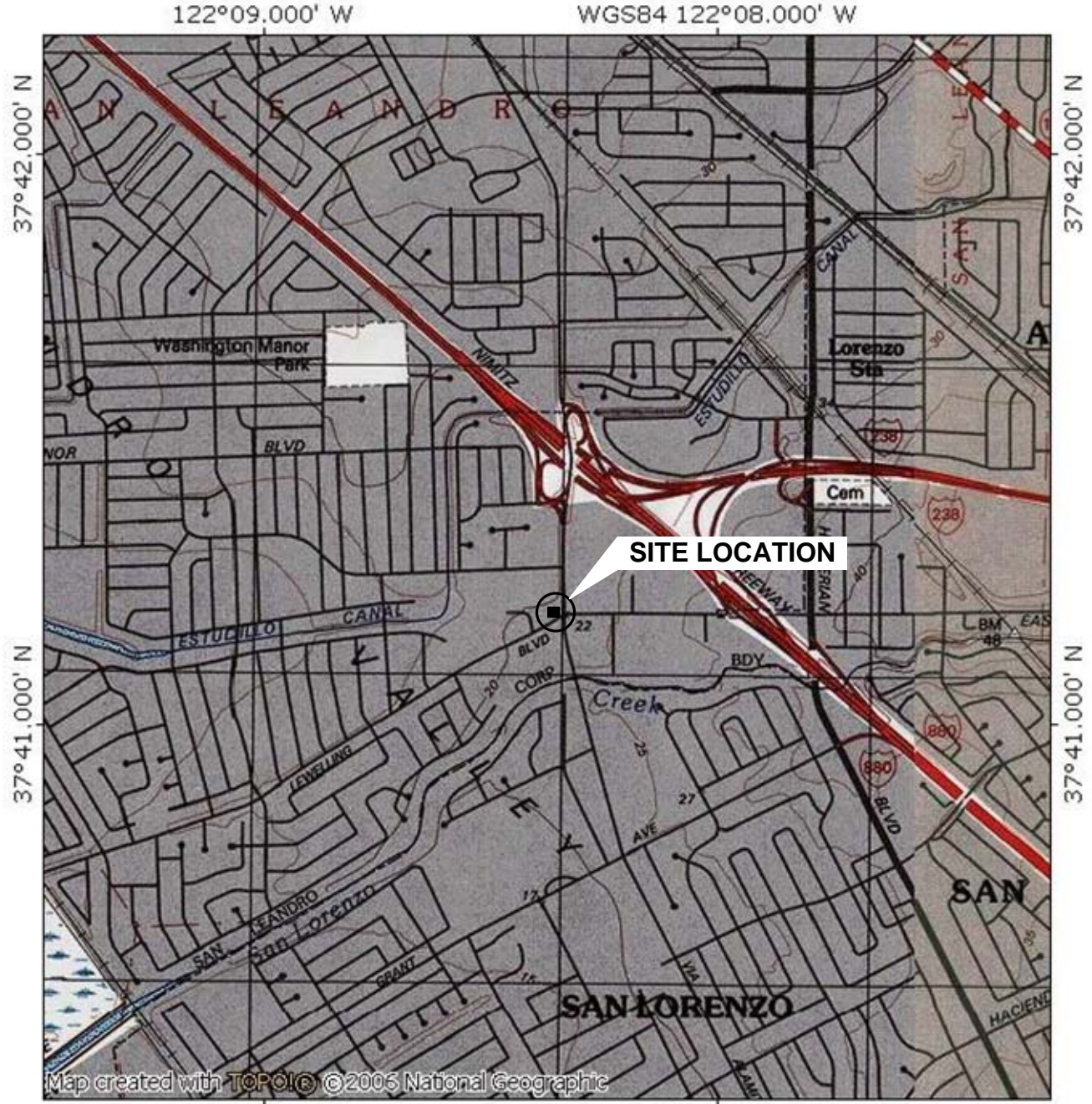
FIGURES

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J.F.F.



SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
SAN LEANDRO, CALIFORNIA

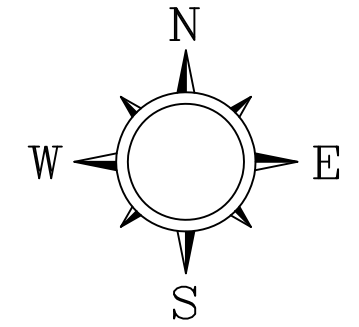
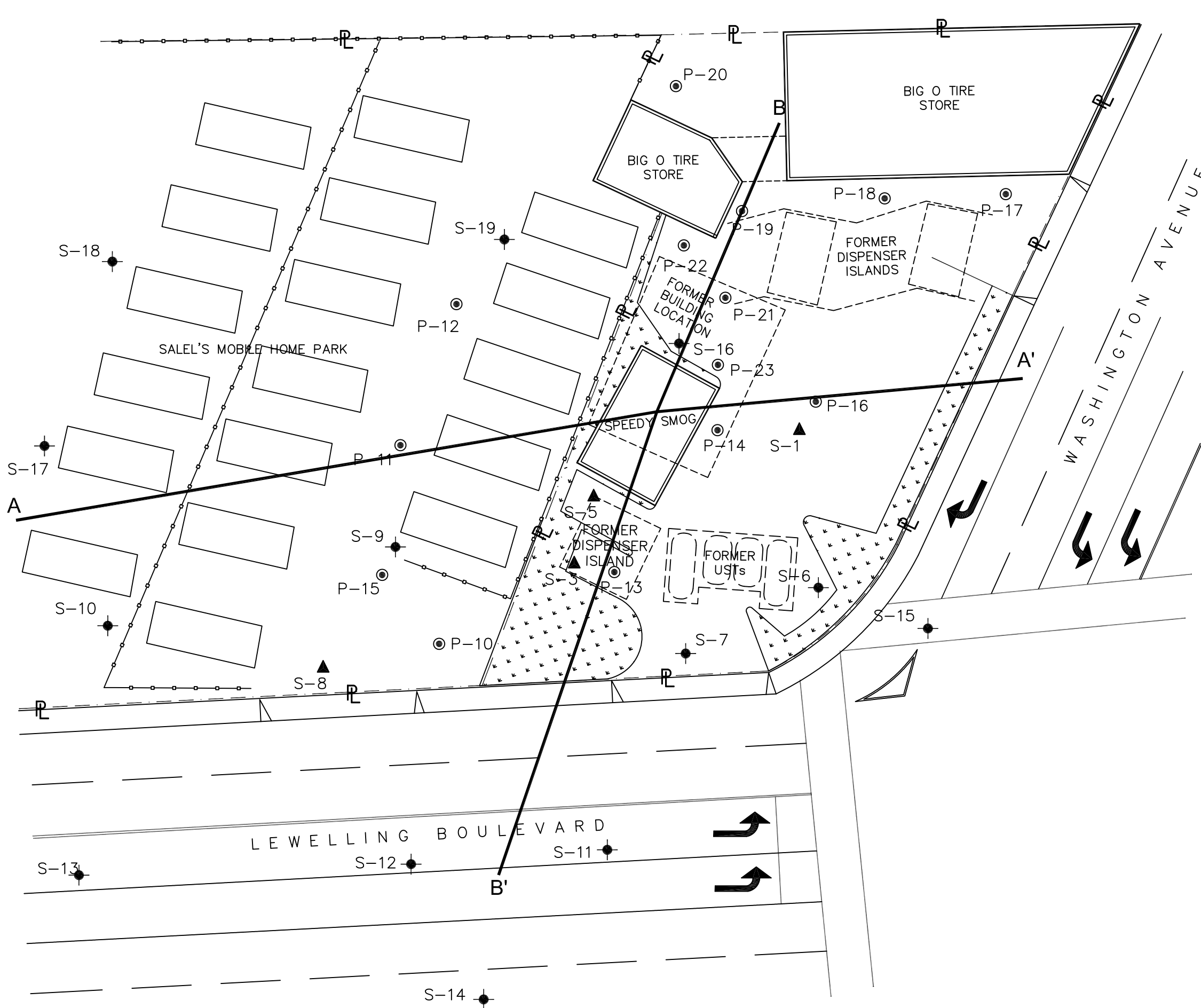
FIGURE 1
SITE LOCATION MAP
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

PROJECT NUMBER
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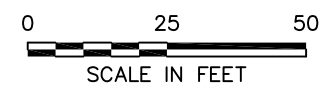
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- LEGEND**
- S-15 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 ▲ GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - P-18 ● SOIL VAPOR PROBE LOCATION AND DESIGNATION
 - A—A' HYDRO-GEOLOGIC CROSS SECTION
 - TRAILER PARK STRUCTUR
 - - - - - FORMER BUILDING
 - - - - - FORMER UST LOCATION
 - PL - PROPERTY LINE
 - □ - FENCING



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FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 2

EXTENDED SITE MAP
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

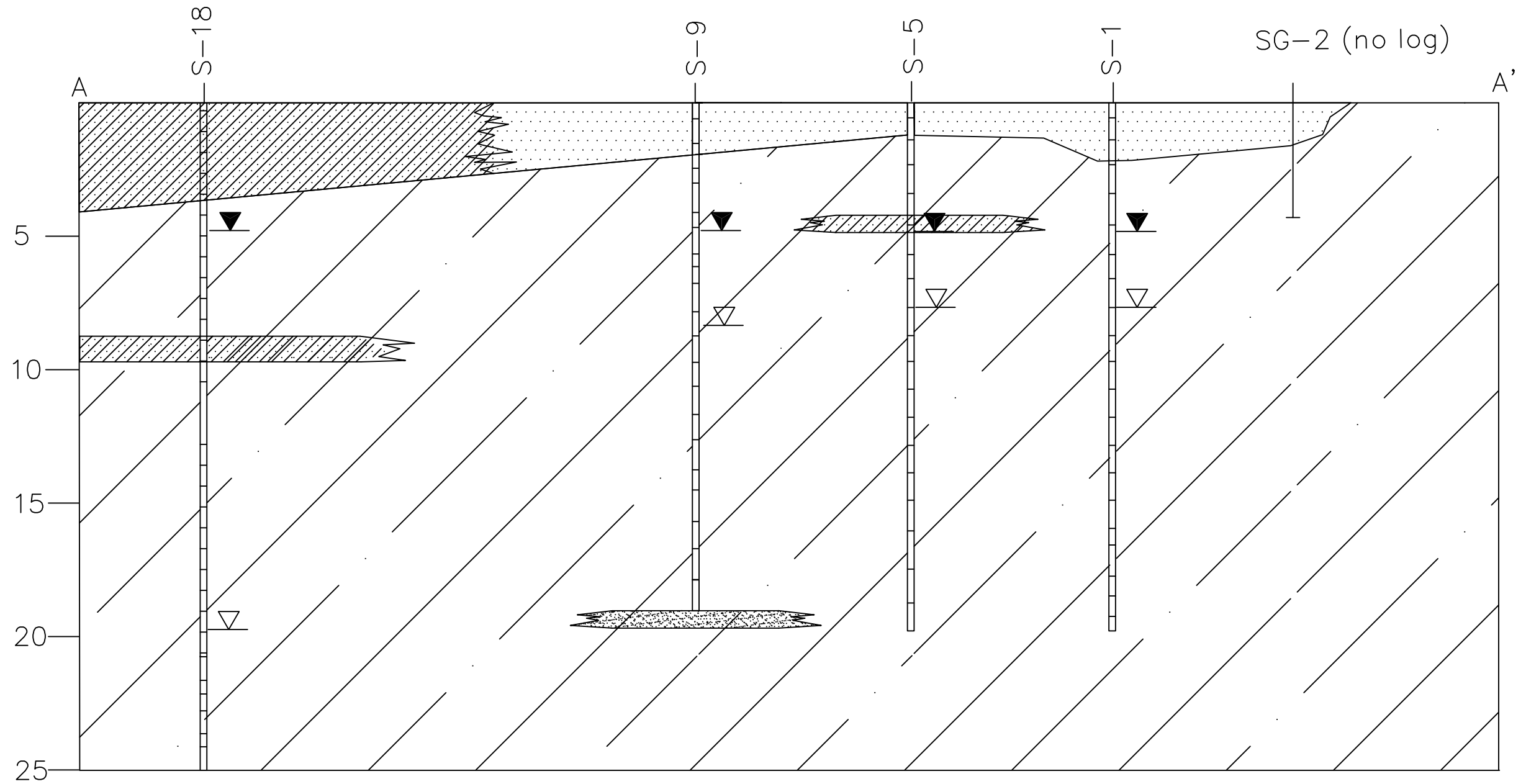
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





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DEPTH (feet)



-  FILL; GRAVEL, BASE ROCK
-  CLAY AND SILT
-  SILTY SAND, CLAYEY SAND AND SANDY SILT
-  SAND
-  FIRST ENCOUNTERED GROUNDWATER
-  WATER LEVE IN WELL, JANUARY 2008

 WELL-SCREENED INTERVAL

A TO A' = 270 FEET



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SHELL SERVICE STATION
SAN LEANDRO, CALIFORNIA

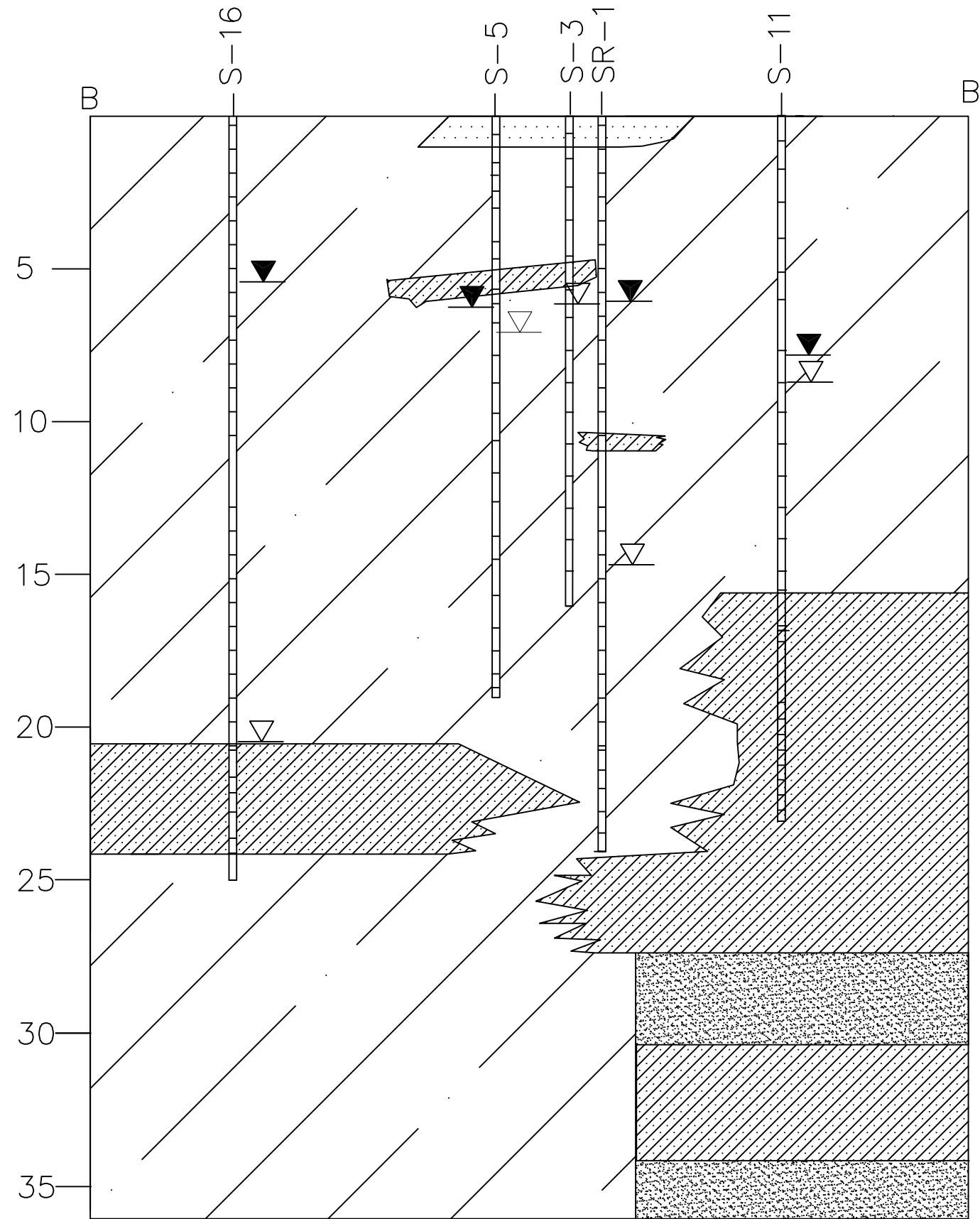
FIGURE 3

HYDROGEOLOGY CROSS SECTION A - A'








15275 WASHINGTON BLVD.
SAN LEANDRO, CALIFORNIA

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DEPTH (feet)



LEGEND

-  WELL-SCREENED INTERVAL
 -  FILL; GRAVEL, BASE ROCK
 -  CLAY AND SILT
 -  SILTY SAND, CLAYEY SAND AND SANDY SILT
 -  SAND
 -  FIRST ENCOUNTERED GROUNDWATER
 -  WATER LEVE IN WELL, JANUARY 2008
- B TO B' = 175 FEET



SHELL OIL PRODUCTS US
SHELL SERVICE STATION
SAN LEANDRO, CALIFORNIA

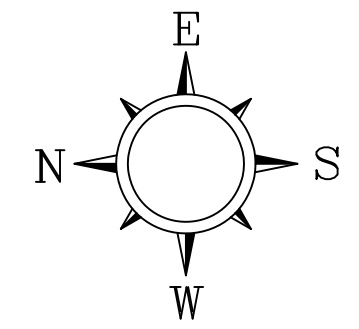
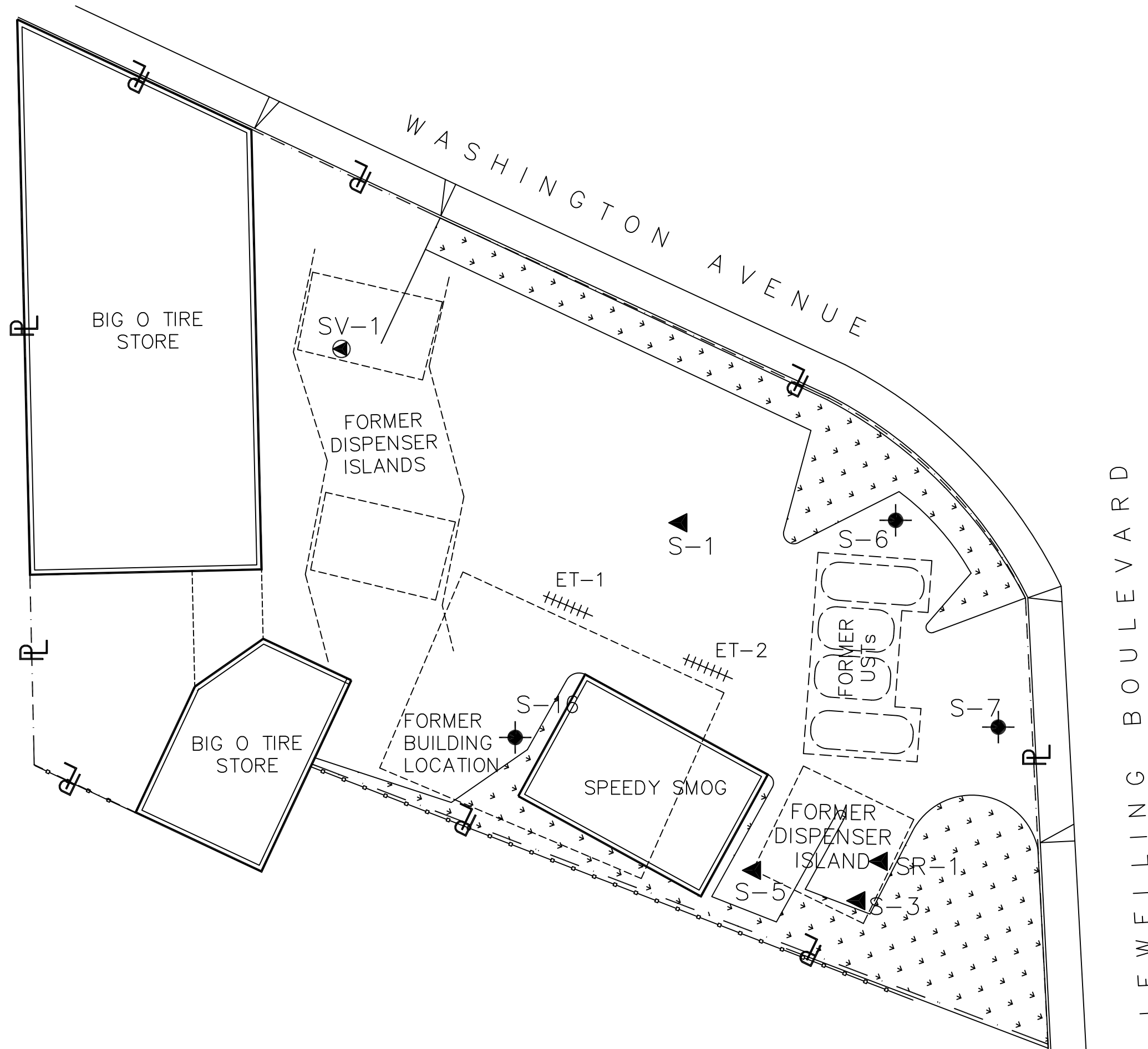
FIGURE 4
HYDROGEOLOGY CROSS SECTION B - B'
15375 WASHINGTON BLVD
SAN LEANDRO, CALIFORNIA

PROJECT NUMBER
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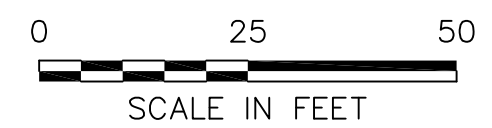
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- LEGEND**
- S-15 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 ▲ GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - SV-1 ● GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - ET-1 H H H EXTENDED TEST WELL LOCATION AND DESIGNATION
 - CURRENT BUILDING LOCATION
 - TRAILER PARK STRUCTUR
 - - - - FORMER BUILDING
 - - - - FORMER UST LOCATION
 - P - PROPERTY LINE
 - + - FENCING



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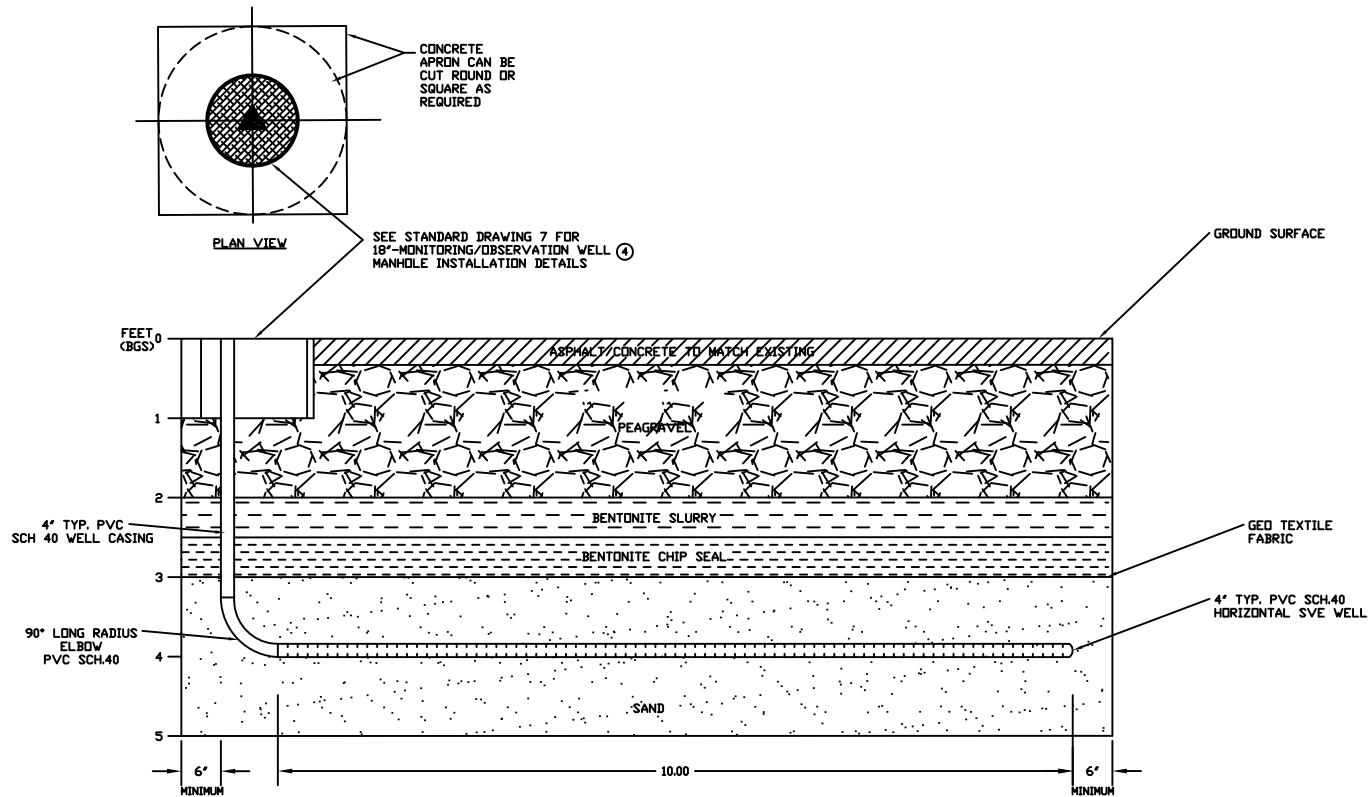
SHELL OIL PRODUCTS U.S.
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 5

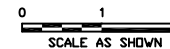
PROPOSED EXTENDED TEST WELL
LOCATIONS

15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

PROJECT NUMBER SCA152751
 APPROVED BY
 CHECKED BY
 DRAWN BY J.F.F. 1/19/2009



NOTE:
 TRENCH DIMENSION:
 LENGTH: 12'
 WIDTH: 1'
 DEPTH: 5'



DELTA CONSULTANTS

SHELL OIL PRODUCTS US
 FORMER SHELL BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA

FIGURE 6

WELL INSTALLATION DETAILS

15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

APPENDIX A
BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.01

BORING NO. S-1

PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling ,

PAGE 1 OF 2

BY JB DATE 6/18/85

San Leandro

SURFACE ELEV.

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ FL)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				0		ASPHALT	
				1	GC FILL		CLAYEY GRAVEL; Fill; dark olive gray (5Y, 3/2); fine to coarse gravel; 30-35% fines; damp; no product odor.
				3	CL		CLAY; dark gray (5Y, 4/1); trace fine sand; slightly silty; moist; no product odor.
			▽				
	1.25	28		10			@8.5': black (2.5Y, 3/0); no product odor. @10': grayish brown (2.5Y, 5/2); stiff; wet; slight product odor.
	3.0	25		15			
	1.5	12		20			@20': light olive brown (2.5Y, 5/4); very silty; firm; wet; no product odor.

REMARKS Drilled using 8-inch continuous flight hollow-stem auger.
Converted to a 3-inch monitoring well, detailed on Plate C.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.01

BORING NO. S-1


PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling,

PAGE 2 OF 2

BY JB DATE 6/18/85

San Leandro

SURFACE ELEV.

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Fl.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				20			HOLE TERMINATED AT 21½ FEET.
				25			

REMARKS



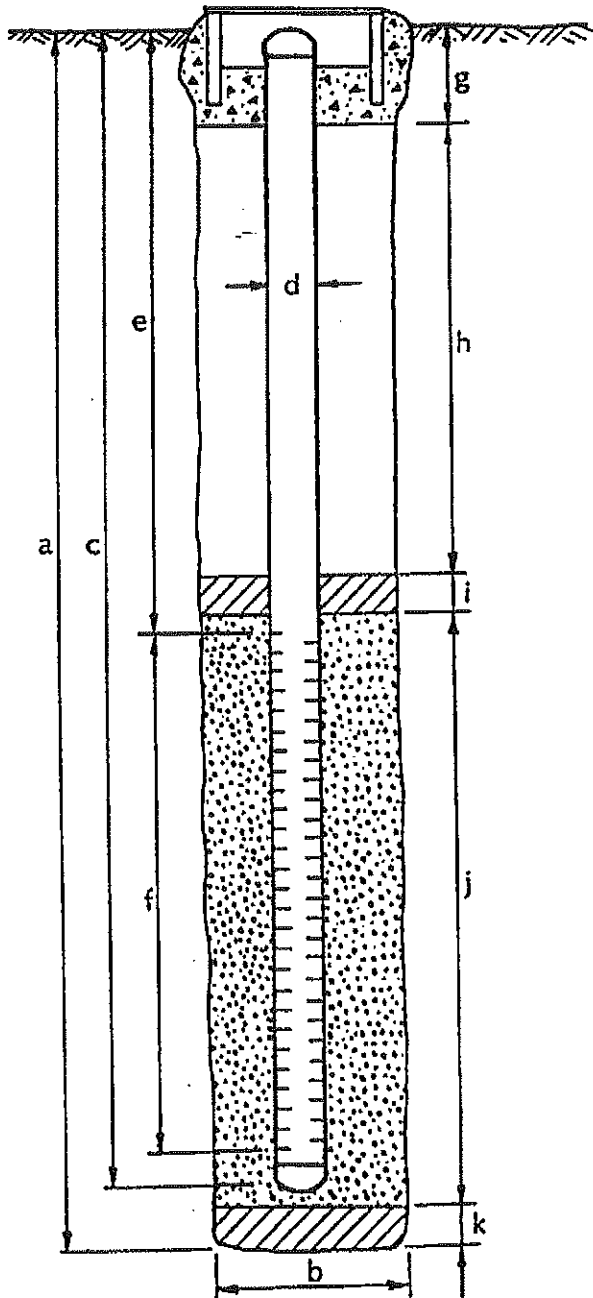
WELL DETAILS



PROJECT NUMBER 738-08.01
 PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling
 COUNTY Alameda
 WELL PERMIT NO. _____

BORING / WELL NO. S-1
 TOP OF CASING ELEV. _____
 GROUND SURFACE ELEV. _____
 DATUM _____

G-5 vault box (Std.)



EXPLORATORY BORING

- a. Total depth 21 1/2 ft.
- b. Diameter 8 in.
- Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

- c. Casing length 19 ft.
Material Schedule 40 PVC
- d. Diameter 3 in.
- e. Depth to top perforations 4 ft.
- f. Perforated length 15 ft.
Perforated interval from 4 to 19 ft.
Perforation type Machined Slot
Perforation size 0.020 inch
- g. Surface seal 1 ft.
Seal material Cement
- h. Backfill 2 ft.
Backfill material Cement
- i. Seal 1/2 ft.
Seal material Bentonite
- j. Gravel pack (3 1/2 to 19') 15 1/2 ft.
Pack material 6 x 12 Monterey Sand
- k. Bottom seal 2 1/2 ft.
Seal material Bentonite 20-21 1/2
Compacted Clay 19-20

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.01

BORING NO. S-2

PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling,
San Leandro

PAGE 1 OF 1

BY JB DATE 6/18/85

SURFACE ELEV.

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION
				0		ASPHALT	
				1		GC FILL	GRAVEL; Fill; 30% fines
				1.5		CL	CLAY; dark gray (5Y, 3/1); trace fine sand; slightly silty; moist; slight product odor.
			▽	5		SM	
	2.0	32		6		CL	SILTY SAND; very dark gray (5Y, 3/1); 50% fine sand; 50% silt; loose; wet; strong product odor.
				7		CL	CLAY; black (2.5Y, 2/0); slightly silty; very stiff; very moist; slight product odor.
				10			
				13.5			@13.5': grayish brown (2.5Y, 5/2); stiff; wet; no product odor.
	3.0	28		15			
				18.5			@18.5': light brownish gray (2.5Y, 6/2); 40% silt; trace fine sand; stiff; wet; no product odor.
	1.75	15		20			HOLE TERMINATED AT 20 FEET.

REMARKS Drilled using 8-inch continuous flight hollow-stem auger. Converted to 3-inch monitoring well, detailed on Plate E.



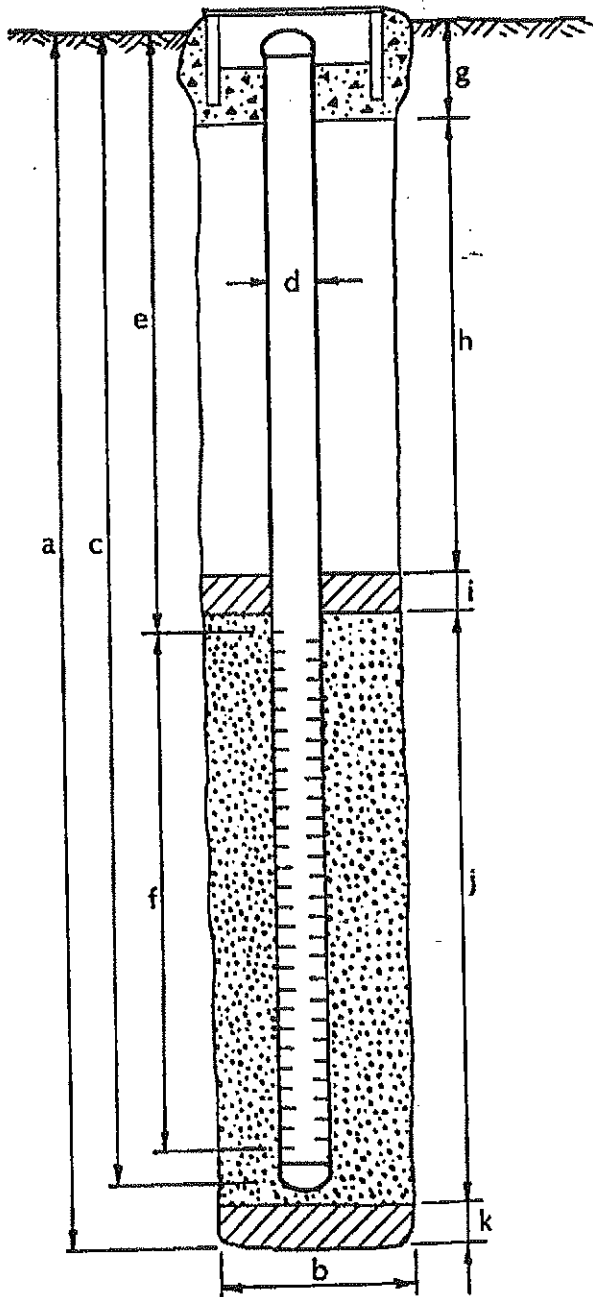
WELL DETAILS



PROJECT NUMBER 738-08.01
 PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling
 COUNTY Alameda
 WELL PERMIT NO. _____

BORING / WELL NO. S-2
 TOP OF CASING ELEV. _____
 GROUND SURFACE ELEV. _____
 DATUM _____

G-5 vault box (Std.)



EXPLORATORY BORING

a. Total depth 20 ft.
 b. Diameter 8 in.
 Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Casing length 18½ ft.
 Material Schedule 40 PVC
 d. Diameter 3 in.
 e. Depth to top perforations 4 ft.
 f. Perforated length 14½ ft.
 Perforated interval from 4 to 18½ ft.
 Perforation type Machined Slot
 Perforation size 0.020 inch
 g. Surface seal 1 ft.
 Seal material Cement
 h. Backfill 2 ft.
 Backfill material Cement
 i. Seal ½ ft.
 Seal material Bentonite
 j. Gravel pack (3½ to 18½') 15 ft.
 Pack material 6 x 12 Monterey Sand
 k. Bottom seal 1½ ft.
 Seal material Compacted clay

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.01

BORING NO. S-3






















PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling,

PAGE 1 OF 1

BY JB DATE 6/18/85

San Leandro

SURFACE ELEV.

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION
				0			ASPHALT GRAVEL; Fill
				1			CLAY; dark gray (5Y, 3/1); slightly silty; trace fine sand; moist; slight product odor.
				2			
				3			
		12	▽	4			SILTY SAND TO SANDY SILT; very dark gray (5Y, 3/1); 50% fine sand; 50% silt; loose wet; strong product odor; saturated with product
				5			
				6			CLAY; dark gray (5Y, 4/1); silty; firm; very moist; slight product odor.
				7			
				8			
	1.25	11		9			@ 10': no product odor.
				10			
				11			@ 15': stiff; wet; no product odor.
				12			
				13			
	3.0	24		14			HOLE TERMINATED AT 16 1/2 FEET.
				15			
				16			
				17			
				18			
				19			
				20			

REMARKS Drilled using 8-inch continuous flight hollow-stem auger. Converted to 3-inch monitoring well, detailed on Plate G.



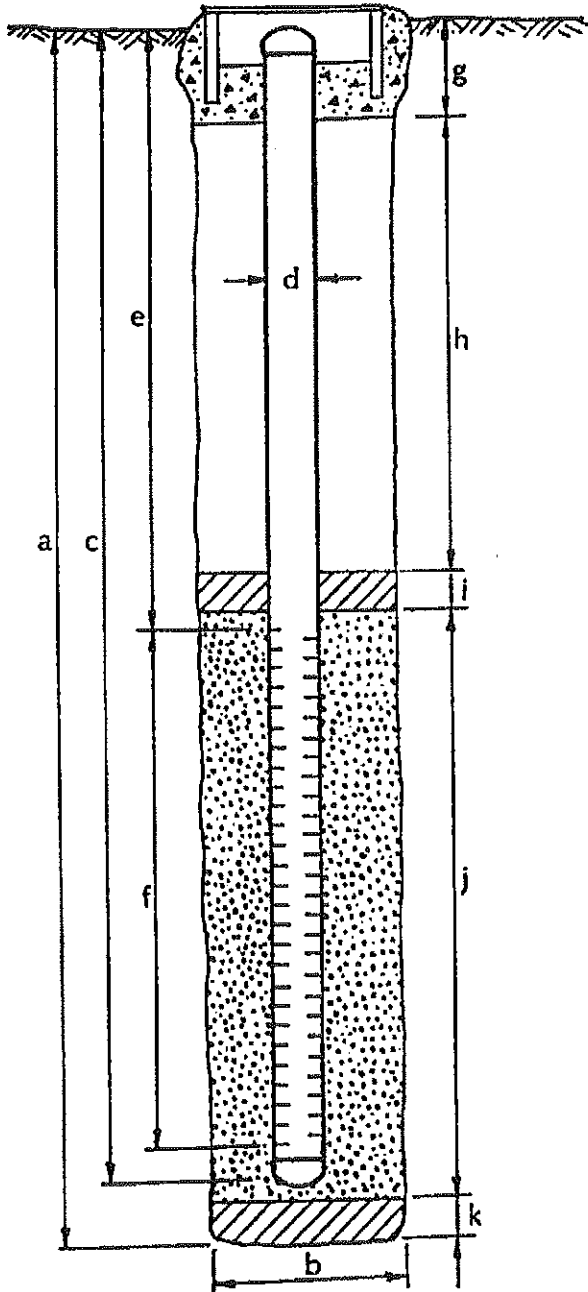
WELL DETAILS



PROJECT NUMBER 738-08.01
 PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling
 COUNTY Alameda
 WELL PERMIT NO. _____

BORING / WELL NO. S-3
 TOP OF CASING ELEV. _____
 GROUND SURFACE ELEV. _____
 DATUM _____

G-5 vault box (Std.)



EXPLORATORY BORING

a. Total depth 16½ ft.
 b. Diameter 8 in.
 Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Casing length 16½ ft.
 Material Schedule 40 PVC
 d. Diameter 3 in.
 e. Depth to top perforations 4 ft.
 f. Perforated length 12½ ft.
 Perforated interval from 4 to 16½ ft.
 Perforation type Machined Slot
 Perforation size 0.020 inch
 g. Surface seal 1 ft.
 Seal material Cement
 h. Backfill 1 ft.
 Backfill material Cement
 i. Seal 1 ft.
 Seal material Bentonite
 j. Gravel pack (3 to 16½') 13½ ft.
 Pack material 6x12 Monterey Sand
 k. Bottom seal - ft.
 Seal material -

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.01 BORING NO. S-4
 PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling, PAGE 1 OF 1
 BY JDB DATE 6/18/85 San Leandro SURFACE ELEV.

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION
				0		CONCRETE.	
					GW	CL	GRAVEL FILL.
						CL	CLAY; dark gray (2.5Y, 3/2); slightly silty; moist; slight product odor.
		11	▽	5	SP-ML	CL	SILTY SAND to SANDY SILT; very dark gray (5Y, 3/1); loose; wet; strong product odor; saturated with product.
	2.0	9		10		CL	CLAY; dark gray (5Y, 4/1); very silty; firm; wet; moderate product odor.
				15			@ 15': less silt; stiff; no product odor.
	2.75	24		18			HOLE TERMINATED AT 18 FEET.
				20			

REMARKS Drilled using 8-inch continuous flight hollow-stem auger. converted to 3-inch monitoring well as detailed on Plate I.



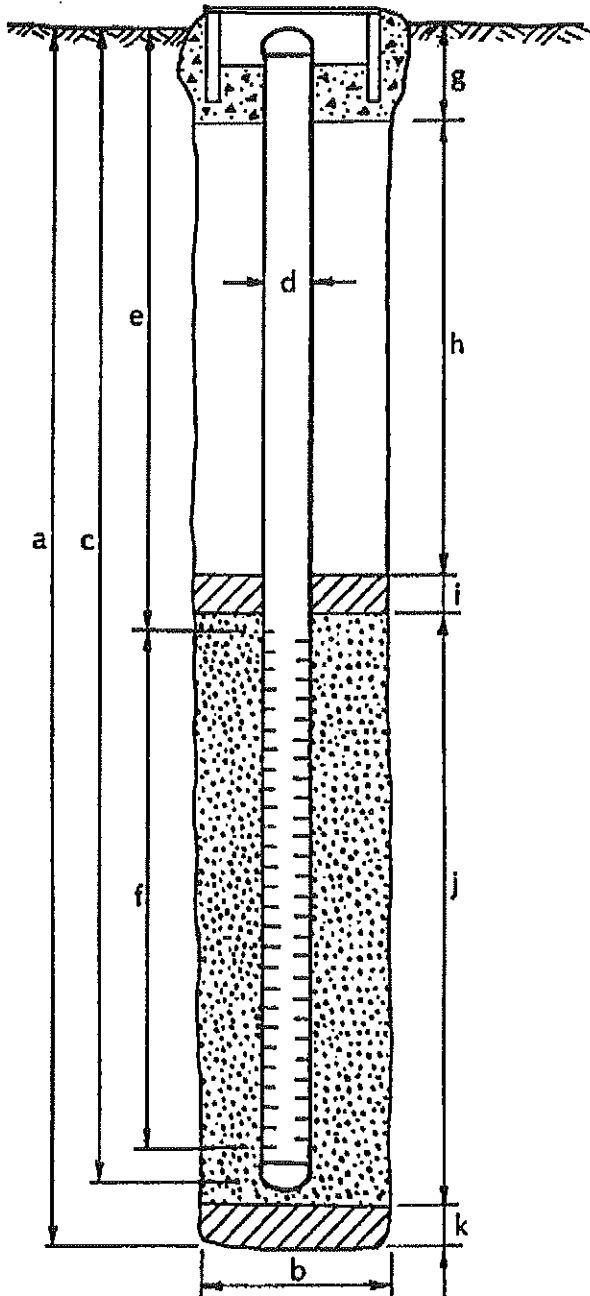
WELL DETAILS



PROJECT NUMBER 738-08.01
 PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling
 COUNTY Alameda
 WELL PERMIT NO. _____

BORING / WELL NO. S-4
 TOP OF CASING ELEV. _____
 GROUND SURFACE ELEV. _____
 DATUM _____

G-5 vault box (Std.)



EXPLORATORY BORING

a. Total depth 18 ft.
 b. Diameter 8 in.
 Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Casing length 18 ft.
 Material Schedule 40 PVC
 d. Diameter 3 in.
 e. Depth to top perforations 4 ft.
 f. Perforated length 14 ft.
 Perforated interval from 4 to 18 ft.
 Perforation type Machined Slot
 Perforation size 0.020 inch
 g. Surface seal 1 ft.
 Seal material Cement
 h. Backfill 1 ft.
 Backfill material Cement
 i. Seal 1 ft.
 Seal material Bentonite
 j. Gravel pack (3 to 18') 15 ft.
 Pack material 6x12 Monterey Sand
 k. Bottom seal _____ ft.
 Seal material _____

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.02

BORING NO. S-A

PROJECT NAME Gettler-Ryan, Shell, Lewelling Bl. & Washington Av. PAGE 1 OF 1

BY EBL DATE 8/15/86

San Leandro

SURFACE ELEV. 22'±

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
	2.0	10	▽	5		ML	ASPHALT, SAND, AND GRAVEL-FILL.
				10	1	CH	SANDY SILT; very dark gray (10YR, 3/1); 30-40% fine sand; soft; wet; strong product odor.
				15			CLAY; black (10YR, 2/1); 10-20% fine sand; stiff; wet; strong product odor.
				20			BOTTOM OF BORING AT 8 FEET.
				25			
				30			
				35			
				40			

REMARKS

Drilled by 8-inch continuous-flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler. Boring backfilled with cuttings to 1 foot; concrete to surface.

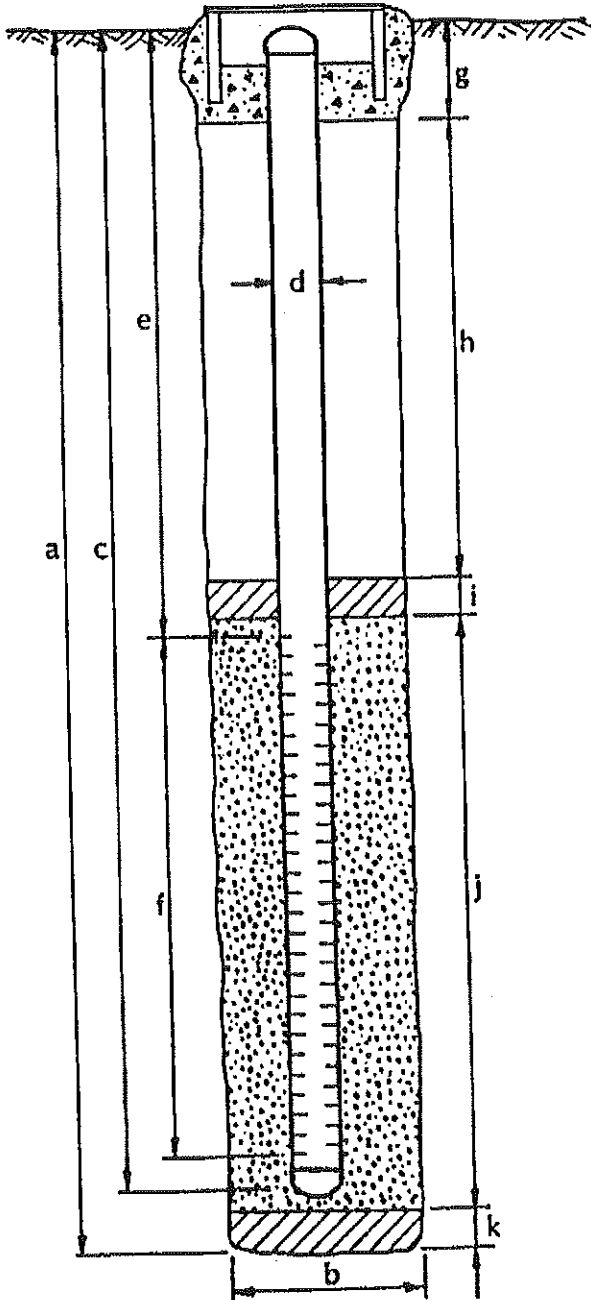
WELL DETAILS



PROJECT NUMBER 738-08.02
 PROJECT NAME G-R Shell, San Leandro
 COUNTY Alameda
 WELL PERMIT NO. _____

BORING / WELL NO. S-B
 TOP OF CASING ELEV. _____
 GROUND SURFACE ELEV. 22' MSL
 DATUM USGS

G-5 vault box (Std.)



EXPLORATORY BORING

a. Total depth 15.5 ft.
 b. Diameter 8 in.
 Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Casing length 15.5 ft.
 Material Schedule 40 PVC
 d. Diameter 3 in.
 e. Depth to top perforations 1 ft.
 f. Perforated length 14.5 ft.
 Perforated interval from 14.5 to 1 ft.
 Perforation type Machined Slot
 Perforation size .020 inch
 g. Surface seal 0.3 ft.
 Seal material Bentonite
 h. Backfill 0 ft.
 Backfill material _____
 i. Seal 0.7 ft.
 Seal material Concrete
 j. Gravel pack (13.9 to 1 Ft.) 12.9 ft.
 Pack material Coarse Aquarium Sand
 k. Bottom seal 0 ft.
 Seal material _____
 Note: Borehole caved to 13.9 feet.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.02 BORING NO. S-C
 PROJECT NAME Gettler-Ryan, Shell, Lewelling Bl. & Washington Av. PAGE 1 OF 1
 BY EBL DATE 8/15/86 San Leandro SURFACE ELEV. 22' ± MSL

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				4	1	SW	CONCRETE, SAND, and GRAVEL- FILL.
				5	2	CL	SAND-FILL; dark gray (10YR, 4/1); < 10% fines; fine to coarse sand; loose; damp; strong product odor.
			▽	10	3	SW	CLAY-FILL; very dark gray (2.5Y, N3); 10-20% fine sand; soft; moist; strong product odor.
1.5		13		15	4	CH	SAND-FILL; dark gray (10YR, 4/1); < 10% fines; fine to coarse sand; loose; wet; strong product odor.
3.0		21		20	5		CLAY; very dark grayish brown. (2.5Y, 3/2); 15-25% fine sand; stiff; wet; faint product odor. @ 14': very stiff; faint product odor. @ 15-1/2': stiff; moist; no product odor.
2.5				25			
				30			
				35			
				40			BOTTOM OF BORING AT 17 FEET.

REMARKS

Drilled by 8-inch continuous-flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler. Boring backfilled with Bentonite to 12 feet, cuttings to 1 foot, and concrete to surface.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.02

BORING NO. S-D

PROJECT NAME Gettler-Ryan, Shell, Lewelling Bl. & Washington Av. PAGE 1 OF 1

BY EBL DATE 8/15/86

San Leandro

SURFACE ELEV. 22' ± MSL

TORVANE (TSF)	POCKET PENETRO- METER (PSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				2	1	SP	CONCRETE, SAND, and GRAVEL-FILL.
				5	2		SAND; very dark gray (10YR, 3/1); < 10% fines; fine sand; loose; moist; strong product odor.
				10	3		@ 7': moderate product odor.
				12			@ 11': wet; strong product odor; product sheen on sampler.
	3.0	26		15	4	CL	CLAY; very dark grayish brown; (2.5Y, 3/2); 10-20% fine sand; very stiff; moist; no product odor.
				15-1/2			BOTTOM OF BORING AT 15-1/2 FEET.
				20			
				25			
				30			
				35			
				40			

REMARKS

Drilled by continous-flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler. Boring backfilled with Bentonite to 12 feet, cuttings to 1 foot, and concrete to surface.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.03

BORING NO. S-5

PROJECT NAME Gettler-Ryan, Shell, Washington & Lewelling

PAGE 1 OF 2

BY JDB DATE 12/24/86

SURFACE ELEV. 21.71'

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				1	GP		ASPHALT GRAVEL-FILL; coarse baserock.
				2	CL		CLAY; dark gray (5Y, 4/1); 98-100% low- to moderate-plasticity fines; <2% fine sand; stiff; damp; no gasoline odor. @4': slight gasoline odor.
	1.25	9	▽	5	1	SC	CLAYEY SAND; dark gray (5Y, 4/1); 20-40% low-plasticity fines; 60-80% fine sand; loose; moist; slight to mod- erate gasoline odor.
			▽	7	ML CH- CL		SANDY SILT; dark gray (5Y, 4/1); 70-90% non-plastic fines; 10-30% fine sand; stiff; moderate gasoline odor.
	1.5	17		10	2		CLAY; black (5Y, 2.5/1); 100% moderate- to high-plasticity fines; occasion- ally calcareous; stiff to very stiff; wet in voids; slight gasoline odor to 10 feet.
				14	CH		@14': gray (5Y, 6/1); 100% high-plas- ticity fines; very stiff; very moist; no gasoline odor.
	2.25	22		15	3		@19': abundant caliche disseminated; no gasoline odor.
	2.0	29		20	4		

REMARKS

Drilled with 8- and 12-inch continuous-flight, hollow-stem auger drilling equipment. Converted to a 4-inch monitoring well as detailed on Plate B.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.03

BORING NO. S-5

PROJECT NAME Gettler-Ryan, Shell, Washington & Lewelling

PAGE 2 OF 2

BY JDB DATE 12/24/86

SURFACE ELEV. 21.71'

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT. SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				20	[Hatched Box]	BOTTOM OF BORING AT 20.5 FEET
				25		
				30		
				35		
				40		

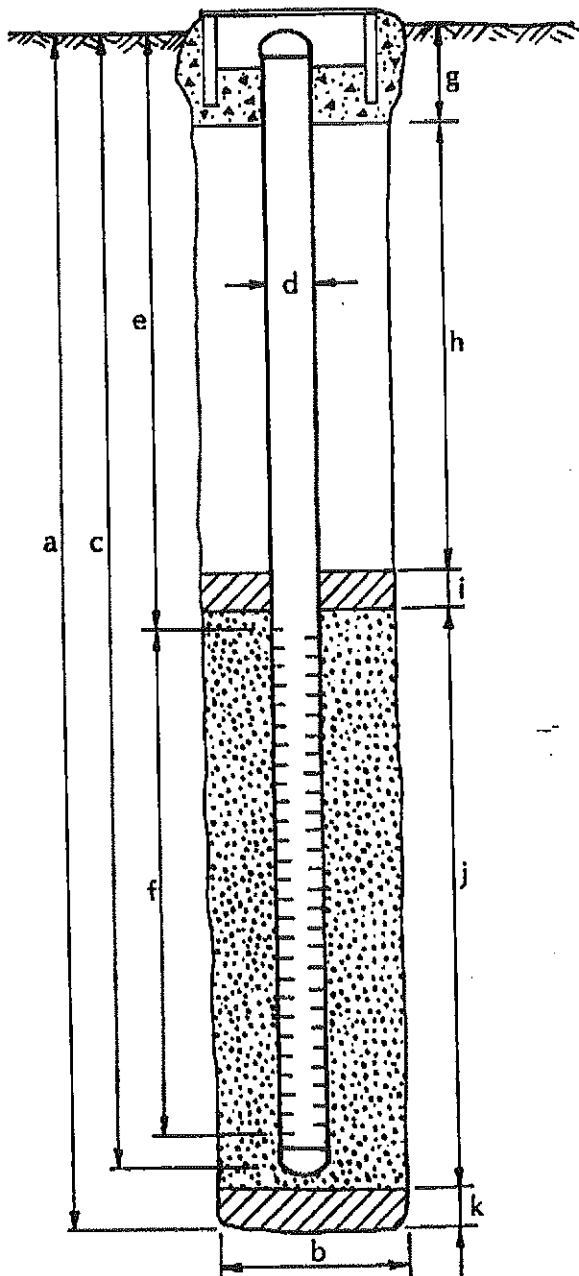
REMARKS

WELL DETAILS



PROJECT NUMBER 738-08.03 BORING / WELL NO. S-5
 PROJECT NAME Shell, Washington & Lewelling TOP OF CASING ELEV. 21.24'
 COUNTY Alameda San Leandro GROUND SURFACE ELEV. 21.71'
 WELL PERMIT NO. _____ DATUM Project

G-5 vault box (Std.)



EXPLORATORY BORING

- a. Total depth 20½ ft.
 b. Diameter 12 in.
 Drilling method Hollow-stem auger

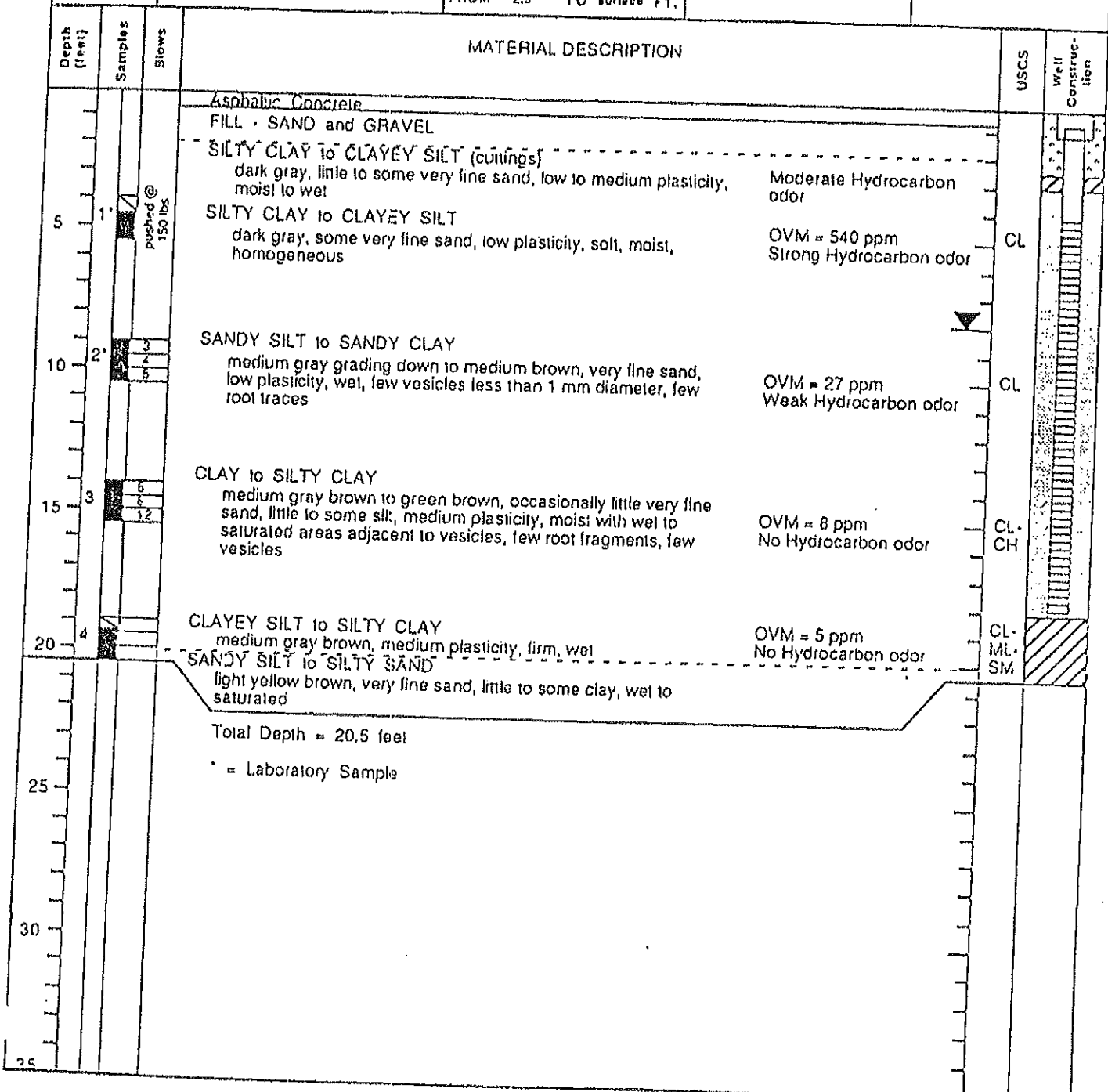
WELL CONSTRUCTION

- c. Casing length 18½ ft.
 Material schedule 40 PVC
 d. Diameter 4 in.
 e. Depth to top perforations 3½ ft.
 f. Perforated length 15 ft.
 Perforated interval from 18½ to 3½ ft.
 Perforation type machined slot
 Perforation size 0.020 inch
 g. Surface seal (1 - 0') 1 ft.
 Seal material concrete
 h. Backfill (1½ - 1') ½ ft.
 Backfill material concrete
 i. Seal (2½ - 1½') 1 ft.
 Seal material Bentonite
 j. Gravel pack (18½ - 2½') 16 ft.
 Pack material 6x12 Monterey Sand
 k. Bottom seal (20½ - 18½') 2 ft.
 Seal material compacted clay

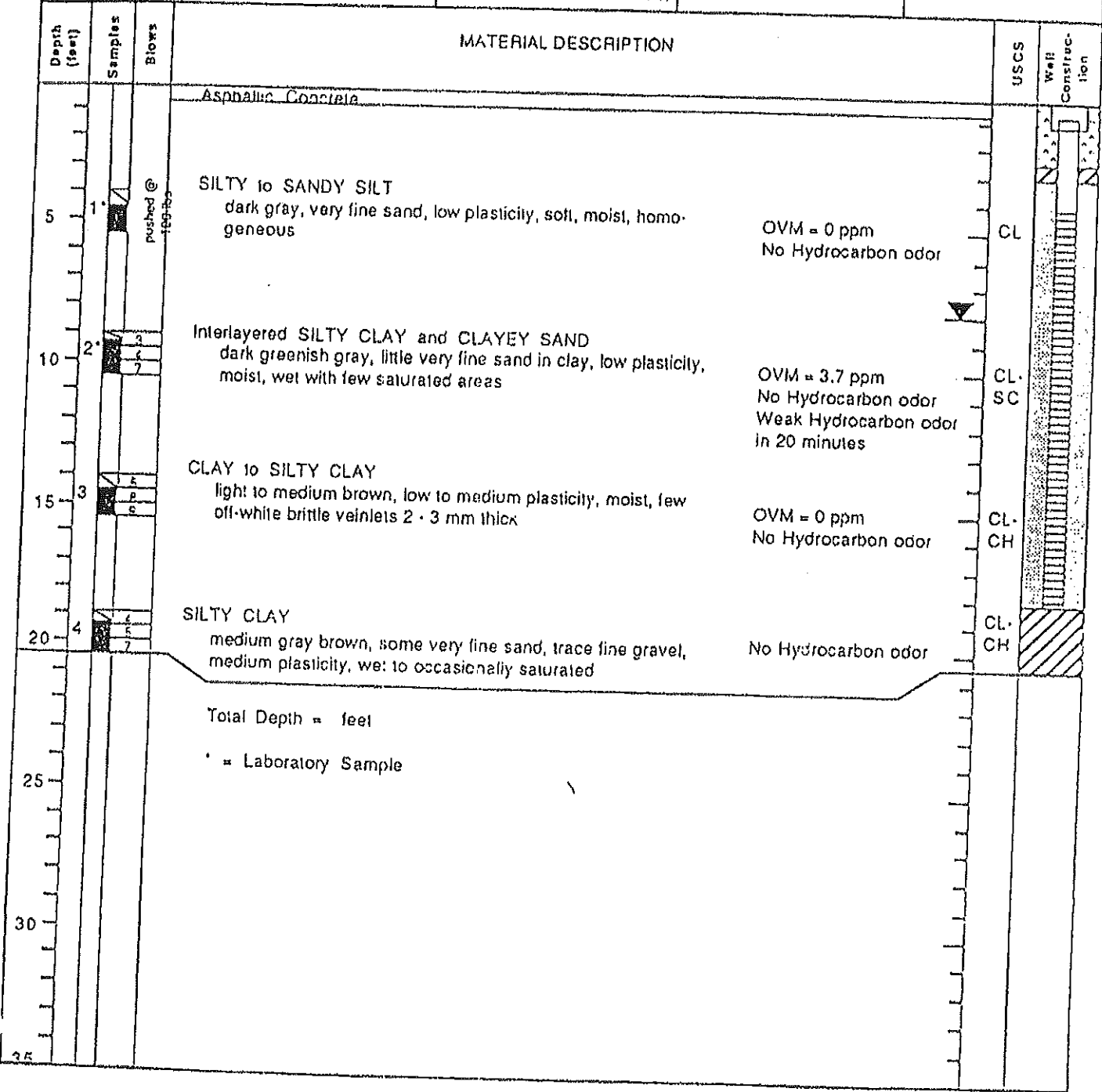
MONITORING WELL LOCATION 15275 Washington Ave., San Leandro, CA (S-7)			ELEVATION AND DATUM		
DRILLING AGENCY Bay Land Drilling		DRILLER TomvMach	DATE STARTED 11/3/86		
DRILLING EQUIPMENT CME-55			COMPLETION DEPTH 24.5'	SAMPLER Modified California	
DRILLING METHOD 8" Hollow stem auger		DRILL BIT CME Carbide	NO. OF SAMPLES	DIST. 5	UNDIST. 5
SIZE AND TYPE OF CASING Sch 40 3" PVC		FROM 24.0 TO 0.5 FT.	WATER LEVEL	FIRST -8'	COMPL. 24 HRS.
TYPE OF PERFORATION 0.02"		FROM 24.0 TO 4.0 FT.	LOGGED BY: R. Siegel		CHECKED BY: M. Honkowsk
SIZE AND TYPE OF PACK 2/12 Monterey Sand		FROM 24.5 TO 3.0 FT.			
TYPE OF SEAL	NO. 1 Bentonite	FROM 3 TO 2.5 FT.			
	NO. 2 Cement grout	FROM 2.5 TO 0.5 FT.			

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
			Asphaltic Concrete		
5	1 pushed @ 200 lbs		FILL - CLAY silty sandy clay with large pebbles to 2" diameter, plastic, moist to wet, cohesive, Note: pipe encountered at -5', moved auger over slightly	CL	
			-----?-----?-----		
10	2 5 6 10		CLAY black mottled with green, low plasticity, stiff, dry, moderate cohesion	CL	
15	3 6 9 12		SILTY CLAY mottled black and brown, gravelly clay present in top, stiff, dry, moderate cohesion	CL	
20	4 7 7 6		same as Silty Clay above	CL	
25	5 5 5 4		same as Silty Clay above but some fine sands present	CL	
25			Total Depth = 24.5 feet		
			* = Laboratory Sample		
30					
35					

MONITORING WELL LOCATION		15275 Washington Ave., San Leandro, CA (S-8)		ELEVATION AND DATUM	
DRILLING AGENCY	Bay Land Drilling	DRILLER	Tom/Mack	DATE STARTED	11/4/88
DRILLING EQUIPMENT	CME - 55			DATE FINISHED	
DRILLING METHOD	8" Hollow stem auger	DRILL BIT	CME Carbide	COMPLETION DEPTH	18'
SIZE AND TYPE OF CASING	Sch 40 3" PVC	FROM	18.0 TO 0.5 FT.	SAMPLER	Modified California
TYPE OF PERFORATION	0.02"	FROM	17.5 TO 4.0 FT.	NO. OF SAMPLES	4
SIZE AND TYPE OF PACK	2/12 Monterey Sand	FROM	18 TO 3.0 FT.	DIST.	UNDIST.
TYPE OF SEAL	NO. 1 1/2" Bentonite Pellets	FROM	3 TO 2.5 FT.	WATER LEVEL	FIRST 8' +/-
	NO. 2 Cement grout	FROM	2.5 TO surface FT.	LOGGED BY:	G. Heyman
				CHECKED BY:	M. Bonowski



MONITORING WELL LOCATION 15275 Washington Ave., San Leandro, CA (S-10)		ELEVATION AND DATUM	
DRILLING AGENCY Bay Land Drilling	DRILLER TonyMack	DATE STARTED 11/4/88	
DRILLING EQUIPMENT CME - 55		COMPLETION DEPTH 16'	SAMPLER Modified California
DRILLING METHOD 8" Hollow stem auger	DRILL BIT CME Carbide	NO. OF SAMPLES 4	DIST. 4
SIZE AND TYPE OF CASING Sch 40 3" PVC	FROM 18.0 TO 0.5 FT.	WATER LEVEL	FIRST 8' +/-
TYPE OF PERFORATION 0.02"	FROM 17.5 TO 4.0 FT.	LOGGED BY: G. Heyman	CHECKED BY: M. Bonkowski
SIZE AND TYPE OF PACK 2/12 Monterey Sand	FROM 18 TO 3.0 FT.		
TYPE OF SEAL	NO. 1 1/2" Bentonite Pellets	FROM 3 TO 2.5 FT.	
	NO. 2 Cement grout	FROM 2.5 TO surface FT.	



MONITORING WELL LOCATION 15275 Washington Ave., San Leandro, CA (S-12)		ELEVATION AND DATUM	
DRILLING AGENCY Bay Land Drilling	DRILLER Tom/Mack	DATE STARTED 11/4	
DRILLING EQUIPMENT CME - 55		COMPLETION DEPTH 24.5'	SAMPLER Modified California
DRILLING METHOD 8" Hollow stem auger	DRILL BIT CME Carbide	NO. OF SAMPLES	DIST. 5
SIZE AND TYPE OF CASING Sch 40 3" PVC	FROM 24.0 TO 0.5 FT.	WATER LEVEL	FIRST 8'
TYPE OF PERFORATION 0.02"	FROM 23.5 TO 3.5 FT.	LOGGED BY: G. Heyman	
SIZE AND TYPE OF PACK 2/12 Monterey Sand	FROM 24.0 TO 3.0 FT.	CHECKED BY: M. Bonkowski	
TYPE OF SEAL	NO. 1 1/2" Bentonite Pellets	FROM 3 TO 2.5 FT.	
	NO. 2 Cement grout	FROM 2.5 TO surface FT.	

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
0 - 2.5			Asphaltic Concrete		
2.5 - 5.0	1	pushed @ 200 lbs	CLAYEY SAND to SANDY CLAY grading down to SILTY CLAY TO CLAYEY SILT greenish gray at top with gray mottling in middle and bottom of sample, very fine sand, low plasticity, moist, generally homogeneous	CL	
5.0 - 10.0	2	4 5 7	SILTY CLAY dark brownish gray, some very fine sand, low plasticity, firm, moist to wet, few beds of clay, sand to 1/4" thick	CL	
10.0 - 15.0	3	5 8 11	CLAY to SILTY CLAY medium grayish brown, some silt grading to silty clay, medium plasticity, wet homogeneous Driller indicates drilling through a series of 2 - 4" gravel layers from 16 - 19'	CL	
15.0 - 20.0	4	3 4 5	CLAY to SANDY CLAY medium grayish brown, little to some very fine sand occasionally grading to sandy clay, low to medium plasticity, firm, saturated	CL	
20.0 - 25.0	5	4 5 7	CLAYEY SAND to SANDY CLAY medium yellow brown, very fine sand, saturated	CL	
25.0 - 24.5			SILTY CLAY to CLAYEY SILT medium yellow brown, up to some very fine sand, low to medium plasticity, saturated	CL	
24.5	Total Depth = 24.5 feet				
	* = Laboratory Sample				

Field location of boring:				Project No.: 7615		Date: 4/26/89		Boring No: S-13	
				Client: Shell		Location: 15275 Washington Ave/Lewelling		Sheet 1 of 2	
				City: San Leandro		Logged by: DAF		Driller: Bayland	
				Casing installation data:					
Drilling method: Hollow Stem Auger				Top of Box Elevation:		Datum:			
Hole diameter: 8 inch				Water Level 8.4'		7.3'			
				Time 11:50am					
				Date 4/26		5/10			
				Description					
				PAVEMENT SECTION - 2 feet.					
				CLAY (CL)- dark gray (10YR 4/1); soft; damp; low plasticity; trace gravel; no chemical odor.					
350 150 S&H S-13-5' push				color change to dark olive gray (5Y 3/2); no chemical odor.					
				▼					
50 2 S&H S-13-10'				SILTY SAND (SM)- light olive brown (2.5Y 5/4); loose; damp; 20-30% silt; mottled brown; no chemical odor.					
				CLAY (CL)- dark olive gray (5Y 3/2), medium stiff; damp; low plasticity; trace gravel; rootholes; no chemical odor.					
40 3 S&H S-13-15'				color change to very dark gray (5Y 3/1) mottled; organics present; no chemical odor.					
				▼ becoming saturated at 17.5 feet.					
0 2 S&H S-13-20'				SANDY SILT (ML)- light yellowish brown (2.5Y 6/4); medium stiff; saturated;					
Remarks:									



GeoStrategies Inc.

BORING NO.

S-13

JOB NUMBER
7615

REVIEWED BY RG/CEG
Camp CEG 1262

DATE
5/89

REVISED DATE

REVISED DATE

Field location of boring:				Project No.: 7615		Date: 4/26/89		Boring No: S-13	
				Client: Shell					
				Location: 15275 Washington Ave/Lewelling				Sheet 1 of 2	
				City: San Leandro		Driller: Bayland			
				Logged by: DAF					
				Casing installation data:					
Drilling method: Hollow Stem Auger				Top of Box Elevation:		Datum:			
Hole diameter: 8 inch				Water Level 8.4'		7.3'			
				Time 11:50am					
				Date 4/26		5/10			
				Description					
				PAVEMENT SECTION - 2 feet.					
				CLAY (CL)- dark gray (10YR 4/1); soft; damp; low plasticity; trace gravel; no chemical odor.					
				color change to dark olive gray (5Y 3/2); no chemical odor.					
				▼					
				SILTY SAND (SM)- light olive brown (2.5Y 5/4); loose; damp; 20-30% silt; mottled brown; no chemical odor.					
				CLAY (CL)- dark olive gray (5Y 3/2), medium stiff; damp; low plasticity; trace gravel; rootholes; no chemical odor.					
				color change to very dark gray (5Y 3/1) mottled; organics present; no chemical odor.					
				▼ becoming saturated at 17.5 feet.					
				SANDY SILT (ML)- light yellowish brown (2.5Y 6/4); medium stiff; saturated;					
Remarks:									



GeoStrategies Inc.

BORING NO.

S-13

JOB NUMBER
7615

REVIEWED BY RG/CEG
Camp CEG 1262

DATE
5/89

REVISED DATE

REVISED DATE

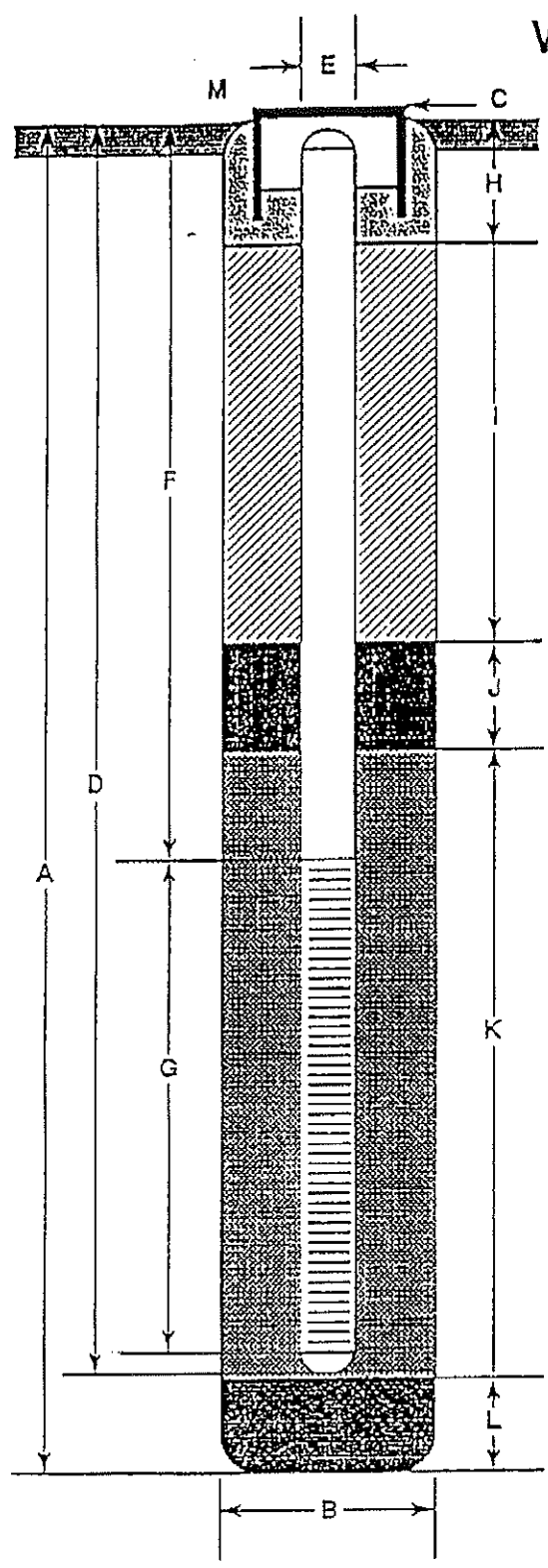
Field location of boring:	Project No.: 7615	Date: 4/26/89	Boring No:
	Client: Shell		S-13
	Location: 15275 Washington Ave/Lewelling		Sheet 2
	City: San Leandro	Logged by: DAF	Driller: Bayland
	Casing installation data:		

Drilling method: **Hollow Stem Auger**
Hole diameter: **8 inch**

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Top of Box Elevation:			Datum:		
								Water Level	Time	Date			
	4			21				Description					
				22				15% very fine to fine sand; 10% clay; trace organics; rootholes; mottled brown & black; no chemical odor.					
				23									
25	2	S&H	S-13-	24				SILTY CLAY (CL-ML)- light olive brown (2.5Y 5/4); medium stiff; moist; trace organics; mottled brown & black; no chemical odor.					
	3		25'	25				Bottom of boring 24.0 feet, Sampled to 25.5 feet 4/26/89					
	4												

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 24 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method HOLLOW STEM AUGER
- C Top of Box Elevation _____ 20.57 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 23.5 ft.
Material _____ SCH 40 PVC
- E Casing Diameter _____ 3 in.
- F Depth to Top Perforations _____ 4 ft.
- G Perforated Length _____ 20 ft.
Perforated Interval from 4 to 24 ft.
Perforation Type FACTORY SLOTTED
Perforation Size _____ 0.020
- H Surface Seal _____ 2.5 ft.
Seal Material _____ CONCRETE
- I Backfill _____ ft.
Backfill Material _____
- J Seal _____ 0.5 ft.
Seal Material _____ BENTONITE
- K Gravel Pack _____ 21 ft.
Pack Material _____ LONESTAR 2/12 & #3
- L Bottom Seal _____ ft.
Seal Material _____
- M _____ CHRISTY BOX

Field location of boring:	Project No.: 7615	Date: 4/26/89	Boring No:
	Client: Shell		S-14
	Location: 15275 Washington Ave/Lewelling		Sheet 1
	City: San Leandro		of 2
	Logged by: DAF	Driller: Bayland	
Casing installation data:			

Drilling method: **Hollow Stem Auger**
Hole diameter: **8 inch**

Top of Box Elevation:	Datum:
Water Level: 9'	
Time: 10:00am	
Date: 4/26/89	

PTD (ppm)	Flow. It. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
				1				PAVEMENT SECTION - 2 feet.
				2				
				3				SILTY CLAY (CL-ML)- dark gray (2.5Y N4); soft; damp.
500	150	S&H push	S-14-5'	4				becoming firm at 5 feet; with slight odor.
				5				
				6				
				7				SILTY SAND (SM)- olive (5Y 4/3); loose; damp; 30% medium sand; 20% very fine to fine sand; trace clay; no chemical odor, comment: drill cuttings.
				8				
50	2	S&H	S-14-	9				CLAY (CL)- dark gray (2.5Y N4); stiff; damp; low plasticity; no chemical odor.
	3		10'	10				
	4			11				CLAY WITH SAND (CL)- light yellowish brown (2.5Y 6/4); medium stiff; damp; 10% very fine to fine sand; 5-10% silt; trace caliche nodules; mottled; no chemical odor.
				12				
				13				
0	2	S&H	S-14-	14				CLAY (CL)- dark gray (2.5Y N4); stiff; damp; low plasticity; pockets of silt; trace black & brown organics; no chemical odor.
	6		15'	15				color change to grayish brown (2.5Y 5/2) at 15 feet.
	7			16				
				17				
				18				
				19				becoming saturated at 19 feet.
50	2	S&H	S-14-	20				
	6		20'					

Remarks:

Field location of boring:	Project No.: 7615	Date: 4/26/89	Boring No:
	Client: Shell		S-14
	Location: 15275 Washington Ave/Lewelling		Sheet 2
	City: San Leandro		of 2
	Logged by: DAF	Driller: Bayland	
Casing installation data:			

Drilling method: **Hollow Stem Auger**

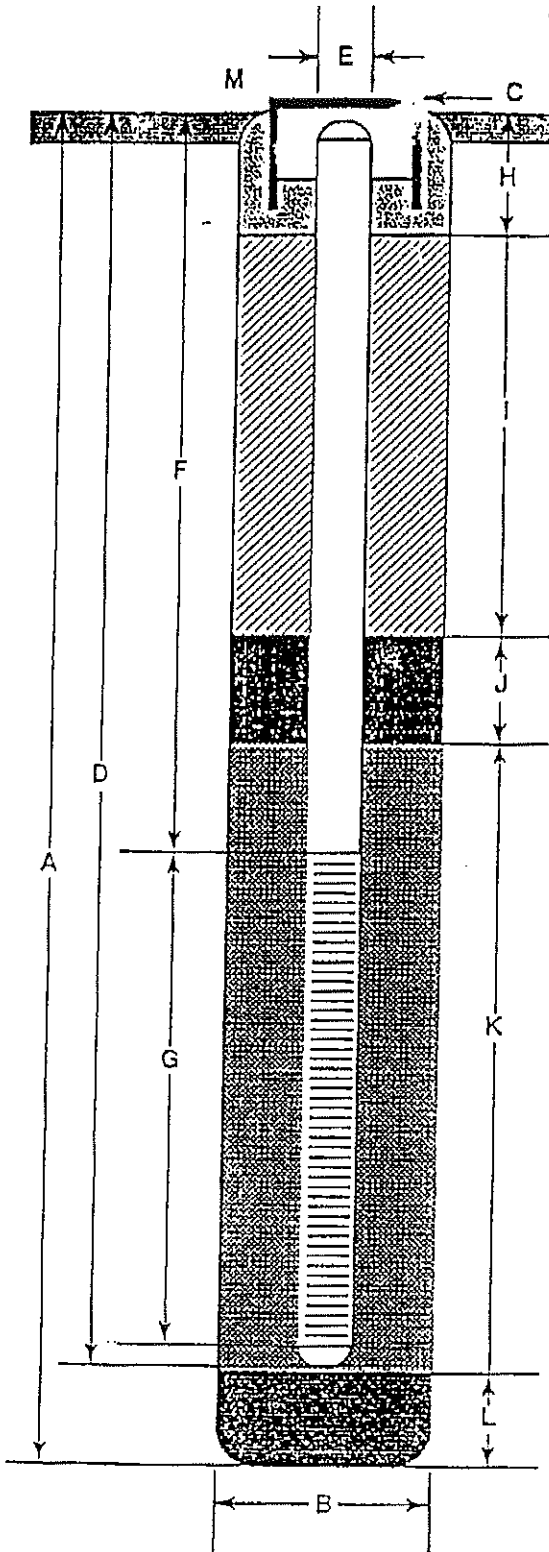
Hole diameter: **8 inch**

Top of Box Elevation: _____ Datum: _____

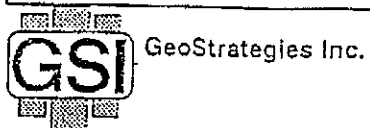
PID (ppm)	Blows ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level			Description
	7			21							SANDY SILT (ML)- light yellowish brown (2.5Y 6/4); medium stiff; saturated; 30% very fine to fine sand; 5-10% clay; trace caliche nodules; mottled brown & black; no chemical odor.
				22							
				23							
	2	SPT		24							
	2			25							CLAY (CL)- grayish brown (2.5Y 5/2); medium stiff; damp; low plasticity; trace caliche nodules; no chemical odor
	4										
								Bottom of boring 24.0 feet, sampled to 25.5 feet			
								4/26/89			

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 24 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method HOLLOW STEM AUGER
- C Top of Box Elevation _____ 20.44 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 23.5 ft.
Material _____ SCH 40 PVC
- E Casing Diameter _____ 3 in.
- F Depth to Top Perforations _____ 4 ft.
- G Perforated Length _____ 20 ft.
Perforated Interval from 4 to 24 ft.
Perforation Type FACTORY SLOTTED
Perforation Size _____ 0.020
- H Surface Seal _____ 2.5 ft.
Seal Material _____ CONCRETE
- I Backfill _____ ft.
Backfill Material _____
- J Seal _____ 0.5 ft.
Seal Material _____ BENTONITE
- K Gravel Pack _____ 21 ft.
Pack Material _____ LONESTAR 2/12 & #3
- L Bottom Seal _____ ft.
Seal Material _____
- M _____ CHRISTY BOX



Well Construction Detail
Former Shell Service Station
15275 Washington Ave.
San Leandro

WELL NO.

S-14

JOB NUMBER 7615	REVIEWED BY REG/EG <i>OWP 05/12/89</i>	DATE 5/89	REVISED DATE	REVISED DATE
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Field location of boring:				Project No.: 7615		Date: 4/26/89		Boring No:	
				Client: Shell				S-15	
				Location: 15275 Washington Ave/Lewelling				Sheet 1	
				City: San Leandro				of 2	
				Logged by: DAF		Driller: Bayland			
				Casing installation data:					
Drilling method: Hollow Stem Auger				Top of Box Elevation:		Datum:			
Hole diameter: 8 inch				Water Level: 8.3'					
				Time: 2:25pm					
				Date: 4/26/89					
				Description					
				PAVEMENT SECTION - 2.5 feet.					
				CLAY (CL) - very dark grayish brown (2.5Y 3/2); medium stiff; damp; low plasticity; trace gravel.					
55 150 S&H S-15-5' push				SILTY CLAY (CL-ML) - olive (5Y 4/3); soft; damp; low plasticity; mottled brown.					
Driller notes change @ 7'				SILTY SAND (SM) - olive brown (2.5Y 4/4); loose; moist; poorly graded; trace clay.					
35 2 S&H S-15-10'				CLAY (CL) - very dark gray (5Y 3/1); stiff; damp; low plasticity; trace gravel; mottled brown; rootholes.					
				becoming soft; 5% silt; trace caliche nodules at 14 feet.					
55 1 S&H S-15-15'				CLAY (CL) - olive gray (5Y 4/2); stiff; damp; low plasticity; mottled; trace caliche nodules.					
				becoming saturated at 18.5 feet.					
NM 3 SPT				SILTY CLAY (CL-ML) - light olive brown (2.5Y 5/4); medium stiff; saturated; trace organics; trace caliche nodules.					
2									
Remarks:									



GeoStrategies Inc.

BORING NO.

S-15

JOB NUMBER
7615

REVIEWED BY: RJC/CEG
CWP/CEG/262

DATE
5/89

REVISED DATE

REVISED DATE

Field location of boring:								Project No.: 7615		Date: 4/26/89		Boring No:	
								Client: Shell		Location: 15275 Washington Ave/Lewelling		City: San Leandro	
Drilling method: Hollow Stem Auger								Casing insulation data:					
Hole diameter: 8 inch								Top of Box Elevation:				Datum:	
PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Casing	Soil Group Symbol (USCS)	Water Level					
								Time					
								Date					
								Description					
	4			21									
				22									
				23				CLAY (CL) -very dark gray (5Y 3/1); medium stiff; damp; low plasticity.					
				24									
NM	1	SPT		25				SILTY CLAY (CL-ML) - light olive brown (2.5Y 5/4); medium stiff; damp; some sandy lenses.					
	3												
	5												
								Bottom of boring 24.0 feet, Sampled to 25.5 feet 4/26/89					
Remarks:													



GeoStrategies Inc.

BORING NO.

S-15

JOB NUMBER
7615

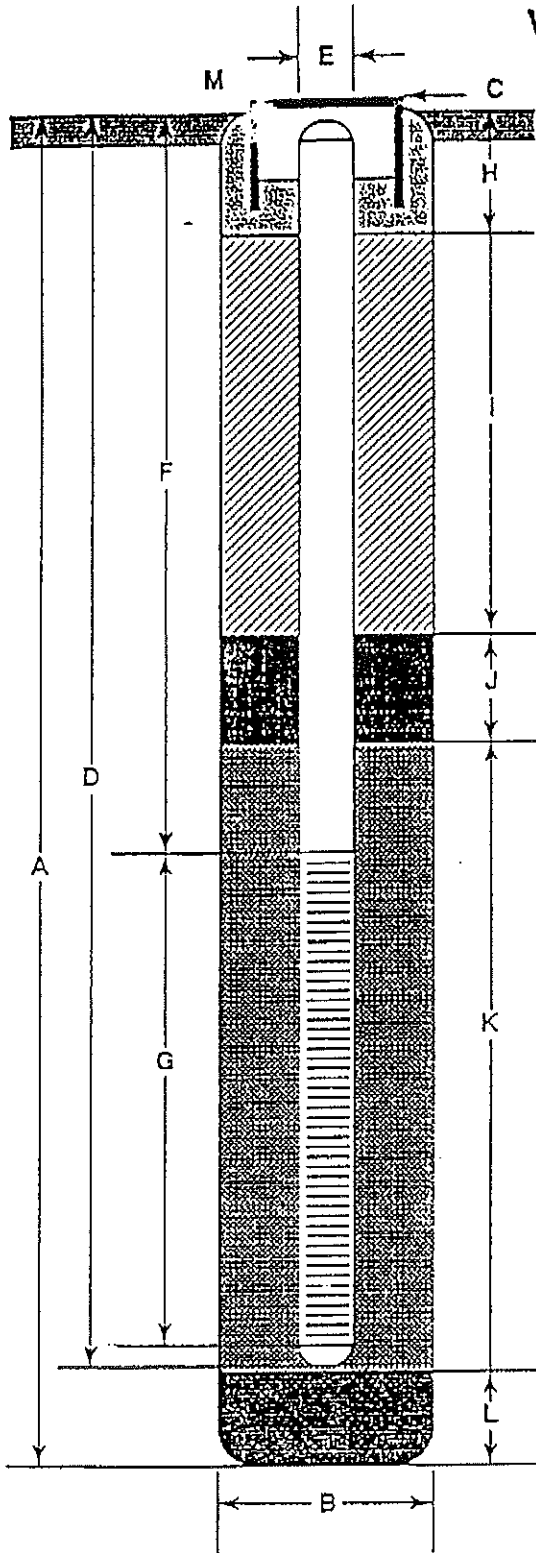
REVIEWED BY RG/CEG

DATE
5/89

REVISED DATE

REVISED DATE

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 24 ft.
- B Diameter of Boring 8 in.
Drilling Method HOLLOW STEM AUGER
- C Top of Box Elevation 22.22 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 23.5 ft.
Material SCH 40 PVC
- E Casing Diameter 3 in.
- F Depth to Top Perforations 4 ft.
- G Perforated Length 20 ft.
Perforated Interval from 4 to 24 ft.
Perforation Type FACTORY SLOTTED
Perforation Size 0.020
- H Surface Seal 2.5 ft.
Seal Material CONCRETE
- I Backfill _____ ft.
Backfill Material _____
- J Seal 0.5 ft.
Seal Material BENTONITE
- K Gravel Pack 21 ft.
Pack Material LONESTAR 2/12 & #3
- L Bottom Seal _____ ft.
Seal Material _____
- M CHRISTY BOX



GeoStrategies Inc.

Well Construction Detail
Former Shell Service Station
15275 Washington Ave.
San Leandro

WELL NO.

S-15

JOB NUMBER
7615

REVIEWED BY RG/CEG
UMP CEG 1262

DATE
5/89

REVISED DATE

REVISED DATE

Field location of boring:	Project No.: 7615	Date: 4/25/89	Boring No:
	Client: Shell		S-16
	Location: 15275 Washington Ave/Lewelling		Sheet 2
	City: San Leandro		of 2
	Logged by: DAF	Driller: Bayland	
Casing installation data:			

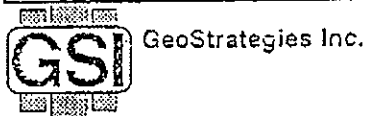
Drilling method: Hollow Stem Auger

Hole diameter: 8 inch

Top of Box Elevation:	Datum:
Water Level	
Time	
Date	

PID (ppm)	Elevat. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Test Detail	Soil Group Symbol (USCS)	Description
	5			21			SC	CLAYEY SAND (SC) -pale brown (10 YR 6/3); loose; saturated;
				22				
				23				
				24				
0	1	S&H	S-16-	25			CL	SILTY CLAY (CL-ML) -brown (10YR 5/3); soft; damp; 10% silt; <10% fine sand; trace organics; mottled gray & orange.
	1		25'					
	1							
Bottom of boring 24.0 feet, sampled to 25.5 feet.								
4/25/89								

Remarks:



BORING NO.

S-16

JOB NUMBER
7615

REVIEWED BY RG/CEG

DATE
5/89

REVISED DATE

REVISED DATE

Field location of boring:	Project No.: 7615	Date: 4/25/89	Boring No:
	Client: Shell		S-16
	Location: 15275 Washington Ave/Lewelling		Sheet 2
	City: San Leandro	Driller: Bayland	of 2
Logged by: DAF			
Casing installation data:			

Drilling method: **Hollow Stem Auger**

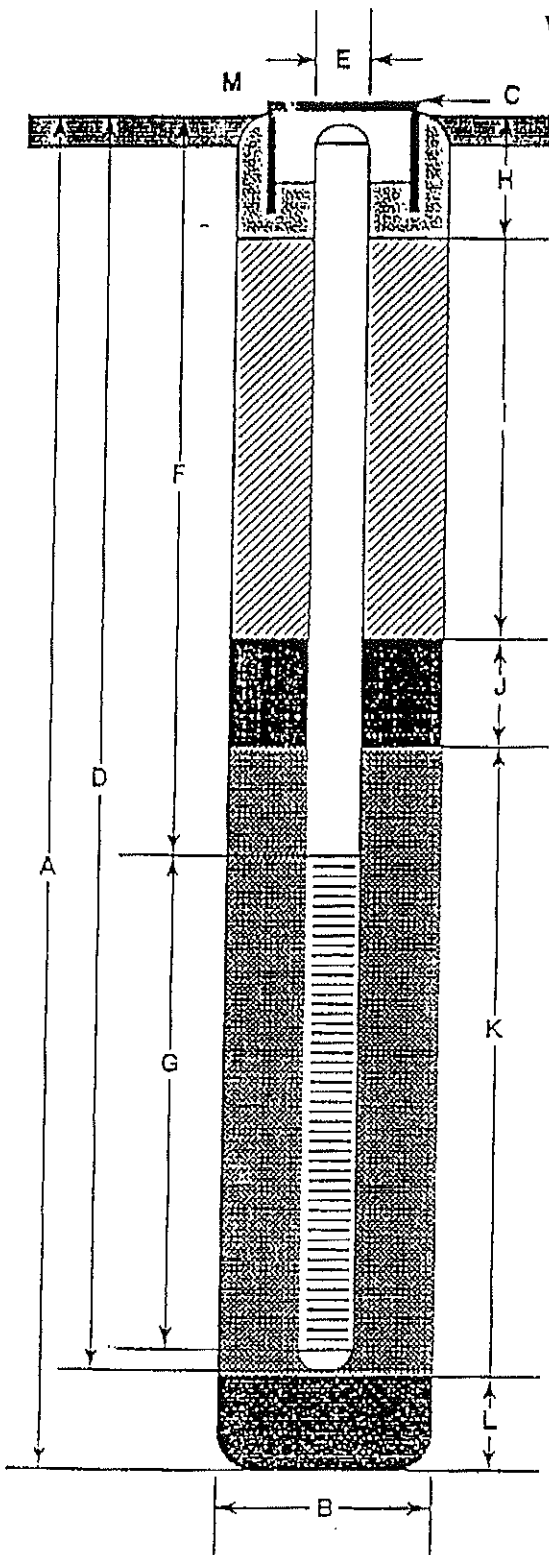
Hole diameter: **8 inch**

Top of Box Elevation: _____ Datum: _____

PID (ppm)	Blowsh. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Depth	Soil Group Symbol (USCS)	Description
	5			21				
				22				CLAYEY SAND (SC) -pale brown (10 YR 6/3); loose; saturated;
				23				
				24				
0	1	S&H	S-16-	25				SILTY CLAY (CL-ML) -brown (10YR 5/3); soft; damp; 10% silt; <10% fine sand; trace organics; mottled gray & orange.
	1		25'					
	1							
								Bottom of boring 24.0 feet, sampled to 25.5 feet.
								4/25/89

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 24 ft.
- B Diameter of Boring 8 in.
Drilling Method HOLLOW STEM AUGER
- C Top of Box Elevation 21.82 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 23.5 ft.
Material SCH 40 PVC
- E Casing Diameter 3 in.
- F Depth to Top Perforations 4 ft.
- G Perforated Length 20 ft.
Perforated Interval from 4 to 24 ft.
Perforation Type FACTORY SLOTTED
Perforation Size 0.020
- H Surface Seal 2.5 ft.
Seal Material CONCRETE
- I Backfill _____ ft.
Backfill Material _____
- J Seal 0.5 ft.
Seal Material BENTONITE
- K Gravel Pack 21 ft.
Pack Material LONESTAR 2/12 & #3
- L Bottom Seal _____ ft.
Seal Material _____
- M CHRISTY BOX



GeoStrategies Inc.

Well Construction Detail

WELL NO.

Former Shell Service Station
15275 Washington Ave.
San Leandro

S-16

JOB NUMBER
7615

REVIEWED BY RG/CEG
CWP cell 1262

DATE
5/89

REVISED DATE

REVISED DATE

Field location of boring: (See Plate 2)	Project No.: 7615	Date: 10/27/89	Boring No:
	Client: Shell Oil Company		SR-1
	Location: 15275 Washington Avenue		Sheet 1
	City: San Leandro, California		of 3
	Logged by: M.J.J.	Driller: Bayland	
Casing installation data:			

Drilling method: Hollow-Stem Auger	Pilot Boring
Hole diameter: 8-inches	Top of Box Elevation: Datum:

PO (ft)	Blowft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Description
								12.5	10.9	
				1						PAVEMENT SECTION - 4 inches
				2						FILL - Gravel (GW) - dark brown (10YR 3/3), damp, very loose.
				3						FILL - Clay with Silt (CL) - black (5Y 2.5/1), damp, soft, high plasticity; < 5% coarse sand; strong chemical odor.
				4						
231	2			5						
	3	S&H	SR1-5							
	4			6						CLAY (CL) - black (2.5Y N3/2), damp, soft, medium plasticity; interbeds of clayey sand (SP-SC); sand is very fine to fine; interbeds occur as discrete units 3 to 5 inches thick; contain 10-20% fines; strong chemical odor.
	3			7						
243	4	S&H	SR1-6.5							
	5			8						
	1			9						
296	2	S&H	SR1-8							
	3			10						moderate chemical odor.
	2			11						
	4			12						COLOR CHANGE to black (10YR 3.3) at 10.5 feet.
373	6	S&H	SR1-10							SILTY SAND (SM) - moist, loose, interbedded with clayey silt (ML-CL), medium plasticity; no chemical odor.
	2			13						
108	4	S&H	SR1-11.5							
	6			14						CLAY (CL) - very dark grayish brown (10YR 3/2), damp, stiff, high plasticity; fractured texture; no chemical odor.
				15						
	2			16						
4.3	4	S&H	SR1-15							first encountered water at 16.0 feet. Increasing sand at 16 feet. Interbedded clay with sand and clayey sand (observed during drilling with bucket auger, 11/16/89)
	8			17						
				18						
				19						

Remarks:



GeoStrategies Inc. Log of Boring BORING NO. SR-1

Field location of boring: (See Plate 2)	Project No.: 7615	Date: 10/27/89	Boring No:
	Client: Shell Oil Company		SR-1
	Location: 15275 Washington Avenue		
	City: San Leandro, California		Sheet 2
	Logged by: M.J.J.	Driller: Bayland	of 3

Drilling method: Hollow-Stem Auger	Pilot Boring		
Hole diameter: 8-inches	Top of Box Elevation:	Datum:	

PO (ppm)	Blowft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
	2			20				
80	4	S&H	SR1-20	20				
	6			21				CLAYEY SILT (ML-CL) - light olive brown (2.5Y 5/4), saturated, medium plasticity; 30% clay; 5% fine to medium sand; no chemical odor.
				22				
				23				
				24				CLAY with SAND (CL) - olive gray (5Y 4/2), saturated, stiff, high plasticity; 20% very fine to fine sand; no chemical odor.
66	3	S&H	SR1-30	25				
	6			26				SILT with SAND (ML) - light olive brown (2.5Y 5/4), saturated, stiff; 15% fine to medium sand; 20-30% clay; no chemical odor.
				27				
				28				
				29				SAND with SILT (SP-SM) - light olive brown (5Y 4/2), fine sand, saturated, medium dense; well sorted; 10% silt; trace clay; laminae of silt 0.25 inches thick in shoe; iron oxide staining; no chemical odor.
10	3	S&H	SR1-30	30				
	8			31				
	10			32				
				33				
				34				SILTY SAND (SM) - light olive brown (5Y 4/2), saturated, dense; very fine to medium sand; 15% silt; trace clay; no chemical odor.
34	5	S&H	SR1-35	35				
	7			36				
	18			37				
				38				
				39				SAND (SP) - dark grayish brown (2.5Y 3/2), saturated, dense, very fine to medium sand; interbeds of fine

Remarks:



GeoStrategies Inc.

Log of Boring

BORING NO.

SR-1

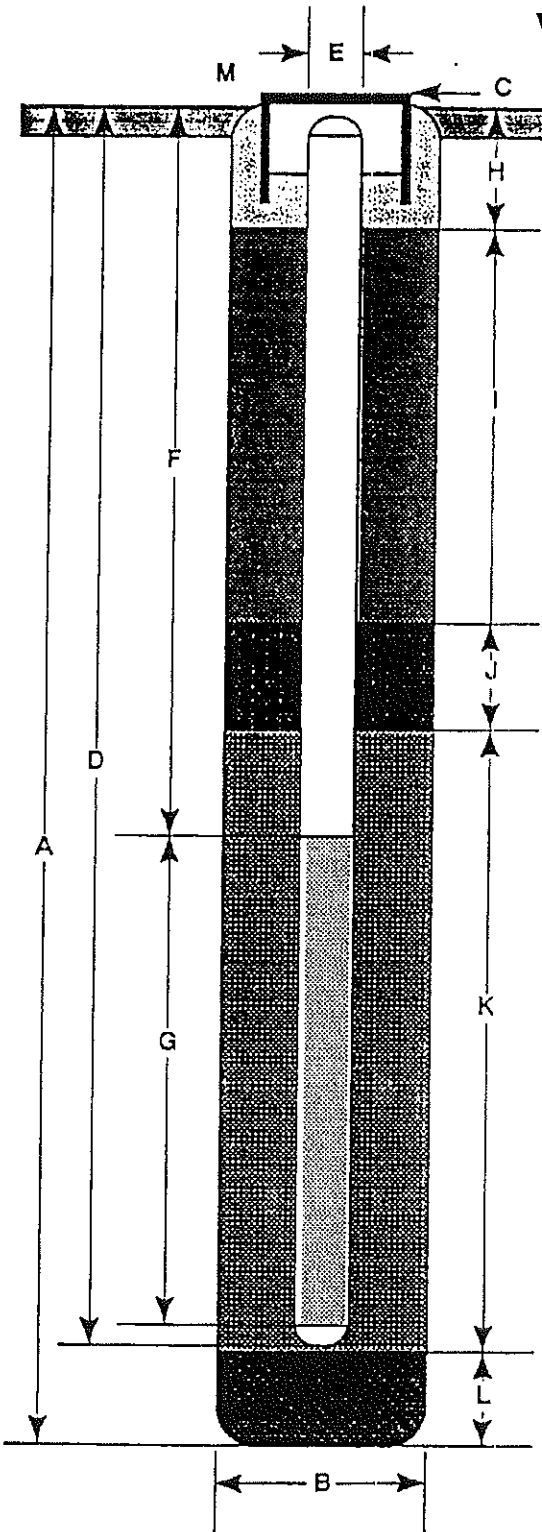
Field location of boring: (See Plate 2)	Project No.: 7615	Date: 10/27/89	Boring No:
	Client: Shell Oil Company		SR-1
	Location: 15275 Washington Avenue		Sheet 3
	City: San Leandro, California		of 3
	Logged by: M.J.J.	Drill: Bayland	

Drilling method: Hollow-Stem Auger	Casing installation data: Pilot Boring	
Hole diameter: 8-inches	Top of Box Elevation:	Datum:

PID (ppm)	Blowcnt. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Description
								Time	Date	
	9									
8.2	13	S&H	SR1-40	40						silty sand 0.5 to 3.0 inches thick; no chemical odor.
	17									Bottom of boring at 40.5 feet.
				41						Bottom of sample at 40.5 feet.
				42						10/27/89
				43						
				44						
				45						
				46						
				47						
				48						
				49						
				50						
				51						
				52						
				53						
				54						
				55						
				56						
				57						
				58						
				59						

Remarks: Boring caved to 30 feet, Bentonite from 19 to 30 feet.

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 40.5 ft.
- B Diameter of Boring _____ 20 in.
Drilling Method _____ Bucket Auger
- C Top of Box Elevation _____ ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 21 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 6 in.
- F Depth to Top Perforations _____ 6.5 ft.
- G Perforated Length _____ 15 ft.
Perforated Interval from _____ 6.5 to _____ 21.5 ft.
Perforation Type _____ Machine Slot
Perforation Size _____ 0.020 in.
- H Surface Seal from _____ 0.5 to _____ 1.0 ft.
Seal Material _____ concrete
- I Backfill from _____ 1.0 to _____ 4.5 ft.
Backfill Material _____ cement
- J Seal from _____ 4.5 to _____ 5.5 ft.
Seal Material _____ Bentonite
- K Gravel Pack from _____ 5.5 to _____ 21.5 ft.
Pack Material _____ 2/12 Lonestar sand
- L Bottom Seal _____ 21.5-30 ft.
Seal Material _____ Bentonite
- M _____ Christy Box

Note: 30 to 40.5 Native Material (slough)



GeoStrategies Inc.

Well Construction Detail

WELL NO.

SR-1

JOB NUMBER
7615

REVIEWED BY RG/CEG
CWP c. 05.1242

DATE
10/89

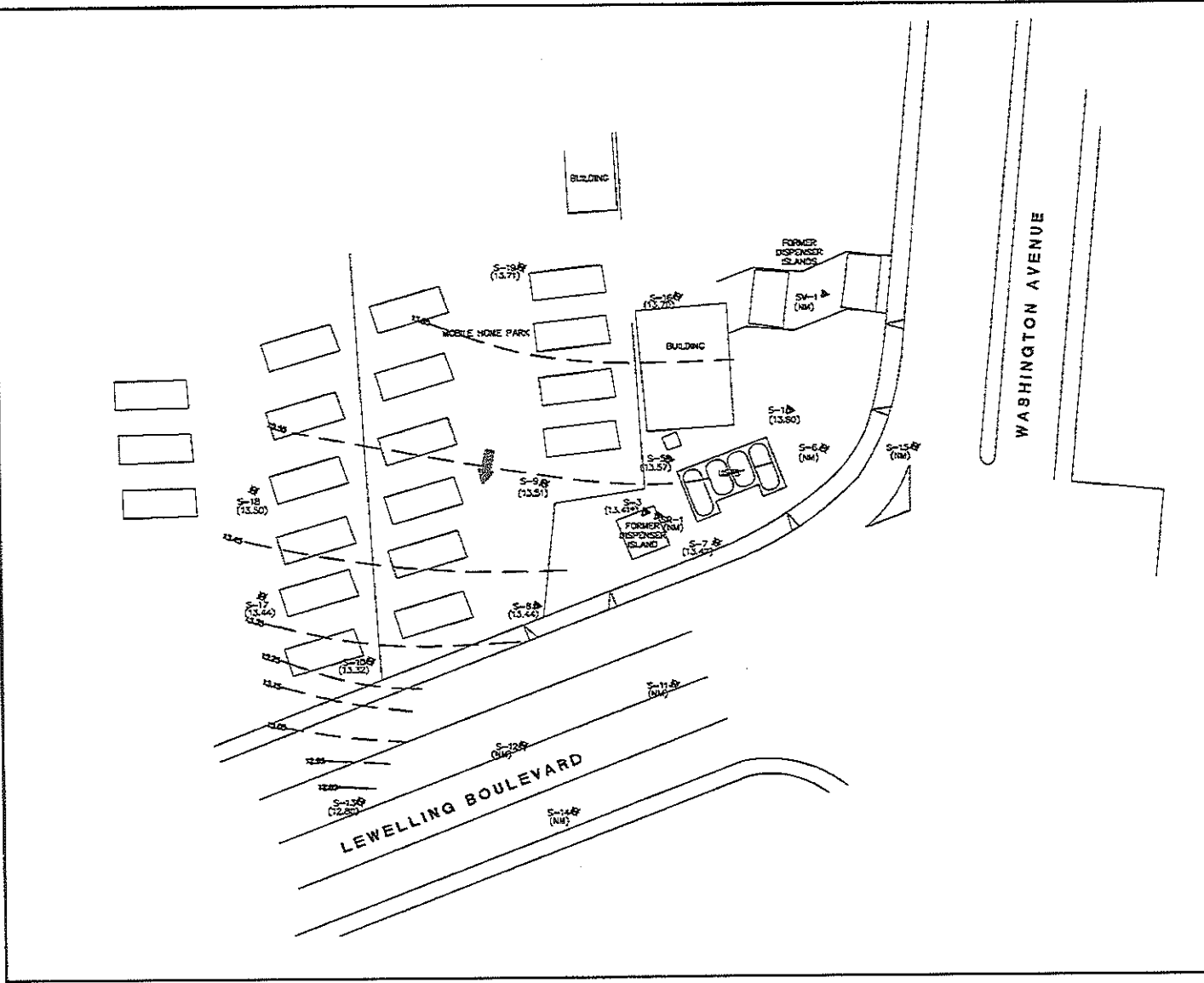
REVISED DATE

REVISED DATE

APPENDIX B
HISTORICAL GROUNDWATER CONTOUR MAPS

PROJECT S-J182751X
 DRAWN BY J.E.C.
 CHECKED BY
 APPROVED BY

0 25 50
 FEET
 SCALE



DELTA CONSULTANTS
 SHELL OIL PRODUCTS US
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA

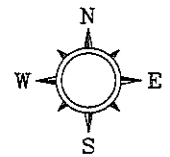
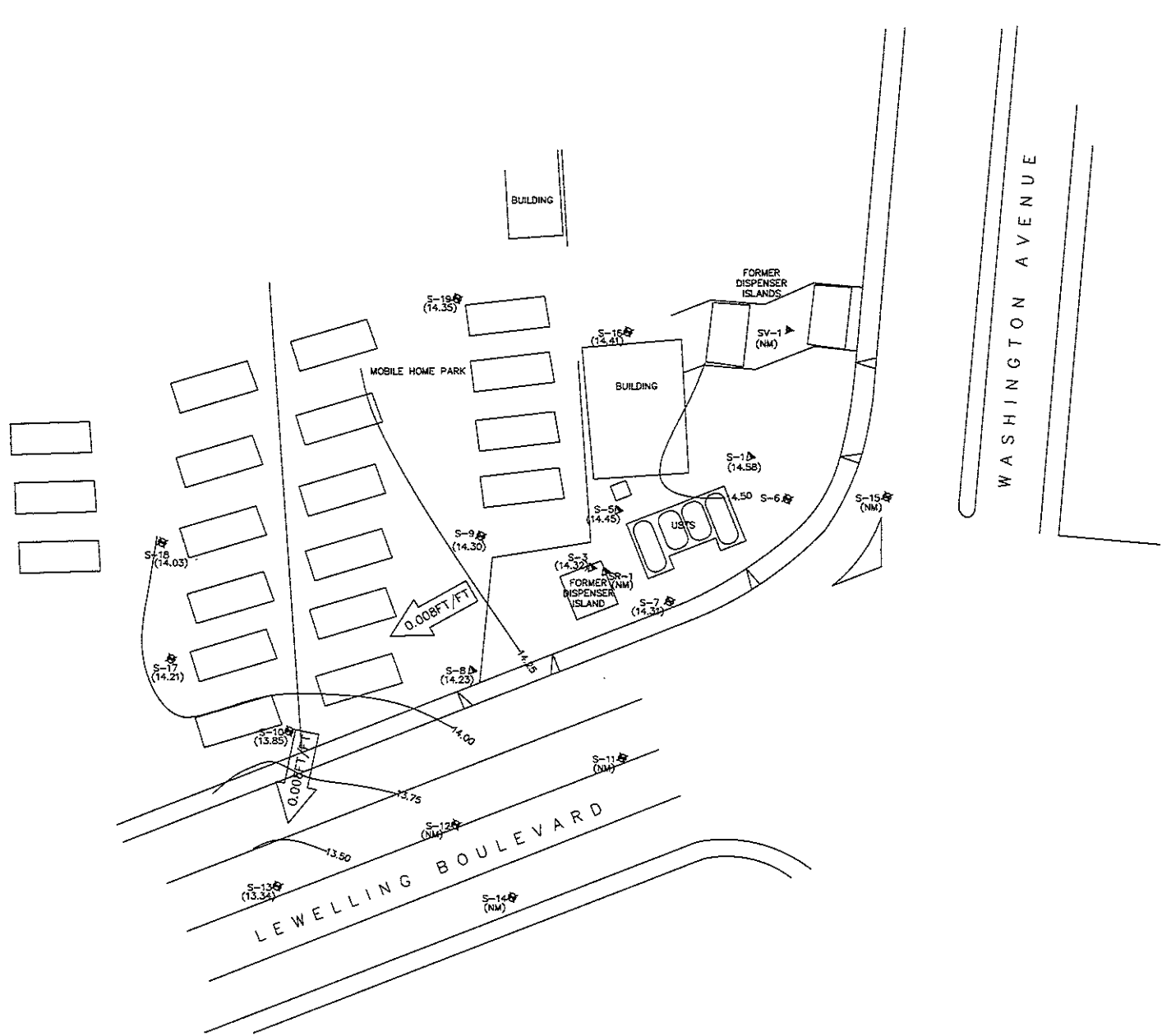
FIGURE 2
GROUNDWATER ELEVATION CONTOUR
MAP
 7/24/2007
 15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

PROJECT NUMBER S-J152-75W-1

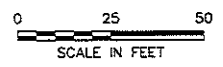
CHECKED BY JAR 4/10/07

APPROVED BY JAR 4/10/07

DRAWN BY AD 4/10/07



- LEGEND**
- S-5 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - SV-1 SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - (15.28) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (FV/MSL)
 - 14.00 GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (FV/MSL) CONTOUR INTERVAL=0.30 FEET
 - 0.008FT/FT APPROXIMATE GROUNDWATER GRADIENT DIRECTION (N/H)
 - (NM) NOT MEASURED

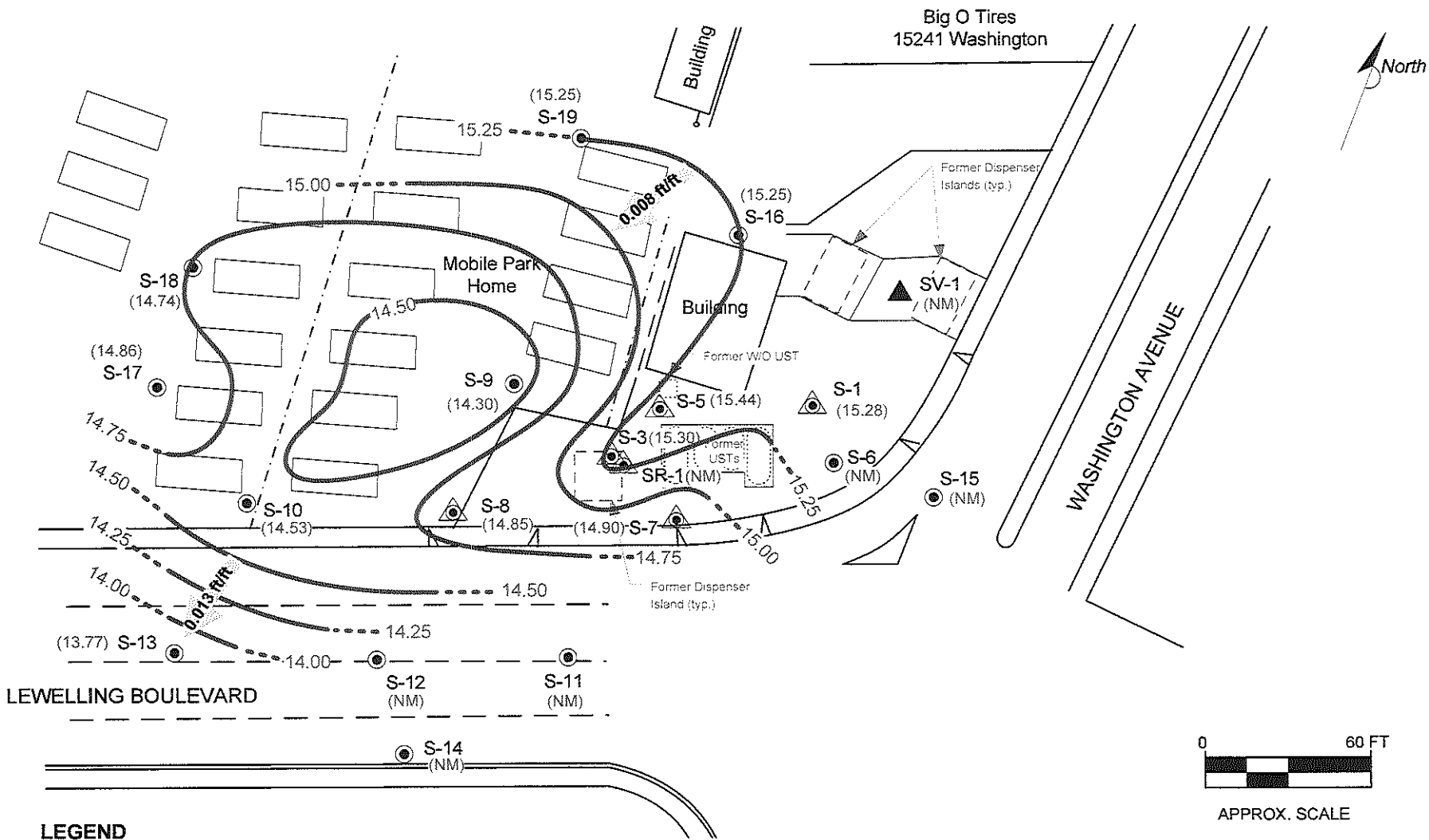


DELTA CONSULTANTS

SHELL OIL PRODUCTS U.S.
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 1

GROUNDWATER ELEVATION CONTOUR MAP
JANUARY 4, 2007
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA



LEGEND

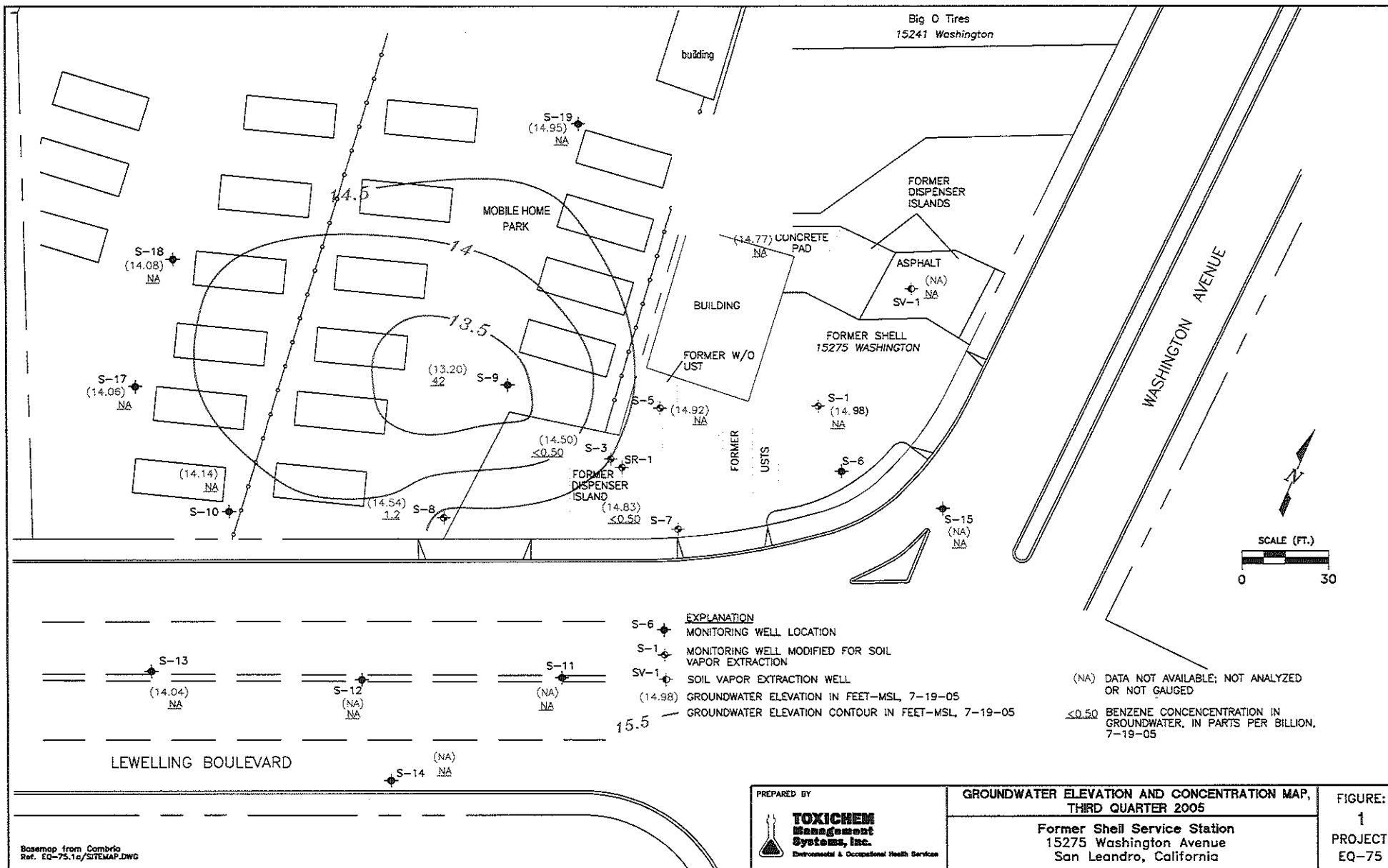
- S-6 ● **GROUNDWATER MONITORING WELL**
- S-1 ▲ **GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION**
- SV-1 ▲ **SOIL VAPOR EXTRACTION WELL**
- (15.28) **GROUNDWATER ELEVATION (FEET - MSL), 01/27/06**
- 14.00 — **GROUNDWATER ELEVATION CONTOUR**
- 0.013 ft/ft **APPROXIMATE GROUNDWATER GRADIENT AND DIRECTION**
- NM **NOT MEASURED**

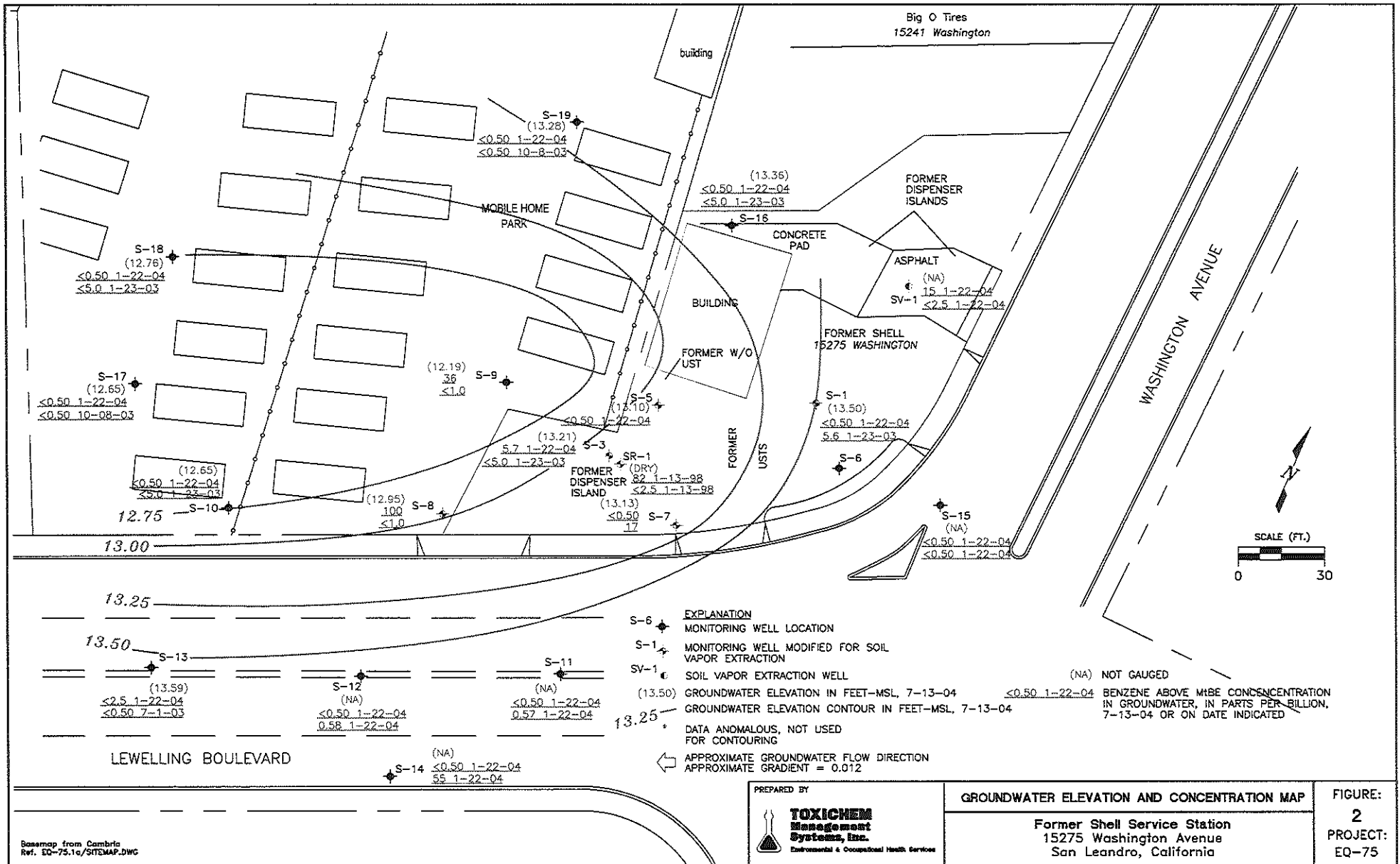
FIGURE 1
GROUNDWATER ELEVATION CONTOUR MAP,
JANUARY 27, 2006

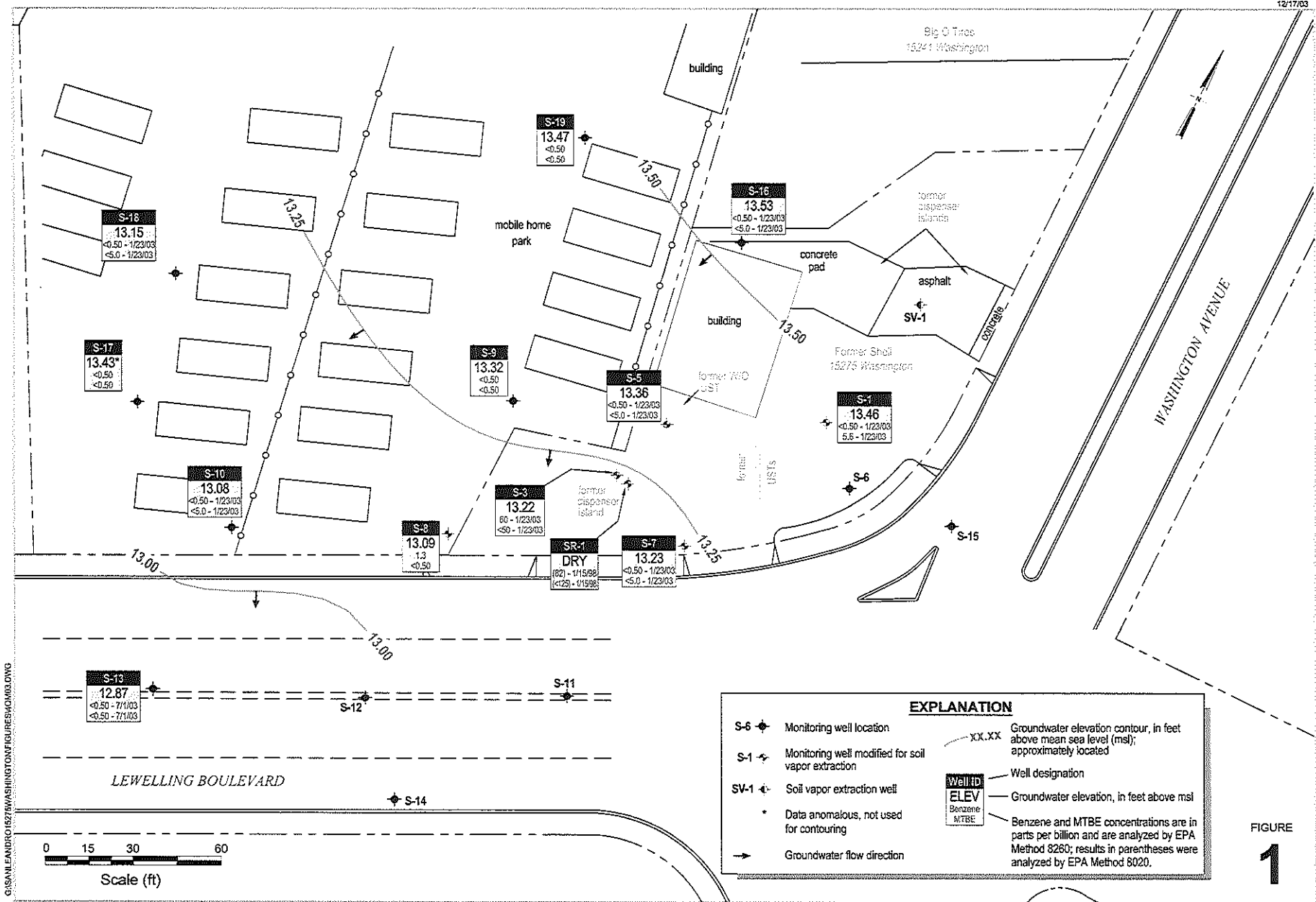
FORMER SHELL-BRANDED SERVICE STATION
15275 Washington Avenue
San Leandro, CA

PROJECT NO. SJ15275-1.2006	DRAWN BY JL 04/10/06
FILE NO. SJ15275-1.2006	PREPARED BY JL
REVISION NO. 1	REVIEWED BY









C:\SAN LEANDRO\15275 WASHINGTON\FIGURES\CAMB.DWG

12/17/03

Groundwater Elevation Contour Map

October 8, 2003

C A M B R I A



Former Shell Service Station

15275 Washington Avenue
San Leandro, California
Incident #97088270

FIGURE 1

EXPLANATION	
S-6 ◆	Monitoring well location
S-1 ⚡	Monitoring well modified for soil vapor extraction
SV-1 ⚡	Soil vapor extraction well
*	Data anomalous, not used for contouring
→	Groundwater flow direction
--- XX.XX	Groundwater elevation contour, in feet above mean sea level (msl); approximately located
Well ID	Well designation
ELEV	Groundwater elevation, in feet above msl
Benzene MTBE	Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260; results in parentheses were analyzed by EPA Method 8020.

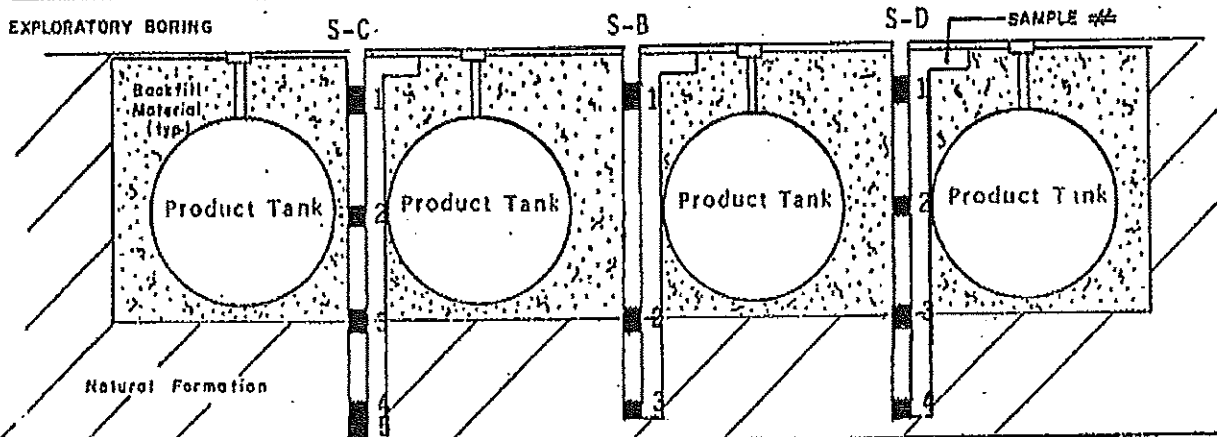
APPENDIX C
SOIL ANALYTICAL DATA



GETTLER-RYAN, INC.

GENERALIZED PROFILE OF SUBSURFACE TANK COMPLEX
AND GASOLINE CONCENTRATIONS WITHIN BACKFILL MATERIAL

PROJECT NUMBER 738-08.02 MAPVIEW DIMENSIONS 27' x 42'
 PROJECT NAME G-R Shell, San Leandro APPROXIMATE DEPTH: 12 feet
 NUMBER OF TANKS IN COMPLEX 4



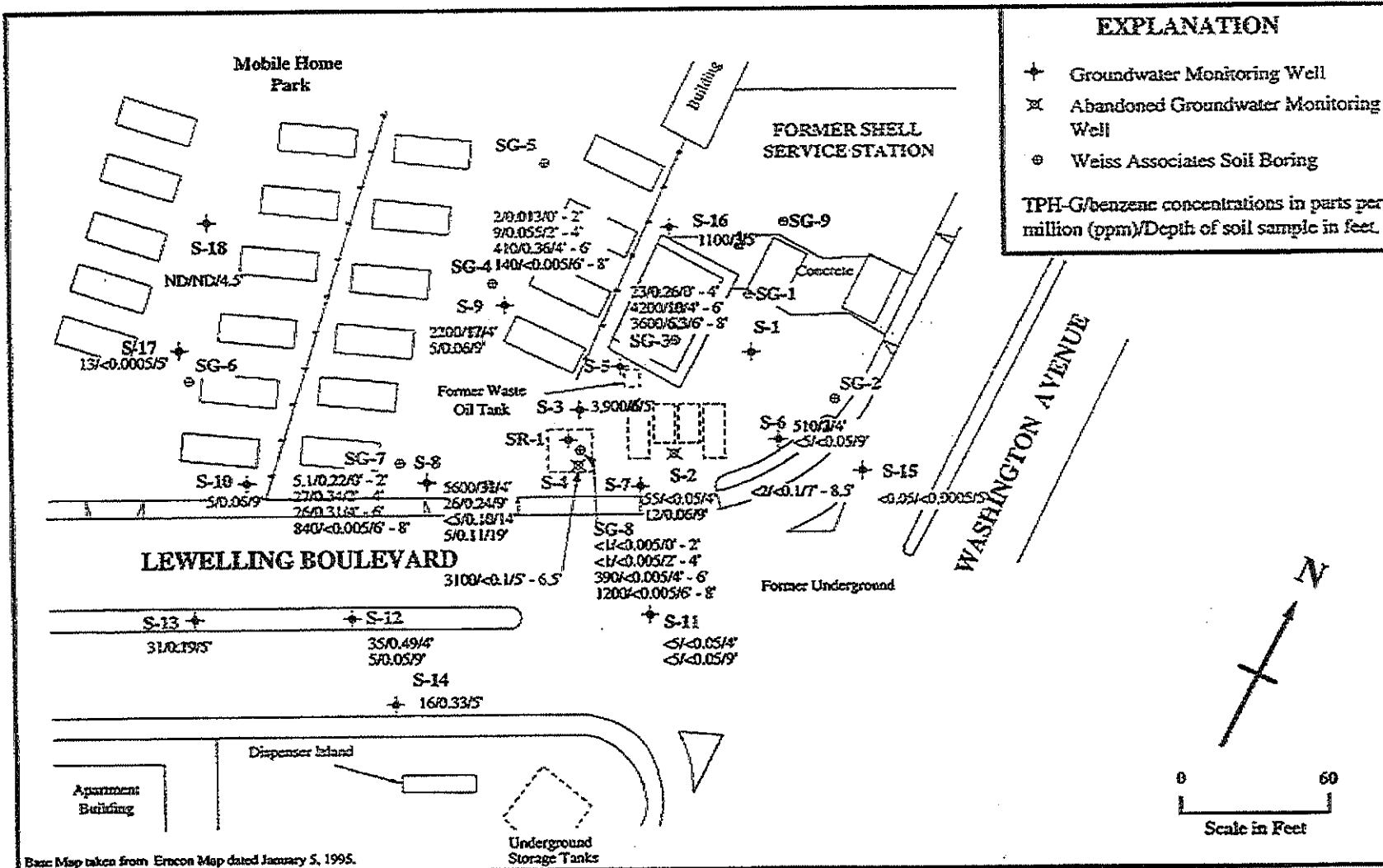
SAMPLE #	BORING	DEPTH INTERVAL	GASOLINE CONCENTRATION (parts per million)
1	S-B	3-1/2 to 5	1,700
2	S-B	11 to 12-1/2	1,500
3	S-B	14 to 15-1/2	nd*
1	S-C	3-1/2 to 5	310
2	S-C	7-1/2 to 9	nd ¹
3	S-C	11-1/2 to 13	nd*
4	S-C	14 to 15-1/2	300
5	S-C	15-1/2 to 17	nd*
1	S-D	3-1/2 to 5	nd ²
2	S-D	7 to 8-1/2	nd*
3	S-D	11 to 12-1/2	nd*
4	S-D	14 to 15-1/2	nd*

nd = no detection.

* Detection limit = 5 parts per million.

¹ Detection limit = 200 ppm due to matrix interferences.

² Detection limit = 100 ppm due to matrix interferences.



Base Map taken from Ercon Map dated January 5, 1995.

PLATE 3 SOIL QUALITY MAP
 Shell Oil Company
 15275 Washington Avenue
 San Leandro, California

enviros
 95276.01

Drawn By: DML Date: 6-19-97

Approved By: *[Signature]*

Date: 6-21-97



July 23, 1985

Emcon Associates
90 Archer Street
San Jose, CA 95112

Reference: Shell Purchase Order MOH050908

ATTN: Erin Garner

Following are the results of our analyses for the presence of volatile hydrocarbons due to gasoline in three samples of soil received on June 27, 1985.

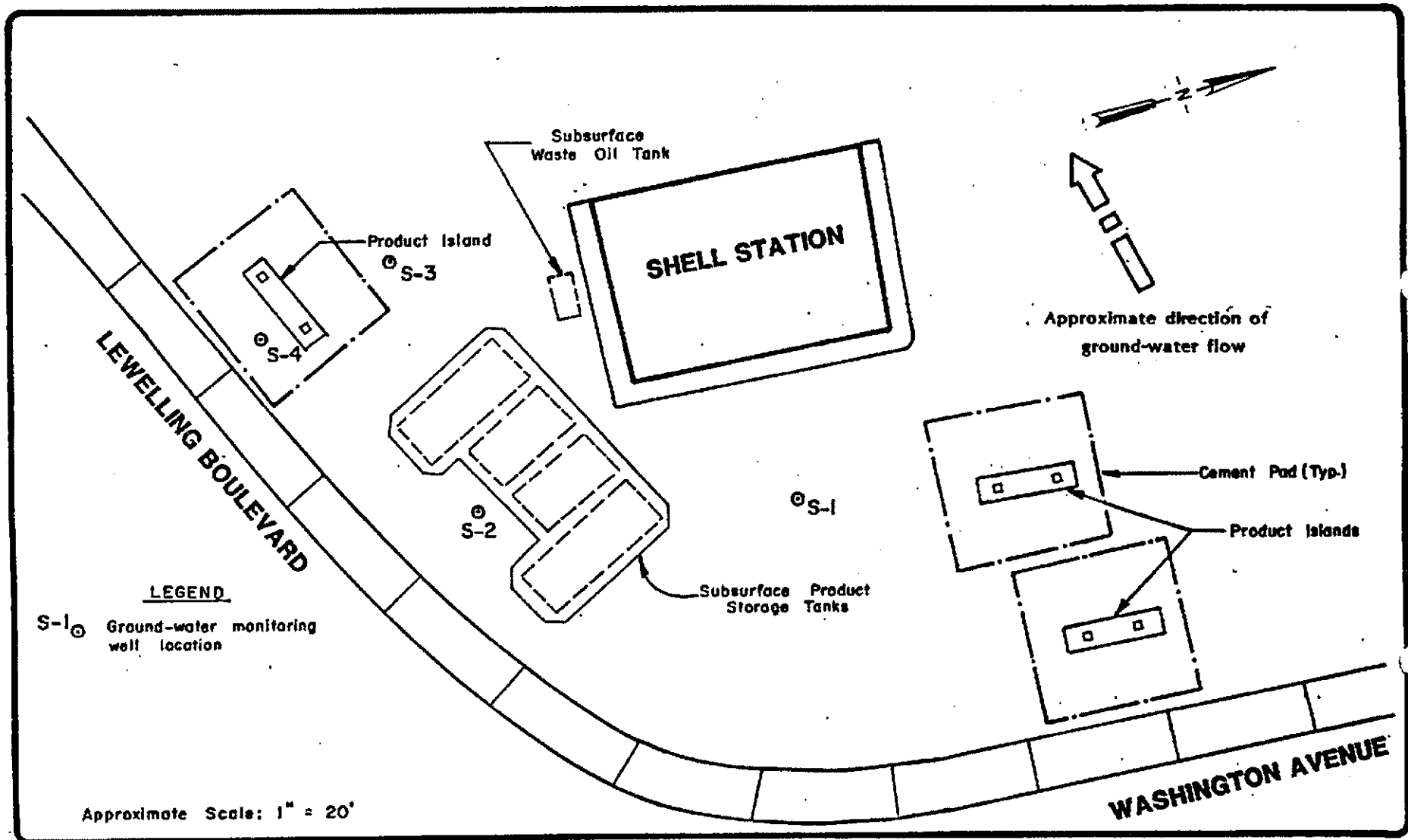
The samples were examined using the purge and trap technique. Final detection was by gas chromatography using a flame ionization detector as well as a photoionization detector and a Carbo-pack B/3% SP-1500 column.

Lab. #	Sample Identification	Results			
		Parts per Million (dry soil basis)			
		Volatile Hydrocarbons Due to Gasoline (includes benzene, toluene and xylenes)	Benzene	Toluene	Xylene isomers and ethyl benzene
29747	S-2 @ 7 - 8.5'	nd	nd	nd	nd
29748	S-3 @ 5 - 6.5'	2,900.	6.	170.	840.
29749	S-4 @ 5 - 6.5'	2,100.	nd*	18.	530.
Detection Limits		2.	0.1 10.*	0.1	0.4

Patricia L. Murphy
Patricia L. Murphy

PLM/jd

cc: Stan Roller
Shell Oil Company



EMCON
Associates

San Jose, California

GETTLER-RYAN, INC.
SUBSURFACE HYDROGEOLOGIC INVESTIGATION
SHELL STATION, LEWELLING BLVD & WASHINGTON AVE.
SAN LEANDRO, CALIFORNIA

MONITORING WELL LOCATION MAP

FIGURE

1

PROJECT NO.
738-08.01



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Kaprealian Engineering, Inc.
535 Main Street, Suite 309
Martinez, CA 94553
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 06-11-87
Date Received: 06-11-87
Date Reported: 06-22-87

Sample Number

7060806

Sample Description


Soil D
Shell at Washington Avenue
in San Leandro, CA

ANALYSIS

	<u>Detection Limit</u> ppm	<u>Sample Results</u> ppm
Total Hydrocarbons as Gasoline	1	910
Benzene	0.1	7.4
Toluene	0.1	43
Xylenes	0.1	43

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY


Arthur G. Burton
Laboratory Director

jao



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Kaprealian Engineering, Inc.
535 Main Street, Suite 309
Martinez, CA 94553
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 06-11-87
Date Received: 06-11-87
Date Reported: 06-22-87

Sample Number

7060803

Sample Description

Well A
Shell at Washington Avenue
in San Leandro, CA

ANALYSIS

	<u>Detection Limit</u> ppm	<u>Sample Results</u> ppm
Total Hydrocarbons as Gasoline	1	1.0
Benzene	0.1	< 0.1
Toluene	0.1	< 0.1
Xylenes	0.1	< 0.1

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

jao



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Kaprealian Engineering, Inc.
535 Main Street, Suite 309
Martinez, CA 94553
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 06-11-87
Date Received: 06-11-87
Date Reported: 06-22-87

Sample Number

7060804

Sample Description

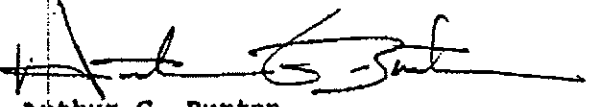
Well B
Shell at Washington Avenue
in San Leandro, CA

ANALYSIS

	<u>Detection Limit</u> ppm	<u>Sample Results</u> ppm
Total Hydrocarbons as Gasoline	1	74
Benzene	0.1	2.5
Toluene	0.1	1.1
Xylenes	0.1	3.7

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY


Arthur G. Burton
Laboratory Director

jao



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Kaprealian Engineering, Inc.
535 Main Street, Suite 309
Martinez, CA 94553
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 06-11-87
Date Received: 06-11-87
Date Reported: 06-22-87

Sample Number

7060805

Sample Description


Soil C
Shell at Washington Avenue
in San Leandro, CA

ANALYSIS

	<u>Detection Limit</u> ppm	<u>Sample Results</u> ppm
Total Hydrocarbons as Gasoline	1	31
Benzene	0.1	< 0.1
Toluene	0.1	0.69
Xylenes	0.1	1.2

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY


Arthur G. Burton
Laboratory Director

jao



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Kaprealian Engineering, Inc.
535 Main Street, Suite 309
Martinez, CA 94553
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 06-11-87
Date Received: 06-11-87
Date Reported: 06-22-87

Sample Number

7060806

Sample Description


Soil D
Shell at Washington Avenue
in San Leandro, CA

ANALYSIS

	<u>Detection Limit</u> ppm	<u>Sample Results</u> ppm
Total Hydrocarbons as Gasoline	1	910
Benzene	0.1	7.4
Toluene	0.1	43
Xylenes	0.1	43

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY


Arthur G. Burton
Laboratory Director

jao



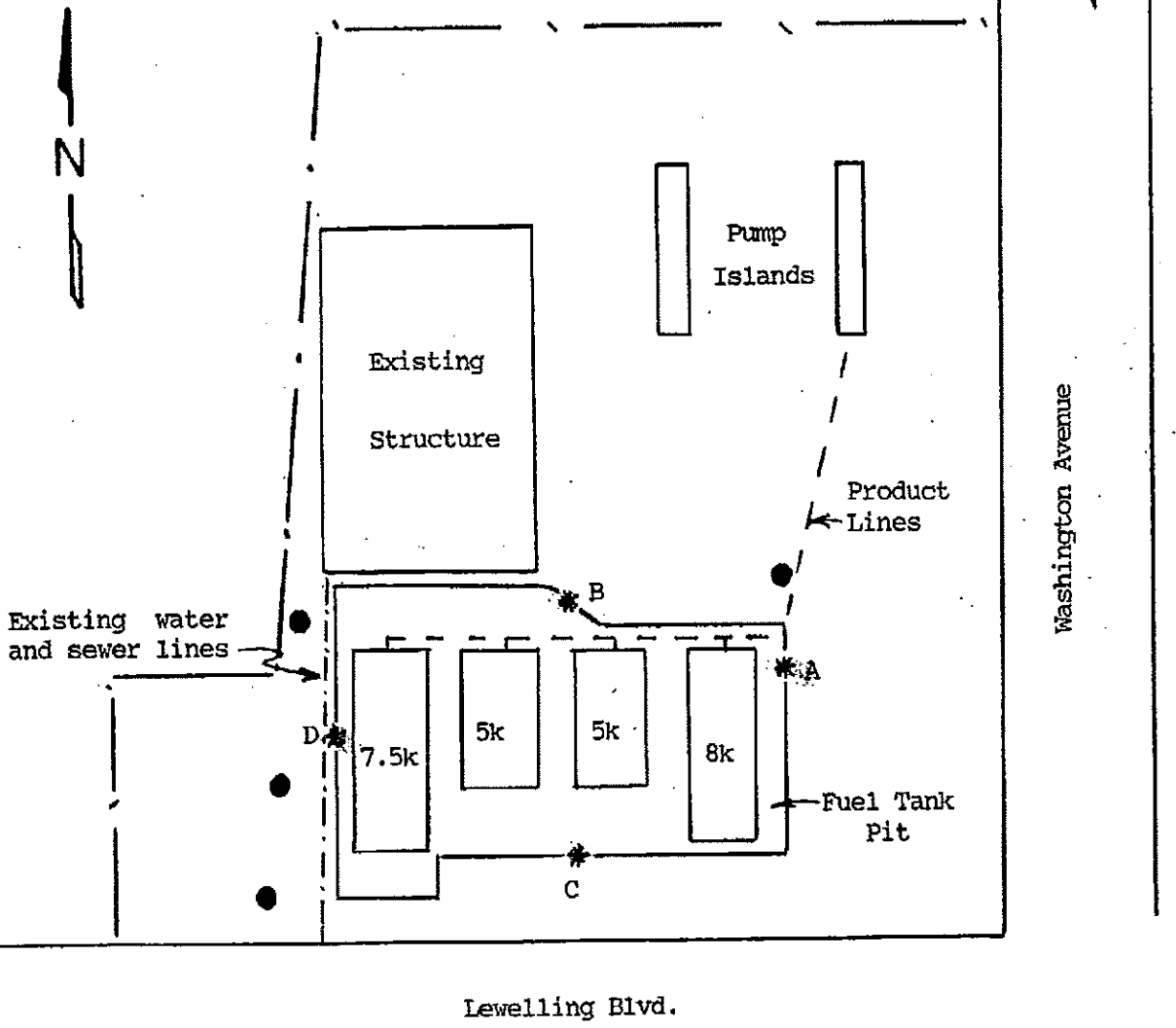
KAPREALIAN ENGINEERING, INC.

Consulting Engineers

535 Main Street

Martinez, Ca. 94553

(415) 372-5444



LOCATION PLAN
(not to scale)

- Existing monitoring well
- * soil sample location

SHELL SERVICE STATION
13275 Washington Avenue
San Leandro, CA

KEI-J87-063
December 7, 1987
Page 4

TABLE -1

SUMMARY OF LABORATORY ANALYSES
(all results in parts per million)

<u>Sample Number</u>	<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylene</u>
S-1	10-13-87	260	10	0.2	3.0
S-2		100	5.7	2.9	52
S-3		730	3.9	1.0	79
A-1*	11-16-87	950	21	1.4	17
Comp Q	9-03-87	850	5.1	14	33
Comp A*	11-25-87	1.3	<0.1	<0.1	0.2
Comp B*		1.5	<0.1	<0.1	0.4

* A-1 Ethylbenzene = 35 ppm
Comp A Ethylbenzene <0.1 ppm
Comp B Ethylbenzene <0.1 ppm



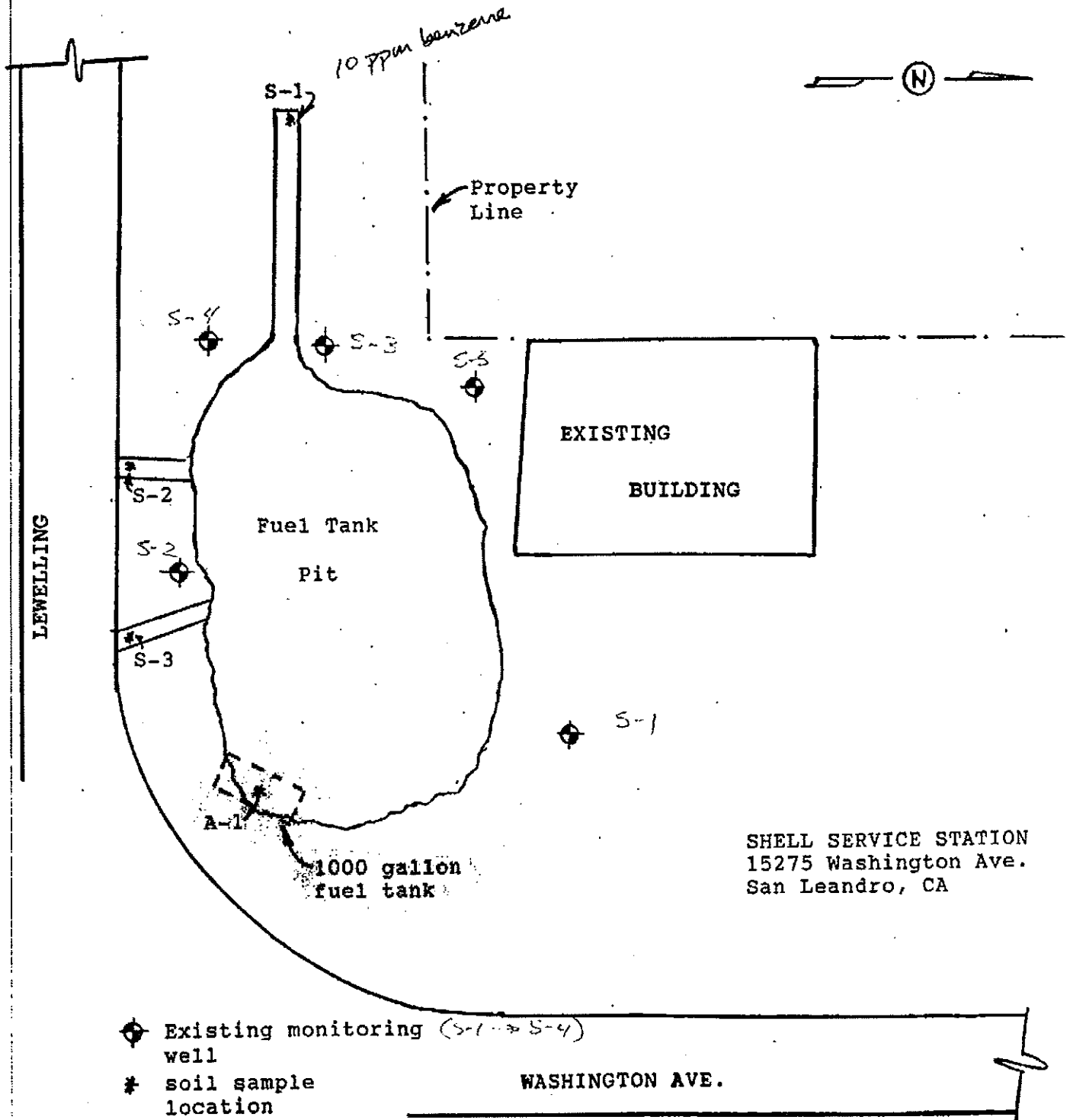
KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-8915



SHELL SERVICE STATION
15275 Washington Ave.
San Leandro, CA

- ◆ Existing monitoring well (S-1 to S-4)
- * soil sample location

WASHINGTON AVE.

SITE PLAN

1" = 20 ft.

Table 4. Sequoia Analytical Soil Data
Former Shell Service Station, WIC #204-6852-1008, 15275 Washington Avenue, San Leandro, California

WA Sample ID	Depth below ground surface	Date sampled	Date Analyzed	TPH (C ₁₅ + as Obs)	Benzene	Toluene	Ethylbenzene	Total-Xylene	Chromatogram Pattern	Fraction Organic Carbon (%)	Moisture (%)	Dry Bulk Density (g/cc)	Wet Bulk Density (g/cc)	Calculated from Dry Bulk Density	Screen Density - assumed	Total Porosity	Water filled Porosity	Air filled Porosity	Comments
Soil Data																			
TPPH w/ BETX (8015 Mod/8020, µg/kg)																			
SG-03-0-4 ft	0-4 ft	5/5/97	5/14/97	23,000	260	110	210	410	Gas/UH	1.3%	7%	1.8	1.9	2.65	0.32	0.05	0.27	0-4" Gravel (GP), 4"-4" Sand & Gravel (SW) fill, slight odor	
SG-03-4-6 ft	4-6 ft	5/5/97	5/14/97	4,200,000	10,000	3,700	52,000	220,000	Gas	0.37%	15%	2.0	2.3	2.65	0.25	0.04	0.21	4"-6" Moist Clayey Silt w/ Gravel, slight odor	
SG-03-6-8 ft	6-8 ft	5/5/97	5/14/97	3,600,000	6,300	5,900	47,000	190,000	Gas	0.30%	17%	2.1	2.5	2.65	0.21	0.03	0.17	6"-8" Silty Sand, less moist, slight odor	
SG-04-0-2 ft	0-2 ft	5/5/97	5/14/97	2,000	13	< 5	21	67	Gas	3.4%	1%	1.9	1.9	2.65	0.28	0.05	0.24	0-6" Gravel, Asphalt, 6"-2" Clayey Sand, no odor	
SG-04-2-4 ft	2-4 ft	5/5/97	5/14/97	9,000	55	23	150	470	Gas	1.2%	20%	2.0	2.4	2.65	0.25	0.04	0.21	2"-4" Clayey Silt, no odor	
SG-04-4-6 ft	4-6 ft	5/5/97	5/14/97	410,000	360	750	720	1,200	Gas/UH	0.38%	19%	2.1	2.5	2.65	0.21	0.03	0.17	4"-6" Clayey Silt, slight odor	
SG-04-6-8 ft	6-8 ft	5/5/97	5/14/97	140,000	< 5	270	810	1,400	Gas	2.8%	21%	2.1	2.5	2.65	0.21	0.03	0.17	6"-7" Clayey Sand, moist, slight odor, 7"-8" Clayey Silt, no odor	
SG-07-0-2 ft	0-2 ft	5/5/97	5/15/97	5,100	220	7.7	670	170	Gas	0.65%	3%	2.1	2.2	2.65	0.21	0.03	0.17	0-4" Asphalt, 4"-2" Clayey Silt, slight odor	
SG-07-2-4 ft	2-4 ft	5/6/97	5/14/97	27,000	340	87	1,100	180	Gas	0.68%	21%	1.8	2.2	2.65	0.32	0.05	0.27	2"-4" Clayey Silt, slight odor	
SG-07-4-6 ft	4-6 ft	5/6/97	5/15/97	26,000	310	< 5	660	120	Gas	0.33%	25%	2.0	2.5	2.65	0.25	0.04	0.21	4"-6" Clayey Silt, strong odor	
SG-07-6-8 ft	6-8 ft	5/6/97	5/14/97	840,000	< 5	3,000	12,000	< 5	Gas	0.28%	20%	2.2	2.6	2.65	0.17	0.03	0.14	6"-8" Clayey Sand, strong odor	
SG-08-0-2 ft	0-2 ft	5/6/97	5/14/97	< 1,000	< 5	< 5	< 5	< 5	NA	0.88%	15%	2.1	2.4	2.65	0.21	0.03	0.17	0-2" Asphalt, 4"-2" Mortared Clayey Sand & Gravel, Wood frag. at 2", no odor	
SG-08-2-4 ft	2-4 ft	5/6/97	5/14/97	< 1,000	< 5	< 5	< 5	6.6	Gas	0.82%	16%	1.7	2.0	2.65	0.36	0.06	0.30	2"-4" Clayey Sand, no odor	
SG-08-4-6 ft	4-6 ft	5/6/97	5/15/97	390,000	< 5	< 5	< 5	3,100	Gas/UH	0.52%	25%	1.9	2.4	2.65	0.28	0.05	0.24	4"-6" Silty Sand, strong odor	
SG-08-6-8 ft	6-8 ft	5/6/97	5/14/97	1,200,000	< 5	< 5	8,500	14,000	Gas	0.26%	19%	2.1	2.5	2.65	0.21	0.03	0.17	6"-8" Silty Sand, strong odor	
Averages					724,940	1,193	925	8,257	28,742	0.94%	16%	2.0	2.3	2.65	0.25	0.04	0.21		

Notes: < - Below the method detection limit.
 Chromatogram Pattern: Gas = Gasoline
 Gas/UH = Gasoline & Unidentified Hydrocarbons >C8

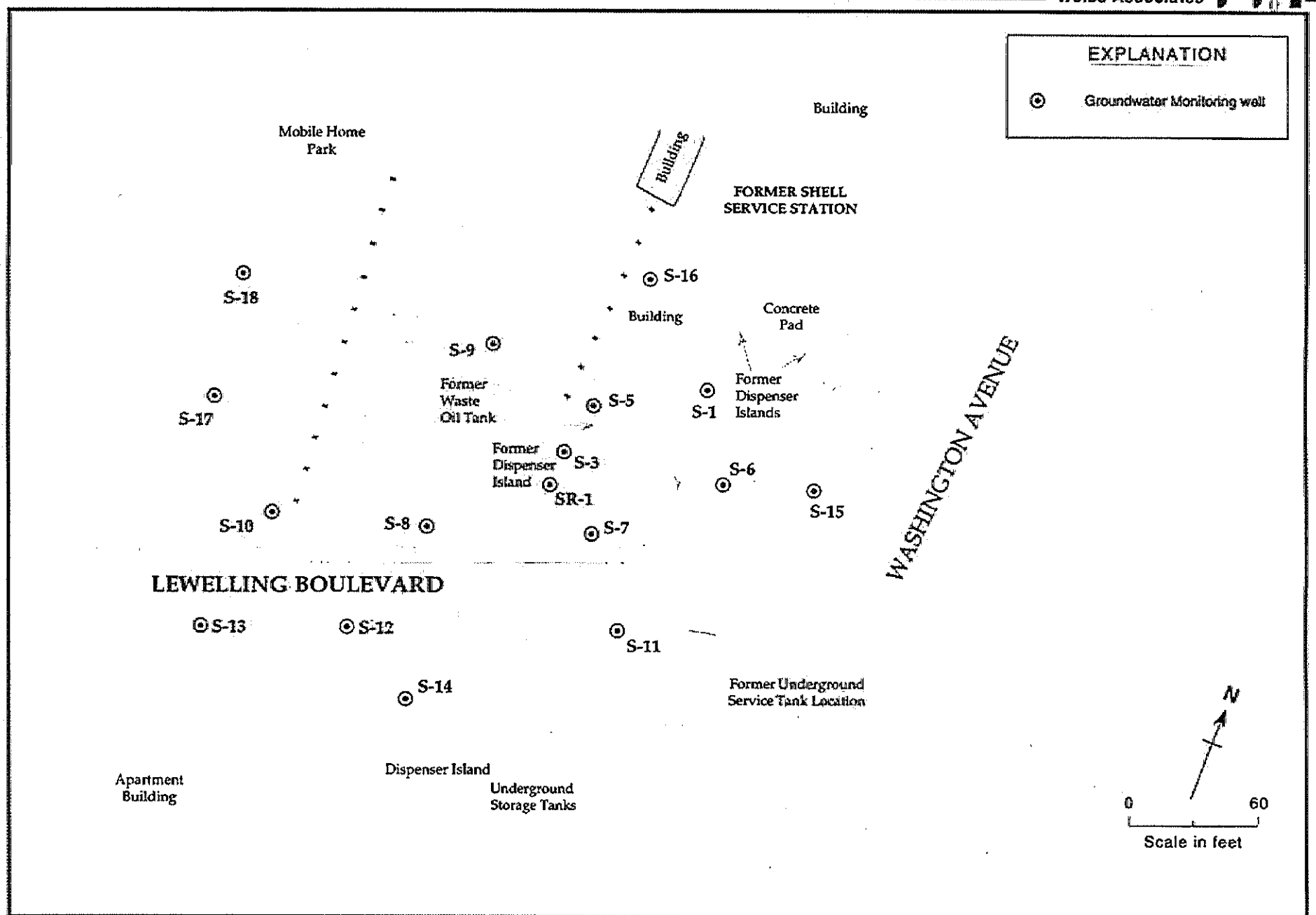


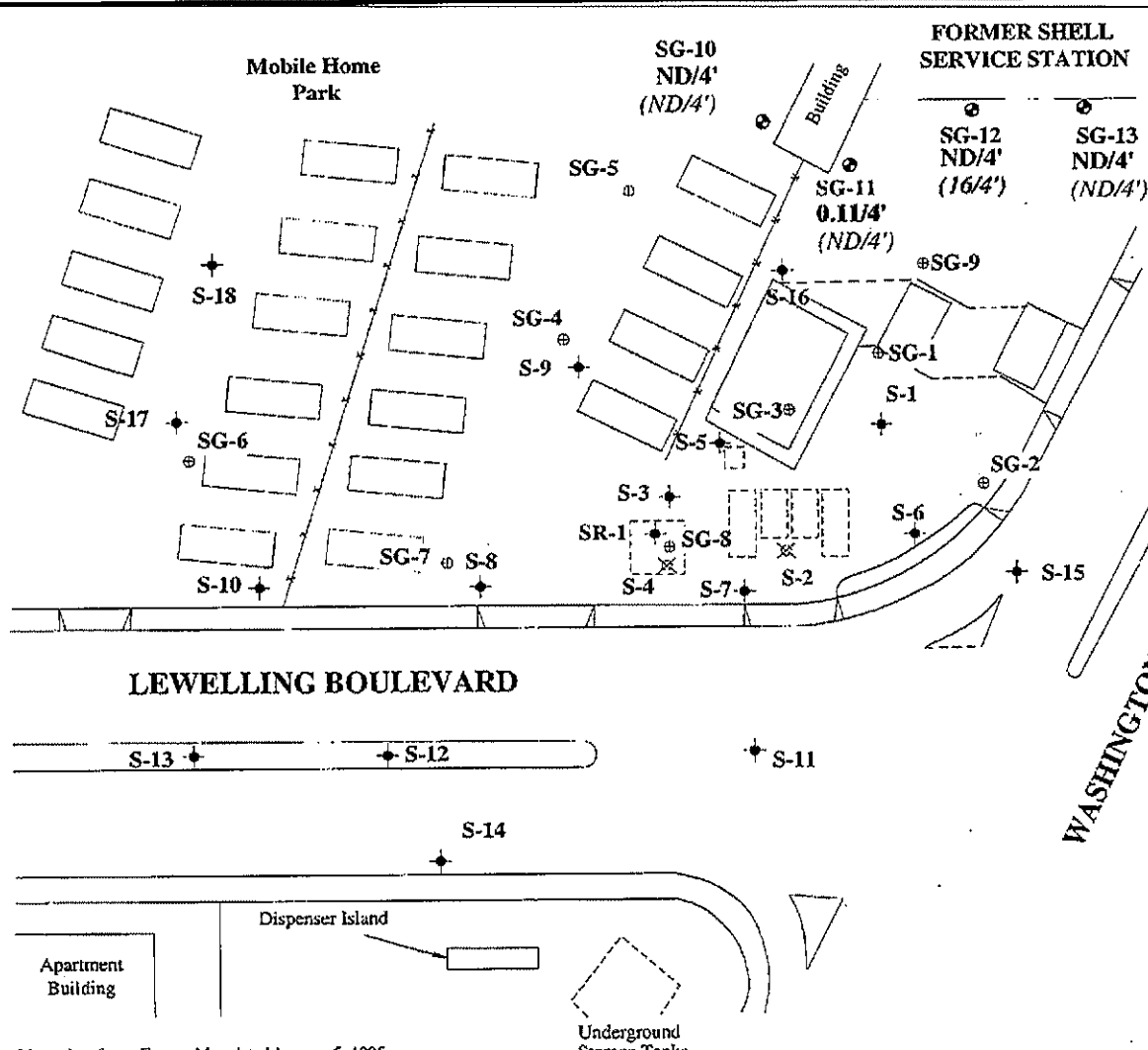
Figure 2. Site Plan - Shell Oil Company, 15275 Washington Avenue, San Leandro, California

TABLE 4
SOIL ANALYTICAL DATA
Shell Oil Products Company
15275 Washington Avenue
San Leandro, CA
WIC# 204-6852-1008

Sample Depth (ft)	Date Sampled	TPPH (mg/Kg)	B (mg/Kg)	T (mg/kg)	E (mg/Kg)	X (mg/Kg)	MTBE (mg/Kg)	Primary Soil Type (Unified Soil Class)	Comments
SG-10-4									
4	31-Jul-97	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	SM	
SG-11-4									
4	31-Jul-97	30	0.11	0.15	0.76	0.27	0.67	CL	
SG-12-4									
4	31-Jul-97	6.8	<0.0050	0.018	0.014	0.065	<0.025	CL	
SG-13-4									
4	31-Jul-97	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	CL	

Abbreviations:

<x = Not detected at detection limit of x



EXPLANATION

- † Groundwater Monitoring Well
- ⊗ Abandoned Groundwater Monitoring Well
- ⊕ Weiss Associates Soil Boring
- ⊙ Envirosoil Soil Boring (31-Jul-97)

0.11/4'
Benzene/Depth in feet. Concentration in soil in parts per million.

(0.11/4')
Benzene/Depth in feet. Vapor concentration in soil in ug/cubic meter

ND None Detected

Base Map taken from Emcon Map dated January 5, 1995.

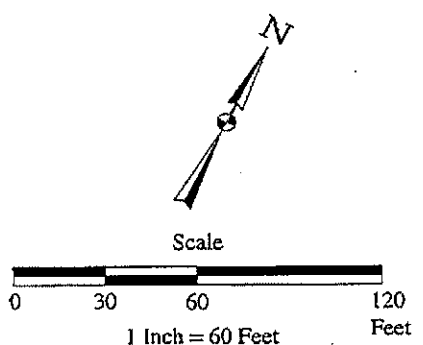


PLATE **2** SITE MAP / BENZENE CONCENTRATION MAP
 Shell Oil Products Company
 15275 Washington Avenue
 San Leandro, California

enviros
 95276.01

Drawn By: DML Date: 7-22-97

Approved By: _____ Date: 8-13-97

APPENDIX D
HISTORICAL GROUNDWATER MONITORING DATA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-1	7/8/1985	520	NA	NA	NA	NA	NA	NA	21.55	NA	NA	NA	NA
S-1	9/6/1988	<50	<0.5	<1	<1	<0.3	NA	NA	21.55	NA	NA	NA	NA
S-1	11/16/1988	<50	<0.5	<1	<1	<0.3	NA	NA	21.55	8.01	13.54	NA	NA
S-1	2/27/1989	<50	0.5	<1	<1	<0.3	NA	NA	21.55	NA	NA	NA	NA
S-1	5/4/1989	<50	1.0	<1	<1	<0.3	NA	NA	21.55	NA	NA	NA	NA
S-1	8/10/1989	<50	0.7	<1	<1	<0.3	NA	NA	21.55	7.93	13.62	NA	NA
S-1	10/10/1989	<50	<0.5	<1	<1	<0.3	NA	NA	21.55	8.09	13.46	NA	NA
S-1	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.55	7.73	13.82	NA	NA
S-1	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.55	7.91	13.64	NA	NA
S-1	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.55	7.72	13.83	NA	NA
S-1	10/18/1990	80	5	<0.5	<0.5	3.0	NA	NA	21.55	8.55	13.00	NA	NA
S-1	1/28/1991	<50	4.5	<0.5	<0.5	2.0	NA	NA	21.55	8.52	13.03	NA	NA
S-1	4/25/1991	80a	3.7	<0.5	0.7	2.0	NA	NA	21.55	7.18	14.37	NA	NA
S-1	7/9/1991	200	16	<0.5	1.3	5.8	NA	NA	21.55	8.22	13.33	NA	NA
S-1	10/8/1991	<50	2.3	<0.5	<0.5	<0.5	NA	NA	21.55	8.70	12.85	NA	NA
S-1	2/5/1992	160	8.9	<0.5	2.1	6.0	NA	NA	21.55	8.14	13.41	NA	NA
S-1	4/28/1992	<50	2.4	<0.5	<0.5	0.9	NA	NA	21.55	7.52	14.03	NA	NA
S-1	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.55	8.28	13.27	NA	NA
S-1	10/26/1992	57	3.0	1.6	1.4	1.7	NA	NA	21.55	8.74	12.81	NA	NA
S-1	1/14/1993	490	53	1.2	20	33	NA	NA	21.55	5.91	15.64	NA	NA
S-1	4/16/1993	240	20	<0.5	15	240	NA	NA	21.55	6.66	14.89	NA	NA
S-1	7/23/1993	<50	0.5	<0.5	<0.5	<0.5	NA	NA	21.55	7.53	14.02	NA	NA
S-1	10/27/1993	60	5.9	<0.5	2.5	1.7	NA	NA	21.55	8.20	13.35	NA	NA
S-1	1/27/1994	<50	2.1	<0.5	<0.5	0.63	NA	NA	21.55	7.26	14.29	NA	NA
S-1	5/5/1994	57	3.9	<0.5	1.9	1.9	NA	NA	21.27	7.38	13.89	NA	NA
S-1	7/26/1994	<50	2.2	<0.3	<0.3	<0.6	NA	NA	21.27	7.86	13.41	NA	NA
S-1	10/28/1994	<50	0.8	<0.3	<0.3	0.8	NA	NA	21.27	7.86	13.41	NA	NA
S-1	1/2/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.27	6.85	14.42	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-1	4/14/1995	NA	NA	NA	NA	NA	NA	NA	21.27	6.08	15.19	NA	NA
S-1	7/28/1995	60	2.2	<0.5	1.3	1.2	NA	NA	21.27	6.79	14.48	NA	NA
S-1	10/17/1995	60	2.6	<0.5	1.2	1.3	NA	NA	21.27	7.04	14.23	NA	NA
S-1	1/11/1996	<50	2.0	<0.5	<0.5	<0.5	<2	NA	21.27	6.40	14.87	NA	NA
S-1	4/2/1996	NA	NA	NA	NA	NA	NA	NA	21.27	5.84	15.43	NA	NA
S-1	7/9/1996	NA	NA	NA	NA	NA	NA	NA	21.27	6.50	14.77	NA	NA
S-1	10/10/1996	NA	NA	NA	NA	NA	NA	NA	21.27	7.31	13.96	NA	NA
S-1	1/9/1997	<50	<0.50	<0.50	<0.50	<0.50	6.7	NA	21.27	5.50	15.77	NA	NA
S-1	4/8/1997	NA	NA	NA	NA	NA	NA	NA	21.27	7.03	14.24	NA	NA
S-1	7/21/1997	NA	NA	NA	NA	NA	NA	NA	21.27	7.00	14.27	NA	NA
S-1	10/8/1997	NA	NA	NA	NA	NA	NA	NA	21.27	7.51	13.76	NA	NA
S-1	1/15/1998	420	16	<0.50	4.6	3.9	26	NA	21.27	5.43	15.84	NA	NA
S-1	4/14/1998	NA	NA	NA	NA	NA	NA	NA	21.27	5.55	15.72	NA	NA
S-1	7/14/1998	NA	NA	NA	NA	NA	NA	NA	21.33	6.38	14.95	NA	NA
S-1	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.33	7.48	13.85	NA	NA
S-1	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2.53	NA	21.33	6.37	14.96	NA	NA
S-1	4/8/1999	NA	NA	NA	NA	NA	NA	NA	21.33	5.93	15.40	NA	NA
S-1	7/23/1999	NA	NA	NA	NA	NA	NA	NA	21.33	7.20	14.13	NA	NA
S-1	10/26/1999	NA	NA	NA	NA	NA	NA	NA	21.33	7.61	13.72	NA	NA
S-1	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	4.73	NA	21.33	7.76	13.57	NA	NA
S-1	4/14/2000	NA	NA	NA	NA	NA	NA	NA	21.33	6.35	14.98	NA	NA
S-1	7/12/2000	NA	NA	NA	NA	NA	NA	NA	21.33	7.05	14.28	NA	NA
S-1	11/1/2000	NA	NA	NA	NA	NA	NA	NA	21.33	6.51	14.82	NA	NA
S-1	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	21.33	7.49	13.84	NA	NA
S-1	4/24/2001	NA	NA	NA	NA	NA	NA	NA	21.33	6.85	14.48	NA	NA
S-1	7/2/2001	NA	NA	NA	NA	NA	NA	NA	21.33	7.65	13.68	NA	NA
S-1	11/2/2001	NA	NA	NA	NA	NA	NA	NA	21.33	7.84	13.49	NA	NA
S-1	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.33	6.16	15.17	NA	NA

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HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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S-1	4/1/2002	NA	NA	NA	NA	NA	NA	NA	21.33	6.57	14.76	NA	NA
S-1	7/11/2002	NA	NA	NA	NA	NA	NA	NA	21.33	7.52	13.81	NA	NA
S-1	10/28/2002	NA	NA	NA	NA	NA	NA	NA	21.33	7.99	13.34	NA	NA
S-1	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	5.6	21.33	6.46	14.87	NA	NA
S-1	4/30/2003	NA	NA	NA	NA	NA	NA	NA	21.33	6.18	15.15	NA	NA
S-1	7/1/2003	NA	NA	NA	NA	NA	NA	NA	21.33	7.38	13.95	NA	NA
S-1	10/8/2003	NA	NA	NA	NA	NA	NA	NA	21.33	7.87	13.46	NA	NA
S-1	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.33	6.90	14.43	NA	NA
S-1	7/13/2004	NA	NA	NA	NA	NA	NA	NA	21.33	7.83	13.50	NA	NA
S-1	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.33	5.68	15.65	NA	NA
S-1	7/19/2005	NA	NA	NA	NA	NA	NA	NA	21.33	6.35	14.98	NA	NA
S-1	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	21.33	6.05	15.28	NA	NA
S-1	7/25/2006	NA	NA	NA	NA	NA	NA	NA	21.33	7.12	14.21	NA	NA
S-1	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.33	6.75	14.58	NA	NA
S-1	7/24/2007	NA	NA	NA	NA	NA	NA	NA	21.33	7.73	13.60	NA	NA
S-1	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	21.33	6.10	15.23	NA	NA
S-1	8/4/2008	NA	NA	NA	NA	NA	NA	NA	21.33	7.76	13.57	NA	NA

S-3	9/6/1988	96000	3400	9500	2700	17000	NA	NA	21.14	NA	NA	NA	NA
S-3	11/16/1988	70000	4600	8400	2500	13000	NA	NA	21.14	7.76	13.38	NA	NA
S-3	2/27/1989	32000	2400	3100	1500	6400	NA	NA	21.14	NA	NA	NA	NA
S-3	5/4/1989	47000	4400	300	2400	15000	NA	NA	21.14	NA	NA	NA	NA
S-3	8/10/1989	110000	5700	5700	3200	19000	NA	NA	21.14	7.92	13.22	NA	NA
S-3	10/10/1989	52000	4600	3300	2600	15000	NA	NA	21.14	8.00	13.14	NA	NA
S-3	1/25/1990	420000	5200	4100	6700	34000	NA	NA	21.14	7.54	13.60	NA	NA
S-3	4/18/1990	58000	3800	1400	2400	12000	NA	NA	21.14	7.74	13.40	NA	NA
S-3	7/23/1990	49000	3400	1800	2300	12000	NA	NA	21.14	7.55	13.59	NA	NA
S-3	10/18/1990	44000	3500	650	2400	11000	NA	NA	21.14	8.47	12.67	NA	NA

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Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-3	1/28/1991	64000	40900	570	1940	8090	NA	NA	21.14	8.38	12.76	NA	NA
S-3	4/25/1991	120000	3900	3600	2400	8900	NA	NA	21.14	6.91	14.23	NA	NA
S-3	7/9/1991	50000	3600	2300	1800	10000	NA	NA	21.14	8.07	13.07	NA	NA
S-3	10/8/1991	130000	3600	1000	2800	8400	NA	NA	21.14	8.61	12.53	NA	NA
S-3	2/5/1992	150000	2500	670	2700	10000	NA	NA	21.14	7.80	13.34	NA	NA
S-3	4/28/1992	120000	2200	1200	2000	5800	NA	NA	21.14	7.27	13.87	NA	NA
S-3	7/27/1992	190000	1400	<1250	<1250	3400	NA	NA	21.14	8.10	13.04	NA	NA
S-3	10/26/1992	950000	2000	8400	16000	36000	NA	NA	21.14	8.62	12.52	NA	NA
S-3	1/14/1993	41000	2700	2500	1800	6900	NA	NA	21.14	5.16	15.98	NA	NA
S-3	4/16/1993	40000	930	2800	1900	14000	NA	NA	21.14	7.18	13.96	NA	NA
S-3	7/23/1993	87000	1600	<5	1300	4000	NA	NA	21.14	7.34	13.80	NA	NA
S-3	10/27/1993	36000	2200	<500	1500	3200	NA	NA	21.14	8.03	13.11	NA	NA
S-3	1/27/1994	190000	3200	3100	4100	15000	NA	NA	21.14	6.79	14.35	NA	NA
S-3	5/5/1994	36000	1100	490	1600	4700	NA	NA	20.48	6.75	13.73	NA	NA
S-3	7/26/1994	18000	1039	170.5	845.4	967.5	NA	NA	20.48	7.30	13.18	NA	NA
S-3	10/28/1994	25869	467.9	294	546.2	343.3	NA	NA	20.48	8.36	12.12	NA	NA
S-3	1/2/1995	23000	850	260	900	2100	NA	NA	20.48	6.36	14.12	NA	NA
S-3	4/14/1995	33000	720	670	1600	6600	NA	NA	20.48	5.87	14.61	NA	NA
S-3	7/28/1995	12000	540	<10	580	780	NA	NA	20.48	6.33	14.15	NA	NA
S-3	10/17/1995	Well inaccessible		NA	NA	NA	NA	NA	20.48	6.48	14.00	NA	NA
S-3	1/11/1996	16000	520	290	740	2600	<200	NA	20.48	5.80	14.68	NA	NA
S-3	4/2/1996	NA	NA	NA	NA	NA	NA	NA	20.48	5.00	15.48	NA	NA
S-3	7/9/1996	NA	NA	NA	NA	NA	NA	NA	20.48	5.93	14.55	NA	NA
S-3	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.48	6.73	13.75	NA	NA
S-3	1/9/1997	30000	420	330	1500	6300	<500	NA	20.48	4.72	15.76	NA	NA
S-3	4/8/1997	NA	NA	NA	NA	NA	NA	NA	20.48	6.63	13.85	NA	NA
S-3	7/21/1997	NA	NA	NA	NA	NA	NA	NA	20.48	6.18	14.30	NA	NA
S-3	10/8/1997	NA	NA	NA	NA	NA	NA	NA	20.48	6.83	13.65	NA	NA

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Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-3	1/15/1998	21000	300	51	770	2800	<100	NA	20.48	4.30	16.18	NA	NA
S-3 (D)	1/15/1998	14000	330	63	920	3400	<250	NA	20.48	NA	NA	NA	NA
S-3	4/14/1998	NA	NA	NA	NA	NA	NA	NA	20.48	4.37	16.11	NA	NA
S-3	7/14/1998	NA	NA	NA	NA	NA	NA	NA	20.48	5.47	15.01	NA	NA
S-3	10/20/1998	Well inaccessible		NA	NA	NA	NA	NA	20.48	NA	NA	NA	NA
S-3	1/22/1999	40000	313	194	2200	8800	<40.0	NA	20.48	5.71	14.77	NA	NA
S-3	4/8/1999	NA	NA	NA	NA	NA	NA	NA	20.48	4.95	15.53	NA	NA
S-3	7/23/1999	NA	NA	NA	NA	NA	NA	NA	20.48	6.78	13.70	NA	NA
S-3	10/26/1999	NA	NA	NA	NA	NA	NA	NA	20.48	7.25	13.23	NA	NA
S-3	1/3/2000	39700	150	61.8	1690	7720	445	NA	20.48	7.46	13.02	NA	NA
S-3	4/14/2000	NA	NA	NA	NA	NA	NA	NA	20.48	5.64	14.84	NA	NA
S-3	7/12/2000	Well inaccessible		NA	NA	NA	NA	NA	20.48	NA	NA	NA	NA
S-3	11/1/2000	NA	NA	NA	NA	NA	NA	NA	20.48	6.72	13.76	NA	NA
S-3	1/3/2001	25000	89.0	<50.0	1270	5180	<250	NA	20.48	7.14	13.34	NA	NA
S-3	4/24/2001	Well inaccessible		NA	NA	NA	NA	NA	20.48	NA	NA	NA	NA
S-3	7/2/2001	NA	NA	NA	NA	NA	NA	NA	20.48	7.28	13.20	NA	3.2
S-3	11/2/2001	NA	NA	NA	NA	NA	NA	NA	20.48	7.64	12.84	NA	3.5
S-3	1/16/2002	Well inaccessible		NA	NA	NA	NA	NA	20.48	NA	NA	NA	NA
S-3	4/1/2002	NA	NA	NA	NA	NA	NA	NA	20.48	5.99	14.49	NA	3.8
S-3	7/11/2002	NA	NA	NA	NA	NA	NA	NA	20.48	7.21	13.27	NA	0.7
S-3	10/28/2002	NA	NA	NA	NA	NA	NA	NA	20.85	7.90	12.95	NA	e
S-3	1/23/2003	28000	60	13	970	3700	NA	<50	20.85	6.00	14.85	NA	0.3
S-3	4/30/2003	NA	NA	NA	NA	NA	NA	NA	20.85	5.34	15.51	NA	1.0
S-3	7/1/2003	NA	NA	NA	NA	NA	NA	NA	20.85	7.28	13.57	NA	1.0
S-3	10/8/2003	NA	NA	NA	NA	NA	NA	NA	20.85	7.63	13.22	NA	26.9
S-3	1/22/2004	3200	5.7	<2.5	16	320	NA	NA	20.85	6.53	14.32	NA	0.5
S-3	7/13/2004	Well inaccessible		NA	NA	NA	NA	NA	20.85	NA	NA	NA	NA
S-3	7/21/2004	3100	4.1	<2.5	10	130	NA	NA	20.85	7.64	13.21	NA	2.2

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Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-3	1/20/2005	93	<0.50	<0.50	1.3	1.8	NA	NA	20.85	5.78	15.07	NA	0.8
S-3	7/19/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.85	6.35	14.50	NA	NA
S-3	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.85	5.55	15.30	NA	NA
S-3	7/25/2006	100	<1.00	<1.00	<1.00	<3.00	NA	NA	20.85	7.09	13.76	NA	NA
S-3	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.85	6.53	14.32	NA	NA
S-3	7/24/2007	590 g,h	0.99	<1.0	0.25 i	0.99 i	NA	NA	20.85	7.44	13.41	NA	NA
S-3	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.85	5.41	15.44	NA	NA
S-3	8/4/2008	76	<0.50	<1.0	<1.0	<1.0	NA	NA	20.85	6.62	14.23	NA	NA

S-5	1/8/1987	7800	380	510	NA	1000	NA	NA	21.41	NA	NA	NA	NA
S-5	9/6/1988	7000	2600	60	400	700	NA	NA	21.41	NA	NA	NA	NA
S-5	11/16/1988	3000	660	60	120	220	NA	NA	21.41	NA	NA	NA	NA
S-5	2/27/1989	5700	2000	220	260	320	NA	NA	21.41	NA	NA	NA	NA
S-5	5/4/1989	9000	3000	600	630	1700	NA	NA	21.41	NA	NA	NA	NA
S-5	8/10/1989	5100	1100	<50	270	400	NA	NA	21.41	8.28	13.13	NA	NA
S-5	10/10/1989	15000	3300	160	830	2200	NA	NA	21.41	8.32	13.09	NA	NA
S-5	1/25/1990	12000	2400	360	570	1400	NA	NA	21.41	8.20	13.21	NA	NA
S-5	4/18/1990	5200	1100	40	300	460	NA	NA	21.41	8.32	13.09	NA	NA
S-5	7/23/1990	5500	1300	140	320	730	NA	NA	21.41	8.03	13.38	NA	NA
S-5	10/18/1990	12000	3200	40	720	900	NA	NA	21.41	9.03	12.38	NA	NA
S-5	1/28/1991	2550	410	15	110	60	NA	NA	21.41	8.80	12.61	NA	NA
S-5	4/25/1991	67000	5100	3100	2800	11000	NA	NA	21.41	7.40	14.01	NA	NA
S-5	7/9/1991	4900	480	36	360	1000	NA	NA	21.41	8.52	12.89	NA	NA
S-5	10/8/1991	6600	370	7.0	190	380	NA	NA	21.41	9.00	12.41	NA	NA
S-5	2/5/1992	44000	4800	850	2700	8400	NA	NA	21.41	8.11	13.30	NA	NA
S-5	4/28/1992	33000	1400	320	1600	5200	NA	NA	21.41	7.70	13.71	NA	NA
S-5	7/27/1992	20000	2400	<25	1800	2300	NA	NA	21.41	8.52	12.89	NA	NA
S-5	10/26/1992	21000	1600	140	1500	2800	NA	NA	21.41	9.02	12.39	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-5	1/14/1993	54000	1900	1000	2700	16000	NA	NA	21.41	5.22	16.19	NA	NA
S-5	4/16/1993	42000	2000	1300	4300	18000	NA	NA	21.41	7.04	14.37	NA	NA
S-5	7/23/1993	46000	2500	2200	3400	11000	NA	NA	21.41	7.75	13.66	NA	NA
S-5	10/27/1993	6500	990	31	1100	1000	NA	NA	21.41	8.49	12.92	NA	NA
S-5	1/27/1994	34000	1800	580	2900	9700	NA	NA	21.41	7.04	14.37	NA	NA
S-5	5/5/1994	24000	670	70	1400	2700	NA	NA	21.03	7.20	13.83	NA	NA
S-5	7/27/1994	4700	193.6	33.1	332.3	281.2	NA	NA	21.03	7.72	13.31	NA	NA
S-5	10/28/1994	3200	167.3	18	238.7	104.5	NA	NA	21.03	7.82	13.21	NA	NA
S-5	1/2/1995	18000	1300	220	3400	10000	NA	NA	21.03	6.65	14.38	NA	NA
S-5	4/14/1995	NA	NA	NA	NA	NA	NA	NA	21.03	5.99	15.04	NA	NA
S-5	7/28/1995	25000	440	74	1700	4500	NA	NA	21.03	6.77	14.26	NA	NA
S-5 (D)	7/28/1995	25000	450	<50	1700	4600	NA	NA	21.03	NA	NA	NA	NA
S-5	10/17/1995	18000	360	24	1300	2200	NA	NA	21.03	7.00	14.03	NA	NA
S-5	1/11/1996	41000	420	180	1600	9500	<200	NA	21.03	6.22	14.81	NA	NA
S-5	4/2/1996	NA	NA	NA	NA	NA	NA	NA	21.03	5.44	15.59	NA	NA
S-5	7/9/1996	NA	NA	NA	NA	NA	NA	NA	21.03	6.41	14.62	NA	NA
S-5	10/10/1996	NA	NA	NA	NA	NA	NA	NA	21.03	7.19	13.84	NA	NA
S-5	1/9/1997	38000	130	43	160	6200	<125	NA	21.03	5.03	16.00	NA	NA
S-5 (D)	1/9/1997	36000	130	<50	160	5600	<250	NA	21.03	NA	NA	NA	NA
S-5	4/8/1997	NA	NA	NA	NA	NA	NA	NA	21.03	7.20	13.83	NA	NA
S-5	7/21/1997	NA	NA	NA	NA	NA	NA	NA	21.03	6.82	14.21	NA	NA
S-5	10/8/1997	NA	NA	NA	NA	NA	NA	NA	21.03	7.31	13.72	NA	NA
S-5	1/15/1998	49000	62	<50	93	4100	<250	NA	21.03	4.58	16.45	NA	NA
S-5	4/14/1998	NA	NA	NA	NA	NA	NA	NA	21.03	4.94	16.09	NA	NA
S-5	7/14/1998	NA	NA	NA	NA	NA	NA	NA	21.27	5.36	15.91	NA	NA
S-5	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.27	7.53	13.74	NA	NA
S-5	1/22/1999	2550	9.09	<0.500	1.93	112	4.40	NA	21.27	6.35	14.92	NA	NA
S-5	4/8/1999	NA	NA	NA	NA	NA	NA	NA	21.27	5.37	15.90	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-5	7/23/1999	NA	NA	NA	NA	NA	NA	NA	21.27	6.43	14.84	NA	NA
S-5	10/26/1999	NA	NA	NA	NA	NA	NA	NA	21.27	7.51	13.76	NA	NA
S-5	1/3/2000	3310	39.0	<10.0	293	21.7	<50.0	NA	21.27	7.78	13.49	NA	NA
S-5	4/14/2000	NA	NA	NA	NA	NA	NA	NA	21.27	6.15	15.12	NA	NA
S-5	7/12/2000	NA	NA	NA	NA	NA	NA	NA	21.27	7.05	14.22	NA	NA
S-5	11/1/2000	NA	NA	NA	NA	NA	NA	NA	21.27	6.00	15.27	NA	NA
S-5	1/3/2001	516	3.65	0.968	18.0	4.02	18.4	NA	21.27	7.48	13.79	NA	NA
S-5	4/24/2001	NA	NA	NA	NA	NA	NA	NA	21.27	6.58	14.69	NA	NA
S-5	7/2/2001	NA	NA	NA	NA	NA	NA	NA	21.27	7.60	13.67	NA	NA
S-5	11/2/2001	NA	NA	NA	NA	NA	NA	NA	21.27	7.94	13.33	NA	NA
S-5	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.27	5.88	15.39	NA	NA
S-5	4/1/2002	NA	NA	NA	NA	NA	NA	NA	21.27	6.27	15.00	NA	NA
S-5	7/11/2002	NA	NA	NA	NA	NA	NA	NA	21.27	7.53	13.74	NA	NA
S-5	10/28/2002	NA	NA	NA	NA	NA	NA	NA	21.27	8.11	13.16	NA	NA
S-5	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.27	6.22	15.05	NA	NA
S-5	4/30/2003	NA	NA	NA	NA	NA	NA	NA	21.27	5.48	15.79	NA	NA
S-5	7/1/2003	NA	NA	NA	NA	NA	NA	NA	21.27	7.32	13.95	NA	NA
S-5	10/8/2003	NA	NA	NA	NA	NA	NA	NA	21.27	7.91	13.36	NA	NA
S-5	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.27	6.68	14.59	NA	NA
S-5	7/13/2004	NA	NA	NA	NA	NA	NA	NA	21.27	8.17	13.10	NA	NA
S-5	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.27	5.30	15.97	NA	NA
S-5	7/19/2005	NA	NA	NA	NA	NA	NA	NA	21.27	6.35	14.92	NA	NA
S-5	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	21.27	5.83	15.44	NA	NA
S-5	7/25/2006	NA	NA	NA	NA	NA	NA	NA	21.27	7.35	13.92	NA	NA
S-5	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.27	6.82	14.45	NA	NA
S-5	7/24/2007	NA	NA	NA	NA	NA	NA	NA	21.27	7.70	13.57	NA	NA
S-5	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	21.27	5.83	15.44	NA	NA
S-5	8/4/2008	NA	NA	NA	NA	NA	NA	NA	21.27	8.04	13.23	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-6	11/16/1988	50	0.7	<1	<1	<3	NA	NA	22.02	8.58	13.44	NA	NA
S-6	2/27/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	NA	NA	NA	NA
S-6	5/4/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	NA	NA	NA	NA
S-6	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	8.54	13.48	NA	NA
S-6	10/10/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	8.58	13.44	NA	NA
S-6	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	22.02	8.31	13.71	NA	NA
S-6	4/18/1990	<50	<0.5	0.6	<0.5	1.0	NA	NA	22.02	8.43	13.59	NA	NA
S-6	7/23/1990	<50	<0.5	0.9	<0.5	1.8	NA	NA	22.02	8.24	13.78	NA	NA
S-6	10/18/1990	<50	<0.5	0.7	<0.5	0.8	NA	NA	22.02	9.20	12.82	NA	NA
S-6	1/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	9.10	12.92	NA	NA
S-6	4/25/1991	<50	<0.5	<0.5	<0.5	0.7	NA	NA	22.02	7.74	14.28	NA	NA
S-6	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	8.81	13.21	NA	NA
S-6	10/8/1991	<50	0.7	<0.5	<0.5	<0.5	NA	NA	22.02	9.26	12.76	NA	NA
S-6	2/2/1992	NA	NA	NA	NA	NA	NA	NA	22.02	8.47	13.55	NA	NA
S-6	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	7.91	14.11	NA	NA
S-6	7/27/1992	NA	NA	NA	NA	NA	NA	NA	22.02	8.83	13.19	NA	NA
S-6	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	9.29	12.73	NA	NA
S-6	1/13/1994	NA	NA	NA	NA	NA	NA	NA	22.02	9.43	12.59	NA	NA
S-6	4/16/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	7.12	14.90	NA	NA
S-6	7/23/1993	NA	NA	NA	NA	NA	NA	NA	22.02	8.14	13.88	NA	NA
S-6	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	8.75	13.27	NA	NA
S-6	1/27/1994	NA	NA	NA	NA	NA	NA	NA	22.02	7.87	14.15	NA	NA
S-6	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.40	7.71	13.69	NA	NA
S-6	7/26/1994	NA	NA	NA	NA	NA	NA	NA	21.40	8.10	13.30	NA	NA
S-6	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.40	8.04	13.36	NA	NA
S-6	1/2/1995	NA	NA	NA	NA	NA	NA	NA	21.40	7.07	14.33	NA	NA
S-6	4/14/1995	<50	<0.5	1.3	<0.5	<0.5	NA	NA	21.40	6.29	15.11	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-6	7/28/1995	NA	NA	NA	NA	NA	NA	NA	21.40	6.91	14.49	NA	NA
S-6	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.40	7.20	14.20	NA	NA
S-6	1/11/1996	NA	NA	NA	NA	NA	NA	NA	21.40	6.60	14.80	NA	NA
S-6	1/22/2004	Unable to locate		NA	NA	NA	NA	NA	21.40	NA	NA	NA	NA
S-7	11/16/1988	100	5.1	15	2.0	13	NA	NA	21.47	8.24	13.23	NA	NA
S-7	2/27/1989	50	0.5	3.0	1.0	11	NA	NA	21.47	NA	NA	NA	NA
S-7	5/4/1989	<50	<0.5	<1	<1	<3	NA	NA	21.47	NA	NA	NA	NA
S-7	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.47	8.18	13.29	NA	NA
S-7	10/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.47	8.35	13.12	NA	NA
S-7	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.47	7.95	13.52	NA	NA
S-7	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.47	8.06	13.41	NA	NA
S-7	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.89	13.58	NA	NA
S-7	10/18/1990	<50	<0.5	0.5	0.5	4.1	NA	NA	21.47	8.83	12.64	NA	NA
S-7	1/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.77	12.70	NA	NA
S-7	4/25/1991	60	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.25	14.22	NA	NA
S-7	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.41	13.06	NA	NA
S-7	10/8/1991	NA	NA	NA	NA	NA	NA	NA	21.47	8.95	12.52	NA	NA
S-7	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.04	13.43	NA	NA
S-7	10/8/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.95	12.52	NA	NA
S-7	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.45	14.02	NA	NA
S-7	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.48	12.99	NA	NA
S-7	10/26/1992	570	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	9.95	11.52	NA	NA
S-7	1/14/1993	56	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	5.84	15.63	NA	NA
S-7	4/16/1993	110	28	<0.5	<0.5	1.8	NA	NA	21.47	6.38	15.09	NA	NA
S-7	7/23/1993	80	0.48	<0.5	<0.5	0.8	NA	NA	21.47	7.72	13.75	NA	NA
S-7	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.79	13.68	NA	NA
S-7	1/27/1994	70a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.85	13.62	NA	NA

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HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

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S-7	5/5/1994	92	2.1	<0.5	<0.5	<0.5	NA	NA	20.85	9.45	11.40	NA	NA
S-7	7/26/1994	88	<0.3	<0.3	<0.3	<0.6	NA	NA	20.85	7.64	13.21	NA	NA
S-7	10/28/1994	60	<0.3	0.5	<0.3	<0.6	NA	NA	20.85	7.68	13.17	NA	NA
S-7	1/2/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.85	6.95	13.90	NA	NA
S-7	4/14/1995	NA	NA	NA	NA	NA	NA	NA	20.85	5.82	15.03	NA	NA
S-7	7/28/1995	170	1.7	<0.5	<0.5	2.2	NA	NA	20.85	6.32	14.53	NA	NA
S-7	10/17/1995	100	<0.5	0.6	<0.5	<0.5	NA	NA	20.85	7.07	13.78	NA	NA
S-7	1/11/1996	80	0.6	<0.5	<0.5	<0.5	54	NA	20.85	6.10	14.75	NA	NA
S-7	4/2/1996	NA	NA	NA	NA	NA	NA	NA	20.85	6.14	14.71	NA	NA
S-7	7/9/1996	NA	NA	NA	NA	NA	NA	NA	20.85	6.40	14.45	NA	NA
S-7	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.85	6.70	14.15	NA	NA
S-7	1/9/1997	130	1.4	<0.50	<0.50	0.56	70	NA	20.85	5.25	15.60	NA	NA
S-7	4/8/1997	NA	NA	NA	NA	NA	NA	NA	20.85	7.15	13.70	NA	NA
S-7	7/21/1997	NA	NA	NA	NA	NA	NA	NA	20.85	6.67	14.18	NA	NA
S-7	10/8/1997	NA	NA	NA	NA	NA	NA	NA	20.85	7.26	13.59	NA	NA
S-7	1/15/1998	<50	<0.50	<0.50	<0.50	<0.50	39	NA	20.85	5.51	15.34	NA	NA
S-7	4/14/1998	NA	NA	NA	NA	NA	NA	NA	20.85	5.45	15.40	NA	NA
S-7	7/14/1998	NA	NA	NA	NA	NA	NA	NA	21.03	6.48	14.55	NA	NA
S-7	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.03	7.37	13.66	NA	NA
S-7	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	97.8	NA	21.03	6.21	14.82	NA	NA
S-7	4/8/1999	NA	NA	NA	NA	NA	NA	NA	21.03	5.30	15.73	NA	NA
S-7	7/23/1999	NA	NA	NA	NA	NA	NA	NA	21.03	7.12	13.91	NA	NA
S-7	10/26/1999	NA	NA	NA	NA	NA	NA	NA	21.03	7.54	13.49	NA	NA
S-7	1/3/2000	615	8.73	2.90	4.00	7.17	17.0	NA	21.03	7.73	13.30	NA	NA
S-7	4/14/2000	NA	NA	NA	NA	NA	NA	NA	21.03	6.27	14.76	NA	NA
S-7	7/12/2000	NA	NA	NA	NA	NA	NA	NA	21.03	6.97	14.06	NA	NA
S-7	11/1/2000	NA	NA	NA	NA	NA	NA	NA	21.03	6.43	14.60	NA	NA
S-7	1/3/2001	460	6.68	<0.500	0.712	0.596	10.2	NA	21.03	7.27	13.76	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

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S-7	4/24/2001	NA	NA	NA	NA	NA	NA	NA	21.03	6.75	14.28	NA	NA
S-7	7/2/2001	NA	NA	NA	NA	NA	NA	NA	21.03	7.55	13.48	NA	NA
S-7	11/2/2001	NA	NA	NA	NA	NA	NA	NA	21.03	7.80	13.23	NA	NA
S-7	1/16/2002	360	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.03	6.11	14.92	NA	NA
S-7	4/1/2002	NA	NA	NA	NA	NA	NA	NA	21.03	6.54	14.49	NA	NA
S-7	7/11/2002	NA	NA	NA	NA	NA	NA	NA	21.03	7.37	13.66	NA	NA
S-7	10/28/2002	NA	NA	NA	NA	NA	NA	NA	21.01	7.97	13.04	NA	NA
S-7	1/23/2003	160	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.01	6.45	14.56	NA	NA
S-7	4/30/2003	NA	NA	NA	NA	NA	NA	NA	21.01	6.14	14.87	NA	NA
S-7	7/1/2003	NA	NA	NA	NA	NA	NA	NA	21.01	7.28	13.73	NA	NA
S-7	10/8/2003	NA	NA	NA	NA	NA	NA	NA	21.01	7.78	13.23	NA	NA
S-7	1/22/2004	140	<0.50	<0.50	0.51	<1.0	NA	NA	21.01	6.93	14.08	NA	NA
S-7	7/13/2004	150	<0.50	<0.50	<0.50	<1.0	NA	17	21.01	7.88	13.13	NA	NA
S-7	1/20/2005	200 a	<0.50	<0.50	<0.50	<1.0	NA	NA	21.01	5.68	15.33	NA	NA
S-7	7/19/2005	140 a	<0.50	<0.50	<0.50	<1.0	NA	NA	21.01	6.18	14.83	NA	NA
S-7	1/27/2006	69.8	<0.500	<0.500	<0.500	<0.500	NA	NA	21.01	6.11	14.90	NA	NA
S-7	7/25/2006	78.6	<1.00	<1.00	<1.00	<3.00	NA	NA	21.01	7.01	14.00	NA	NA
S-7	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.01	6.70	14.31	NA	NA
S-7	7/24/2007	63 g,h	<0.50	<1.0	<1.0	<1.0	NA	NA	21.01	7.54	13.47	NA	NA
S-7	1/15/2008	160 g,h	<0.50	<1.0	<1.0	<1.0	NA	NA	21.01	6.08	14.93	NA	NA
S-7	8/4/2008	72	<0.50	<1.0	<1.0	<1.0	NA	NA	21.01	7.78	13.23	NA	NA
S-8	11/16/1988	210	5.0	<1	1.0	5.0	NA	NA	20.72	7.76	12.96	NA	NA
S-8	2/27/1989	<50	2.4	<1	<1	<3	NA	NA	20.72	NA	NA	NA	NA
S-8	5/4/1989	<50	7.5	<1	2.0	<3	NA	NA	20.72	NA	NA	NA	NA
S-8	8/10/1989	<50	0.6	<1	<1	<3	NA	NA	20.72	7.79	12.93	NA	NA
S-8	10/10/1989	<50	<0.5	<1	<1	<3	NA	NA	20.72	7.84	12.88	NA	NA
S-8	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.72	7.47	13.25	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-8	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.72	7.59	13.13	NA	NA
S-8	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	7.49	13.23	NA	NA
S-8	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	8.44	12.28	NA	NA
S-8	1/28/1991	<50	55	0.5	<0.5	1.4	NA	NA	20.72	8.28	12.44	NA	NA
S-8	4/25/1991	130a	19	<0.5	1.3	1.1	NA	NA	20.72	6.72	14.00	NA	NA
S-8	7/9/1991	200	33	<0.5	1.8	2.8	NA	NA	20.72	7.98	12.74	NA	NA
S-8	10/8/1991	580	95	2.2	4.9	6.5	NA	NA	20.72	8.55	12.17	NA	NA
S-8	2/5/1992	90a	18	<0.5	6.2	1.8	NA	NA	20.72	7.50	13.22	NA	NA
S-8	4/28/1992	<50	5.9	<0.5	2.5	<0.5	NA	NA	20.72	7.14	13.58	NA	NA
S-8	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	8.06	12.66	NA	NA
S-8	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	8.58	12.14	NA	NA
S-8	1/14/1993	270	74	0.9	25	5.5	NA	NA	20.72	5.32	15.40	NA	NA
S-8	4/16/1993	1100	420	<0.5	200	20	NA	NA	20.72	5.76	14.96	NA	NA
S-8	7/23/1993	160	23	<0.5	1.2	1.5	NA	NA	20.72	7.29	13.43	NA	NA
S-8	10/27/1993	420	650	0.7	11	1.7	NA	NA	20.72	7.93	12.79	NA	NA
S-8	1/27/1994	290	65	<1	6.9	2.4	NA	NA	20.72	6.31	14.41	NA	NA
S-8	5/5/1994	120	13	<0.5	<0.5	<0.5	NA	NA	20.32	6.84	13.48	NA	NA
S-8	7/26/1994	115	12.2	1.3	<0.3	2.7	NA	NA	20.32	7.42	12.90	NA	NA
S-8	10/28/1994	733	75.9	3.2	4.9	4.2	NA	NA	20.32	7.56	12.76	NA	NA
S-8	1/2/1995	290	54	<0.5	10	<0.5	NA	NA	20.32	6.19	14.13	NA	NA
S-8	4/14/1995	230	68	<0.5	10	2.4	NA	NA	20.32	5.54	14.78	NA	NA
S-8	7/28/1995	290	44	<0.5	8.0	<0.5	NA	NA	20.32	6.28	14.04	NA	NA
S-8	10/17/1995	190	24	<0.5	1.0	0.9	NA	NA	20.32	6.64	13.68	NA	NA
S-8	1/11/1996	400	85	1.1	13	3.4	2.3	NA	20.32	5.96	14.36	NA	NA
S-8	4/2/1996	300	110	0.7	4.9	0.9	<2	NA	20.32	5.21	15.11	NA	NA
S-8	7/9/1996	<50	5.4	<0.50	0.63	<0.50	<2.5	NA	20.32	6.05	14.27	NA	NA
S-8	10/10/1996	150	0.53	0.66	2.3	1.0	8.9	NA	20.32	6.83	13.49	NA	NA
S-8	1/9/1997	240	27	<0.50	2.4	<0.50	5.8	NA	20.32	4.51	15.81	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-8	4/8/1997	220	27	0.62	1.9	0.71	5.7	NA	20.32	6.50	13.82	NA	NA
S-8	7/21/1997	1200	140	2.8	21	5.0	27	NA	20.32	6.36	13.96	NA	NA
S-8 (D)	7/21/1997	1200	120	<2.0	19	3.9	25	NA	20.32	NA	NA	NA	NA
S-8	10/8/1997	690	92	1.4	25	2.0	<2.5	NA	20.32	6.83	13.49	NA	NA
S-8 (D)	10/8/1997	700	95	1.3	26	1.9	<2.5	NA	20.32	NA	NA	NA	NA
S-8	1/15/1998	460	110	1.0	3.4	1.7	<5.0	NA	20.32	4.30	16.02	NA	NA
S-8	4/14/1998	780	190	2.9	15	3.4	<2.5	NA	20.32	4.68	15.64	NA	NA
S-8	7/14/1998	1600	240	<5.0	36	<5.0	<25	NA	20.36	6.36	14.00	NA	NA
S-8	10/20/1998	700	55	<5.0	<5.0	<5.0	49	NA	20.36	6.91	13.45	NA	NA
S-8	1/22/1999	<50.0	5.83	<0.500	0.919	<0.500	<2.00	NA	20.36	5.97	14.39	NA	NA
S-8	4/8/1999	684	10.6	1.3	9.75	1.0	10.5	NA	20.36	5.01	15.35	NA	NA
S-8	7/23/1999	1540	86.5	5.20	5.30	6.35	<25.0	NA	20.36	6.61	13.75	NA	NA
S-8	10/26/1999	1680	116	<2.50	22.4	5.58	<12.5	NA	20.36	6.95	13.41	NA	NA
S-8	1/3/2000	Well inaccessible		NA	NA	NA	NA	NA	20.36	NA	NA	NA	NA
S-8	4/14/2000	Well inaccessible		NA	NA	NA	NA	NA	20.36	NA	NA	NA	NA
S-8	7/12/2000	Well inaccessible		NA	NA	NA	NA	NA	20.36	NA	NA	NA	NA
S-8	11/1/2000	2300	118	12.4	51.7	<2.50	<12.5	NA	20.36	5.68	14.68	NA	NA
S-8	1/3/2001	263	4.34	0.620	<0.500	0.643	5.40	NA	20.36	6.95	13.41	NA	NA
S-8	4/24/2001	680	12	<0.50	0.86	<0.50	NA	<0.50	20.36	6.25	14.11	NA	NA
S-8	7/2/2001	330	2.5	<0.50	0.86	<0.50	NA	<5.0	20.36	7.00	13.36	NA	NA
S-8	11/2/2001	1300	71	0.84	14	1.7	NA	<5.0	20.36	7.44	12.92	NA	NA
S-8	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.36	5.67	14.69	NA	NA
S-8	4/1/2002	330	2.2	<0.50	<0.50	<0.50	NA	<5.0	20.36	5.99	14.37	NA	NA
S-8	7/11/2002	1400	55	0.83	5.3	0.71	NA	<5.0	20.36	6.94	13.42	NA	NA
S-8	10/28/2002	660	6.2	0.63	0.76	<0.50	NA	<0.50	20.36	7.50	12.86	NA	1.1
S-8	1/23/2003	1600	30	0.56	6.7	<0.50	NA	<5.0	20.36	5.99	14.37	NA	NA
S-8	4/30/2003	890	13	<0.50	0.59	<1.0	NA	<5.0	20.36	5.30	15.06	NA	NA
S-8	7/1/2003	1800	68	1.3	2.6	1.2	NA	<0.50	20.36	6.87	13.49	NA	1.0

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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S-8	10/8/2003	220	1.3	<0.50	<0.50	<1.0	NA	<0.50	20.36	7.27	13.09	NA	NA
S-8	1/22/2004	1000	6.7	<0.50	0.61	<1.0	NA	NA	20.36	6.50	13.86	NA	NA
S-8	7/13/2004	2000	100	1.7	5.7	<2.0	NA	<1.0	20.36	7.41	12.95	NA	NA
S-8	1/20/2005	380	4.3	<0.50	<0.50	<1.0	NA	NA	20.36	5.02	15.34	NA	NA
S-8	7/19/2005	120	1.2	<0.50	<0.50	<1.0	NA	NA	20.36	5.82	14.54	NA	NA
S-8	1/27/2006	494	2.42	<0.500	<0.500	<0.500	NA	NA	20.36	5.51	14.85	NA	NA
S-8	7/25/2006	382	2.05	<1.00	<1.00	<3.00	NA	NA	20.36	6.66	13.70	NA	NA
S-8	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.36	6.13	14.23	NA	NA
S-8	7/24/2007	210 g,h	1.2	<1.0	<1.0	<1.0	NA	NA	20.36	6.92	13.44	NA	NA
S-8	1/15/2008	560 g,h	5.3	<1.0	0.31 i	<1.0	NA	NA	20.36	5.32	15.04	NA	NA
S-8	8/4/2008	200	<0.50	<1.0	<1.0	<1.0	NA	NA	20.36	6.98	13.38	NA	NA

S-9	11/16/1988	1400	69	3.0	52	180	NA	NA	20.96	7.78	13.18	NA	NA
S-9	2/27/1989	1600	240	4.0	130	180	NA	NA	20.96	NA	NA	NA	NA
S-9	5/4/1989	2600	470	10	240	480	NA	NA	20.96	NA	NA	NA	NA
S-9	8/10/1989	520	73	<10	40	<30	NA	NA	20.96	7.82	13.14	NA	NA
S-9	10/10/1989	380	82	<1	46	13	NA	NA	20.96	7.87	13.09	NA	NA
S-9	1/25/1990	750	140	1.2	69	75	NA	NA	20.96	7.41	13.55	NA	NA
S-9	4/18/1990	680	150	1.7	50	37	NA	NA	20.96	7.65	13.31	NA	NA
S-9	7/23/1990	490	94	1.2	32	24	NA	NA	20.96	7.58	13.38	NA	NA
S-9	10/18/1990	390	140	0.7	3.3	24	NA	NA	20.96	8.46	12.50	NA	NA
S-9	1/28/1991	1040	450	4.6	85	97	NA	NA	20.96	8.29	12.67	NA	NA
S-9	4/25/1991	5800	880	9.0	360	500	NA	NA	20.96	6.09	14.87	NA	NA
S-9	7/9/1991	1400	220	2.8	82	100	NA	NA	20.96	7.82	13.14	NA	NA
S-9	10/8/1991	890	960	<2.5	16	29	NA	NA	20.96	8.55	12.41	NA	NA
S-9	2/5/1992	950	240	<2.5	28	55	NA	NA	20.96	6.96	14.00	NA	NA
S-9	4/28/1992	1400a	290	3.0	100	81	NA	NA	20.96	6.76	14.20	NA	NA
S-9	7/27/1992	890	190	<2.5	66	68	NA	NA	20.96	8.10	12.86	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-9	10/26/1992	650	160	<2.5	63	89	NA	NA	20.96	8.53	12.43	NA	NA
S-9	1/13/1993	19000	2400	38	1700	2200	NA	NA	20.96	6.80	14.16	NA	NA
S-9	4/16/1993	10000	1500	<5	1100	990	NA	NA	20.96	6.28	14.68	NA	NA
S-9	7/23/1993	1100	400	<5	260	160	NA	NA	20.96	7.26	13.70	NA	NA
S-9	10/27/1993	2500	400	<5	190	110	NA	NA	20.96	8.00	12.96	NA	NA
S-9	1/27/1994	4800	990	16	630	490	NA	NA	20.96	5.96	15.00	NA	NA
S-9	5/5/1994	3700	480	<5	21	120	NA	NA	20.68	6.99	13.69	NA	NA
S-9	7/26/1994	1000	124.6	<0.3	35.8	28.6	NA	NA	20.68	7.56	13.12	NA	NA
S-9	10/28/1994	979	80.3	7.0	21.7	29.2	NA	NA	20.68	7.78	12.90	NA	NA
S-9	1/2/1995	3900	540	2.4	350	150	NA	NA	20.68	6.29	14.39	NA	NA
S-9	4/14/1995	5100	1000	<10	380	230	NA	NA	20.68	5.69	14.99	NA	NA
S-9	7/28/1995	4600	680	<10	120	47	NA	NA	20.68	6.61	14.07	NA	NA
S-9	10/17/1995	1600	150	<0.5	42	15	NA	NA	20.68	7.00	13.68	NA	NA
S-9	1/11/1996	6800	1100	12	720	95	24	NA	20.68	6.20	14.48	NA	NA
S-9	4/2/1996	6000	1300	8.3	430	99	49	NA	20.68	5.19	15.49	NA	NA
S-9 (D)	4/2/1996	6500	1200	8.3	410	90	<20	NA	20.68	NA	NA	NA	NA
S-9	7/9/1996	3400	680	6.7	54	31	<25	NA	20.68	6.43	14.25	NA	NA
S-9 (D)	7/9/1996	3300	730	<5.0	58	28	<25	NA	20.68	NA	NA	NA	NA
S-9	10/10/1996	6600	1200	<10	160	<10	70	NA	20.68	7.08	13.60	NA	NA
S-9 (D)	10/10/1996	6100	1000	<10	200	15	65	NA	20.68	NA	NA	NA	NA
S-9	1/9/1997	12000	1400	<25	1000	39	<125	NA	20.68	5.03	15.65	NA	NA
S-9	4/8/1997	6600	920	10	230	26	150	NA	20.68	6.78	13.90	NA	NA
S-9	7/21/1997	7800	860	13	260	14	87	NA	20.68	6.77	13.91	NA	NA
S-9	10/8/1997	4600	320	<10	61	<10	28	NA	20.68	6.92	13.76	NA	NA
S-9	1/15/1998	9300	1000	<10	730	24	<50	NA	20.68	4.50	16.18	NA	NA
S-9	4/14/1998	12000	1200	<2.5	960	<2.5	<12	NA	20.68	4.35	16.33	NA	NA
S-9 (D)	4/14/1998	12000	1200	<2.5	930	<2.5	<12	NA	20.68	NA	NA	NA	NA
S-9	7/14/1998	12000	1700	<25	990	39	<125	NA	20.68	5.95	14.73	NA	NA

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HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-9 (D)	7/14/1998	11000	1800	<25	650	<25	<125	NA	20.68	NA	NA	NA	NA
S-9	10/20/1998	14000	1600	<25	560	<25	340	NA	20.68	7.03	13.65	NA	NA
S-9 (D)	10/20/1998	11000	1100	<10	230	<10	100	NA	20.68	NA	NA	NA	NA
S-9	1/22/1999	9900	1030	26.7	819	27.5	46.8	NA	20.68	6.01	14.67	NA	NA
S-9	4/8/1999	17900	1450	<50.0	1610	73.8	<500	NA	20.68	5.25	15.43	NA	NA
S-9	7/23/1999	12200	1020	<20.0	536	<20.0	<200	NA	20.68	6.71	13.97	NA	NA
S-9	10/26/1999	9580	1170	11.9	566	23.1	<50.0	NA	20.68	7.27	13.41	NA	NA
S-9	10/26/1999	9580	1170	11.9	566	23.1	<50.0	NA	20.68	7.27	13.41	NA	NA
S-9	1/3/2000	9660	689	<50.0	640	<50.0	<250	NA	20.68	7.47	13.21	NA	NA
S-9	4/14/2000	14000	1040	<50.0	1210	<50.0	<250	NA	20.68	5.75	14.93	NA	NA
S-9	7/12/2000	13200	1360	33.9	552	26.8	<100	NA	20.68	6.63	14.05	NA	NA
S-9	11/1/2000	9120	928	13.5	468	<10.0	<50.0	NA	20.68	5.50	15.18	NA	NA
S-9	1/3/2001	355	19.8	0.732	2.23	0.630	5.09	NA	20.68	7.11	13.57	NA	NA
S-9	4/24/2001	3500	300	1.7	150	1.7	NA	<1.0	20.68	6.30	14.38	NA	NA
S-9	7/2/2001	88	3.8	<0.50	<0.50	<0.50	NA	<5.0	20.68	8.18	12.50	NA	2.6
S-9	11/2/2001	210	9.5	<0.50	<0.50	<0.50	NA	<5.0	20.68	8.40	12.28	NA	16.4
S-9	1/16/2002	15000	520	4.9	580	7.1	NA	<20	20.68	5.71	14.97	NA	0.5
S-9	4/1/2002	15000	530	5.1	920	7.8	NA	<25	20.68	5.99	14.69	NA	3.0
S-9	7/11/2002	10000	520	5.3	97	5.8	NA	<25	20.68	6.99	13.69	NA	0.5
S-9	10/28/2002	11000	580	6.2	65	5.3	NA	<2.5	20.70	7.63	13.07	NA	1.0
S-9	1/23/2003	9300	400	5.6	320	6.5	NA	<5.0	20.70	5.96	14.74	NA	0.5
S-9	4/30/2003	180	4.2	<0.50	3.7	<1.0	NA	<5.0	20.70	5.20	15.50	NA	7.0
S-9	7/1/2003	2200	71	0.94	6.4	<1.0	NA	<0.50	20.70	7.78	12.92	NA	0.9
S-9	10/8/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.70	7.38	13.32	NA	16.2
S-9	1/22/2004	1400	26	<1.0	14	12	NA	NA	20.70	6.51	14.19	NA	0.7
S-9	7/13/2004	1900	36	<1.0	2.0	<2.0	NA	<1.0	20.70	8.51	12.19	NA	17.1
S-9	1/20/2005	3600	60	1.2	50	<2.0	NA	NA	20.70	5.80	14.90	NA	0.4
S-9	7/19/2005	2800	42	1.4	18	<2.0	NA	NA	20.70	7.50	13.20	NA	NA

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HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-9	1/27/2006	16800	152	4.74	165	6.77	NA	NA	20.70	6.40	14.30	NA	NA
S-9	7/25/2006	22500	79.3	2.32	27.2	<3.00	NA	NA	20.70	6.92	13.78	NA	NA
S-9	1/4/2007	5800	82	3.2	110	<5.0	NA	NA	20.70	6.40	14.30	NA	NA
S-9	7/24/2007	8900 g,h	91	3.4 i	22	<10	NA	NA	20.70	7.19	13.51	NA	NA
S-9	1/15/2008	11,000 g,h	68	3.5 i	68	4.5 i	NA	NA	20.70	5.20	15.50	NA	NA
S-9	8/4/2008	8,200	50	2.6	12	3.6	NA	NA	20.70	7.38	13.32	NA	NA
S-10	11/16/1988	330	0.5	<1	1.0	11	NA	NA	20.86	7.91	12.95	NA	NA
S-10	2/27/1989	140	<0.5	<3	2.0	6.0	NA	NA	20.86	NA	NA	NA	NA
S-10	5/3/1989	220	<0.5	1.0	2.0	7.0	NA	NA	20.86	NA	NA	NA	NA
S-10	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	20.86	7.94	12.92	NA	NA
S-10	10/9/1989	170	<0.5	<1	<1	<3	NA	NA	20.86	7.99	12.87	NA	NA
S-10	1/25/1990	<50	<0.5	<0.5	1.1	4.0	NA	NA	20.86	7.56	13.30	NA	NA
S-10	4/18/1990	<50	<0.5	0.9	<0.5	2.0	NA	NA	20.86	7.71	13.15	NA	NA
S-10	7/23/1990	590	<0.5	<0.5	1.9	19	NA	NA	20.86	7.64	13.22	NA	NA
S-10	10/18/1990	140	<0.5	0.7	<0.5	7.0	NA	NA	20.86	8.58	12.28	NA	NA
S-10	1/28/1991	<50	<0.5	<0.5	<0.5	0.5	NA	NA	20.86	8.35	12.51	NA	NA
S-10	4/25/1991	<50	<0.5	<0.5	1.1	0.8	NA	NA	20.69	6.91	13.78	NA	NA
S-10	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.14	12.55	NA	NA
S-10	10/8/1991	140	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.70	11.99	NA	NA
S-10	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	7.57	13.12	NA	NA
S-10	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	7.20	13.49	NA	NA
S-10	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.17	12.52	NA	NA
S-10	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.68	12.01	NA	NA
S-10	1/13/1993	88	<0.5	0.6	0.6	<0.5	NA	NA	20.69	3.78	16.91	NA	NA
S-10	4/16/1993	80	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	6.46	14.23	NA	NA
S-10	7/23/1993	<50	1.5	<0.5	0.7	2.7	NA	NA	20.69	7.38	13.31	NA	NA
S-10	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.09	12.60	NA	NA

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Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-10	1/27/1994	270	1.1	1.3	2.0	7.4	NA	NA	20.69	5.81	14.88	NA	NA
S-10	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.82	13.33	NA	NA
S-10	7/26/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	20.15	7.40	12.75	NA	NA
S-10	10/28/1994	<50	2.4	<0.3	0.5	0.8	NA	NA	20.15	7.62	12.53	NA	NA
S-10	1/2/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.13	14.02	NA	NA
S-10	4/14/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	5.60	14.55	NA	NA
S-10	7/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.44	13.71	NA	NA
S-10	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.85	13.30	NA	NA
S-10	1/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.15	6.08	14.07	NA	NA
S-10	4/2/1996	NA	NA	NA	NA	NA	NA	NA	20.15	5.21	14.94	NA	NA
S-10	7/9/1996	NA	NA	NA	NA	NA	NA	NA	20.15	6.20	13.95	NA	NA
S-10	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.15	6.92	13.23	NA	NA
S-10	1/9/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.15	4.64	15.51	NA	NA
S-10	4/8/1997	NA	NA	NA	NA	NA	NA	NA	20.15	5.82	14.33	NA	NA
S-10	7/21/1997	NA	NA	NA	NA	NA	NA	NA	20.15	6.48	13.67	NA	NA
S-10	10/8/1997	NA	NA	NA	NA	NA	NA	NA	20.15	5.48	14.67	NA	NA
S-10	1/15/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.15	3.01	17.14	NA	NA
S-10	4/14/1998	NA	NA	NA	NA	NA	NA	NA	20.15	4.30	15.85	NA	NA
S-10	7/14/1998	NA	NA	NA	NA	NA	NA	NA	20.15	5.84	14.31	NA	NA
S-10	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.15	6.89	13.26	NA	NA
S-10	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	20.15	6.00	14.15	NA	NA
S-10	4/8/1999	NA	NA	NA	NA	NA	NA	NA	20.15	4.41	15.74	NA	NA
S-10	7/23/1999	NA	NA	NA	NA	NA	NA	NA	20.15	6.48	13.67	NA	NA
S-10	10/26/1999	NA	NA	NA	NA	NA	NA	NA	20.15	7.07	13.08	NA	NA
S-10	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.15	7.27	12.88	NA	NA
S-10	4/14/2000	NA	NA	NA	NA	NA	NA	NA	20.15	5.75	14.40	NA	NA
S-10	7/12/2000	NA	NA	NA	NA	NA	NA	NA	20.15	6.17	13.98	NA	NA
S-10	11/1/2000	NA	NA	NA	NA	NA	NA	NA	20.15	5.63	14.52	NA	NA

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Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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S-10	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.15	6.89	13.26	NA	NA
S-10	4/24/2001	NA	NA	NA	NA	NA	NA	NA	20.15	6.20	13.95	NA	NA
S-10	7/2/2001	NA	NA	NA	NA	NA	NA	NA	20.15	6.80	13.35	NA	NA
S-10	11/2/2001	NA	NA	NA	NA	NA	NA	NA	20.15	7.40	12.75	NA	NA
S-10	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.15	5.66	14.49	NA	NA
S-10	4/1/2002	NA	NA	NA	NA	NA	NA	NA	20.15	5.63	14.52	NA	NA
S-10	7/11/2002	NA	NA	NA	NA	NA	NA	NA	20.15	6.72	13.43	NA	NA
S-10	10/28/2002	NA	NA	NA	NA	NA	NA	NA	20.14	7.50	12.64	NA	NA
S-10	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.14	5.97	14.17	NA	NA
S-10	4/30/2003	NA	NA	NA	NA	NA	NA	NA	20.14	5.24	14.90	NA	NA
S-10	7/1/2003	NA	NA	NA	NA	NA	NA	NA	20.14	6.82	13.32	NA	NA
S-10	10/8/2003	NA	NA	NA	NA	NA	NA	NA	20.14	7.06	13.08	NA	NA
S-10	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.14	6.50	13.64	NA	NA
S-10	7/13/2004	NA	NA	NA	NA	NA	NA	NA	20.14	7.49	12.65	NA	NA
S-10	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.14	5.09	15.05	NA	NA
S-10	7/19/2005	NA	NA	NA	NA	NA	NA	NA	20.14	6.00	14.14	NA	NA
S-10	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.14	5.61	14.53	NA	NA
S-10	7/25/2006	NA	NA	NA	NA	NA	NA	NA	20.14	6.61	13.53	NA	NA
S-10	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.14	6.29	13.85	NA	NA
S-10	7/24/2007	NA	NA	NA	NA	NA	NA	NA	20.14	6.82	13.32	NA	NA
S-10	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.14	5.33	14.81	NA	NA
S-10	8/4/2008	NA	NA	NA	NA	NA	NA	NA	20.14	6.65	13.49	NA	NA

S-11	11/16/1988	<50	<0.5	<1	<1	<3	NA	NA	21.26	8.62	12.64	NA	NA
S-11	2/27/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	NA	NA	NA	NA
S-11	5/3/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	NA	NA	NA	NA
S-11	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	8.65	12.61	NA	NA
S-11	10/9/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	8.64	12.62	NA	NA

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San Leandro, CA

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S-11	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.26	8.43	12.83	NA	NA
S-11	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.26	8.42	12.84	NA	NA
S-11	7/23/1990	<50	<0.5	0.6	<0.5	1.1	NA	NA	21.26	8.23	13.03	NA	NA
S-11	10/18/1990	<50	<0.5	<0.5	<0.5	0.5	NA	NA	21.26	9.20	12.06	NA	NA
S-11	1/28/1991	63	<0.5	3.3	0.9	7.0	NA	NA	21.26	9.13	12.13	NA	NA
S-11	4/25/1991	<50	<0.5	<0.5	0.8	<0.5	NA	NA	21.26	7.53	13.73	NA	NA
S-11	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	8.85	12.41	NA	NA
S-11	10/8/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	9.34	11.92	NA	NA
S-11	2/5/1991	NA	NA	NA	NA	NA	NA	NA	21.26	8.50	12.76	NA	NA
S-11	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	7.80	13.46	NA	NA
S-11	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	8.80	12.46	NA	NA
S-11	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	9.42	11.84	NA	NA
S-11	1/13/1993	NA	NA	NA	NA	NA	NA	NA	21.26	6.52	14.74	NA	NA
S-11	4/16/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	6.86	14.40	NA	NA
S-11	7/23/1993	NA	NA	NA	NA	NA	NA	NA	21.26	8.07	13.19	NA	NA
S-11	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	21.26	NA	NA	NA	NA
S-11	1/27/1994	NA	NA	NA	NA	NA	NA	NA	21.26	NA	NA	NA	NA
S-11	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.24	7.73	13.51	NA	NA
S-11	7/26/1994	NA	NA	NA	NA	NA	NA	NA	21.24	8.30	12.94	NA	NA
S-11	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.24	8.30	12.94	NA	NA
S-11	1/2/1995	NA	NA	NA	NA	NA	NA	NA	21.24	7.25	13.99	NA	NA
S-11	4/14/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.24	6.99	14.25	NA	NA
S-11	7/28/1995	NA	NA	NA	NA	NA	NA	NA	21.24	7.21	14.03	NA	NA
S-11	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.24	7.41	13.83	NA	NA
S-11	1/11/1996	NA	NA	NA	NA	NA	NA	NA	21.24	6.80	14.44	NA	NA
S-11	7/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	21.24	7.28	13.96	NA	NA
S-11	03/18/2002 d	NA	NA	NA	NA	NA	NA	NA	21.27	NA	NA	NA	NA
S-11	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	0.57	21.27	7.55	13.72	NA	NA

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15275 Washington Boulevard
San Leandro, CA

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S-12	11/16/1988	50	3.5	<1	<1	<3	NA	NA	21.05	NA	NA	NA	NA
S-12	2/27/1989	<50	0.8	<1	<1	<3	NA	NA	21.05	NA	NA	NA	NA
S-12	5/3/1989	<50	<0.5	<1	<1	<3	NA	NA	21.05	NA	NA	NA	NA
S-12	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.05	8.32	12.73	NA	NA
S-12	10/9/1989	<50	<0.5	<1	<1	<1	NA	NA	21.05	8.32	12.73	NA	NA
S-12	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.05	8.18	12.87	NA	NA
S-12	4/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.05	13.00	NA	NA
S-12	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	7.92	13.13	NA	NA
S-12	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.90	12.15	NA	NA
S-12	1/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.54	12.51	NA	NA
S-12	4/25/1991	90	5.4	<0.5	1.1	0.7	NA	NA	21.05	7.08	13.97	NA	NA
S-12	7/9/1991	<50	2.9	<0.5	<0.5	<0.5	NA	NA	21.05	8.42	12.63	NA	NA
S-12	10/8/1991	50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.80	12.25	NA	NA
S-12	2/5/1992	50a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.07	12.98	NA	NA
S-12	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.33	12.72	NA	NA
S-12	7/27/1992	94	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.55	12.50	NA	NA
S-12	10/26/1992	86	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	9.03	12.02	NA	NA
S-12	1/14/1993	120	2.0	<0.5	<0.5	<0.5	NA	NA	21.05	6.38	14.67	NA	NA
S-12	4/16/1993	60	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	6.56	14.49	NA	NA
S-12	7/23/1993	90	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	7.76	13.29	NA	NA
S-12	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	21.05	NA	NA	NA	NA
S-12	1/27/1994	Well inaccessible		NA	NA	NA	NA	NA	21.05	NA	NA	NA	NA
S-12	5/5/1994	<50	2.0	<0.5	<0.5	<0.5	NA	NA	20.71	7.49	13.22	NA	NA
S-12	7/26/1994	128	<0.3	<0.3	<0.3	<0.6	NA	NA	20.71	7.92	12.79	NA	NA
S-12	10/28/1994	167	<0.3	<0.3	<0.3	<0.6	NA	NA	20.71	7.78	12.93	NA	NA
S-12	1/2/1995	50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	7.33	13.38	NA	NA
S-12	4/14/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	6.47	14.24	NA	NA

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15275 Washington Boulevard
San Leandro, CA

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S-12	7/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	6.90	13.81	NA	NA
S-12	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	7.16	13.55	NA	NA
S-12	1/11/1996	<50	<0.5	<0.5	<0.5	<0.5	82	NA	20.71	6.65	14.06	NA	NA
S-12	7/21/1997	<50	<0.50	<0.50	<0.50	<0.50	45	NA	20.71	6.95	13.76	NA	NA
S-12	03/18/2002 d	NA	NA	NA	NA	NA	NA	NA	20.73	NA	NA	NA	NA
S-12	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	0.58	20.73	7.30	13.43	NA	NA
S-13	5/3/1989	150	4.9	4.0	2.0	14	NA	NA	20.57	NA	NA	NA	NA
S-13	8/10/1989	110	2.9	<1	<1	<3	NA	NA	20.57	8.00	12.57	NA	NA
S-13	10/9/1989	77	1.4	<1	<1	<3	NA	NA	20.57	7.95	12.62	NA	NA
S-13	1/25/1990	51	0.5	<0.5	<0.5	<1	NA	NA	20.57	7.79	12.78	NA	NA
S-13	4/18/1990	85	8.7	<0.5	<0.5	<1	NA	NA	20.57	7.73	12.84	NA	NA
S-13	7/23/1990	80	0.8	<0.5	<0.5	<0.5	NA	NA	20.57	7.63	12.94	NA	NA
S-13	10/18/1990	130	<0.5	<0.5	<0.5	<5	NA	NA	20.57	8.58	11.99	NA	NA
S-13	1/28/1991	<50	<0.5	0.9	1.2	1.0	NA	NA	20.57	8.39	12.18	NA	NA
S-13	4/25/1991	440a	3.8	<0.5	<0.5	0.6	NA	NA	20.57	7.00	13.57	NA	NA
S-13	7/9/1991	320a	0.6	<0.5	<0.5	<0.5	NA	NA	20.57	8.12	12.45	NA	NA
S-13	10/8/1991	310	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	8.69	11.88	NA	NA
S-13	2/5/1992	NA	NA	NA	NA	NA	NA	NA	20.57	7.62	12.95	NA	NA
S-13	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	7.15	13.42	NA	NA
S-13	7/27/1992	NA	NA	NA	NA	NA	NA	NA	20.57	8.20	12.37	NA	NA
S-13	10/26/1992	180	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	8.73	11.84	NA	NA
S-13	1/13/1993	NA	NA	NA	NA	NA	NA	NA	20.57	5.06	15.51	NA	NA
S-13	4/16/1993	240	4.8	<0.5	1.3	<0.5	NA	NA	20.57	6.38	14.19	NA	NA
S-13	7/23/1993	NA	NA	NA	NA	NA	NA	NA	20.57	7.45	13.12	NA	NA
S-13	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
S-13	1/27/1994	NA	NA	NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
S-13	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.16	6.91	13.25	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-13	7/26/1994	NA	NA	NA	NA	NA	NA	NA	20.16	7.52	12.64	NA	NA
S-13	10/28/1994	368	<0.3	<0.3	<0.3	<0.6	NA	NA	20.16	7.68	12.48	NA	NA
S-13	1/2/1995	NA	NA	NA	NA	NA	NA	NA	20.16	6.37	13.79	NA	NA
S-13	4/14/1995	NA	NA	NA	NA	NA	NA	NA	20.16	5.81	14.35	NA	NA
S-13	7/28/1995	NA	NA	NA	NA	NA	NA	NA	20.16	6.73	13.43	NA	NA
S-13	10/17/1995	<50	1.0	<0.5	<0.5	<0.5	NA	NA	20.16	6.94	13.22	NA	NA
S-13	1/11/1996	NA	NA	NA	NA	NA	NA	NA	20.16	6.20	13.96	NA	NA
S-13	4/2/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.16	5.28	14.88	NA	NA
S-13	7/9/1996	NA	NA	NA	NA	NA	NA	NA	20.16	6.35	13.81	NA	NA
S-13	10/10/1996	<50	<0.50	<0.50	<0.50	<0.50	210	160	20.16	7.04	13.12	NA	NA
S-13	1/9/1997	NA	NA	NA	NA	NA	NA	NA	20.16	5.19	14.97	NA	NA
S-13	4/8/1997	<50	<0.50	<0.50	<0.50	<0.50	81	NA	20.16	6.62	13.54	NA	NA
S-13	7/21/1997	NA	NA	NA	NA	NA	NA	NA	20.16	6.76	13.40	NA	NA
S-13	10/8/1997	<50	<0.50	<0.50	<0.50	<0.50	110	NA	20.16	7.05	13.11	NA	NA
S-13	1/15/1998	NA	NA	NA	NA	NA	NA	NA	20.16	5.27	14.89	NA	NA
S-13	4/14/1998	<50	<0.50	<0.50	<0.50	<0.50	3.2	NA	20.16	5.24	14.92	NA	NA
S-13	7/14/1998	NA	NA	NA	NA	NA	NA	NA	20.16	5.48	14.68	NA	NA
S-13	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.16	7.08	13.08	NA	NA
S-13	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	92.2	NA	20.16	6.65	13.51	NA	NA
S-13	4/8/1999	NA	NA	NA	NA	NA	NA	NA	20.16	5.61	14.55	NA	NA
S-13	7/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.16	6.78	13.38	NA	NA
S-13	10/26/1999	NA	NA	NA	NA	NA	NA	NA	20.16	7.33	12.83	NA	NA
S-13	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.16	7.51	12.65	NA	NA
S-13	4/14/2000	NA	NA	NA	NA	NA	NA	NA	20.16	6.08	14.08	NA	NA
S-13	7/12/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.16	6.50	13.66	NA	NA
S-13	11/1/2000	NA	NA	NA	NA	NA	NA	NA	20.16	6.10	14.06	NA	NA
S-13	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	21.2	23.9	20.16	7.09	13.07	NA	NA
S-13	4/24/2001	Well inaccessible		NA	NA	NA	NA	NA	20.16	NA	NA	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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S-13	7/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.16	7.13	13.03	NA	NA
S-13	11/2/2001	NA	NA	NA	NA	NA	NA	NA	20.16	7.38	12.78	NA	NA
S-13	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	5.9	20.16	6.02	14.14	NA	NA
S-13	4/1/2002	NA	NA	NA	NA	NA	NA	NA	20.16	6.26	13.90	NA	NA
S-13	7/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.16	7.00	13.16	NA	NA
S-13	10/28/2002	NA	NA	NA	NA	NA	NA	NA	20.19	7.70	12.49	NA	NA
S-13	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	110	20.19	6.41	13.78	NA	NA
S-13	4/30/2003	NA	NA	NA	NA	NA	NA	NA	20.19	6.12	14.07	NA	NA
S-13	7/1/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.19	7.65	12.54	NA	1.4
S-13	10/8/2003	NA	NA	NA	NA	NA	NA	NA	20.19	7.32	12.87	NA	NA
S-13	1/22/2004	<250	<2.5	<2.5	<2.5	<5.0	NA	NA	20.19	6.60	13.59	NA	NA
S-13	7/13/2004	NA	NA	NA	NA	NA	NA	NA	20.19	6.60	13.59	NA	e
S-13	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.19	6.56	13.63	NA	NA
S-13	7/19/2005	NA	NA	NA	NA	NA	NA	NA	20.19	6.15	14.04	NA	NA
S-13	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.19	6.42	13.77	NA	NA
S-13	7/25/2006	NA	NA	NA	NA	NA	NA	NA	20.19	7.51	12.68	NA	NA
S-13	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.19	6.85	13.34	NA	NA
S-13	7/24/2007	NA	NA	NA	NA	NA	NA	NA	20.19	7.39	12.80	NA	NA
S-13	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.19	6.00	14.19	NA	NA
S-13	8/4/2008	NA	NA	NA	NA	NA	NA	NA	20.19	7.46	12.73	NA	NA

S-14	5/3/1989	5300	750	400	200	800	NA	NA	20.44	NA	NA	NA	NA
S-14	8/10/1989	1800	540	140	42	50	NA	NA	20.44	7.58	12.86	NA	NA
S-14	10/9/1989	1000	360	60	20	30	NA	NA	20.44	7.62	12.82	NA	NA
S-14	1/25/1990	640	160	77	17	39	NA	NA	20.44	7.82	12.62	NA	NA
S-14	4/18/1990	1200	200	110	30	96	NA	NA	20.44	7.37	13.07	NA	NA
S-14	7/23/1990	5000	430	340	140	660	NA	NA	20.44	7.28	13.16	NA	NA
S-14	10/18/1990	1800	770	13	17	120	NA	NA	20.44	8.10	12.34	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-14	1/28/1991	720	200	36	21	78	NA	NA	20.44	8.04	12.40	NA	NA
S-14	4/25/1991	14000	930	430	250	970	NA	NA	20.44	6.40	14.04	NA	NA
S-14	7/9/1991	160	30	5.3	5	16	NA	NA	20.44	7.69	12.75	NA	NA
S-14	10/8/1991	5400	81	57	95	380	NA	NA	20.44	8.24	12.20	NA	NA
S-14	2/2/1992	NA	NA	NA	NA	NA	NA	NA	20.44	7.20	13.24	NA	NA
S-14	4/28/1992	2000	270	140	48	170	NA	NA	20.44	9.75	10.69	NA	NA
S-14	10/26/1992	920	33	12	25	88	NA	NA	20.44	8.32	12.12	NA	NA
S-14	1/13/1993	NA	NA	NA	NA	NA	NA	NA	20.44	5.07	15.37	NA	NA
S-14	4/16/1993	4500	1100	29	91	170	NA	NA	20.44	5.86	14.58	NA	NA
S-14	7/23/1993	NA	NA	NA	NA	NA	NA	NA	20.44	7.06	13.38	NA	NA
S-14	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	20.44	NA	NA	NA	NA
S-14	1/27/1994	NA	NA	NA	NA	NA	NA	NA	20.44	NA	NA	NA	NA
S-14	5/5/1994	810	250	<2.5	9.4	19	NA	NA	19.99	6.48	13.51	NA	NA
S-14	7/26/1994	NA	NA	NA	NA	NA	NA	NA	19.99	7.04	12.95	NA	NA
S-14	10/28/1994	5385	290.6	85.8	49.7	186.2	NA	NA	19.99	7.07	12.92	NA	NA
S-14	1/2/1995	NA	NA	NA	NA	NA	NA	NA	19.99	5.95	14.04	NA	NA
S-14	4/14/1995	1600	40	4.7	11	20	NA	NA	19.99	5.22	14.77	NA	NA
S-14	7/28/1995	NA	NA	NA	NA	NA	NA	NA	19.99	6.21	13.78	NA	NA
S-14	10/17/1995	1200	37	<0.5	7.8	11	NA	NA	19.99	6.30	13.69	NA	NA
S-14	1/11/1996	NA	NA	NA	NA	NA	NA	NA	19.99	5.70	14.29	NA	NA
S-14	7/21/1997	220	71	0.71	1.3	1.3	100	NA	19.99	6.14	13.85	NA	NA
S-14	03/18/2002 d	NA	NA	NA	NA	NA	NA	NA	20.01	NA	NA	NA	NA
S-14	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	55	20.01	6.20	13.81	NA	NA
S-15	5/3/1989	<50	<0.5	<1	<1	<3	NA	NA	22.22	NA	NA	NA	NA
S-15	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	22.22	8.48	13.74	NA	NA
S-15	10/9/1989	<50	<0.5	<1	<1	<3	NA	NA	22.22	8.46	13.76	NA	NA
S-15	1/25/1990	<50	<0.5	<1	<1	<1	NA	NA	22.22	8.34	13.88	NA	NA

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HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-15	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	22.22	8.45	13.77	NA	NA
S-15	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.22	14.00	NA	NA
S-15	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	9.11	13.11	NA	NA
S-15	1/28/1991	<50	<0.5	0.6	<0.5	0.8	NA	NA	22.22	9.13	13.09	NA	NA
S-15	4/25/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	7.83	14.39	NA	NA
S-15	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.93	13.29	NA	NA
S-15	10/8/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	9.26	12.96	NA	NA
S-15	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.60	13.62	NA	NA
S-15	4/28/1992	50	0.8	0.9	<0.5	1.4	NA	NA	22.22	8.09	14.13	NA	NA
S-15	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.83	13.39	NA	NA
S-15	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	9.31	12.91	NA	NA
S-15	1/14/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	6.64	15.58	NA	NA
S-15	4/16/1993	<50	0.6	1.0	<0.5	0.7	NA	NA	22.22	7.14	15.08	NA	NA
S-15	7/23/1993	<50	1.2	<0.5	<0.5	1.6	NA	NA	22.22	8.23	13.99	NA	NA
S-15	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	22.22	NA	NA	NA	NA
S-15	1/27/1994	Well inaccessible		NA	NA	NA	NA	NA	22.22	NA	NA	NA	NA
S-15	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	7.57	13.85	NA	NA
S-15	7/26/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.42	8.16	13.26	NA	NA
S-15	10/28/1994	<50	0.3	<0.3	<0.3	<0.6	NA	NA	21.42	7.87	13.55	NA	NA
S-15	1/2/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	7.02	14.40	NA	NA
S-15	4/14/1995	NA	NA	NA	NA	NA	NA	NA	21.42	6.19	15.23	NA	NA
S-15	7/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	6.72	14.70	NA	NA
S-15	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	7.04	14.38	NA	NA
S-15	1/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	21.42	6.40	15.02	NA	NA
S-15	03/18/2002 d	NA	NA	NA	NA	NA	NA	NA	21.47	NA	NA	NA	NA
S-15	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	21.47	7.07	14.40	NA	NA
S-16	8/10/1989	<50	0.6	<1	<1	<3	NA	NA	21.82	8.36	13.46	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-16	10/10/1989	<5	<0.5	<1	<1	<3	NA	NA	21.82	8.23	13.59	NA	NA
S-16	1/25/1990	240	160	3.3	0.8	11	NA	NA	21.82	7.88	13.94	NA	NA
S-16	4/18/1990	<50	1.0	<0.5	<0.5	<1	NA	NA	21.82	8.19	13.63	NA	NA
S-16	7/23/1990	<50	1.1	<0.5	<0.5	<0.5	NA	NA	21.82	8.09	13.73	NA	NA
S-16	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.82	8.90	12.92	NA	NA
S-16	1/28/1991	<50	<0.5	0.6	<0.5	0.9	NA	NA	21.82	8.55	13.27	NA	NA
S-16	4/25/1991	60	21	0.5	3.2	4.8	NA	NA	21.82	7.48	14.34	NA	NA
S-16	7/9/1991	<50	1.0	<0.5	<0.5	<0.5	NA	NA	21.82	8.48	13.34	NA	NA
S-16	10/8/1991	50	17	1.4	1.2	5.5	NA	NA	21.82	8.95	12.87	NA	NA
S-16	2/5/1992	150	65	0.7	<0.5	8.4	NA	NA	21.82	8.20	13.62	NA	NA
S-16	4/28/1992	<50	13	<0.5	<0.5	<0.5	NA	NA	21.82	7.80	14.02	NA	NA
S-16	7/27/1992	510	130	<2.5	<0.5	21	NA	NA	21.82	8.29	13.53	NA	NA
S-16	10/26/1992	<50	<0.5	<0.5	<2.5	<0.5	NA	NA	21.82	9.02	12.80	NA	NA
S-16	1/13/1993	100	25	1.9	<0.5	8.4	NA	NA	21.82	5.78	16.04	NA	NA
S-16	4/16/1993	150	56	1.8	4.6	12	NA	NA	21.82	6.80	15.02	NA	NA
S-16	7/23/1993	<50	0.9	<0.5	<0.5	<0.5	NA	NA	21.82	7.67	14.15	NA	NA
S-16	10/27/1993	<50	1.5	<0.5	<0.5	<0.5	NA	NA	21.82	8.52	13.30	NA	NA
S-16	1/27/1994	140	85	<1	<1	13	NA	NA	21.82	7.20	14.62	NA	NA
S-16	5/5/1994	71	25	<0.5	<0.5	4.2	NA	NA	21.24	7.76	13.48	NA	NA
S-16	7/26/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.24	7.84	13.40	NA	NA
S-16	10/28/1994	<50	11.5	<0.3	<0.3	1.8	NA	NA	21.24	7.97	13.27	NA	NA
S-16	1/2/1995	70	64	<0.5	<0.5	4.0	NA	NA	21.24	6.49	14.75	NA	NA
S-16	4/14/1995	NA	NA	NA	NA	NA	NA	NA	21.24	6.08	15.16	NA	NA
S-16	7/28/1995	<50	1.7	<0.5	<0.5	<0.5	NA	NA	21.24	7.00	14.24	NA	NA
S-16	10/17/1995	<50	4.6	<0.5	<0.5	<0.5	NA	NA	21.24	7.15	14.09	NA	NA
S-16	1/11/1996	80	17	0.7	<0.5	2.9	<2	NA	21.24	6.30	14.94	NA	NA
S-16	4/2/1996	NA	NA	NA	NA	NA	NA	NA	21.24	5.84	15.40	NA	NA
S-16	7/9/1996	NA	NA	NA	NA	NA	NA	NA	21.24	6.72	14.52	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-16	10/10/1996	NA	NA	NA	NA	NA	NA	NA	21.24	7.41	13.83	NA	NA
S-16	1/9/1997	80	18	<0.50	1.7	4.8	<2.5	NA	21.24	5.60	15.64	NA	NA
S-16	4/8/1997	NA	NA	NA	NA	NA	NA	NA	21.24	7.34	13.90	NA	NA
S-16	7/21/1997	NA	NA	NA	NA	NA	NA	NA	21.24	7.20	14.04	NA	NA
S-16	10/8/1997	NA	NA	NA	NA	NA	NA	NA	21.24	7.34	13.90	NA	NA
S-16	1/15/1998	650	160	2.7	8.7	62	<12	NA	21.24	4.79	16.45	NA	NA
S-16	4/14/1998	NA	NA	NA	NA	NA	NA	NA	21.24	5.27	15.97	NA	NA
S-16	7/14/1998	NA	NA	NA	NA	NA	NA	NA	21.24	6.32	14.92	NA	NA
S-16	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.24	6.94	14.30	NA	NA
S-16	1/22/1999	Well inaccessible		NA	NA	NA	NA	NA	21.24	NA	NA	NA	NA
S-16	4/8/1999	NA	NA	NA	NA	NA	NA	NA	21.24	5.80	15.44	NA	NA
S-16	7/23/1999	NA	NA	NA	NA	NA	NA	NA	21.24	6.62	14.62	NA	NA
S-16	10/26/1999	NA	NA	NA	NA	NA	NA	NA	21.24	7.42	13.82	NA	NA
S-16	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	21.24	7.34	13.90	NA	NA
S-16	4/14/2000	NA	NA	NA	NA	NA	NA	NA	21.24	6.27	14.97	NA	NA
S-16	7/12/2000	NA	NA	NA	NA	NA	NA	NA	21.24	7.02	14.22	NA	NA
S-16	11/1/2000	NA	NA	NA	NA	NA	NA	NA	21.24	6.79	14.45	NA	NA
S-16	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	3.05	NA	21.24	7.18	14.06	NA	NA
S-16	4/24/2001	NA	NA	NA	NA	NA	NA	NA	21.24	6.85	14.39	NA	NA
S-16	7/2/2001	NA	NA	NA	NA	NA	NA	NA	21.24	7.51	13.73	NA	NA
S-16	11/2/2001	NA	NA	NA	NA	NA	NA	NA	21.24	7.68	13.56	NA	NA
S-16	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.24	6.40	14.84	NA	NA
S-16	4/1/2002	NA	NA	NA	NA	NA	NA	NA	21.24	6.33	14.91	NA	NA
S-16	7/11/2002	NA	NA	NA	NA	NA	NA	NA	21.24	7.39	13.85	NA	NA
S-16	10/28/2002	NA	NA	NA	NA	NA	NA	NA	21.30	8.00	13.30	NA	NA
S-16	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.30	6.36	14.94	NA	NA
S-16	4/30/2003	NA	NA	NA	NA	NA	NA	NA	21.30	6.03	15.27	NA	NA
S-16	7/1/2003	NA	NA	NA	NA	NA	NA	NA	21.30	7.28	14.02	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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S-16	10/8/2003	NA	NA	NA	NA	NA	NA	NA	21.30	7.77	13.53	NA	NA
S-16	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.30	6.80	14.50	NA	NA
S-16	7/13/2004	NA	NA	NA	NA	NA	NA	NA	21.30	7.94	13.36	NA	NA
S-16	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.30	5.62	15.68	NA	NA
S-16	7/19/2005	NA	NA	NA	NA	NA	NA	NA	21.30	6.53	14.77	NA	NA
S-16	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	21.30	6.05	15.25	NA	NA
S-16	7/25/2006	NA	NA	NA	NA	NA	NA	NA	21.30	7.19	14.11	NA	NA
S-16	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.30	6.89	14.41	NA	NA
S-16	7/24/2007	NA	NA	NA	NA	NA	NA	NA	21.30	7.60	13.70	NA	NA
S-16	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	21.30	5.82	15.48	NA	NA
S-16	8/4/2008	NA	NA	NA	NA	NA	NA	NA	21.30	7.55	13.75	NA	NA

S-17	5/3/1989	<50	<0.5	<1	<1	<3	NA	NA	20.95	NA	NA	NA	NA
S-17	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	20.95	8.13	12.82	NA	NA
S-17	10/9/1989	<50	<0.5	<1	<1	<3	NA	NA	20.95	8.18	12.77	NA	NA
S-17	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.95	7.60	13.35	NA	NA
S-17	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.95	7.95	13.00	NA	NA
S-17	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	7.87	13.08	NA	NA
S-17	10/18/1990	390	10	62	22	110	NA	NA	20.95	8.71	12.24	NA	NA
S-17	1/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.54	12.41	NA	NA
S-17	4/25/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	7.15	13.80	NA	NA
S-17	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.24	12.71	NA	NA
S-17	10/8/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.86	12.09	NA	NA
S-17	2/5/1992	NA	NA	NA	NA	NA	NA	NA	20.95	7.74	13.21	NA	NA
S-17	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	7.41	13.54	NA	NA
S-17	7/27/1992	NA	NA	NA	NA	NA	NA	NA	20.95	8.34	12.61	NA	NA
S-17	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.87	12.08	NA	NA
S-17	1/13/1993	NA	NA	NA	NA	NA	NA	NA	20.95	3.43	17.52	NA	NA

TABLE 1
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Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-17	4/16/1993	130	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	6.70	14.25	NA	NA
S-17	7/23/1993	NA	NA	NA	NA	NA	NA	NA	20.95	7.53	13.42	NA	NA
S-17	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.29	12.66	NA	NA
S-17	1/27/1994	NA	NA	NA	NA	NA	NA	NA	20.95	5.78	15.17	NA	NA
S-17	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.45	6.99	13.46	NA	NA
S-17	7/26/1994	NA	NA	NA	NA	NA	NA	NA	20.45	7.62	12.83	NA	NA
S-17	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	20.45	7.91	12.54	NA	NA
S-17	1/2/1995	NA	NA	NA	NA	NA	NA	NA	20.45	6.33	14.12	NA	NA
S-17	4/14/1995	NA	NA	NA	NA	NA	NA	NA	20.45	5.53	14.92	NA	NA
S-17	7/28/1995	NA	NA	NA	NA	NA	NA	NA	20.45	6.75	13.70	NA	NA
S-17	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.45	7.15	13.30	NA	NA
S-17	1/11/1996	NA	NA	NA	NA	NA	NA	NA	20.45	6.37	14.08	NA	NA
S-17	4/2/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.45	5.31	15.14	NA	NA
S-17	7/9/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.30	14.15	NA	NA
S-17	10/10/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	7.80	12.65	NA	NA
S-17	1/9/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	4.80	15.65	NA	NA
S-17	4/8/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.83	13.62	NA	NA
S-17 (D)	4/8/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	NA	NA	NA	NA
S-17	7/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.78	13.67	NA	NA
S-17	10/8/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.80	13.65	NA	NA
S-17	1/15/1998	380	<0.50	<0.50	<0.50	0.94	<2.5	NA	20.45	2.91	17.54	NA	NA
S-17	4/14/1998	160	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	4.47	15.98	NA	NA
S-17	7/14/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.45	14.00	NA	NA
S-17	10/20/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	7.11	13.34	NA	NA
S-17	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	20.45	6.01	14.44	NA	NA
S-17	4/8/1999	145	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.45	4.69	15.76	NA	NA
S-17	7/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.45	6.60	13.85	NA	NA
S-17	10/26/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	6.68	13.77	NA	NA

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Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-17	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	7.20	13.25	NA	NA
S-17	4/14/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	5.88	14.57	NA	NA
S-17	7/12/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	6.45	14.00	NA	NA
S-17	11/1/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	5.45	15.00	NA	NA
S-17	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	7.22	13.23	NA	NA
S-17	4/24/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	20.45	6.10	14.35	NA	NA
S-17	7/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.45	6.95	13.50	NA	NA
S-17	11/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.45	7.50	12.95	NA	NA
S-17	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.45	5.76	14.69	NA	NA
S-17	4/1/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.45	6.02	14.43	NA	NA
S-17	7/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.45	6.97	13.48	NA	NA
S-17	10/28/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	20.44	7.60	12.84	NA	0.9
S-17	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.44	5.77	14.67	NA	NA
S-17	4/30/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	20.44	5.35	15.09	NA	NA
S-17	7/1/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.44	6.95	13.49	NA	1.1
S-17	10/8/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.44	7.01	13.43	NA	NA
S-17	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.44	6.57	13.87	NA	NA
S-17	7/13/2004	NA	NA	NA	NA	NA	NA	NA	20.36 f	7.71	12.65	NA	NA
S-17	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.36 f	5.09	15.27	NA	NA
S-17	7/19/2005	NA	NA	NA	NA	NA	NA	NA	20.36	6.30	14.06	NA	NA
S-17	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.36	5.50	14.86	NA	NA
S-17	7/25/2006	NA	NA	NA	NA	NA	NA	NA	20.36	6.84	13.52	NA	NA
S-17	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.36	6.15	14.21	NA	NA
S-17	7/24/2007	NA	NA	NA	NA	NA	NA	NA	20.36	6.92	13.44	NA	NA
S-17	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.36	5.05	15.31	NA	NA
S-17	8/4/2008	NA	NA	NA	NA	NA	NA	NA	20.36	6.96	13.40	NA	NA
S-18	5/31/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	NA	NA	NA	NA

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HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-18	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.23	12.80	NA	NA
S-18	10/8/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.84	12.19	NA	NA
S-18	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	7.67	13.36	NA	NA
S-18	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	7.40	13.63	NA	NA
S-18	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.38	12.65	NA	NA
S-18	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.83	12.20	NA	NA
S-18	1/13/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	5.86	15.17	NA	NA
S-18	4/16/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	4.88	16.15	NA	NA
S-18	7/23/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	7.56	13.47	NA	NA
S-18	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.30	12.73	NA	NA
S-18	1/27/1994	<50	1.9	<0.5	<0.5	<0.5	NA	NA	21.03	6.84	14.19	NA	NA
S-18	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	7.05	13.52	NA	NA
S-18	7/26/1994	<500	<3	1.1	<0.3	1.8	NA	NA	20.57	7.62	12.95	NA	NA
S-18	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	20.57	8.01	12.56	NA	NA
S-18	1/2/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	6.26	14.31	NA	NA
S-18	4/14/1995	NA	NA	NA	NA	NA	NA	NA	20.57	4.85	15.72	NA	NA
S-18	7/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	5.80	14.77	NA	NA
S-18	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	7.22	13.35	NA	NA
S-18	1/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.57	6.40	14.17	NA	NA
S-18	4/2/1996	NA	NA	NA	NA	NA	NA	NA	20.57	4.80	15.77	NA	NA
S-18	7/9/1996	NA	NA	NA	NA	NA	NA	NA	20.57	5.74	14.83	NA	NA
S-18	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.57	6.06	14.51	NA	NA
S-18	1/9/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.57	4.70	15.87	NA	NA
S-18	4/8/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.62	13.95	NA	NA
S-18	7/21/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.94	13.63	NA	NA
S-18	10/8/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.88	13.69	NA	NA
S-18	1/15/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.57	3.60	16.97	NA	NA
S-18	4/14/1998	NA	NA	NA	NA	NA	NA	NA	20.57	4.28	16.29	NA	NA

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HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-18	7/14/1998	NA	NA	NA	NA	NA	NA	NA	20.57	6.13	14.44	NA	NA
S-18	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.57	7.20	13.37	NA	NA
S-18	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	20.57	6.00	14.57	NA	NA
S-18	4/8/1999	NA	NA	NA	NA	NA	NA	NA	20.57	4.95	15.62	NA	NA
S-18	7/23/1999	NA	NA	NA	NA	NA	NA	NA	20.57	6.03	14.54	NA	NA
S-18	10/26/1999	NA	NA	NA	NA	NA	NA	NA	20.57	7.39	13.18	NA	NA
S-18	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.57	7.54	13.03	NA	NA
S-18	4/14/2000	NA	NA	NA	NA	NA	NA	NA	20.57	4.41	16.16	NA	NA
S-18	7/12/2000	NA	NA	NA	NA	NA	NA	NA	20.57	5.31	15.26	NA	NA
S-18	11/1/2000	NA	NA	NA	NA	NA	NA	NA	20.57	6.42	14.15	NA	NA
S-18	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	3.67	NA	20.57	7.30	13.27	NA	NA
S-18	4/24/2001	NA	NA	NA	NA	NA	NA	NA	20.57	6.83	13.74	NA	NA
S-18	7/2/2001	NA	NA	NA	NA	NA	NA	NA	20.57	7.23	13.34	NA	NA
S-18	11/2/2001	Unable to locate		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
S-18	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.57	6.15	14.42	NA	NA
S-18	4/1/2002	NA	NA	NA	NA	NA	NA	NA	20.57	6.06	14.51	NA	NA
S-18	7/11/2002	NA	NA	NA	NA	NA	NA	NA	20.57	6.98	13.59	NA	NA
S-18	10/28/2002	NA	NA	NA	NA	NA	NA	NA	20.63	7.66	12.97	NA	NA
S-18	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.63	6.18	14.45	NA	NA
S-18	4/30/2003	NA	NA	NA	NA	NA	NA	NA	20.63	5.32	15.31	NA	NA
S-18	7/1/2003	NA	NA	NA	NA	NA	NA	NA	20.63	7.20	13.43	NA	NA
S-18	10/8/2003	NA	NA	NA	NA	NA	NA	NA	20.63	7.48	13.15	NA	NA
S-18	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.63	6.74	13.89	NA	NA
S-18	7/13/2004	NA	NA	NA	NA	NA	NA	NA	20.63	7.87	12.76	NA	NA
S-18	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.63	5.33	15.30	NA	NA
S-18	7/19/2005	NA	NA	NA	NA	NA	NA	NA	20.63	6.55	14.08	NA	NA
S-18	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.63	5.89	14.74	NA	NA
S-18	7/25/2006	NA	NA	NA	NA	NA	NA	NA	20.63	7.10	13.53	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-18	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.63	6.60	14.03	NA	NA
S-18	7/24/2007	NA	NA	NA	NA	NA	NA	NA	20.63	7.13	13.50	NA	NA
S-18	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.63	5.25	15.38	NA	NA
S-18	8/4/2008	NA	NA	NA	NA	NA	NA	NA	20.63	7.85	12.78	NA	NA

S-19	10/20/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.11	6.41	13.70	NA	NA
S-19	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	90.6	NA	20.11	5.42	14.69	NA	NA
S-19	4/8/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.11	4.61	15.50	NA	NA
S-19	7/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.11	5.86	14.25	NA	NA
S-19	10/26/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.11	6.28	13.83	NA	NA
S-19	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.11	6.62	13.49	NA	NA
S-19	4/14/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.11	4.31	15.80	NA	NA
S-19	7/12/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.11	5.46	14.65	NA	NA
S-19	11/1/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.11	5.05	15.06	NA	NA
S-19	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	9.61	NA	20.11	6.00	14.11	NA	NA
S-19	4/24/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	20.11	5.58	14.53	NA	NA
S-19	7/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.11	6.34	13.77	NA	3.4
S-19	11/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.11	6.57	13.54	NA	3.4
S-19	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.11	5.05	15.06	NA	0.5
S-19	4/1/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.11	5.13	14.98	NA	3.3
S-19	7/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.11	5.50	14.61	NA	0.5
S-19	10/28/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	20.10	6.35	13.75	NA	0.6
S-19	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.10	5.15	14.95	NA	0.3
S-19	4/30/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	20.10	4.90	15.20	NA	0.5
S-19	7/1/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.10	5.50	14.60	NA	1.7
S-19	10/8/2003	58	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.10	6.63	13.47	NA	0.4
S-19	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.10	5.67	14.43	NA	0.6
S-19	7/13/2004	NA	NA	NA	NA	NA	NA	NA	20.10	6.82	13.28	NA	1.0

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-19	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.10	4.75	15.35	NA	0.6
S-19	7/19/2005	NA	NA	NA	NA	NA	NA	NA	20.10	5.15	14.95	NA	NA
S-19	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.10	4.85	15.25	NA	NA
S-19	7/25/2006	NA	NA	NA	NA	NA	NA	NA	20.10	6.14	13.96	NA	NA
S-19	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.10	5.75	14.35	NA	NA
S-19	7/24/2007	NA	NA	NA	NA	NA	NA	NA	20.10	6.39	13.71	NA	NA
S-19	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.10	4.72	15.38	NA	NA
S-19	8/4/2008	NA	NA	NA	NA	NA	NA	NA	20.10	6.43	13.67	NA	NA

SR-1	3/22/1989	5400	1100	230	350	1300	NA	NA	21.45	NA	NA	NA	NA
SR-1	1/25/1990	2200	470	120	110	510	NA	NA	21.45	7.53	13.92	NA	NA
SR-1	4/18/1990	1000	130	47	47	220	NA	NA	21.45	8.17	13.28	NA	NA
SR-1	7/23/1990	3200	470	320	170	870	NA	NA	21.45	7.58	13.87	NA	NA
SR-1	10/18/1990	1300	280	6.6	110	130	NA	NA	21.45	8.81	12.64	NA	NA
SR-1	1/28/1991	110	120	12	51	110	NA	NA	21.45	8.37	13.08	NA	NA
SR-1	4/25/1991	NA	NA	NA	NA	NA	NA	NA	21.45	6.91	14.54	NA	NA
SR-1	7/9/1991	1400	200	27	130	340	NA	NA	21.45	8.11	13.34	NA	NA
SR-1	10/8/1991	980	79	1.5	44	52	NA	NA	21.45	8.63	12.82	NA	NA
SR-1	2/5/1991	3800	580	36	320	400	NA	NA	21.45	7.68	13.77	NA	NA
SR-1	4/28/1992	38000	1800	460	1900	750	NA	NA	21.45	7.27	14.18	NA	NA
SR-1	7/27/1992	NA	NA	NA	NA	NA	NA	NA	21.45	8.11	13.34	0.01	NA
SR-1	10/26/1992	1800	370	10	130	130	NA	NA	21.45	8.63	12.82	NA	NA
SR-1	1/13/1993	47000	1000	1100	1700	13000	NA	NA	21.45	5.46	15.99	NA	NA
SR-1	4/16/1993	25000	1700	430	2400	8300	NA	NA	21.45	6.28	15.17	NA	NA
SR-1	7/23/1993	33000	2400	2000	3800	14000	NA	NA	21.45	7.34	14.11	NA	NA
SR-1	10/27/1993	2300	340	<12.5	270	440	NA	NA	21.45	8.04	13.41	NA	NA
SR-1	1/27/1994	36000	2000	1700	3000	11000	NA	NA	21.45	6.68	14.77	NA	NA
SR-1	5/5/1994	43000	1500	130	2900	12000	NA	NA	20.57	6.81	13.76	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
SR-1	7/26/1994	13600	682.7	39.2	996.6	2516	NA	NA	20.57	7.38	13.19	NA	NA
SR-1	10/28/1994	8462	301.5	29.3	384.7	2019	NA	NA	20.57	7.48	13.09	NA	NA
SR-1	1/2/1995	13000	400	120	2500	10000	NA	NA	20.57	6.34	14.23	NA	NA
SR-1	4/14/1995	43000	690	370	2500	12000	NA	NA	20.57	5.29	15.28	NA	NA
SR-1	7/28/1995	35000	760	120	2300	8100	NA	NA	20.57	6.36	14.21	NA	NA
SR-1	10/17/1995	9700	310	12	610	1200	NA	NA	20.57	6.62	13.95	NA	NA
SR-1 (D)	10/17/1995	8300	230	9.6	680	840	NA	NA	20.57	NA	NA	NA	NA
SR-1	1/11/1996	18000	410	170	1200	4400	42	NA	20.57	5.66	14.91	NA	NA
SR-1 (D)	1/11/1996	17000	420	180	1100	4000	42	NA	20.57	NA	NA	NA	NA
SR-1	4/2/1996	NA	NA	NA	NA	NA	NA	NA	20.57	5.14	15.43	NA	NA
SR-1	7/9/1996	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
SR-1	10/10/1996	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
SR-1	1/9/1997	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
SR-1	4/8/1997	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
SR-1	7/21/1997	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
SR-1	10/8/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.94	13.63	NA	NA
SR-1	1/15/1998	8100	82	<25	36	2300	<125	NA	20.57	4.30	16.27	NA	NA
SR-1	4/14/1998	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
SR-1	7/14/1998	NA	NA	NA	NA	NA	NA	NA	20.28	6.48	13.80	NA	NA
SR-1	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.28	6.61	13.67	NA	NA
SR-1	1/22/1999	Well inaccessible		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	4/8/1999	NA	NA	NA	NA	NA	NA	NA	20.28	0.97	19.31	NA	NA
SR-1	7/23/1999	Well dry	NA	NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	10/26/1999	Well dry	NA	NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	4/14/2000	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	7/12/2000	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	11/1/2000	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	1/3/2001	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
SR-1	4/24/2001	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	7/2/2001	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	11/2/2001	Well dry	NA	NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	1/16/2002	Well dry	NA	NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	4/1/2002	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	7/11/2002	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	10/28/2002	Obstruction in well		NA	NA	NA	NA	NA	20.27	NA	NA	NA	NA
SR-1	1/23/2003	Obstruction in well		NA	NA	NA	NA	NA	20.27	NA	NA	NA	NA
SR-1	4/30/2003	Obstruction in well		NA	NA	NA	NA	NA	20.27	NA	NA	NA	NA
SR-1	7/1/2003	Obstruction in well		NA	NA	NA	NA	NA	20.27	NA	NA	NA	NA
SR-1	10/8/2003	Well dry	NA	NA	NA	NA	NA	NA	20.27	NA	NA	NA	NA
SV-1	04/15/1998 b	NA	NA	NA	NA	NA	NA	NA	NA	6.02	NA	NA	NA
SV-1	04/15/1998 c	NA	NA	NA	NA	NA	NA	NA	NA	7.15	NA	NA	NA
SV-1	03/18/2002 d	NA	NA	NA	NA	NA	NA	NA	21.31	NA	NA	NA	NA
SV-1	1/22/2004	3000	15	<2.5	34	11	NA	<2.5	21.31	6.67	14.64	NA	NA

Abbreviations:

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to April 24, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to April 24, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

MSL = Mean sea level

ppm = Parts per million

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

Notes:

TABLE 1
HISTORICAL WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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a = Chromatogram pattern indicated an unidentified hydrocarbon.

b = Pre-development sample

c = Post-development sample

d = Survey date only.

e = DO reading not taken.

f = TOC lowered 0.08 feet due to wellhead maintenance on June 3, 2004.

g = Analyzed by EPA Method 8015B (M).

h = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

i = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Site surveyed March 18, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

APPENDIX E
SOIL VAPOR ANALYTICAL RESULTS

Table 2. Soil Vapor Survey Data: Sorted by Depth
Former Shell Service Station WIC #204-6852-1008, 15275 Washington Avenue, San Leandro, California

WA Sample ID	Depth below ground surface	Air Toxics LTD Data (ug/m ³)						InterPhase Data (%)				Comments
		(PH (C+ as gas)	MIBE	Benzene	Toluene	Ethylbenzene	m,p,c-Xylene	Carbon Dioxide	Oxygen	Nitrogen	Methane	
SG-02-2ft	2 ft	46,000	73	250	96	250	880	9.2%	11.3%	79.5%	< 0.1%	No flow, sample collected at 2 ft
SG-03-2ft	2 ft	54,000,000	260,000	390,000	190,000	370,000	310,000	15.8%	3.8%	78.9%	1.6%	Good flow, gravel
SG-04-2ft	2 ft	220,000	310	420	150	1,700	3,200	0.7%	19.8%	79.4%	< 0.1%	Pretty good/medium flow
SG-07-2ft	2 ft	62,000,000	330,000	220,000	210,000	230,000	110,000	0.9%	19.7%	79.4%	< 0.1%	Good flow
SG-08-2ft	2 ft	15,000	22	10	38	190	220	0.1%	20.6%	79.3%	< 0.1%	Good flow
Mean	2 ft	23,256,200	118,081	122,136	80,057	120,428	84,860	5.3%	15.0%	79.3%	0.4%	
SG-01-4ft	4 ft	100,000,000	700,000	750,000	280,000	370,000	1,300,000	19.7%	3.9%	68.6%	7.8%	Good flow, tight soil
SG-03-4ft	4 ft	33,000,000	150,000	230,000	110,000	210,000	330,000	1.6%	18.1%	80.3%	< 0.1%	Somewhat restricted flow
SG-04-4ft	4 ft	350,000	550	1,000	2,300	2,600	4,400	1.4%	19.2%	79.4%	< 0.1%	
SG-05-4ft	4 ft	8,700,000	6,200	20,000	42,000	75,000	130,000	0.3%	20.3%	79.4%	< 0.1%	Very tight
SG-06-4ft	4 ft	66,000	22	8	150	380	790	0.5%	19.9%	79.6%	< 0.1%	Good flow
SG-07-4ft	4 ft	130,000,000	510,000	450,000	420,000	440,000	180,000	13.4%	9.5%	67.9%	9.3%	Good flow, high permeability
SG-08-4ft	4 ft	7,100,000	3,200	15,000	46,000	44,000	62,000	12.6%	4.8%	82.7%	< 0.1%	Good flow
SG-09-4ft	4 ft	540,000	1,600	18,000	610	17,000	15,000	0.9%	20.0%	79.1%	< 0.1%	Pretty good flow
Mean	4 ft	34,969,500	171,447	185,501	112,633	144,873	252,774	6.3%	14.5%	77.1%	2.2%	
SG-03-6ft	6 ft	5,000,000	16,000	39,000	18,000	71,000	190,000	4.7%	16.4%	78.9%	< 0.1%	Somewhat restricted flow
SG-04-6ft	6 ft	310,000	200	1,000	2,200	4,000	4,800	1.2%	19.5%	79.3%	< 0.1%	Medium flow
SG-04-6ft (dup)	6 ft	NA	NA	NA	NA	NA	NA	1.0%	19.2%	79.8%	< 0.1%	Medium flow
SG-07-6ft	6 ft	3,000,000	17,000	19,000	6,500	20,000	6,600	1.9%	18.7%	78.5%	1.0%	Low flow/very low permeability
SG-07-6ft (dup)	6 ft	3,400,000	19,000	21,000	7,300	22,000	7,500	NA	NA	NA	NA	Low flow/very low permeability
SG-08-6ft	6 ft	20,000,000	8,400	49,000	130,000	140,000	290,000	0.3%	20.0%	79.7%	< 0.1%	Low flow, a little tighter than 2 ft and 4 ft depths
SG-08-6ft (dup)	6 ft	NA	NA	NA	NA	NA	NA	0.2%	20.0%	79.8%	< 0.1%	Low flow, a little tighter than 2 ft and 4 ft depths
Mean	6 ft	6,342,000	12,120	25,800	32,800	51,400	99,780	1.6%	19.0%	79.3%	0.3%	

Notes: < - Below the method detection limit.
M - reported value may be biased due to apparent matrix interferences.

Table 3. Soil Vapor Survey Data: Sorted by Location
Former Shell Service Station WIC #204-6852-1008, 15275 Washington Avenue, San Leandro, California

WA Sample ID	Depth below ground surface	Air Toxics LTD Data (ug/m ³)						InterPhase Data (%)				Comments
		IPH (C ₁ + as gas)	MTBE	Benzene	Toluene	Ethylbenzene	m,p,o-Xylene	Carbon Dioxide	Oxygen	Nitrogen	Methane	
SG-01-4ft	4 ft	100,000,000	700,000	750,000	280,000	370,000	1,300,000	19.7%	3.9%	68.6%	7.8%	Good flow, tight soil
SG-02-2ft	2 ft	46,000	73	250	96	250	880	9.2%	11.3%	79.5%	< 0.1%	No flow, sample collected at 2 ft
SG-03-2ft	2 ft	54,000,000	260,000	390,000	190,000	370,000	370,000	15.8%	3.8%	78.9%	1.6%	Good flow, gravel
SG-03-4ft	4 ft	33,000,000	160,000	230,000	110,000	210,000	330,000	1.6%	18.1%	80.3%	< 0.1%	Somewhat restricted flow
SG-03-6ft	6 ft	5,000,000	16,000	39,000	18,000	71,000	190,000	4.7%	16.4%	78.9%	< 0.1%	Somewhat restricted flow
SG-04-2ft	2 ft	220,000	310	420	150	1,700	3,200	0.7%	19.8%	79.4%	< 0.1%	Pretty good/medium flow
SG-04-4ft	4 ft	350,000	550	1,000	2,300	2,600	4,400	1.4%	19.2%	79.4%	< 0.1%	
SG-04-6ft	6 ft	310,000	200	1,000	2,200	4,000	4,800	1.2%	19.5%	79.3%	< 0.1%	Medium flow
SG-04-6ft (dup)	6 ft	NA	NA	NA	NA	NA	NA	1.0%	19.2%	79.8%	< 0.1%	Medium flow
SG-05-4ft	4 ft	8,700,000	6,200	20,000	42,000	75,000	130,000	0.3%	20.3%	79.4%	< 0.1%	Very tight
SG-06-4ft	4 ft	66,000	22	8	150	380	790	0.5%	19.9%	79.6%	< 0.1%	Good flow
SG-07-2ft	2 ft	62,000,000	330,000	220,000	210,000	230,000	110,000	0.9%	19.7%	79.4%	< 0.1%	Good flow
SG-07-4ft	4 ft	130,000,000	510,000	450,000	420,000	440,000	180,000	13.4%	9.5%	67.9%	9.3%	Good flow, high permeability
SG-07-6ft	6 ft	3,000,000	17,000	19,000	6,500	20,000	6,500	1.9%	18.7%	78.5%	1.0%	Low flow/very low permeability
SG-07-6ft (dup)	6 ft	3,400,000	19,000	21,000	7,300	22,000	7,500	NA	NA	NA	NA	Low flow/very low permeability
SG-08-2ft	2 ft	15,000	22	10	38	190	220	0.1%	20.6%	79.3%	< 0.1%	Good flow
SG-08-4ft	4 ft	7,100,000	3,200	15,000	46,000	44,000	62,000	12.6%	4.8%	82.7%	< 0.1%	Good flow
SG-08-6ft	6 ft	20,000,000	8,400	49,000	190,000	140,000	290,000	0.3%	20.0%	79.7%	< 0.1%	Low flow, a little tighter than 2 ft and 4 ft dept
SG-08-6ft (dup)	6 ft	NA	NA	NA	NA	NA	NA	0.2%	20.0%	79.8%	< 0.1%	Low flow, a little tighter than 2 ft and 4 ft dept
SG-09-4ft	4 ft	540,000	1,600	18,000	610	17,000	15,000	0.9%	20.0%	79.1%	< 0.1%	Pretty good flow

Notes: < - Below the method detection limit.

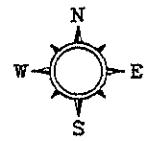
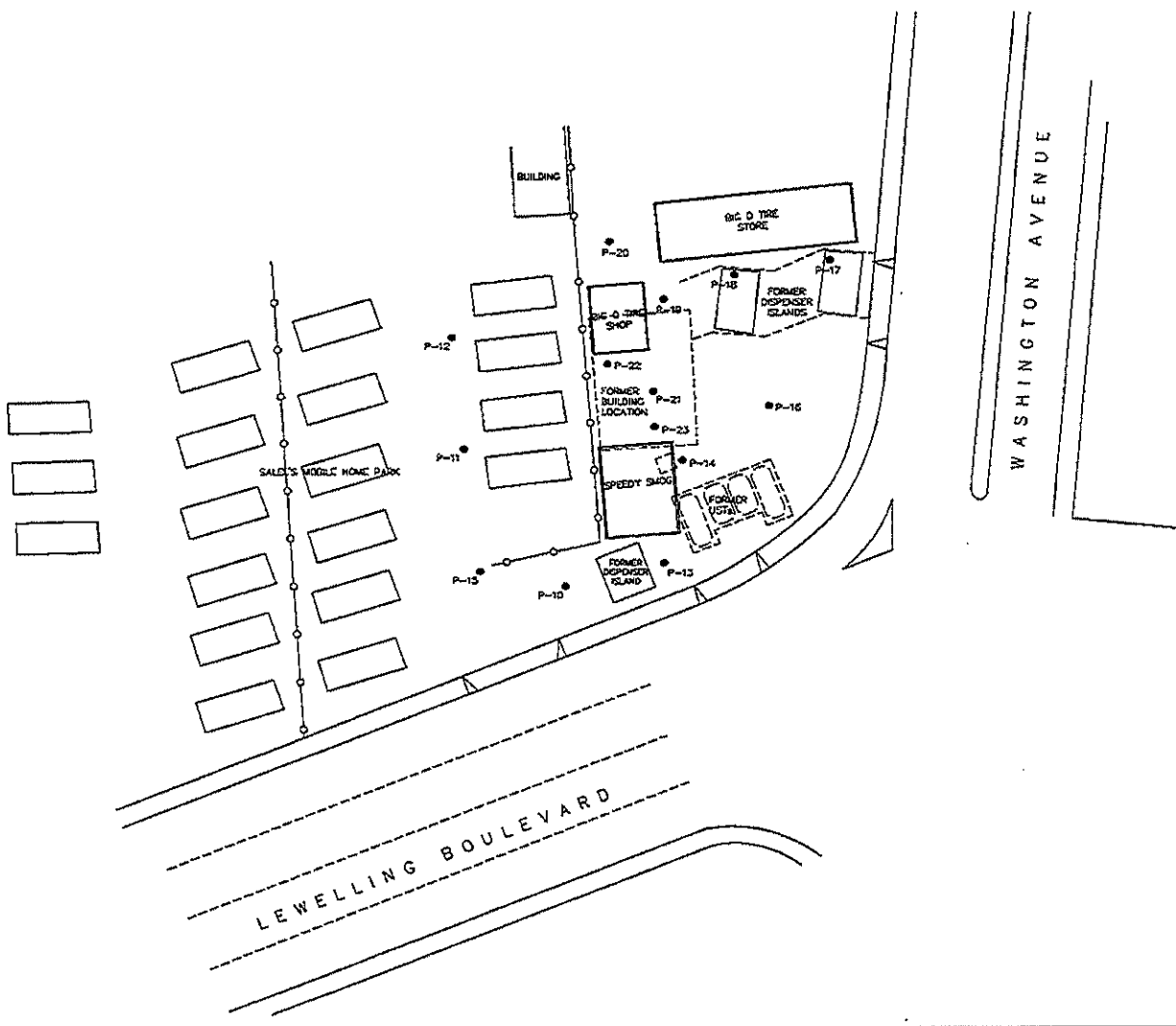
M - reported value may be biased due to apparent matrix interferences.

DRAWN BY
J.S.

CHECKED BY
G.P.W.

APPROVED BY

PROJECT NUMBER
SCA15275-1



LEGEND
P-23 ● SOIL VAPOR SAMPLE LOCATION

0 25 50
SCALE IN FEET

DELTA CONSULTANTS
SHELL OIL PRODUCTS U.S.
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 2
SITE LAYOUT WITH
SOIL VAPOR SAMPLE LOCATIONS
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

TABLE 1
SOIL VAPOR SAMPLING ANALYTICAL DATA
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	Depth (feet)	TPH-G (ug/m3)	B (ug/m3)	T (ug/m3)	E (ug/m3)	X (ug/m3)	MTBE (ug/m3)	TBA (ug/m3)	2-Propanol
P-10	6/11/2008	5.5 ft	100,000	<2.7	14	3.9	11.8	<3.0	43	<8.2
P-11	6/11/2008	5.5 ft	8,000,000	1,100	240	<180	<180	<150	<520	<420
P-12	6/11/2008	5.5 ft	7,800,000	810	<630	<730	<730	<600	<5,100	<1,600
P-13	6/10/2008	5.5 ft	5,300	<2.5	5.6	<3.4	3.6	<2.8	<24	<7.8
P-14	6/10/2008	5.5 ft	2,100,000	1400	<130	4,700	280	<120	<1,000	<340
P-15	6/11/2008	5.5 ft	160,000	<54	<63	<73	<73	<60	<150	<160
P-16	6/10/2008	5.5 ft	130,000	<13	<15	26	<17	<14	<120	<120
P-17	6/10/2008	5.5 ft	450	<2.5	5.4	<3.4	3.6	<2.8	<23	<7.6
P-17D	6/10/2008	5.5 ft	1,100	<2.5	4.0	<3.4	<3.4	<2.8	<24	<7.8
P-18	6/10/2008	5.5 ft	13,000	3.2	6.0	<3.6	4.0	<3.0	36	<8.2
P-19	6/10/2008	5.5 ft	9,000,000	600	270	<180	<180	<150	<510	<410
P-20	6/10/2008	5.5 ft	26,000	<2.5	240	<3.4	<3.4	<2.8	55	27
P-20LD	6/10/2008	5.5 ft	26,000	<2.5	230	<3.4	<3.4	<2.8	52	29
P-21	6/10/2008	5.5 ft	8,200,000	6,400	280	27,000	3,500	<100	<340	<280
P-22	6/10/2008	5.5 ft	8,200,000	1,400	<320	14,000	<360	<300	<1,000	<820
P-23	6/10/2008	5.5 ft	6,500,000	12,000	190	46,000	25,120	<56	<190	<150
P-23LD	6/10/2008	5.5 ft	6,500,000	11,000	180	44,000	23,110	<56	<190	<150

Abbreviations:

TPH-g = Total petroleum hydrocarbons as gasoline by EPA Method T0-14/T0-15

BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA Method T0-14A/T0-15

MTBE = Methyl tert-butyl ether

TBA = Tert-butyl-alcohol

2-Propanol= Isopropyl alcohol

ug/m3 = Microgram per cubic meter

<n = Not detected, below method detection limit

D = Duplicate sample

LD = Lab duplicate

TABLE 5

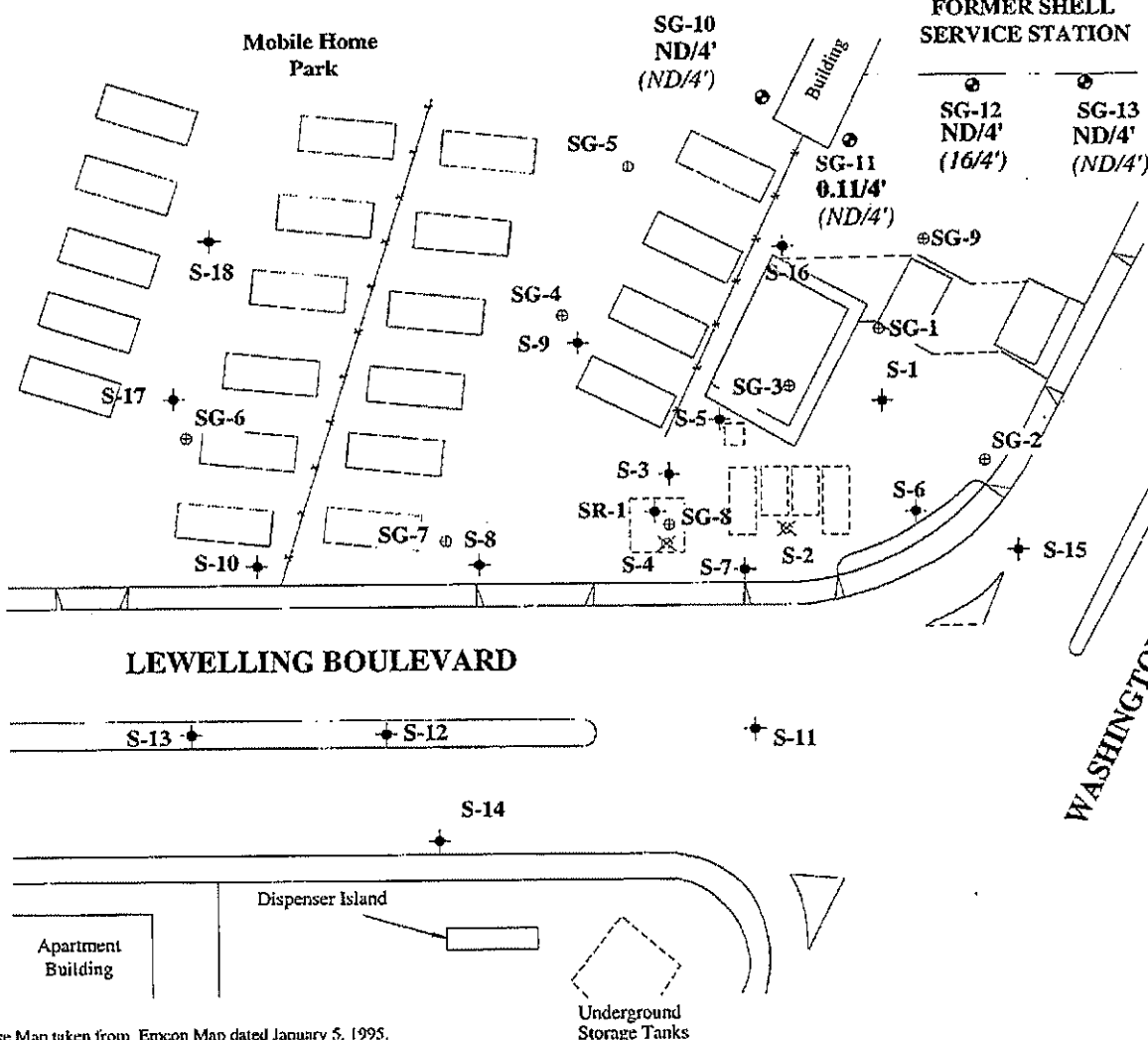
SOIL GAS SURVEY ANALYTICAL DATA
 Shell Oil Products Company
 15275 Washington Avenue
 San Leandro, CA
 WIC# 204-6852-1008

Sample Depth (ft)	Date Sampled	TPPH ($\mu\text{g}/\text{m}^3$)	B ($\mu\text{g}/\text{m}^3$)	T ($\mu\text{g}/\text{m}^3$)	E ($\mu\text{g}/\text{m}^3$)	X ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	Comments
SG-10-4								
4	31-Jul-97	1700	<7.0	11	<9.5	22	11	
SG-11-4								
4	31-Jul-97	660	<6.7	<7.9	<9.0	<9.0	<7.5	
SG-12-4								
4	31-Jul-97	5000	16	<8.3	13	22	29	
SG-13-4								
4	31-Jul-97	5000	<71	<84	<97	<97	<81	

Abbreviations:

<x = Not detected at detection limit of x

NA = Not analyzed or not available



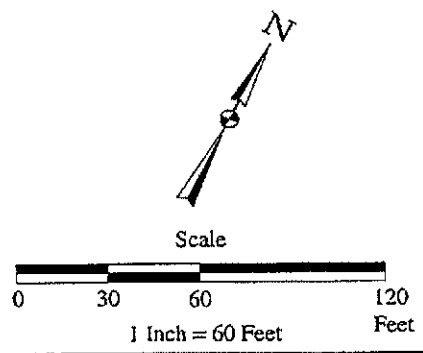
EXPLANATION

- ✦ Groundwater Monitoring Well
- ✕ Abandoned Groundwater Monitoring Well
- ⊙ Weiss Associates Soil Boring
- ⊙ Enviros Soil Boring (31-Jul-97)

0.11/4'
Benzene/Depth in feet. Concentration in soil in parts per million.

(0.11/4')
Benzene/Depth in feet. Vapor concentration in soil in ug/cubic meter

ND None Detected



Base Map taken from Exxon Map dated January 5, 1995.

PLATE **2** SITE MAP / BENZENE CONCENTRATION MAP
 Shell Oil Products Company
 15275 Washington Avenue
 San Leandro, California

enviros
 95276.01

Drawn By: DML Date: 7-22-97 Approved By: *[Signature]* Date: 8/13/97

Table 1. Soil Vapor Extraction System Performance and Summary - Former Shell Service Station, Incident #97088270, 15275 Washington Avenue, San Leandro, California

Date	Interval Days of Operation (days)	System Flow Rate (CFM)	System Vacuum ("H2O)	Operating Temp. ¹ (°F)	HYDROCARBON CONCENTRATIONS						TPHg Removal Rate (#/day)	Cumulative TPHg Removal (#)	EMISSION RATES			TPHg Destruction Efficiency	Comments
					Influent			Effluent					TPHg Rate (#/day)	Benzene Rate (#/day)	TPHg Rate (#/day)		
					OVA	TPHg	Benzene	OVA	TPHg	Benzene							
05/18/98	0.125	65	20	1,003	---	1,600	47	---	<14	<0.16	33	4	0.29	0.00	99.1%	Startup	
06/16/98	22	60	22	886	---	370	3	---	<2.8	<0.031	7	450	0.02	0.00	99.2%		
07/28/98	40	80	40	760	---	510	6	---	<2.8	<0.031	13	854	0.04	0.00	99.5%		
08/20/98	4	90	47	759	---	450	1.3	---	<2.8	<0.031	13	906	0.00	0.00	99.4%		
10/05/98	33	80	40	715	---	180	<0.78	---	<2.8	<0.031	5	1,197	0.03	0.00	98.4%		
10/28/98	7	70	49	707	---	280	<0.16	---	<2.8	<0.031	6	1,235	0.01	0.00	99.0%		
11/20/98	23	75	40	675	---	140	0.40	---	<2.8	<0.031	3	1,346	0.02	0.00	98.0%		
12/31/98	19.5	60	25	670	---	16	<0.031	---	<2.8	<0.031	0.3	1,382	0.02	0.00	82.5%		
01/28/99	7	53	21	668	---	6.2	0.16	---	<2.8	<0.031	0.1	1,383	0.01	0.00	54.8%		
02/23/99	6	50	21	665	---	22.8	0.16	---	<2.8	<0.031	0.4	1,385	0.01	0.00	87.7%		
03/23/99	6	50	22	680	---	31.5	<0.031	---	<2.8	<0.031	0.5	1,387	0.01	0.00	91.1%		
04/21/99	3	60	30	663	---	31	<0.063	---	<2.8	<0.031	0.6	1,389	0.00	0.00	91.0%		
05/28/99	2	50	18	---	---	55.0	<0.063	---	<2.8	<0.031	0.9	1,390	0.00	0.00	94.8%		
06/24/99	1	65	27	747	---	102	0.021	---	<2.8	<0.031	2.1	1,392	0.00	0.00	97.3%		
07/22/99	6	70	30	682	---	113	0.342	---	<2.40	<0.00320	2.5	1,406	0.00	0.00	97.9%		
08/31/99	1	70	32	678	---	218	<0.0314	---	<2.84	<0.0314	4.9	1,410	0.00	0.00	98.7%		
09/99	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	a	
10/07/99	1	70	35	668	---	---	---	---	---	---	4.9	1,410	0.00	0.00	98.7%	b	
11/99	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	c	
12/99	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	c	
1/00	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	c	
2/00	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	c	
3/00	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	c	
4/00	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	c	
5/00	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	c	
6/00	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	c	
7/00	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	c	
8/00	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	c	
9/00	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	c	

Table 1. Soil Vapor Extraction System Performance and Summary - Former Shell Service Station, Incident #97088270, 15275 Washington Avenue, San Leandro, California

Date	Interval Days of Operation (days)	System Flow Rate (CFM)	System Vacuum ("H2O)	Operating Temp. ¹ (°F)	HYDROCARBON CONCENTRATIONS						TPHg Removal Rate (#/day)	Cumulative TPHg Removal (#)	EMISSION RATES			Comments
					Influent			Effluent					TPHg Rate	Benzene Rate	TPHg Destruction Efficiency	
					OVA	TPHg	Benzene	OVA	TPHg	Benzene						
					← (ppmv) →											

Abbreviations and Notes:

1 = Center oxidizer temperature, inlet temperature set point is 650 degrees F.

CFM = Cubic feet per minute.

ppmv = parts per million by volume.

= pounds.

— = not analyzed or not measured.

SVE = Soil vapor extraction.

TPHg = Total Petroleum Hydrocarbons as Gasoline (C6-C12), by modified EPA Method 8015.

Benzene by EPA Method 8020.

OVA = Organic vapor analyzer.

TPHg REMOVAL/EMISSION RATE = lab concentration(ppmv) x system flow rate (cfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene) x 1440 min/day x 1/1,000,000.

TOTAL TPHg REMOVAL = Average of the current and previous removal rates multiplied by the day-interval of operation plus the previous total.

a = System shut down between 9/1/99 and October 7, 1999

b = SVE system lab samples were not picked up by lab courier; no analytical data available

c = System shutdown since October 7, 1999