



**CONESTOGA-ROVERS
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TRANSMITTAL

DATE: November 27, 2012 REFERENCE NO.: 240366
 PROJECT NAME: 999 San Pablo Avenue, Albany
 TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

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 Alameda County
 Environmental Health

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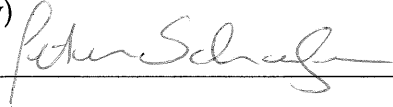
| QUANTITY | DESCRIPTION |
|----------|---|
| 1 | Site Conceptual Model and Closure Request |
| | |
| | |

As Requested For Review and Comment
 For Your Use

COMMENTS:

If you have any questions regarding the content of this document, please contact Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US, (electronic copy)
 Gregg Biggs (property owner), 3640 Valley Road, Casper, WY 82604
 Sam Anabi (lessee), CAR Enterprises, 1040 North Benson Avenue, Upland, CA 91786-2157
 Larry Turner, CAR Enterprises (electronic copy)

Completed by: Peter Schaefer Signed: 

Filing: Correspondence File



Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Denis L. Brown
Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Re: Shell-branded Service Station
999 San Pablo Avenue
Albany, California
SAP Code 135037
Incident No. 98995143
ACEH Case No. RO0000121

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is written over a horizontal line.

Denis L. Brown
Senior Program Manager



SITE CONCEPTUAL MODEL AND CLOSURE REQUEST

**SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE
ALBANY, CALIFORNIA**

**SAP CODE 135037
INCIDENT NO. 98995143
AGENCY NO. RO0000121**

**NOVEMBER 27, 2012
REF. NO. 240366 (11)**

This report is printed on recycled paper.

**Prepared by:
Conestoga-Rovers
& Associates**

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TABLE OF CONTENTS

| | <u>Page</u> |
|---|-------------|
| EXECUTIVE SUMMARY | i |
| 1.0 INTRODUCTION | 1 |
| 2.0 SITE CONCEPTUAL MODEL (SCM) | 1 |
| 3.0 LOW-THREAT CLOSURE EVALUATION | 7 |
| 3.1 GENERAL CRITERIA | 7 |
| 3.1.1 THE UNAUTHORIZED RELEASE IS LOCATED WITHIN THE SERVICE AREA OF A PUBLIC WATER SYSTEM..... | 7 |
| 3.1.2 THE UNAUTHORIZED RELEASE CONSISTS ONLY OF PETROLEUM | 7 |
| 3.1.3 THE UNAUTHORIZED ("PRIMARY") RELEASE FROM THE UST SYSTEM HAS BEEN STOPPED..... | 8 |
| 3.1.4 FREE PRODUCT HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE | 8 |
| 3.1.5 A CONCEPTUAL SITE MODEL THAT ASSESSES THE NATURE, EXTENT, AND MOBILITY OF THE RELEASE HAS BEEN DEVELOPED | 8 |
| 3.1.6 SECONDARY SOURCE HAS BEEN REMOVED TO THE EXTENT PRACTICABLE | 8 |
| 3.1.7 SOIL OR GROUNDWATER HAS BEEN TESTED FOR MTBE | 8 |
| 3.1.8 NUISANCE AS DEFINED BY WATER CODE SECTION 13050 DOES NOT EXIST AT THE SITE..... | 9 |
| 3.2 MEDIA-SPECIFIC CRITERIA..... | 9 |
| 3.2.1 GROUNDWATER..... | 9 |
| 3.2.2 VAPOR..... | 9 |
| 3.2.3 DIRECT CONTACT AND OUTDOOR AIR EXPOSURE..... | 9 |
| 4.0 CLOSURE REQUEST..... | 10 |

LIST OF FIGURES
(Following Text)

| | |
|----------|---|
| FIGURE 1 | VICINITY MAP |
| FIGURE 2 | SITE PLAN |
| FIGURE 3 | GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP |
| FIGURE 4 | S-2: TPHG AND BENZENE CONCENTRATIONS AND GROUNDWATER ELEVATIONS VERSUS TIME |
| FIGURE 5 | S-3: TPHG CONCENTRATIONS AND GROUNDWATER ELEVATIONS VERSUS TIME |
| FIGURE 6 | S-6: TPHG AND BENZENE CONCENTRATIONS AND GROUNDWATER ELEVATIONS VERSUS TIME |

LIST OF TABLES
(Following Text)

| | |
|---------|---------------------------------|
| TABLE 1 | HISTORICAL SOIL ANALYTICAL DATA |
| TABLE 2 | GROUNDWATER DATA |
| TABLE 3 | SPH REMOVAL |

LIST OF APPENDICES

| | |
|------------|--------------|
| APPENDIX A | SITE HISTORY |
| APPENDIX B | BORING LOGS |

EXECUTIVE SUMMARY

- This evaluation and other information included in this report are intended to demonstrate that this site meets the requirements of the SWRCB's *Low-Threat Underground Storage Tank Case Closure Policy*.
- Historical groundwater monitoring data adequately define TPHg, BTEX, and MTBE impacts in groundwater to below applicable RWQCB ESLs and demonstrate that the plume is not migrating.
- Vadose zone soil analytical results are all below ESLs, with the exception of five soil samples collected from the area of the dispensers. Since no vadose zone soil concentrations exceeded ESLs in other borings or soil samples, soil impacts have been adequately delineated.
- The site is likely to remain in use as a service station.
- This site meets SWRCB criteria for a low-threat fuel site. Therefore, on behalf of Shell, we respectfully request closure of this case. CRA requests that ACEH suspend the groundwater monitoring program during the closure review.

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). This evaluation and other information included in this report are intended to demonstrate that this site meets the requirements of the State Water Resources Control Board's (SWRCB's) *Low-Threat Underground Storage Tank Case Closure Policy*.

The site is an active Shell-branded service station located on the northeastern corner of San Pablo Avenue and Marin Avenue in a mixed commercial and residential area of Albany, California (Figure 1). The site layout includes a station building, three gasoline underground storage tanks (USTs), and two dispenser islands (Figure 2).

A summary of previous work is contained in Appendix A.

2.0 SITE CONCEPTUAL MODEL (SCM)

| ITEM | EVALUATION CRITERIA | COMMENTS/DISCUSSION |
|------------|--|--|
| 2.1 | Hydrocarbon Source | |
| 2.1.1 | Identify/Describe Release Source and Volume (if known) | Unknown. |
| 2.1.2 | Discuss Steps Taken to Stop Release | The USTs, dispensers and piping were replaced in October 1996, and under-dispenser containment was upgraded in December 2007. |
| 2.2 | Site Characterization | |
| 2.2.1 | Current Site Use/Status | The site is a Shell-branded service station. |
| 2.2.2 | Soil Definition Status | All detections of total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), and tertiary-butyl alcohol (TBA) in the 22 vadose zone (less than 6 feet below grade [fbg]) soil samples analyzed from the site are below the San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) ¹ for soils at sites with commercial land use, where groundwater is a not potential source of |

¹ Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]

| ITEM | EVALUATION CRITERIA | COMMENTS/DISCUSSION |
|-------|---|--|
| | | <p>drinking water, with the following exceptions:</p> <ul style="list-style-type: none"> • 1,900 milligrams per kilogram (mg/kg) TPHg in soil sample D-3 collected in November 1996; • 280 mg/kg TPHg and 1.4 mg/kg benzene in soil sample V-1 collected in November 1996; • 290 mg/kg TPHg in soil sample D-1 collected in December 2007 at 4.5 fbg; • 1,200 mg/kg TPHg in soil sample D-3c collected in December 2007 at 4.5 fbg; and • 430 mg/kg TPHg in soil sample D-3d collected in December 2007 at 4.5 fbg. <p>It should be noted that the RWQCB advises that ESLs must be used in conjunction with ESLs for related chemicals (e.g. BTEX, polynuclear aromatic hydrocarbons, oxidizers, etc.)." In this case, BTEX, MTBE, and TBA are the appropriate related chemicals. Since the detection of benzene which exceeds the ESL is in the area of the dispensers and no vadose zone soil concentrations of BTEX, MTBE, and TBA exceeded ESLs in other borings, soil impacts have been adequately delineated.</p> <p>Table 1 presents historical soil data.</p> |
| 2.2.3 | SPH Definition Status | <p>Up to 6.48 feet of separate-phase hydrocarbons (SPHs) have been observed in well S-5 (which was transferred to ARCO), and wells S-2 and S-8 have also contained SPHs. SPHs have not been measured in any site wells since August 2011.</p> |
| 2.2.4 | Groundwater Definition Status (TPHg/BTEX) | <p>For this environmental case, groundwater has been monitored at the site since the second quarter of 1991.</p> <p>During the second quarter 2012 groundwater monitoring event, TPHg, BTEX, and fuel oxygenate concentrations were below ESLs for groundwater where groundwater is a</p> |

| ITEM | EVALUATION CRITERIA | COMMENTS/DISCUSSION |
|------|---------------------|---|
| | | <p data-bbox="857 254 1453 317">potential source of drinking water with the following exceptions:</p> <ul data-bbox="906 359 1453 611" style="list-style-type: none"> <li data-bbox="906 359 1453 464">• Up to 32,000 micrograms per liter ($\mu\text{g/L}$) TPHg in wells S-2, S-3, S-6, and S-8, <li data-bbox="906 470 1453 533">• Up to 160 $\mu\text{g/L}$ benzene detected in wells S-2, S-6, and S-8, and <li data-bbox="906 539 1453 611">• 600 $\mu\text{g/L}$ ethylbenzene and 660 $\mu\text{g/L}$ total xylenes detected in well S-8. <p data-bbox="857 646 1453 898">As noted above, the RWQCB advises that TPH ESLs must be used in conjunction with ESLs for related chemicals. Toluene was not detected above ESLs during the second quarter 2012, and benzene, ethylbenzene, and total xylenes concentrations are defined to below ESLs down gradient by well S-9.</p> <p data-bbox="857 934 1453 1535">Additional down-gradient wells are not needed since there are no potential receptors. Well S-9 demonstrates that the groundwater plume does not impact the area of the Albany City Hall building. The Gill Tract, an agricultural research property owned by the University of California at Berkeley (Figure 3), is located diagonally across the intersection of San Pablo Avenue and Marin Avenue, and no buildings are located in the northeast portion of the tract. In addition, it would be unfeasible to install wells in or near the intersection due to safety concerns. We note that in 2005, Caltrans paved over well S-7, located in San Pablo Avenue, and would not issue an encroachment permit to uncover the well.</p> <p data-bbox="857 1570 1453 1633">Historical groundwater data are included in Table 2.</p> |

| ITEM | EVALUATION CRITERIA | COMMENTS/DISCUSSION |
|-------------|---|--|
| 2.2.5 | TPHg/BTEX Plume Stability and Concentration Trends | As shown in Figures 4 through 6, groundwater monitoring data indicate that TPHg concentrations are stable and benzene appear to be stable to declining in wells S-2, S-3, and S-6. As stated above, SPHs have not been measured in any site wells since August 2011. Based on historical groundwater monitoring data since October 2008 (Table 2), SPHs in well S-8 have consistently declined and long term TPHg and BTEX trends in S-8 are generally stable. |
| 2.2.6 | Groundwater Definition Status (Oxygenates) | Fuel oxygenate concentrations in all wells are below ESLs, so the extent of fuel oxygenates in groundwater is adequately defined. |
| 2.2.7 | Oxygenate Plume Stability and Concentration Trends | No MTBE was detected at concentrations exceeding ESLs during the second quarter 2012 groundwater monitoring event and historical TBA concentrations are below ESLs. |
| 2.2.8 | Groundwater Flow Direction, Depth Trends and Gradient | Static groundwater depth has ranged from 4.84 to 15.14 fbg and is typically 6 to 11 fbg. Groundwater flow direction is generally westerly with a generally shallow groundwater gradient. Groundwater depths are presented in the historical groundwater monitoring table (Table 2). The second quarter 2012 groundwater contour map is included as Figure 3. |
| 2.2.9 | Stratigraphy and Hydrogeology | Based on 16 site borings, the site is underlain by 1.25 to 4 feet of variable fill below which is predominantly clays and silts to 5.5 to 10.5 fbg, generally underlain by sands and gravels with occasional clay layers up to 5 inches thick, to 11 to 15.5 fbg, followed by silts and sands to the total depth explored of approximately 20.5 fbg. Siltstone bedrock was noted beginning at 19 fbg in the borings for wells S-6 and S-7. Boring logs and cross sections are presented in Appendix B. |
| 2.2.10 | Preferential Pathways Analysis | In January 2000, Cambria Environmental Technology, Inc. (Cambria) reviewed City of Albany engineering maps and identified a sanitary sewer and storm drain along the east side of San Pablo Avenue and on the south side of Marin Avenue which could potentially intercept groundwater. Cambria |

| ITEM | EVALUATION CRITERIA | COMMENTS/DISCUSSION |
|------------|---|--|
| | | stated that there was a potential for groundwater migration within the utility trenches; however, impact to sensitive receptors is unlikely due to the distance from the source area to the discharge area of the sanitary sewer and storm drain systems. |
| 2.2.11 | Other Pertinent Issues | None. |
| 2.3 | Remediation Status | |
| 2.3.1 | Remedial Actions Taken | <p>Since May 1990, SPHs have been removed by hand bailing and with SPH-absorbent canisters. SPH removal data are presented in Table 3.</p> <p>In addition, the USTs, dispensers and piping were replaced in October 1996, and under-dispenser containment was upgraded in December 2007.</p> |
| 2.3.2 | Area Remediated | The area west of the dispensers (well S-8). |
| 2.3.3 | Remediation Effectiveness | Approximately 19.3 pounds of SPHs have been removed. SPH removal data are presented in Table 3. |
| 2.4 | Well and Sensitive Receptor Survey | |
| 2.4.1 | Designated Beneficial Water Use | <p>The RWQCB Groundwater Committee's June 1999 <i>East Bay Plain Groundwater Basin Beneficial Use Evaluation Report for Alameda and Contra Costa Counties, CA</i>, states that the City of Oakland (among other cities) "does not have plans to develop local groundwater resources for drinking water purposes, because of existing or potential saltwater intrusion, contamination, or poor or limited quantity." Although groundwater in this area cannot be precluded from being a potential future source of drinking water, it is not currently a source of drinking water, and given the shallow depth, it is unlikely that the first water-bearing zone would be used as a source of drinking water. Thus, RWQCB non-drinking water ESLs are the appropriate screening levels for this site.</p> |
| 2.4.2 | Well Survey Results | In July 2001, Cambria conducted a one-half-mile-radius California Department of Water Resources well record survey to locate water-producing wells. The survey did not identify any water-producing wells |

| ITEM | EVALUATION CRITERIA | COMMENTS/DISCUSSION |
|------------|--|---|
| | | within a one-half-mile radius of the site. |
| 2.4.3 | Likelihood of Impact to Wells | No water-producing wells were identified within a one-half-mile radius of the site, so it is unlikely water-producing wells would be impacted. |
| 2.4.4 | Likelihood of Impact to Surface Water | In January 2000, Cambria conducted a sensitive receptor survey which identified Village Creek, located 400 feet south (cross gradient) of the site as the closest surface water body. Due to the distance and cross-gradient direction to the creek, it is unlikely that surface water would be impacted. |
| 2.5 | Risk Assessment | |
| 2.5.1 | Site Conceptual Exposure Model (current and future uses) | The site is an active Shell-branded service station and is likely to remain in use as a service station. The site is surrounded by mixed residential and commercial properties. There is no indication that the land use in the site vicinity will change from commercial and residential land use in the near future. |
| 2.5.2 | Exposure Pathways | <p>Potential exposure pathways include ingestion of impacted groundwater, exposure of on-site workers to impacted shallow soils, and intrusion of vapor to indoor air.</p> <p>Groundwater ingestion does not appear to be a completed pathway because there are no down-gradient water-producing wells or surface water in close proximity to the site.</p> <p>As discussed above, impacted soil is limited on site. Any worker doing trenching or excavating at an active gasoline station would be properly trained and prepared for encountering potentially impacted soil, and would wear personal protective equipment, as necessary. Therefore, the residual impacted soils do not appear to pose a significant threat to construction workers who may occasionally come in contact with the potentially impacted soils on site, and any work at this site would require contractors to have appropriate health and safety training. At this time, no further investigation associated with the residual soil</p> |

| ITEM | EVALUATION CRITERIA | COMMENTS/DISCUSSION |
|-------------|---|---|
| | | impact is recommended. Furthermore, the site is an active fueling facility, and there is no reasonable concern that subsurface contamination poses unacceptable indoor inhalation health risk. |
| 2.5.3 | Risk Assessment Status | No formal risk assessment has been conducted. |
| 2.5.4 | Identified Human Exceedances | NA |
| 2.5.5 | Identified Ecological Exceedances | NA |
| 2.6 | Additional Recommended Data or Tasks | |
| 2.6.1 | Well Destructions Following Case Closure | |

3.0 LOW-THREAT CLOSURE EVALUATION

Site data also demonstrate that the site conditions meet the low-threat UST case closure criteria outlined in the SWRCB's *Low-Threat Underground Storage Tank Case Closure Policy*. These criteria are addressed below.

3.1 GENERAL CRITERIA

3.1.1 THE UNAUTHORIZED RELEASE IS LOCATED WITHIN THE SERVICE AREA OF A PUBLIC WATER SYSTEM

East Bay Municipal Utility District is the public water system for the site and the surrounding area.

3.1.2 THE UNAUTHORIZED RELEASE CONSISTS ONLY OF PETROLEUM

The site is a Shell-branded service station. Soil and groundwater impacts identified in site investigations since 1990 consist only of petroleum hydrocarbons and fuel additives.

**3.1.3 THE UNAUTHORIZED (“PRIMARY”) RELEASE
FROM THE UST SYSTEM HAS BEEN STOPPED**

No specific releases have been identified. The USTs, dispensers, and piping were replaced in October 1996, and under-dispenser containment was upgraded in December 2007.

**3.1.4 FREE PRODUCT HAS BEEN REMOVED TO
THE MAXIMUM EXTENT PRACTICABLE**

No free product has been measured in site groundwater monitoring wells since August 2011. Since May 1990, approximately 19.3 pounds of SPHs have been removed by hand bailing and with SPH-absorbent canisters. SPH removal data is presented in Table 3.

**3.1.5 A CONCEPTUAL SITE MODEL THAT ASSESSES THE NATURE,
EXTENT, AND MOBILITY OF THE RELEASE HAS BEEN DEVELOPED**

An SCM is presented in Section 2 above.

**3.1.6 SECONDARY SOURCE HAS BEEN
REMOVED TO THE EXTENT PRACTICABLE**

As stated above, since May 1990, approximately 19.3 pounds of SPHs have been removed by hand bailing and with SPH-absorbent canisters. SPH removal data is presented in Table 3.

3.1.7 SOIL OR GROUNDWATER HAS BEEN TESTED FOR MTBE

Soil samples have been analyzed for MTBE in all investigations from October 1996 to the present. Groundwater samples have been analyzed for MTBE since July 1996. Analytical data has been reported to Alameda County Environmental Health (ACEH) in investigation reports and periodic groundwater monitoring reports.

3.1.8 **NUISANCE AS DEFINED BY WATER CODE
SECTION 13050 DOES NOT EXIST AT THE SITE**

Site conditions do not interfere with enjoyment of life or property, affect an entire community or neighborhood, or present a nuisance during or as a result of the treatment or disposal of wastes.

3.2 **MEDIA-SPECIFIC CRITERIA**

3.2.1 **GROUNDWATER**

The contaminant plume that exceeds water quality objectives is stable or decreasing in aerial extent, and this site meets the groundwater requirements specified for class 2 in the low-threat document:

- *The plume is less than 250 feet long:* The east-west length of the plume (in the predominant flow direction) is less than 170 feet.
- *There is no free product:* As stated above, no free product has been detected in site groundwater monitoring wells since August 2011.
- *The nearest existing water supply well or surface water body is greater than 250 feet from the defined plume boundary:* As stated above, no water supply wells were identified within one-half mile of the site. The closest surface water body is Village Creek, located 400 feet south (cross gradient) of the site.

3.2.2 **VAPOR**

The site is an active fueling facility, and there is no reasonable concern that subsurface contamination poses unacceptable indoor inhalation health risk.

3.2.3 **DIRECT CONTACT AND OUTDOOR AIR EXPOSURE**

This site meets the residential direct contact and outdoor air requirements for benzene and ethylbenzene in commercial soil specified in scenario 1 in the low-threat document:

- *Benzene and ethylbenzene concentrations at 0 to 5 fbg are less than 8.2 mg/kg and 89 mg/kg, respectively:* Up to 1.4 mg/kg benzene and 11 mg/kg ethylbenzene have been detected in soil samples collected from 0 to 5 fbg.

- *Benzene and ethylbenzene concentrations at 5 to 10 fbg are less than 12 mg/kg kg and 134 mg/kg, respectively: Soil samples collected from 5 to 10 fbg have contained up to 2.5 mg/ kg benzene and 6.8 mg/kg ethylbenzene.*

4.0 CLOSURE REQUEST

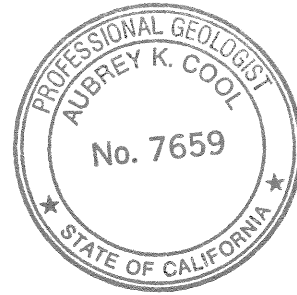
The site is likely to remain in use as a service station. Given the concentrations of constituents of concern in site soil and groundwater compared to the ESLs as presented above, CRA concludes that the residual petroleum and fuel oxygenate impacts at this site pose very little or no risk to human health or the environment.

This site meets the SWRCB's low-threat UST closure policy requirements. Therefore, on behalf of Shell, we respectfully request closure of this case. CRA requests that ACEH suspend the groundwater monitoring program during the closure review.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer
Peter Schaefer, CEG, CHG

Aubrey K. Cool
Aubrey K. Cool, PG



FIGURES

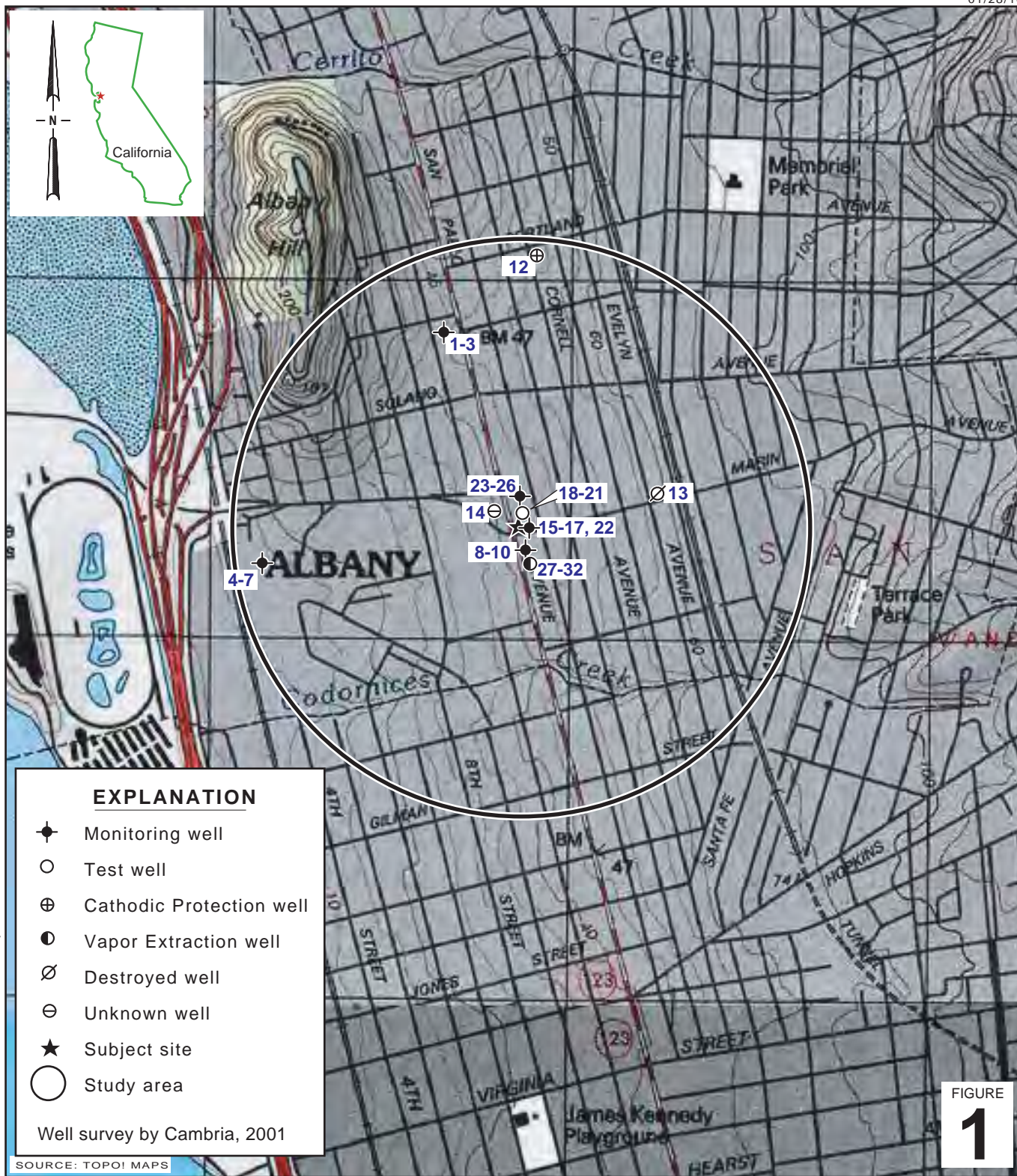


FIGURE
1

Shell-branded Service Station
 999 San Pablo Avenue
 Albany, California



**CONESTOGA-ROVERS
& ASSOCIATES**

Vicinity Map

EXPLANATION

- S-1 ● Monitoring well location
- RW-1 ■ Recovery well location
- S-7 / Paved-over well location
- SB-1 ⊙ Soil boring location (1990)
- D-1 ● Dispenser soil sample location (2007)
- P-1 ○ Pipeline soil sample location (1996)
- D-1 ▲ Dispenser soil sample location (1996)
- V-1 ◆ Ventline soil sample location (1996)
- E-1 ■ Excavation soil sample location (1996)
- NE ▲ Trench soil sample location (1996)

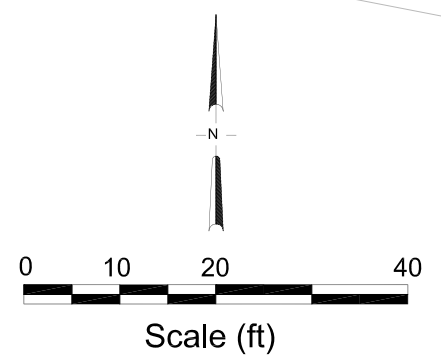
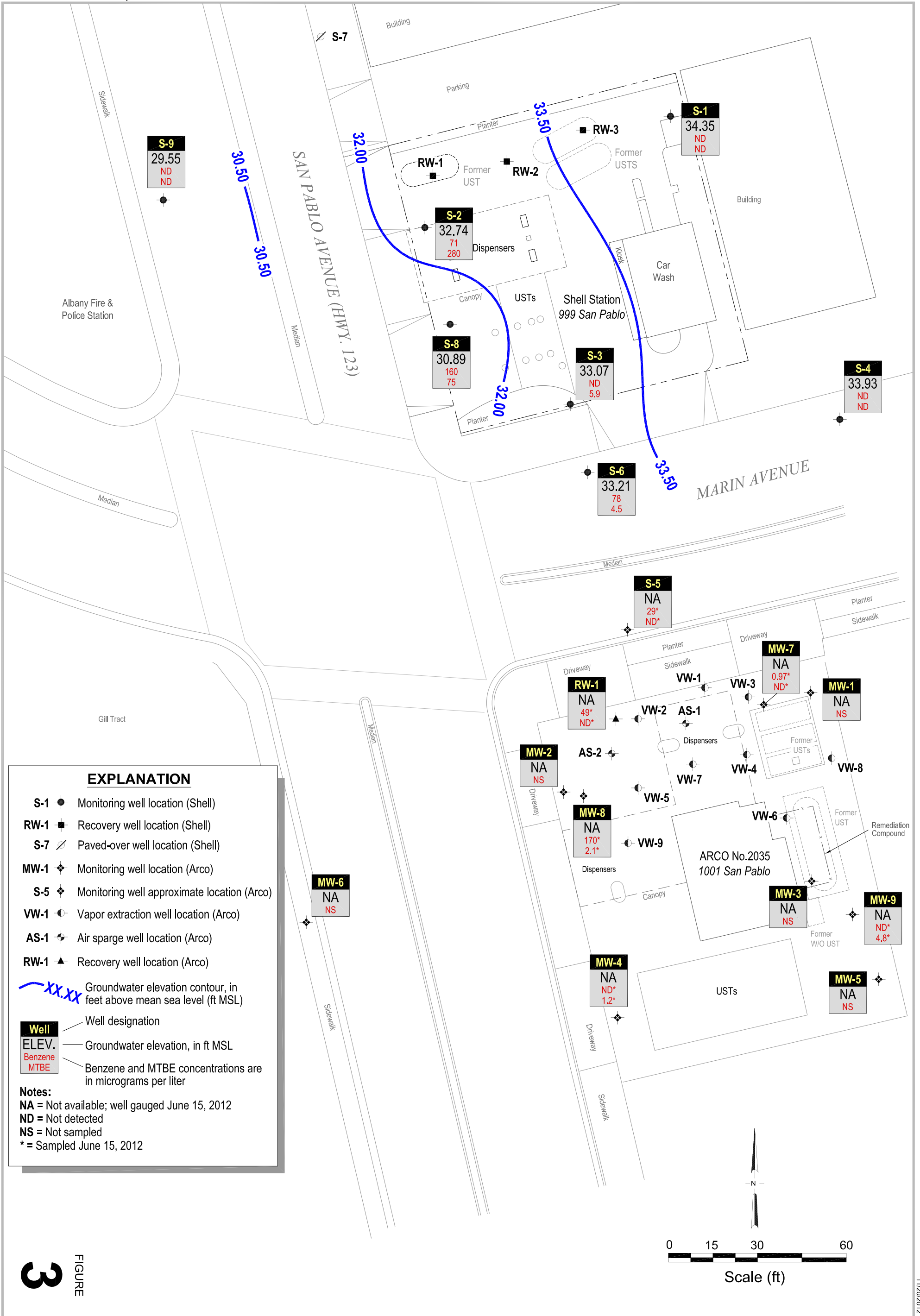


FIGURE
2

I:\Shell\G-chars\2403-240366-Albany 999 San Pablo Ave\240366-FIGURES\240366 SITE PLAN.DWG



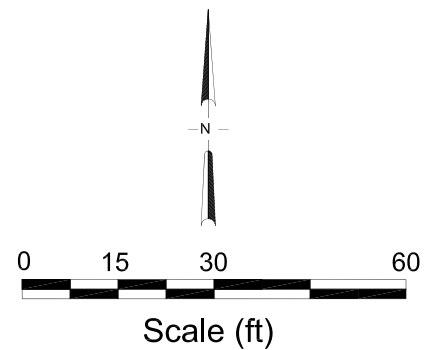
EXPLANATION

- S-1 ● Monitoring well location (Shell)
- RW-1 ■ Recovery well location (Shell)
- S-7 / Paved-over well location (Shell)
- MW-1 ◆ Monitoring well location (Arco)
- S-5 ◆ Monitoring well approximate location (Arco)
- VW-1 ● Vapor extraction well location (Arco)
- AS-1 ◆ Air sparge well location (Arco)
- RW-1 ▲ Recovery well location (Arco)

—xx.xx— Groundwater elevation contour, in feet above mean sea level (ft MSL)

| | |
|----------------|---|
| Well | Well designation |
| ELEV. | Groundwater elevation, in ft MSL |
| Benzene | Benzene and MTBE concentrations are in micrograms per liter |
| MTBE | |

Notes:
 NA = Not available; well gauged June 15, 2012
 ND = Not detected
 NS = Not sampled
 * = Sampled June 15, 2012



3 FIGURE

Shell-branded Service Station

999 San Pablo Avenue
 Albany, California



CONESTOGA-ROVERS & ASSOCIATES

Groundwater Contour and Chemical Concentration Map

June 5, 2012

Predicted Time to Reach Water Quality Objectives (WQO) in Well S-2

Shell-branded Service Station, 999 San Pablo Avenue, Albany, California

$$y = b e^{ax} \quad \implies \quad x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

| Given | Constituent | Total Petroleum Hydrocarbons as Gasoline (TPHg) | Benzene |
|----------------------------------|-------------|---|-----------|
| WQO: | y | 210 | 46 |
| Constant: | b | NA | 3.85E+13 |
| Constant: | a | NA | -7.06E-04 |
| Starting date for current trend: | | NA | 8/26/1992 |

| Calculate | | TPHg | Benzene |
|--------------------------------|----------------------|--------|----------|
| Attenuation Half Life (years): | $(-\ln(2)/a)/365.25$ | NA | 2.69 |
| Estimated Date to Reach WQO: | $(x = \ln(y/b) / a)$ | Stable | Jul 2006 |

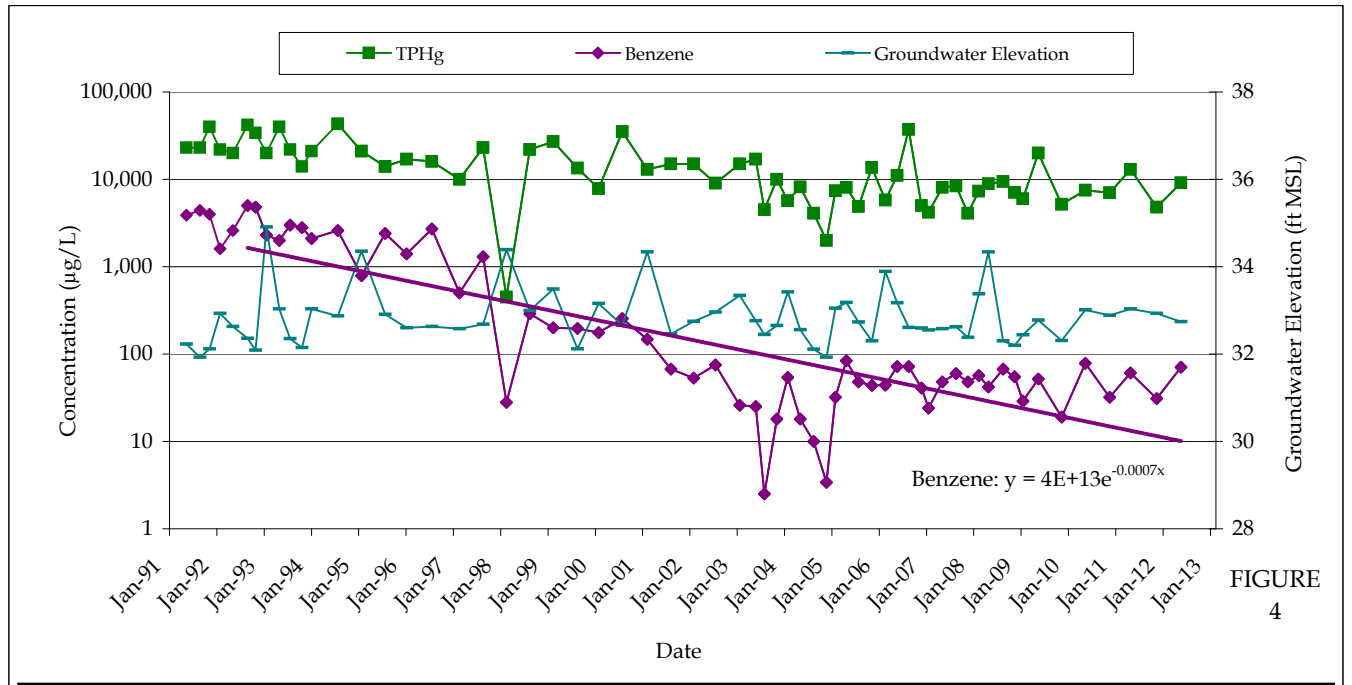


FIGURE 4

Shell-branded Service Station
 999 San Pablo Avenue
 Albany, California



S-2:
 TPHg and Benzene Concentrations and
 Groundwater Elevations versus Time

Predicted Time to Reach Water Quality Objectives (WQO) in Well S-3

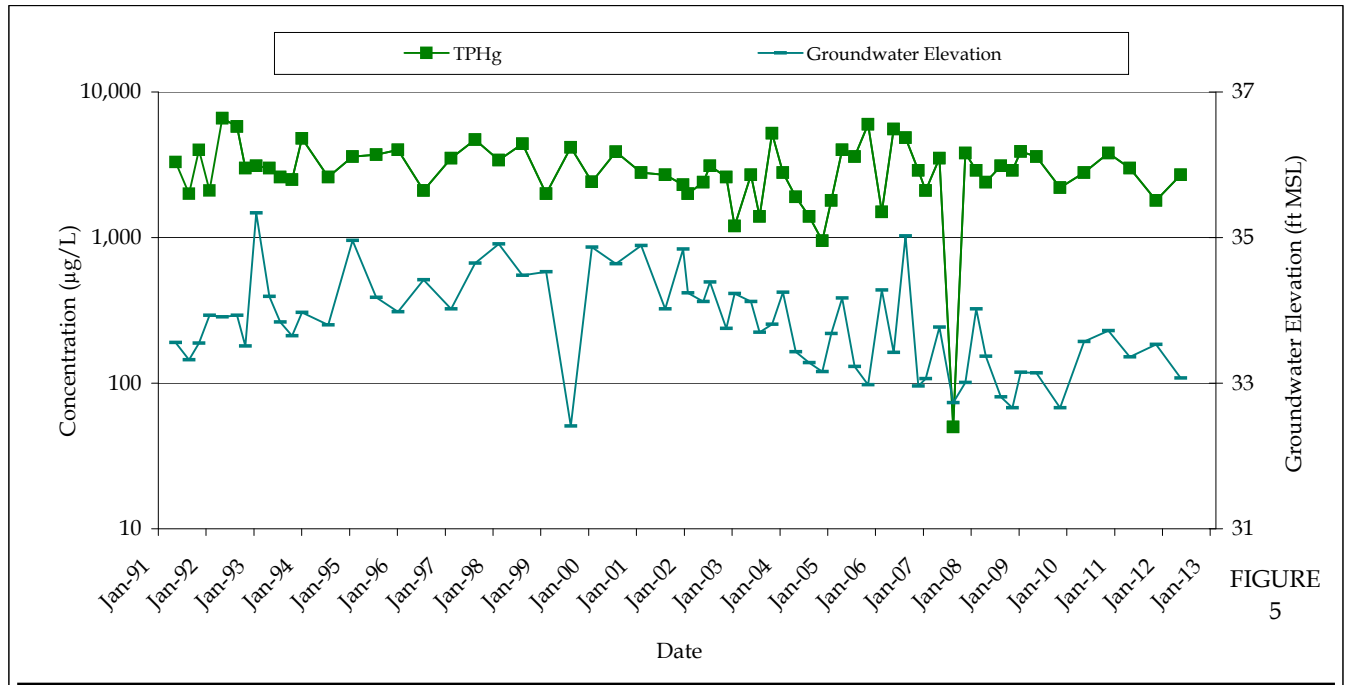
Shell-branded Service Station, 999 San Pablo Avenue, Albany, California

$$y = b e^{ax} \implies x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

| Given | Constituent | Total Petroleum Hydrocarbons as Gasoline (TPHg) |
|----------------------------------|-------------|---|
| WQO: | y | 210 |
| Constant: | b | NA |
| Constant: | a | NA |
| Starting date for current trend: | | NA |

| Calculate | | |
|--------------------------------|----------------------|--------|
| Attenuation Half Life (years): | $(-\ln(2)/a)/365.25$ | NA |
| Estimated Date to Reach WQO: | $(x = \ln(y/b) / a)$ | Stable |



Predicted Time to Reach Water Quality Objectives (WQO) in Well S-6

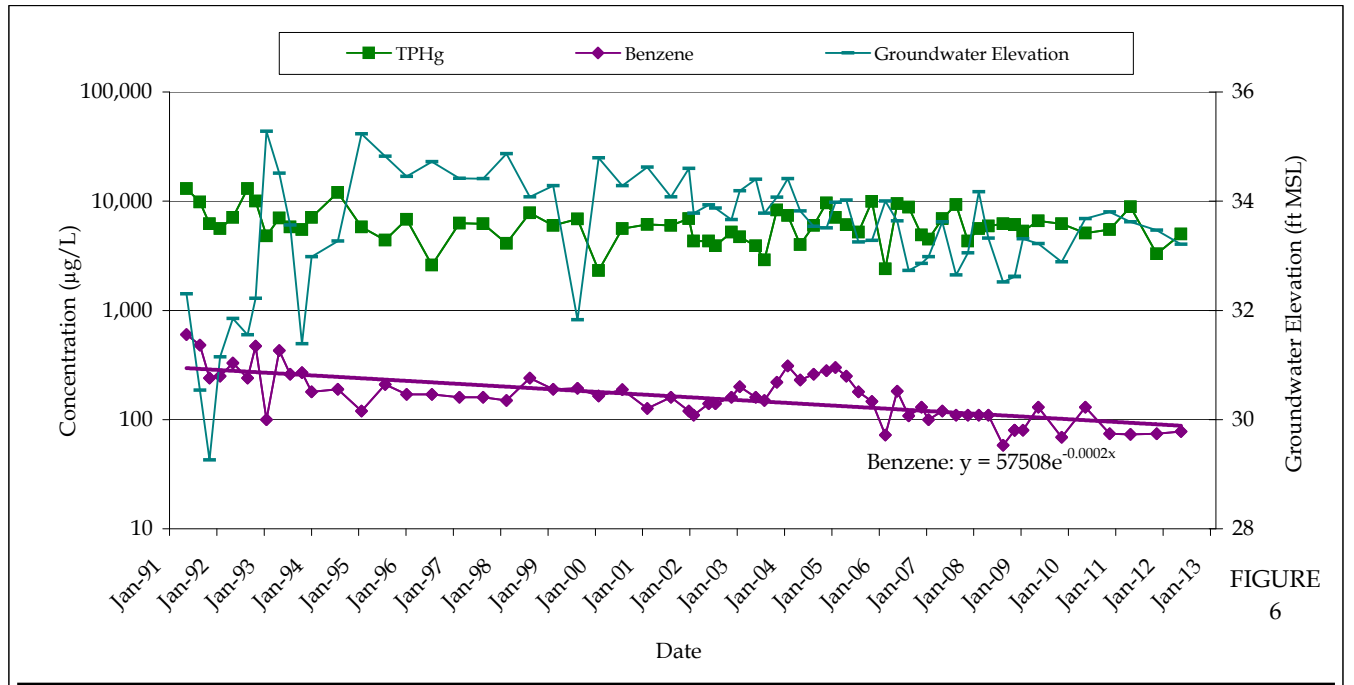
Shell-branded Service Station, 999 San Pablo Avenue, Albany, California

$$y = b e^{ax} \implies x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

| Given | Constituent | Total Petroleum Hydrocarbons as Gasoline (TPHg) | Benzene |
|----------------------------------|-------------|---|-----------|
| WQO: | y | 210 | 46 |
| Constant: | b | NA | 5.75E+04 |
| Constant: | a | NA | -1.58E-04 |
| Starting date for current trend: | | NA | 5/13/1991 |

| Calculate | | TPHg | Benzene |
|--------------------------------|----------------------|--------|----------|
| Attenuation Half Life (years): | $(-\ln(2)/a)/365.25$ | NA | 12.02 |
| Estimated Date to Reach WQO: | $(x = \ln(y/b) / a)$ | Stable | Aug 2023 |



TABLES

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Sample ID | Date | Depth (fbg) | TPHg (mg/kg) | B (mg/kg) | T (mg/kg) | E (mg/kg) | X (mg/kg) | MTBE (mg/kg) | TBA (mg/kg) | DIPE (mg/kg) | ETBE (mg/kg) | TAME (mg/kg) | 1,2- DCA (mg/kg) | EDB (mg/kg) | Ethanol (mg/kg) | Total Lead (mg/kg) |
|-----------|-----------|----------------|-----------------|--------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|------------------------|----------------|--------------------|--------------------------|
| S-A-5' | 1/29/1990 | 5 | 13 | 0.26 | <0.025 | 0.46 | 0.91 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-A-10' | 1/29/1990 | 10 | 1,900 | 9.8 | 10 | 41 | 250 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-B-5' | 1/29/1990 | 5 | 5.6 | <0.025 | <0.025 | 0.028 | 0.09 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-B-15' | 1/29/1990 | 15 | <2.5 | <0.025 | <0.025 | <0.025 | 0.09 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-C-5' | 1/29/1990 | 5 | 48 | <0.2 | <0.2 | 0.27 | 0.7 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-C-10' | 1/29/1990 | 10 | 470 | <1 | 1 | 8 | 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-D-15' | 1/29/1990 | 15 | 94 | 0.63 | 0.31 | 2.5 | 1.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-E-5' | 1/29/1990 | 5 | 21 | 0.38 | 0.036 | 0.40 | 0.44 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-E-10' | 1/29/1990 | 10 | <2.5 | <0.025 | <0.025 | 0.026 | 0.06 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-F-5' | 1/29/1990 | 5 | <2.5 | <0.025 | <0.025 | <0.025 | <0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-F-10' | 1/29/1990 | 10 | 120 | 0.44 | 0.10 | <0.8 | 0.8 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-G-10' | 1/29/1990 | 10 | 6.5 | 0.032 | <0.025 | <0.025 | 0.07 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-G-15' | 1/29/1990 | 15 | <2.5 | <0.025 | <0.025 | <0.025 | <0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-1-10' | 1/30/1990 | 10 | 6.2 | <0.06 | <0.025 | 0.096 | 0.32 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-1-14' | 1/30/1990 | 14 | <2.5 | <0.025 | <0.025 | <0.025 | <0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-2-5' | 1/30/1990 | 5 | <2.5 | <0.025 | <0.025 | <0.025 | <0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-2-10' | 1/30/1990 | 10 | 250 | 2.5 | 0.8 | 6.5 | 8.6 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-3-10' | 1/30/1990 | 10 | 18 | <0.03 | <0.025 | <0.025 | 0.11 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-3-15' | 1/30/1990 | 15 | <2.5 | <0.025 | <0.025 | <0.025 | <0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-4-5 | 4/16/1990 | 5 | <2.5 | <0.025 | <0.025 | <0.025 | <0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-4-9 | 4/16/1990 | 9 | <2.5 | <0.025 | <0.025 | <0.025 | <0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-5-5 | 4/16/1990 | 5 | <2.5 | <0.025 | <0.025 | <0.025 | <0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Sample ID | Date | Depth (fbg) | TPHg (mg/kg) | B (mg/kg) | T (mg/kg) | E (mg/kg) | X (mg/kg) | MTBE (mg/kg) | TBA (mg/kg) | DIPE (mg/kg) | ETBE (mg/kg) | TAME (mg/kg) | 1,2- DCA (mg/kg) | EDB (mg/kg) | Ethanol (mg/kg) | Total Lead (mg/kg) |
|-------------------------|-----------|----------------|-----------------|--------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|------------------------|----------------|--------------------|--------------------------|
| S-5-12 | 4/16/1990 | 12 | 25 | 0.30 | 0.12 | 0.51 | 1.2 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-5-15 | 4/16/1990 | 15 | 130 | 1.9 | 7.5 | 3.3 | 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-6-6 | 8/15/1990 | 6 | 180 | 0.2 | 0.4 | 0.5 | 1.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-6-9 | 8/15/1990 | 9 | 770 | 2.2 | 2.8 | 6.8 | 5.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-6-19.5 | 8/15/1990 | 19.5 | <1 | <0.005 | <0.005 | <0.005 | <0.005 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-7-9 | 8/15/1990 | 9 | <1 | <0.005 | <0.005 | <0.005 | <0.005 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-7-19.5 | 8/15/1990 | 19.5 | <1 | <0.005 | <0.005 | <0.005 | <0.005 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B1-8.0 | 7/31/1996 | 8 | 110 | <0.10 | 0.43 | 1.1 | 3.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B1-13.0 | 7/31/1996 | 13 | 25 | <0.050 | 0.082 | 0.11 | 0.20 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B1-17.0 | 7/31/1996 | 17 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B1-3.0, 8.0, 13.0, 17.0 | 7/31/1996 | a | 2.4 | 0.015 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B2-8.0 | 7/31/1996 | 8 | 6.4 | 0.0056 | 0.035 | 0.021 | 0.063 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B2-13.0 | 7/31/1996 | 13 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B2-17.0 | 7/31/1996 | 17 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B2-3.0, 8.0, 13.0, 17.0 | 7/31/1996 | a | 1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B3-8.0 | 7/31/1996 | 8 | 1.5 | 0.0058 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B3-13.0 | 7/31/1996 | 13 | 81 | 0.62 | <0.10 | 0.34 | 0.56 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B3-17.0 | 7/31/1996 | 17 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B3-3.0, 8.0, 13.0, 17.0 | 7/31/1996 | a | 1.3 | 0.0064 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B4-8.0 | 7/31/1996 | 8 | 2.2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B4-13.0 | 7/31/1996 | 13 | 3.2 | 0.048 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B4-17.0 | 7/31/1996 | 17 | 1.3 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B4-3.0, 8.0, 13.0, 17.0 | 7/31/1996 | a | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B5-8.0 | 7/31/1996 | 8 | 160 | <0.0050 | 0.48 | 0.45 | 0.63 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B5-13.0 | 7/31/1996 | 13 | 280 | <0.12 | 1.2 | 1.2 | 1.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B5-3.0, 8.0, 13.0 | 7/31/1996 | a | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Sample ID | Date | Depth (fbg) | TPHg (mg/kg) | B (mg/kg) | T (mg/kg) | E (mg/kg) | X (mg/kg) | MTBE (mg/kg) | TBA (mg/kg) | DIPE (mg/kg) | ETBE (mg/kg) | TAME (mg/kg) | 1,2- DCA (mg/kg) | EDB (mg/kg) | Ethanol (mg/kg) | Total Lead (mg/kg) |
|-------------------------|------------|----------------|-----------------|--------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|------------------------|----------------|--------------------|--------------------------|
| B6-8.0 | 7/31/1996 | 8 | 81 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B6-13.0 | 7/31/1996 | 13 | 87 | <0.050 | 0.39 | 0.27 | 0.57 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B6-17.0 | 7/31/1996 | 17 | <1.0 | <0.10 | 0.28 | 0.29 | 0.52 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B6-3.0, 8.0, 13.0, 17.0 | 7/31/1996 | a | 2.4 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B7-8.0 | 7/31/1996 | 8 | 22 | <0.025 | <0.025 | 0.086 | 0.18 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B7-13.0 | 7/31/1996 | 13 | 65 | <0.025 | <0.025 | 0.10 | 0.26 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B7-17.0 | 7/31/1996 | 17 | 20 | <0.012 | 0.089 | 0.071 | 0.13 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B7-3.0, 8.0, 13.0, 17.0 | 7/31/1996 | a | <1.0 | 0.012 | 0.0095 | 0.011 | 0.032 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B8-8.0 | 7/31/1996 | 8 | 220 | <0.012 | 0.90 | 1.7 | 1.6 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B8-13.0 | 7/31/1996 | 13 | <1.0 | 0.0094 | 0.0086 | 0.01 | 0.038 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B8-17.0 | 7/31/1996 | 17 | <1.0 | 0.010 | 0.012 | 0.11 | 0.036 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B8-3.0, 8.0, 13.0, 17.0 | 7/31/1996 | a | <1.0 | <0.0050 | 0.0088 | 0.0056 | 0.018 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SW-8 | 10/25/1996 | 8 | 260 | <0.10 | 0.53 | 0.36 | 1.3 | <0.50 | --- | --- | --- | --- | --- | --- | --- | --- |
| SW-12 | 10/25/1996 | 12 | 6.6 | 0.047 | 0.028 | 0.019 | 0.069 | 0.042 | --- | --- | --- | --- | --- | --- | --- | --- |
| SW-15 | 10/25/1996 | 15 | 4.9 | 0.0055 | 0.012 | 0.011 | 0.036 | <0.025 | --- | --- | --- | --- | --- | --- | --- | --- |
| SC-8 | 10/25/1996 | 8 | 58 | <0.050 | 0.14 | 0.071 | 0.26 | <0.25 | --- | --- | --- | --- | --- | --- | --- | --- |
| SC-12 | 10/25/1996 | 12 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | --- | --- | --- | --- | --- | --- | --- | --- |
| SC-15 | 10/25/1996 | 15 | 1.9 | 0.027 | 0.077 | 0.036 | 0.13 | 0.025 | --- | --- | --- | --- | --- | --- | --- | --- |
| SE-4.5 | 10/25/1996 | 4.5 | 7.2 | 0.062 | 0.0090 | 0.0071 | 0.017 | <0.025 | --- | --- | --- | --- | --- | --- | --- | --- |
| SE-8 | 10/25/1996 | 8 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | --- | --- | --- | --- | --- | --- | --- | --- |
| SE-12 | 10/25/1996 | 12 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | --- | --- | --- | --- | --- | --- | --- | --- |
| SE-15 | 10/25/1996 | 15 | 58 | <0.050 | <0.050 | 0.32 | 0.11 | <0.25 | --- | --- | --- | --- | --- | --- | --- | --- |
| NW-3 | 10/25/1996 | 3 | 3.0 | <0.0050 | <0.0050 | <0.0050 | 0.0058 | <0.025 | --- | --- | --- | --- | --- | --- | --- | --- |
| NW-8 | 10/25/1996 | 8 | 34 | 0.32 | 0.086 | 0.15 | 0.20 | 0.37 | --- | --- | --- | --- | --- | --- | --- | --- |
| NW-12 | 10/25/1996 | 12 | <1.0 | 0.017 | <0.0050 | 0.018 | 0.014 | 0.056 | --- | --- | --- | --- | --- | --- | --- | --- |
| NW-15 | 10/25/1996 | 15 | <1.0 | 0.035 | <0.0050 | 0.036 | 0.013 | 0.10 | --- | --- | --- | --- | --- | --- | --- | --- |

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Sample ID | Date | Depth (fbg) | TPHg (mg/kg) | B (mg/kg) | T (mg/kg) | E (mg/kg) | X (mg/kg) | MTBE (mg/kg) | TBA (mg/kg) | DIPE (mg/kg) | ETBE (mg/kg) | TAME (mg/kg) | 1,2- DCA (mg/kg) | EDB (mg/kg) | Ethanol (mg/kg) | Total Lead (mg/kg) |
|------------|------------|----------------|-----------------|--------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|------------------------|----------------|--------------------|--------------------------|
| NC-3 | 10/25/1996 | 3 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | --- | --- | --- | --- | --- | --- | --- | --- |
| NC-8 | 10/25/1996 | 8 | 1,500 | <1.0 | <1.0 | 24 | 130 | 8.9 | --- | --- | --- | --- | --- | --- | --- | --- |
| NC-12 | 10/25/1996 | 12 | <1.0 | <0.0050 | <0.0050 | 0.0059 | 0.0070 | <0.025 | --- | --- | --- | --- | --- | --- | --- | --- |
| NC-15 | 10/25/1996 | 15 | 4.1 | 0.037 | 0.032 | 0.15 | 0.34 | 0.042 | --- | --- | --- | --- | --- | --- | --- | --- |
| NE-3 | 10/25/1996 | 3 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.025 | --- | --- | --- | --- | --- | --- | --- | --- |
| NE-8 | 10/25/1996 | 8 | 620 | <0.025 | <0.25 | 5.0 | 23 | 3.6 | --- | --- | --- | --- | --- | --- | --- | --- |
| NE-12 | 10/25/1996 | 12 | 3.4 | 0.041 | 0.014 | 0.064 | 0.21 | 0.032 | --- | --- | --- | --- | --- | --- | --- | --- |
| NE-15 | 10/25/1996 | 15 | <1.0 | 0.12 | <0.0050 | 0.021 | 0.0072 | <0.025 | --- | --- | --- | --- | --- | --- | --- | --- |
| E-1, 10.5 | 10/22/1996 | 10.5 | 250 | 1.6 | <0.12 | 0.18 | 1.9 | 4.1 | --- | --- | --- | --- | --- | --- | --- | --- |
| E-2, 10.5 | 10/22/1996 | 10.5 | 6,000 | 35 | 3.2 | 2.9 | 340 | 15 | --- | --- | --- | --- | --- | --- | --- | --- |
| E-3, 11 | 10/22/1996 | 11 | 150 | 1.3 | <0.025 | 0.071 | 4.1 | 0.95 | --- | --- | --- | --- | --- | --- | --- | --- |
| E-4, 11 | 10/22/1996 | 11 | 9.9 | 0.12 | 0.020 | <0.0050 | 0.22 | 0.99 | --- | --- | --- | --- | --- | --- | --- | --- |
| E-5, 11 | 10/22/1996 | 11 | 1,100 | 5.7 | 0.91 | <0.50 | 44 | 6.8 | --- | --- | --- | --- | --- | --- | --- | --- |
| E-6, 10.5 | 10/22/1996 | 10.5 | 6,400 | 44 | 41 | 60 | 450 | 30 | --- | --- | --- | --- | --- | --- | --- | --- |
| E-7, 10.5 | 11/1/1996 | 10.5 | 29 | 0.11 | <0.025 | 0.23 | 0.43 | 1.6 | --- | --- | --- | --- | --- | --- | --- | 12 |
| E-8, 10.5 | 11/1/1996 | 10.5 | 2,300 | 9.5 | 2.9 | 42 | 70 | 18 | --- | --- | --- | --- | --- | --- | --- | 9.9 |
| E-9, 10.5 | 11/1/1996 | 10.5 | 140 | <0.25 | <0.25 | 0.25 | 0.80 | <1.2 | --- | --- | --- | --- | --- | --- | --- | 9.4 |
| E-10, 10.5 | 11/1/1996 | 10.5 | 400 | 1.1 | 0.79 | 1.6 | 4.9 | 2.7 | --- | --- | --- | --- | --- | --- | --- | 10 |
| E-11, 10.5 | 11/1/1996 | 10.5 | 660 | 3.0 | 2.8 | 11 | 53 | 8.1 | --- | --- | --- | --- | --- | --- | --- | 6.8 |
| E-12, 10.5 | 11/1/1996 | 10.5 | 4,600 | 38 | 18 | 76 | 39 | 9.4 | --- | --- | --- | --- | --- | --- | --- | 30 |
| D-1 | 11/1/1996 | | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.17 | --- | --- | --- | --- | --- | --- | --- | 11 |
| D-2 | 11/1/1996 | | 30 | 0.050 | 0.13 | 0.28 | 0.31 | 2.0 | --- | --- | --- | --- | --- | --- | --- | 8.2 |
| D-3 | 11/1/1996 | | 1,900 | <1.2 | 2.7 | 11 | 29 | <6.2 | --- | --- | --- | --- | --- | --- | --- | 21 |
| D-4 | 11/1/1996 | | 2.0 | 0.0053 | <0.0050 | <0.0050 | 0.023 | 0.56 | --- | --- | --- | --- | --- | --- | --- | 5.7 |
| D-5 | 11/1/1996 | | 2.8 | 0.029 | 0.0088 | 0.0098 | 0.022 | 1.3 | --- | --- | --- | --- | --- | --- | --- | 7.1 |
| P-1 | 11/1/1996 | | 1.3 | 0.013 | <0.0050 | 0.0061 | 0.017 | 0.89 | --- | --- | --- | --- | --- | --- | --- | 8.3 |
| P-2 | 11/1/1996 | | 22 | 0.061 | <0.025 | 0.24 | 0.12 | 10 | --- | --- | --- | --- | --- | --- | --- | 8.7 |
| P-3 | 11/1/1996 | | 2.1 | 0.046 | <0.0050 | 0.0087 | 0.024 | 4.1 | --- | --- | --- | --- | --- | --- | --- | 8.7 |

TABLE 1

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SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Sample ID | Date | Depth (fbg) | TPHg (mg/kg) | B (mg/kg) | T (mg/kg) | E (mg/kg) | X (mg/kg) | MTBE (mg/kg) | TBA (mg/kg) | DIPE (mg/kg) | ETBE (mg/kg) | TAME (mg/kg) | 1,2- DCA (mg/kg) | EDB (mg/kg) | Ethanol (mg/kg) | Total Lead (mg/kg) |
|--|-----------|----------------|-----------------|--------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|------------------------|----------------|--------------------|--------------------------|
| P-4 | 11/1/1996 | | 12 | 0.078 | 0.027 | 0.066 | 0.97 | 1.9 | --- | --- | --- | --- | --- | --- | --- | 6.7 |
| V-1 | 11/1/1996 | | 280 | 1.4 | 1.1 | 0.75 | 2.6 | <1.2 | --- | --- | --- | --- | --- | --- | --- | 6.9 |
| V-2 | 11/1/1996 | | 2.9 | 0.021 | 0.014 | <0.0050 | <0.0050 | 0.57 | --- | --- | --- | --- | --- | --- | --- | 6.9 |
| S-8-5' | 5/6/2004 | 5 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.046 | --- | --- | --- | --- | --- | --- | --- | --- |
| S-8-9.5' | 5/6/2004 | 9.5 | 6.1 | <0.0050 | <0.0050 | 0.0081 | 0.0059 | 0.066 | --- | --- | --- | --- | --- | --- | --- | --- |
| S-8-15.5' | 5/6/2004 | 15.5 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.10 | --- | --- | --- | --- | --- | --- | --- | --- |
| S-9-6' | 5/6/2004 | 6 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- |
| S-9-11' | 5/6/2004 | 11 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- |
| S-9-15.5' | 5/6/2004 | 15.5 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | --- | --- | --- | --- | --- | --- | --- | --- |
| D-1 | 12/6/2007 | 4.5 | 290 | <0.005 | <0.005 | 0.014 | 0.0079 | 0.015 | <0.02 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.10 | 51 |
| D-2 | 12/6/2007 | 4.5 | <0.10 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.02 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.10 | 6.3 |
| D-3a | 12/6/2007 | 4 | 15 | <0.005 | <0.005 | <0.005 | <0.005 | 0.029 | 0.021 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.10 | 5.5 |
| D-3b | 12/6/2007 | 5.5 | 7.8 | <0.005 | <0.005 | <0.005 | <0.005 | 0.27 | 0.14 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.10 | 6.0 |
| D-3c | 12/6/2007 | 3 | 1,200 | 0.063 | <0.05 | 4.5 | 0.05 | 0.31 | <5.0 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <10 | 9.6 |
| D-3d | 12/6/2007 | 5.5 | 430 | <0.25 | <0.25 | 3.0 | 0.35 | 0.17 | <25 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <50 | 11.0 |
| <i>Shallow Soil (≤10 fbg) ESL^b:</i> | | | 180 | 0.27 | 9.3 | 4.7 | 11 | 8.4 | 110 | NA | NA | NA | 0.048 | 0.044 | NA | 750 |
| <i>Deep Soil (>10 fbg) ESL^b:</i> | | | 180 | 2.0 | 9.3 | 4.7 | 11 | 8.4 | 110 | NA | NA | NA | 1.8 | 1.0 | NA | 750 |

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before May 6, 2004, analyzed by EPA Method 8015.

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; before May 6, 2004, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; prior to May 6, 2004 analyzed by EPA Method 8020.

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

HISTORICAL SOIL ANALYTICAL DATA
 SHELL-BRANDED SERVICE STATION
 999 SAN PABLO AVENUE, ALBANY, CALIFORNIA

| Sample ID | Date | Depth (fbg) | TPHg (mg/kg) | B (mg/kg) | T (mg/kg) | E (mg/kg) | X (mg/kg) | MTBE (mg/kg) | TBA (mg/kg) | DIPE (mg/kg) | ETBE (mg/kg) | TAME (mg/kg) | 1,2-DCA (mg/kg) | EDB (mg/kg) | Ethanol (mg/kg) | Total Lead (mg/kg) |
|--|------|----------------|-----------------|--------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|--------------------|----------------|--------------------|-----------------------|
| 1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B | | | | | | | | | | | | | | | | |
| EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B | | | | | | | | | | | | | | | | |
| Ethanol analyzed by EPA Method 8260B | | | | | | | | | | | | | | | | |
| Total Lead analyzed by EPA Method 6010 | | | | | | | | | | | | | | | | |
| fbg = Feet below grade | | | | | | | | | | | | | | | | |
| mg/kg = Milligrams per kilogram | | | | | | | | | | | | | | | | |
| <x = Not detected at reporting limit x | | | | | | | | | | | | | | | | |
| --- = Not analyzed | | | | | | | | | | | | | | | | |
| ESL = Environmental screening level | | | | | | | | | | | | | | | | |
| NA = No appropriate ESL | | | | | | | | | | | | | | | | |
| Results in bold equal or exceed applicable ESL | | | | | | | | | | | | | | | | |
| Shading indicates that soil sample location was subsequently excavated; results are not representative of residual soil. | | | | | | | | | | | | | | | | |

a = Composite sample

b = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is not a source of drinking water (Tables B and D of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to | GW | SPH | DO |
|---------|------------|----------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|----------|-----------|-----------|---------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | Water | Elevation | Thickness | Reading |
| S-1 | 05/13/1991 | 1,500 | 20 | 2.6 | 86 | 74 | --- | --- | --- | --- | --- | --- | 42.73 | 8.24 | 34.49 | --- | --- |
| S-1 | 08/23/1991 | 2,900 | 27 | <2.5 | 75 | 18 | --- | --- | --- | --- | --- | --- | 42.73 | 8.37 | 34.36 | --- | --- |
| S-1 | 11/07/1991 | 2,900 | 8.0 | 2.5 | 46 | 26 | --- | --- | --- | --- | --- | --- | 42.73 | 8.30 | 34.43 | --- | --- |
| S-1 | 01/28/1992 | 2,000 | 11 | <2.5 | 60 | 20 | --- | --- | --- | --- | --- | --- | 42.73 | 7.84 | 34.89 | --- | --- |
| S-1 | 05/06/1992 | 1,200 | 5.5 | <2.5 | 80 | 36 | --- | --- | --- | --- | --- | --- | 42.73 | 7.95 | 34.78 | --- | --- |
| S-1 | 08/26/1992 | 2,000 | 9.4 | <2.5 | 130 | <2.5 | --- | --- | --- | --- | --- | --- | 42.73 | 8.24 | 34.49 | --- | --- |
| S-1 | 10/28/1992 | 1,300 | 27 | 3.2 | 72 | 13 | --- | --- | --- | --- | --- | --- | 42.73 | 8.52 | 34.21 | --- | --- |
| S-1 | 01/19/1993 | 1,500 | 13 | 3.0 | 29 | 31 | --- | --- | --- | --- | --- | --- | 42.73 | 6.54 | 36.19 | --- | --- |
| S-1 | 04/29/1993 | 2,000 | 15 | <2.5 | 82 | <6.5 | --- | --- | --- | --- | --- | --- | 42.73 | 7.93 | 34.80 | --- | --- |
| S-1 | 07/22/1993 | 620 | 1.1 | 4.2 | 3.5 | 13 | --- | --- | --- | --- | --- | --- | 42.73 | 8.09 | 34.64 | --- | --- |
| S-1 | 10/21/1993 | 1,200 | 34 | 25 | 15 | 9.5 | --- | --- | --- | --- | --- | --- | 42.73 | 9.43 | 33.30 | --- | --- |
| S-1 | 01/04/1994 | 860 | <2.5 | <2.5 | 5.7 | 5.3 | --- | --- | --- | --- | --- | --- | 42.73 | 8.25 | 34.48 | --- | --- |
| S-1 | 04/13/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 8.02 | 34.71 | --- | --- |
| S-1 | 07/25/1994 | 1,200 | 8.3 | 7.4 | 15 | 20 | --- | --- | --- | --- | --- | --- | 42.73 | 8.22 | 34.51 | --- | --- |
| S-1 | 10/10/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 8.29 | 34.44 | --- | --- |
| S-1 | 01/26/1995 | 1,000 | 12 | 0.60 | 12 | 420 | --- | --- | --- | --- | --- | --- | 42.73 | 6.88 | 35.85 | --- | --- |
| S-1 | 04/21/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 7.65 | 35.08 | --- | --- |
| S-1 | 07/28/1995 | 660 | 7.2 | 1.0 | 11 | 8.9 | --- | --- | --- | --- | --- | --- | 42.73 | 7.90 | 34.83 | --- | 4 |
| S-1 | 10/31/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 7.72 | 35.01 | --- | --- |
| S-1 | 01/10/1996 | 1,100 | 3.5 | 7.0 | 5.1 | 9.4 | --- | --- | --- | --- | --- | --- | 42.73 | 8.24 | 34.49 | --- | 7.4 |
| S-1 | 04/25/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 7.74 | 34.99 | --- | --- |
| S-1 | 07/23/1996 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- | --- | --- | --- | 42.73 | 7.92 | 34.81 | --- | 2.7 |
| S-1 | 12/10/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 7.56 | 35.17 | --- | 0.6 |
| S-1 | 02/20/1997 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- | --- | --- | --- | 42.73 | 7.95 | 34.78 | --- | 3 |
| S-1 | 05/22/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 8.11 | 34.62 | --- | 0.5 |
| S-1 | 08/22/1997 | 810 | 18 | <2.0 | 5.1 | 4.4 | 18 | --- | --- | --- | --- | --- | 42.73 | 7.86 | 34.87 | --- | 3 |
| S-1 | 11/03/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 8.35 | 34.38 | --- | 1.1 |
| S-1 | 02/20/1998 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- | --- | --- | --- | 42.73 | 6.09 | 36.64 | --- | 2.9 |
| S-1 | 05/18/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 7.69 | 35.04 | --- | 1.1 |
| S-1 | 08/20/1998 | 390 | 6.7 | <0.50 | 0.64 | <0.50 | 14 | --- | --- | --- | --- | --- | 42.73 | 8.20 | 34.53 | --- | 1.9 |
| S-1 | 11/06/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 8.23 | 34.50 | --- | --- |
| S-1 | 02/16/1999 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- | --- | --- | --- | 42.73 | 7.47 | 35.26 | --- | 1.5 |
| S-1 | 05/28/1999 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 7.60 | 35.13 | --- | 1.3 |
| S-1 | 08/24/1999 | 72.4 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | --- | --- | --- | --- | --- | 42.73 | 7.95 | 34.78 | --- | 1.4 |
| S-1 | 11/16/1999 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 7.87 | 34.86 | --- | 1.3 |

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to | GW | SPH | DO |
|---------|------------|----------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|----------|-----------|-----------|---------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | Water | Elevation | Thickness | Reading |
| S-1 | 02/02/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | --- | --- | --- | --- | --- | 42.73 | 7.26 | 35.47 | --- | 1.4 |
| S-1 | 05/09/2000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 8.13 | 34.60 | --- | 1.0 |
| S-1 | 08/03/2000 | 209 | 6.42 | <0.500 | <0.500 | <0.500 | <2.50 | --- | --- | --- | --- | --- | 42.73 | 8.12 | 34.61 | --- | 1.4 |
| S-1 | 11/15/2000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 8.06 | 34.67 | --- | 1.0 |
| S-1 | 02/14/2001 | 179 | 4.46 | <0.500 | <0.500 | <0.500 | 8.72 | --- | --- | --- | --- | --- | 42.73 | 8.08 | 34.65 | --- | 1.1 |
| S-1 | 05/31/2001 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 8.05 | 34.68 | --- | 1.0 |
| S-1 | 08/15/2001 | 270 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 42.73 | 8.40 | 34.33 | --- | 1.3 |
| S-1 | 12/31/2001 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 7.42 | 35.31 | --- | 0.4 |
| S-1 | 02/06/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 42.73 | 7.60 | 35.13 | --- | 2.2 |
| S-1 | 06/04/2002 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.73 | 8.16 | 34.57 | --- | 0.8 |
| S-1 | 07/25/2002 | 230 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 42.57 | 7.84 | 34.73 | --- | 0.9 |
| S-1 | 11/27/2002 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 8.01 | 34.56 | --- | 0.6 |
| S-1 | 01/30/2003 | 310 | <0.50 | <0.50 | 3.6 | 1.6 | --- | <5.0 | --- | --- | --- | --- | 42.57 | 7.56 | 35.01 | --- | 1.5 |
| S-1 | 06/03/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 7.87 | 34.70 | --- | 1.6 |
| S-1 | 08/08/2003 | 730 | <0.50 | <0.50 | 12 | 6.4 | --- | <0.50 | --- | --- | --- | --- | 42.57 | 7.95 | 34.62 | --- | 1.3 |
| S-1 | 11/13/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 7.90 | 34.67 | --- | 0.8 |
| S-1 | 02/04/2004 | 220 | <0.50 | <0.50 | 1.8 | 1.1 | --- | <0.50 | --- | --- | --- | --- | 42.57 | 7.37 | 35.20 | --- | 1.2 |
| S-1 | 05/12/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 8.05 | 34.52 | --- | 1.1 |
| S-1 | 08/23/2004 | 110 d | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 42.57 | 8.10 | 34.47 | --- | 0.6 |
| S-1 | 12/01/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 7.84 | 34.73 | --- | --- |
| S-1 | 02/07/2005 | 53 d | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 42.57 | 7.48 | 35.09 | --- | 0.49 |
| S-1 | 05/02/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 8.05 | 34.52 | --- | --- |
| S-1 | 08/04/2005 | 850 | <0.50 | <0.50 | 4.5 | 1.0 | --- | <0.50 | --- | --- | --- | --- | 42.57 | 8.05 | 34.52 | --- | 0.01 |
| S-1 | 11/16/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 8.19 | 34.38 | --- | --- |
| S-1 | 03/02/2006 | 170 | <0.50 | <0.50 | 2.4 | 0.91 | --- | <0.50 | --- | --- | --- | --- | 42.57 | 7.58 | 34.99 | --- | 0.32 |
| S-1 | 05/31/2006 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 8.03 | 34.54 | --- | --- |
| S-1 | 08/29/2006 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | --- | <0.500 | --- | --- | --- | --- | 42.57 | 7.99 | 34.58 | --- | 1.05 |
| S-1 | 12/06/2006 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 8.07 | 34.50 | --- | 0.4 |
| S-1 | 01/30/2007 | 640 | <0.50 | <0.50 | 1.9 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 42.57 | 8.32 | 34.25 | --- | 1.20 |
| S-1 | 05/15/2007 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 7.85 | 34.72 | --- | 0.16 |
| S-1 | 08/29/2007 | 980 f | 0.37 g | <1.0 | 3.3 | <1.0 | --- | <1.0 | <10 | <2.0 | <2.0 | <2.0 | 42.57 | 7.87 | 34.70 | --- | 2.54 |
| S-1 | 11/29/2007 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 8.18 | 34.39 | --- | 0.28 |
| S-1 | 02/21/2008 | 430 f | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 42.57 | 7.94 | 34.63 | --- | 0.27 |
| S-1 | 05/06/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 8.00 | 34.57 | --- | 0.1 |
| S-1 | 08/27/2008 | 170 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 42.57 | 8.45 | 34.12 | --- | 0.21 |

TABLE 2

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to | GW | SPH | DO |
|---------|------------|----------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|----------|-----------|-----------|---------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | Water | Elevation | Thickness | Reading |
| S-1 | 11/24/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 8.49 | 34.08 | --- | 0.06 |
| S-1 | 01/28/2009 | 390 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 42.57 | 8.29 | 34.28 | --- | 1.70 |
| S-1 | 05/26/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42.57 | 8.11 | 34.46 | --- | --- |
| S-1 | 11/24/2009 | 230 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 42.57 | 8.34 | 34.23 | --- | 1.47 |
| S-1 | 05/26/2010 | 490 | <0.50 | <1.0 | 1.3 | 2.1 | --- | <1.0 | --- | --- | --- | --- | 42.57 | 7.99 | 34.58 | --- | 0.38 |
| S-1 | 11/30/2010 | 220 | 1.7 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 42.57 | 7.98 | 34.59 | --- | 0.65 |
| S-1 | 05/11/2011 | <50 | <0.50 | <0.50 | <0.50 | 1.0 | --- | <1.0 | --- | --- | --- | --- | 42.57 | 8.19 | 34.38 | --- | 1.49 |
| S-1 | 11/28/2011 | 56 | <0.500 | <0.500 | <0.500 | <0.500 | --- | <0.500 | --- | --- | --- | --- | 42.57 | 7.97 | 34.60 | --- | 1.62 |
| S-1 | 06/05/2012 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 42.57 | 8.22 | 34.35 | --- | 1.46 |
| S-2 | 05/13/1991 | 23,000 | 3,900 | 230 | 1,100 | 3,200 | --- | --- | --- | --- | --- | --- | 40.73 | 8.50 | 32.23 | --- | --- |
| S-2 | 08/23/1991 | 23,000 | 4,400 | 260 | 1,900 | 2,400 | --- | --- | --- | --- | --- | --- | 40.73 | 8.80 | 31.93 | --- | --- |
| S-2 | 11/07/1991 | 40,000 | 4,000 | 160 | 1,020 | 3,400 | --- | --- | --- | --- | --- | --- | 40.73 | 8.61 | 32.12 | --- | --- |
| S-2 | 01/28/1992 | 22,000 | 1,600 | 70 | 420 | 1,700 | --- | --- | --- | --- | --- | --- | 40.73 | 7.80 | 32.93 | --- | --- |
| S-2 | 05/06/1992 | 20,000 | 2,600 | 110 | 860 | 1,900 | --- | --- | --- | --- | --- | --- | 40.73 | 8.10 | 32.63 | --- | --- |
| S-2 | 08/26/1992 | 42,000 | 5,000 | 160 | 1,100 | 3,500 | --- | --- | --- | --- | --- | --- | 40.73 | 8.37 | 32.36 | --- | --- |
| S-2 | 10/28/1992 | 34,000 | 4,800 | 330 | 1,600 | 2,900 | --- | --- | --- | --- | --- | --- | 40.73 | 8.64 | 32.09 | --- | --- |
| S-2 | 01/19/1993 | 20,000 | 2,300 | 370 | 660 | 1,300 | --- | --- | --- | --- | --- | --- | 40.73 | 5.82 | 34.91 | --- | --- |
| S-2 | 04/29/1993 | 40,000 | 2,000 | 67 | 900 | 1,900 | --- | --- | --- | --- | --- | --- | 40.73 | 7.70 | 33.03 | --- | --- |
| S-2 | 07/22/1993 | 22,000 | 3,000 | 120 | 1,000 | 1,600 | --- | --- | --- | --- | --- | --- | 40.73 | 8.38 | 32.35 | --- | --- |
| S-2 (D) | 07/22/1993 | 17,000 | 3,000 | 110 | 1,000 | 1,500 | --- | --- | --- | --- | --- | --- | 40.73 | 8.38 | 32.35 | --- | --- |
| S-2 | 10/21/1993 | 14,000 | 2,800 | 74 | 870 | 1,100 | --- | --- | --- | --- | --- | --- | 40.73 | 8.58 | 32.15 | --- | --- |
| S-2 (D) | 10/21/1993 | 13,000 | 3,200 | 53 | 960 | 820 | --- | --- | --- | --- | --- | --- | 40.73 | 8.58 | 32.15 | --- | --- |
| S-2 | 01/04/1994 | 21,000 | 2,100 | 67 | 990 | 770 | --- | --- | --- | --- | --- | --- | 40.73 | 7.70 | 33.03 | --- | --- |
| S-2 (D) | 01/04/1994 | 22,000 | 2,000 | 64 | 910 | 750 | --- | --- | --- | --- | --- | --- | 40.73 | 7.70 | 33.03 | --- | --- |
| S-2 | 04/13/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 7.62 | 33.11 | --- | --- |
| S-2 | 07/25/1994 | 43,000 | 2,600 | 490 | 990 | 1,300 | --- | --- | --- | --- | --- | --- | 40.73 | 7.86 | 32.87 | --- | --- |
| S-2 | 10/10/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 8.12 | 32.61 | --- | --- |
| S-2 | 01/26/1995 | 21,000 | 790 | 12 | 290 | 570 | --- | --- | --- | --- | --- | --- | 40.73 | 6.38 | 34.35 | --- | 5.5 |
| S-2 | 04/21/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 7.01 | 33.72 | --- | --- |
| S-2 | 07/28/1995 | 14,000 | 2,400 | 360 | 960 | 370 | --- | --- | --- | --- | --- | --- | 40.73 | 7.82 | 32.91 | --- | 4 |
| S-2 | 10/31/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 7.57 | 33.16 | --- | --- |
| S-2 | 01/10/1996 | 17,000 | 1,400 | <50 | 480 | 170 | --- | --- | --- | --- | --- | --- | 40.73 | 8.13 | 32.60 | --- | 7.2 |
| S-2 | 04/25/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 7.72 | 33.01 | --- | --- |
| S-2 | 07/23/1996 | 16,000 | 2,700 | 69 | 1,100 | 110 | 9,500 | --- | --- | --- | --- | --- | 40.73 | 8.10 | 32.63 | --- | 2.2 |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to | GW | SPH | DO |
|---------|------------|----------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|----------|-----------|-----------|---------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | Water | Elevation | Thickness | Reading |
| S-2 (D) | 07/23/1996 | 11,000 | 2,600 | 68 | 1,000 | 96 | 10,000 | 11,000 | --- | --- | --- | --- | 40.73 | 8.10 | 32.63 | --- | 2.2 |
| S-2 | 12/10/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 8.57 | 32.16 | --- | 0.5 |
| S-2 | 02/20/1997 | 10,000 | 500 | <10 | 90 | 130 | 6,400 | --- | --- | --- | --- | --- | 40.73 | 8.15 | 32.58 | --- | 4 |
| S-2 | 05/22/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 8.79 | 31.94 | --- | 1.1 |
| S-2 | 08/22/1997 | 23,000 | 1,300 | 65 | 740 | 290 | 4,500 | --- | --- | --- | --- | --- | 40.73 | 8.05 | 32.68 | --- | 3.2 |
| S-2 (D) | 08/22/1997 | 20,000 | 1,200 | <100 | 630 | 250 | 3,900 | --- | --- | --- | --- | --- | 40.73 | 8.05 | 32.68 | --- | 3.2 |
| S-2 | 11/03/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 8.75 | 31.98 | --- | 1.2 |
| S-2 | 02/20/1998 | 450 | 28 | 1.3 | 7.4 | 12 | 35 | --- | --- | --- | --- | --- | 40.73 | 6.34 | 34.39 | --- | 0.4 |
| S-2 | 05/18/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 7.95 | 32.78 | --- | 0.8 |
| S-2 | 08/20/1998 | 22,000 | 290 | 44 | 420 | 410 | 7,300 | --- | --- | --- | --- | --- | 40.73 | 7.73 | 33.00 | --- | 1.9 |
| S-2 | 11/06/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 8.47 | 32.26 | --- | --- |
| S-2 | 02/16/1999 | 27,000 | 200 | <200 | 770 | 840 | 5,400 | --- | --- | --- | --- | --- | 40.73 | 7.24 | 33.49 | --- | 1.4 |
| S-2 | 05/28/1999 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 7.82 | 32.91 | --- | 1.3 |
| S-2 | 08/24/1999 | 13,400 | 196 | <25.0 | 439 | 113 | 597 | --- | --- | --- | --- | --- | 40.73 | 8.61 | 32.12 | --- | 1.2 |
| S-2 | 11/16/1999 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 8.17 | 32.56 | --- | 1.1 |
| S-2 | 02/02/2000 | 7,850 | 176 | 88.0 | 134 | 111 | 540 | --- | --- | --- | --- | --- | 40.73 | 7.57 | 33.16 | --- | 1.2 |
| S-2 | 05/09/2000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 7.94 | 32.79 | --- | 1.3 |
| S-2 | 08/03/2000 | 35,000 | 255 | 122 | 842 | 224 | 905 | 726 b | --- | --- | --- | --- | 40.73 | 8.07 | 32.66 | --- | 1.1 |
| S-2 | 11/15/2000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 8.13 | 32.60 | --- | 1.3 |
| S-2 | 02/14/2001 | 13,000 | 147 | <25.0 | 309 | 54.4 | 581 | --- | --- | --- | --- | --- | 40.73 | 6.39 | 34.34 | --- | 1.4 |
| S-2 | 05/31/2001 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 7.21 | 33.52 | --- | 1.5 |
| S-2 | 08/15/2001 | 15,000 | 67 | 4.1 | 220 | 33 | --- | 440 | --- | --- | --- | --- | 40.73 | 8.27 | 32.46 | --- | 0.6 |
| S-2 | 12/31/2001 | --- | --- | --- | --- | --- | --- | 270 | --- | --- | --- | --- | 40.73 | 6.07 | 34.66 | --- | 0.2 |
| S-2 | 02/06/2002 | 15,000 | 53 | 2.8 | 120 | 31 | --- | 220 | --- | --- | --- | --- | 40.73 | 7.98 | 32.75 | --- | 1.8 |
| S-2 | 06/04/2002 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.73 | 6.70 | 34.03 | --- | 0.2 |
| S-2 | 07/25/2002 | 9,000 | 75 | 4.0 | 180 | 24 | --- | 460 | --- | --- | --- | --- | 40.63 | 7.67 | 32.96 | --- | 0.9 |
| S-2 | 11/27/2002 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.63 | 7.84 | 32.79 | --- | 0.7 |
| S-2 | 01/30/2003 | 15,000 | 26 | <2.5 | 92 | 22 | --- | 210 | --- | --- | --- | --- | 40.63 | 7.29 | 33.34 | --- | 15.6 |
| S-2 | 06/03/2003 | 17,000 | <25 | <25 | 130 | <50 | --- | 290 | --- | --- | --- | --- | 40.63 | 7.87 | 32.76 | --- | 5.4 |
| S-2 | 08/08/2003 | 4,500 | <2.5 | <2.5 | 9.4 | <5.0 | --- | 140 | --- | --- | --- | --- | 40.63 | 8.18 | 32.45 | --- | 16.2 |
| S-2 | 11/13/2003 | 10,000 | 18 | <10 | 47 | 21 | --- | 180 | --- | --- | --- | --- | 40.63 | 7.98 | 32.65 | --- | 19.5 |
| S-2 | 02/04/2004 | 5,700 | 54 | <10 | 54 | <20 | --- | 270 | --- | --- | --- | --- | 40.63 | 7.21 | 33.42 | --- | >15 |
| S-2 | 05/12/2004 | 8,200 | 18 | <10 | <10 | <20 | --- | 250 | --- | --- | --- | --- | 40.63 | 8.07 | 32.56 | --- | 3.1 |
| S-2 | 08/23/2004 | 4,100 | <10 | <10 | <10 | <20 | --- | 84 | <100 | <40 | <40 | <40 | 40.63 | 8.52 | 32.11 | --- | 10.7 |
| S-2 | 12/01/2004 | 2,000 | 3.4 | <2.5 | 6.2 | <5.0 | --- | 77 | --- | --- | --- | --- | 40.63 | 8.70 | 31.93 | --- | 11.8 |

TABLE 2

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to Water (ft TOC) | GW Elevation (ft MSL) | SPH Thickness (ft) | DO Reading (mg/L) |
|---------|------------|----------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|--------------------------|-------------------------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | | | | |
| S-2 | 02/07/2005 | 7,400 | 32 | 1.6 | 29 | 3.1 | --- | 210 | --- | --- | --- | --- | 40.63 | 7.58 | 33.05 | --- | 0.11 |
| S-2 | 05/02/2005 | 8,100 | 84 | 4.9 | 83 | 5.5 | --- | 320 | --- | --- | --- | --- | 40.63 | 7.45 | 33.18 | --- | 0.6 |
| S-2 | 08/04/2005 | 4,900 | 48 | 2.1 | 19 | 2.8 | --- | 330 | 55 | <4.0 | <4.0 | <4.0 | 40.63 | 7.90 | 32.73 | --- | 0.4 |
| S-2 | 11/16/2005 | 13,700 | 43.8 | 2.79 | 25.1 | 5.92 | --- | 156 | --- | --- | --- | --- | 40.63 | 8.33 | 32.30 | --- | 0.5 |
| S-2 | 03/02/2006 | 5,800 | 44 | 3.2 | 20 | 5.6 | --- | 190 | --- | --- | --- | --- | 40.63 | 6.74 | 33.89 | --- | 0.63 |
| S-2 | 05/31/2006 | 11,100 | 72.0 | 4.20 | 22.4 | 5.36 | --- | 308 | --- | --- | --- | --- | 40.63 | 7.46 | 33.17 | --- | 0.6 |
| S-2 | 08/29/2006 | 37,400 | 72.1 | 5.08 | 39.6 | 6.89 | --- | 377 | 46.7 | <0.500 | <0.500 | <0.500 | 40.63 | 8.02 | 32.61 | --- | 0.70 |
| S-2 | 12/06/2006 | 5,000 | 41 | 3.2 | 11 | 5.2 | --- | 170 | --- | --- | --- | --- | 40.63 | 8.04 | 32.59 | --- | 0.5 |
| S-2 | 01/30/2007 | 4,200 | 24 | 1.7 | 5.9 | 2.3 | --- | 140 | --- | --- | --- | --- | 40.63 | 8.08 | 32.55 | --- | 0.11 |
| S-2 | 05/15/2007 | 8,100 f | 48 | 3.5 | 19 | 6.2 g | --- | 180 | --- | --- | --- | --- | 40.63 | 8.05 | 32.58 | --- | 0.11 |
| S-2 | 08/29/2007 | 8,400 f | 60 | 3.8 | 12 | 4.68 g | --- | 270 | 64 | <4.0 | <4.0 | <4.0 | 40.63 | 8.01 | 32.62 | --- | 1.02 |
| S-2 | 11/29/2007 | 4,100 f | 48 | 4.8 h | 11 | 12.3 | --- | 280 | --- | --- | --- | --- | 40.63 | 8.25 | 32.38 | --- | 0.55 |
| S-2 | 02/21/2008 | 7,300 f | 57 | 4.0 | 13 | 4.7 | --- | 250 | --- | --- | --- | --- | 40.63 | 7.25 | 33.38 | --- | 0.40 |
| S-2 | 05/06/2008 | 8,900 | 42 | 3.1 | 9.8 | 4.1 | --- | 270 | --- | --- | --- | --- | 40.63 | 6.30 | 34.34 | 0.01 | 0.10/2.0 |
| S-2 | 08/27/2008 | 9,400 | 67 | <5.0 | 27 | 6.0 | --- | 240 | 67 | <10 | <10 | <10 | 40.63 | 8.33 | 32.30 | --- | 0.15 |
| S-2 | 11/24/2008 | 7,100 | 55 | <5.0 | 9.3 | <5.0 | --- | 210 | --- | --- | --- | --- | 40.63 | 8.43 | 32.20 | --- | 0.7 |
| S-2 | 01/28/2009 | 6,000 | 29 | <5.0 | 6.5 | <5.0 | --- | 130 | --- | --- | --- | --- | 40.63 | 8.19 | 32.44 | --- | 0.15 |
| S-2 | 05/26/2009 | 20,000 | 52 | 3.2 | 13 | 6.0 | --- | 330 | --- | --- | --- | --- | 40.63 | 7.85 | 32.78 | --- | 0.43 |
| S-2 | 11/24/2009 | 5,200 | 19 | <2.0 | 6.8 | 4.7 | --- | 120 | 80 | <4.0 | <4.0 | <4.0 | 40.63 | 8.32 | 32.31 | --- | 0.18 |
| S-2 | 05/26/2010 | 7,500 | 78 | <5.0 | 11 | <5.0 | --- | 330 | --- | --- | --- | --- | 40.63 | 7.62 | 33.01 | --- | 0.34 |
| S-2 | 11/30/2010 | 7,000 | 32 | 2.7 | 4.5 | 5.0 | --- | 170 | 86 | <4.0 | <4.0 | <4.0 | 40.63 | 7.74 | 32.89 | --- | 0.65 |
| S-2 | 05/11/2011 | 13,000 | 61 | 4.0 | 16 | 7.0 | --- | 210 | --- | --- | --- | --- | 40.63 | 7.60 | 33.03 | --- | 0.97 |
| S-2 | 11/28/2011 | 4,800 | 31.0 | 2.65 | 5.73 | 7.13 | --- | 143 | <10.0 | <0.500 | <0.500 | <0.500 | 40.63 | 7.70 | 32.93 | --- | 1.08 |
| S-2 | 06/05/2012 | 9,100 | 71 | 4.6 | 16 | 8.3 | --- | 280 | --- | --- | --- | --- | 40.63 | 7.89 | 32.74 | --- | 0.88 |
| S-3 | 05/13/1991 | 3,300 | 30 | 3.6 | 26 | 13 | --- | --- | --- | --- | --- | --- | 41.46 | 7.90 | 33.56 | --- | --- |
| S-3 | 08/23/1991 | 2,000 | 25 | 4.0 | 9.3 | 4.5 | --- | --- | --- | --- | --- | --- | 41.46 | 8.14 | 33.32 | --- | --- |
| S-3 | 11/07/1991 | 4,000 | 20 | 3.9 | 5.0 | 4.9 | --- | --- | --- | --- | --- | --- | 41.46 | 7.91 | 33.55 | --- | --- |
| S-3 | 01/28/1992 | 2,100 | 21 | 7.6 | 6.7 | 15 | --- | --- | --- | --- | --- | --- | 41.46 | 7.53 | 33.93 | --- | --- |
| S-3 (D) | 01/28/1992 | 2,100 | 18 | 6.1 | 7.1 | 14 | --- | --- | --- | --- | --- | --- | 41.46 | 7.53 | 33.93 | --- | --- |
| S-3 | 05/06/1992 | 6,600 | 38 | 51 | 45 | 65 | --- | --- | --- | --- | --- | --- | 41.46 | 7.55 | 33.91 | --- | --- |
| S-3 | 08/26/1992 | 5,800 | 18 | 12 | 29 | 60 | --- | --- | --- | --- | --- | --- | 41.46 | 7.53 | 33.93 | --- | --- |
| S-3 | 10/28/1992 | 3,000 | 55 | 11 | 16 | 32 | --- | --- | --- | --- | --- | --- | 41.46 | 7.95 | 33.51 | --- | --- |
| S-3 | 01/19/1993 | 3,100 | <5 | 5.1 | 11 | 16 | --- | --- | --- | --- | --- | --- | 41.46 | 6.12 | 35.34 | --- | --- |
| S-3 | 04/29/1993 | 3,000 | 31 | 22 | <5 | 14 | --- | --- | --- | --- | --- | --- | 41.46 | 7.27 | 34.19 | --- | --- |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to | GW | SPH | DO |
|---------|------------|----------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------|-----------------------|-------------------|-------------------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | Water (ft TOC) | Elevation (ft MSL) | Thickness (ft) | Reading (mg/L) |
| S-3 | 07/22/1993 | 2,600 | 3.1 | 43 | 23 | 53 | --- | --- | --- | --- | --- | --- | 41.46 | 7.62 | 33.84 | --- | --- |
| S-3 | 10/21/1993 | 2,500 | 73 | 14 | 16 | 32 | --- | --- | --- | --- | --- | --- | 41.46 | 7.81 | 33.65 | --- | --- |
| S-3 | 01/04/1994 | 4,800 | 13 | 21 | <12.5 | 33 | --- | --- | --- | --- | --- | --- | 41.46 | 7.49 | 33.97 | --- | --- |
| S-3 | 04/13/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 7.32 | 34.14 | --- | --- |
| S-3 | 07/25/1994 | 2,600 | 6.1 | 4.0 | 3.8 | 12 | --- | --- | --- | --- | --- | --- | 41.46 | 7.66 | 33.80 | --- | --- |
| S-3 | 10/10/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 7.49 | 33.97 | --- | --- |
| S-3 | 01/26/1995 | 3,600 | 30 | 6.8 | 5.6 | 19 | --- | --- | --- | --- | --- | --- | 41.46 | 6.50 | 34.96 | --- | --- |
| S-3 (D) | 01/26/1995 | 2,200 | 9.9 | 15 | 14 | 22 | --- | --- | --- | --- | --- | --- | 41.46 | 6.50 | 34.96 | --- | --- |
| S-3 | 04/21/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 6.79 | 34.67 | --- | --- |
| S-3 | 07/28/1995 | 3,700 | 27 | 9.3 | 20 | 34 | --- | --- | --- | --- | --- | --- | 41.46 | 7.28 | 34.18 | --- | 4 |
| S-3 | 10/31/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 6.74 | 34.72 | --- | --- |
| S-3 | 01/10/1996 | 4,000 | 10 | <0.50 | 13 | 28 | --- | --- | --- | --- | --- | --- | 41.46 | 7.48 | 33.98 | --- | 6.1 |
| S-3 | 04/25/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 6.90 | 34.56 | --- | --- |
| S-3 | 07/23/1996 | 2,100 | 20 | <0.50 | <0.50 | <0.50 | <25 | --- | --- | --- | --- | --- | 41.46 | 7.04 | 34.42 | --- | 2.1 |
| S-3 | 12/10/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 7.96 | 33.50 | --- | 0.7 |
| S-3 | 02/20/1997 | 3,500 | 83 | <5.0 | 18 | 16 | 130 | --- | --- | --- | --- | --- | 41.46 | 7.44 | 34.02 | --- | 3 |
| S-3 (D) | 02/20/1997 | 3,000 | 69 | <5.0 | 14 | 12 | 70 | --- | --- | --- | --- | --- | 41.46 | 7.44 | 34.02 | --- | 3 |
| S-3 | 05/22/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 7.13 | 34.33 | --- | 0.6 |
| S-3 | 08/22/1997 | 4,700 | 60 | 12 | 19 | 21 | 40 | --- | --- | --- | --- | --- | 41.46 | 6.81 | 34.65 | --- | 2.9 |
| S-3 | 11/03/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 7.40 | 34.06 | --- | 0.9 |
| S-3 | 02/20/1998 | 3,400 | <10 | <10 | 14 | 18 | 85 | --- | --- | --- | --- | --- | 41.46 | 6.55 | 34.91 | --- | 0.8 |
| S-3 (D) | 02/20/1998 | 3,100 | 8.6 | 7.8 | 12 | 16 | 57 | --- | --- | --- | --- | --- | 41.46 | 6.55 | 34.91 | --- | 0.8 |
| S-3 | 05/18/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 6.81 | 34.65 | --- | 0.7 |
| S-3 | 08/20/1998 | 4,400 | 67 | 23 | 9.8 | 22 | 240 | --- | --- | --- | --- | --- | 41.46 | 6.98 | 34.48 | --- | 2.2 |
| S-3 | 11/06/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 6.96 | 34.50 | --- | --- |
| S-3 | 02/16/1999 | 2,000 | 6.9 | 6.2 | 3.7 | 4.8 | 47 | --- | --- | --- | --- | --- | 41.46 | 6.93 | 34.53 | --- | 2.0 |
| S-3 | 05/28/1999 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 6.74 | 34.72 | --- | 1.8 |
| S-3 | 08/24/1999 | 4,170 | 54.8 | 14.2 | 6.65 | 13.7 | 43.4 | --- | --- | --- | --- | --- | 41.46 | 9.05 | 32.41 | --- | 1.9 |
| S-3 | 11/16/1999 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 7.09 | 34.37 | --- | 1.6 |
| S-3 | 02/02/2000 | 2,410 | 133 | 112 | 24.9 | 104 | 46.0 | --- | --- | --- | --- | --- | 41.46 | 6.59 | 34.87 | --- | 1.9 |
| S-3 | 05/09/2000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 7.13 | 34.33 | --- | 1.9 |
| S-3 | 08/03/2000 | 3,890 | 17.2 | 21.9 | <10.0 | <10.0 | 166 | --- | --- | --- | --- | --- | 41.46 | 6.82 | 34.64 | --- | 1.8 |
| S-3 | 11/15/2000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 6.98 | 34.48 | --- | 1.6 |
| S-3 | 02/14/2001 | 2,800 | 35.8 | 5.57 | 3.83 | 2.94 | 1,070 | 1,250 | --- | --- | --- | --- | 41.46 | 6.57 | 34.89 | --- | 1.1 |
| S-3 | 05/31/2001 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.46 | 6.72 | 34.74 | --- | 1.6 |

TABLE 2

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to | GW | SPH | DO |
|---------|------------|----------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------|-----------------------|-------------------|-------------------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | Water (ft TOC) | Elevation (ft MSL) | Thickness (ft) | Reading (mg/L) |
| S-3 | 08/15/2001 | 2,700 | 2.0 | 0.52 | <0.50 | 2.0 | --- | 140 | --- | --- | --- | --- | 41.46 | 7.44 | 34.02 | --- | 0.6 |
| S-3 | 12/31/2001 | 2,300 | <2.0 | <2.0 | <2.0 | <2.0 | --- | 470 | --- | --- | --- | --- | 41.46 | 6.62 | 34.84 | --- | 0.6 |
| S-3 | 02/06/2002 | 2,000 | 2.6 | 1.6 | 4.3 | 7.8 | --- | 170 | --- | --- | --- | --- | 41.46 | 7.22 | 34.24 | --- | 2.2 |
| S-3 | 06/04/2002 | 2,400 | 1.0 | 1.1 | 0.54 | 4.5 | --- | 120 | --- | --- | --- | --- | 41.46 | 7.34 | 34.12 | --- | 0.5 |
| S-3 | 07/25/2002 | 3,100 | 0.86 | <0.50 | <0.50 | 2.0 | --- | 92 | --- | --- | --- | --- | 41.37 | 6.98 | 34.39 | --- | 1.0 |
| S-3 | 11/27/2002 | 2,600 | 2.0 | 0.55 | <0.50 | 2.1 | --- | 44 | --- | --- | --- | --- | 41.37 | 7.62 | 33.75 | --- | 0.7 |
| S-3 | 01/30/2003 | 1,200 | 2.1 | 1.3 | 1.6 | 3.4 | --- | 42 | --- | --- | --- | --- | 41.37 | 7.14 | 34.23 | --- | 13.6 |
| S-3 | 06/03/2003 | 2,700 | 2.9 | <0.50 | 0.50 | 2.8 | --- | 43 | --- | --- | --- | --- | 41.37 | 7.25 | 34.12 | --- | 1.7 |
| S-3 | 08/08/2003 | 1,400 | 2.4 | 0.71 | <0.50 | 2.2 | --- | 32 | --- | --- | --- | --- | 41.37 | 7.67 | 33.70 | --- | >20 |
| S-3 | 11/13/2003 | 5,200 | 5.1 | 2.4 | <1.0 | 5.6 | --- | 69 | --- | --- | --- | --- | 41.37 | 7.56 | 33.81 | --- | 19.6 |
| S-3 | 02/04/2004 | 2,800 | 1.9 | <1.0 | 1.0 | 2.6 | --- | 20 | --- | --- | --- | --- | 41.37 | 7.12 | 34.25 | --- | >15 |
| S-3 | 05/12/2004 | 1,900 | 2.8 | <1.0 | <1.0 | 2.2 | --- | 9.7 | --- | --- | --- | --- | 41.37 | 7.94 | 33.43 | --- | 4.0 |
| S-3 | 08/23/2004 | 1,400 | 7.6 | 1.1 | <1.0 | 2.9 | --- | 13 | <10 | <4.0 | <4.0 | <4.0 | 41.37 | 8.09 | 33.28 | --- | 13.3 |
| S-3 | 12/01/2004 | 950 | 1.9 | <1.0 | <1.0 | <2.0 | --- | 5.6 | --- | --- | --- | --- | 41.37 | 8.21 | 33.16 | --- | 13.0 |
| S-3 | 02/07/2005 | 1,800 | 1.4 | <1.0 | <1.0 | 2.1 | --- | 9.9 | --- | --- | --- | --- | 41.37 | 7.69 | 33.68 | --- | 0.25 |
| S-3 | 05/02/2005 | 4,000 | 2.3 | 1.1 | 1.6 | 3.0 | --- | 9.9 | --- | --- | --- | --- | 41.37 | 7.20 | 34.17 | --- | 0.5 |
| S-3 | 08/04/2005 | 3,600 | 2.1 | <1.0 | <2.0 | 3.6 | --- | 8.5 | 33 | <4.0 | <4.0 | <4.0 | 41.37 | 8.14 | 33.23 | --- | 0.2 |
| S-3 | 11/16/2005 | 6,000 | 2.24 | 0.800 | 0.660 | 3.35 | --- | 3.83 | --- | --- | --- | --- | 41.37 | 8.39 | 32.98 | --- | 0.6 |
| S-3 | 03/02/2006 | 1,500 | 1.3 | <0.50 | 0.57 | 2.0 | --- | 5.1 | --- | --- | --- | --- | 41.37 | 7.09 | 34.28 | --- | 0.52 |
| S-3 | 05/31/2006 | 5,560 | 1.71 | 0.730 | 1.24 | 3.89 | --- | 8.01 e | --- | --- | --- | --- | 41.37 | 7.95 | 33.42 | --- | 0.5 |
| S-3 | 08/29/2006 | 4,850 | 1.82 | 0.680 | 1.19 | 2.22 | --- | 3.16 | <10.0 | <0.500 | <0.500 | <0.500 | 41.37 | 6.35 | 35.02 | --- | 0.88 |
| S-3 | 12/06/2006 | 2,900 | 1.1 | <0.50 | <0.50 | 2.2 | --- | <0.50 | --- | --- | --- | --- | 41.37 | 8.41 | 32.96 | --- | 0.3 |
| S-3 | 01/30/2007 | 2,100 | 1.0 | <0.50 | 0.53 | 1.8 | --- | 5.7 | --- | --- | --- | --- | 41.37 | 8.31 | 33.06 | --- | 0.36 |
| S-3 | 05/15/2007 | 3,500 f | 1.1 | 0.51 g | 0.76 g | 2.38 g | --- | 8.0 | --- | --- | --- | --- | 41.37 | 7.60 | 33.77 | --- | 0.11 |
| S-3 | 08/29/2007 | <50 f | 1.5 | 0.48 g | 0.50 g | 2.81 g | --- | <1.0 | <10 | <2.0 | <2.0 | <2.0 | 41.37 | 8.64 | 32.73 | --- | 0.57 |
| S-3 | 11/29/2007 | 3,800 f | 1.8 | 0.80 g,h | 0.65 g | 3.34 g | --- | 5.9 | --- | --- | --- | --- | 41.37 | 8.36 | 33.01 | --- | 0.22 |
| S-3 | 02/21/2008 | 2,900 f | 0.60 | <1.0 | <1.0 | 1.2 | --- | 5.0 | --- | --- | --- | --- | 41.37 | 7.35 | 34.02 | --- | 0.44 |
| S-3 | 05/06/2008 | 2,400 | 1.2 | <1.0 | <1.0 | 1.7 | --- | <1.0 | --- | --- | --- | --- | 41.37 | 8.00 | 33.37 | --- | 0.2/1.4 |
| S-3 | 08/27/2008 | 3,100 | 1.5 | <1.0 | <1.0 | 2.3 | --- | <1.0 | <10 | <2.0 | <2.0 | <2.0 | 41.37 | 8.56 | 32.81 | --- | 0.13 |
| S-3 | 11/24/2008 | 2,900 | 1.5 | <1.0 | <1.0 | 2.2 | --- | <1.0 | --- | --- | --- | --- | 41.37 | 8.71 | 32.66 | --- | 0.32 |
| S-3 | 01/28/2009 | 3,900 | 1.4 | <1.0 | <1.0 | 2.2 | --- | <1.0 | --- | --- | --- | --- | 41.37 | 8.22 | 33.15 | --- | 0.48 |
| S-3 | 05/26/2009 | 3,600 | 1.1 | <1.0 | <1.0 | 1.5 | --- | 5.2 | --- | --- | --- | --- | 41.37 | 8.23 | 33.14 | --- | 1.54 |
| S-3 | 11/24/2009 | 2,200 | 0.98 | <1.0 | <1.0 | 1.7 | --- | <1.0 | <10 | <2.0 | <2.0 | <2.0 | 41.37 | 8.71 | 32.66 | --- | 0.42 |
| S-3 | 05/26/2010 | 2,800 | 1.0 | <1.0 | <1.0 | 2.4 | --- | 7.8 | --- | --- | --- | --- | 41.37 | 7.80 | 33.57 | --- | 0.32 |
| S-3 | 11/30/2010 | 3,800 | 0.94 | <1.0 | <1.0 | 1.9 | --- | 4.5 | <10 | <2.0 | <2.0 | <2.0 | 41.37 | 7.65 | 33.72 | --- | 0.87 |

TABLE 2

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to | GW | SPH | DO |
|---------|------------|----------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|----------|-----------|-----------|---------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | Water | Elevation | Thickness | Reading |
| S-3 | 05/11/2011 | 3,000 | 0.77 | 0.51 | <0.50 | 1.8 | --- | 7.4 | --- | --- | --- | --- | 41.37 | 8.01 | 33.36 | --- | 0.80 |
| S-3 | 11/28/2011 | 1,800 | 0.720 | 0.500 | <0.500 | 2.51 | --- | 4.20 | <10.0 | <0.500 | <0.500 | <0.500 | 41.37 | 7.84 | 33.53 | --- | 0.73 |
| S-3 | 06/05/2012 | 2,700 | <0.50 | <0.50 | <0.50 | 1.2 | --- | 5.9 | --- | --- | --- | --- | 41.37 | 8.30 | 33.07 | --- | 0.65 |
| S-4 | 05/13/1991 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 7.44 | 33.66 | --- | --- |
| S-4 | 08/23/1991 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 8.32 | 32.78 | --- | --- |
| S-4 | 11/07/1991 | 260 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 8.32 | 32.78 | --- | --- |
| S-4 | 01/28/1992 | 110 d | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 7.40 | 33.70 | --- | --- |
| S-4 | 05/06/1992 | 54 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 7.21 | 33.89 | --- | --- |
| S-4 | 08/26/1992 | 67 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 8.13 | 32.97 | --- | --- |
| S-4 | 10/28/1992 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 8.73 | 32.37 | --- | --- |
| S-4 | 01/19/1993 | 86 | 1.2 | 0.70 | 2.7 | 15 | --- | --- | --- | --- | --- | --- | 41.10 | 5.86 | 35.24 | --- | --- |
| S-4 | 04/29/1993 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 7.02 | 34.08 | --- | --- |
| S-4 (D) | 04/29/1993 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 7.02 | 34.08 | --- | --- |
| S-4 | 07/22/1993 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 7.76 | 33.34 | --- | --- |
| S-4 | 10/21/1993 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 8.53 | 32.57 | --- | --- |
| S-4 | 01/04/1994 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 7.92 | 33.18 | --- | --- |
| S-4 | 04/13/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.71 | 33.39 | --- | --- |
| S-4 | 07/25/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.82 | 33.28 | --- | --- |
| S-4 | 10/10/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 8.15 | 32.95 | --- | --- |
| S-4 | 01/26/1995 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 41.10 | 5.73 | 35.37 | --- | --- |
| S-4 | 04/21/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 6.26 | 34.84 | --- | --- |
| S-4 | 07/28/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.80 | 33.30 | --- | --- |
| S-4 | 10/31/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 8.45 | 32.65 | --- | --- |
| S-4 | 01/10/1996 | <50 | 1.0 | 2.8 | <0.50 | 2.1 | --- | --- | --- | --- | --- | --- | 41.10 | 8.26 | 32.84 | --- | 2.8 |
| S-4 | 04/25/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.14 | 33.96 | --- | --- |
| S-4 | 07/23/1996 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- | --- | --- | --- | 41.10 | 8.18 | 32.92 | --- | 3.8 |
| S-4 | 12/10/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.04 | 34.06 | --- | 3.9 |
| S-4 | 02/20/1997 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 6.7 | --- | --- | --- | --- | --- | 41.10 | 7.07 | 34.03 | --- | 5 |
| S-4 | 05/22/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 6.63 | 34.47 | --- | 0.8 |
| S-4 | 08/22/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.69 | 33.41 | --- | 3.7 |
| S-4 | 11/03/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 8.26 | 32.84 | --- | 1.3 |
| S-4 | 02/20/1998 | 130 | 6.9 | 4.6 | 5.2 | 17 | 2.8 | --- | --- | --- | --- | --- | 41.10 | 5.57 | 35.53 | --- | 1.8 |
| S-4 | 05/18/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.13 | 33.97 | --- | 1.4 |
| S-4 | 08/20/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.77 | 33.33 | --- | 4.0 |

TABLE 2

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to | GW | SPH | DO |
|---------|------------|----------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|----------|-----------|-----------|---------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | Water | Elevation | Thickness | Reading |
| S-4 | 11/06/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.85 | 33.25 | --- | --- |
| S-4 | 02/16/1999 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 23 | --- | --- | --- | --- | --- | 41.10 | 6.51 | 34.59 | --- | 3.6 |
| S-4 | 05/28/1999 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.00 | 34.10 | --- | 3.2 |
| S-4 | 08/24/1999 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 9.13 | 31.97 | --- | 1.9 |
| S-4 | 11/16/1999 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.79 | 33.31 | --- | 1.7 |
| S-4 | 02/02/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | --- | --- | --- | --- | --- | 41.10 | 7.19 | 33.91 | --- | 1.9 |
| S-4 | 05/09/2000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.51 | 33.59 | --- | 1.8 |
| S-4 | 08/03/2000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.83 | 33.27 | --- | 1.9 |
| S-4 | 11/15/2000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.69 | 33.41 | --- | 1.5 |
| S-4 | 02/14/2001 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | --- | --- | --- | --- | --- | 41.10 | 6.20 | 34.90 | --- | 1.6 |
| S-4 | 05/31/2001 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 6.56 | 34.54 | --- | 1.6 |
| S-4 | 08/15/2001 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.90 | 33.20 | --- | 0.6 |
| S-4 | 12/31/2001 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 5.62 | 35.48 | --- | 2.7 |
| S-4 | 02/06/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 41.10 | 7.29 | 33.81 | --- | 0.2 |
| S-4 | 06/04/2002 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.10 | 7.45 | 33.65 | --- | 0.6 |
| S-4 | 07/25/2002 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.39 | 33.65 | --- | 0.8 |
| S-4 | 11/27/2002 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.60 | 33.44 | --- | --- |
| S-4 | 01/30/2003 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 41.04 | 8.45 | 32.59 | --- | --- |
| S-4 | 06/03/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 6.82 | 34.22 | --- | --- |
| S-4 | 08/08/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.36 | 33.68 | --- | --- |
| S-4 | 11/13/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.56 | 33.48 | --- | --- |
| S-4 | 02/04/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 41.04 | 6.47 | 34.57 | --- | --- |
| S-4 | 05/12/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.10 | 33.94 | --- | --- |
| S-4 | 08/23/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.60 | 33.44 | --- | --- |
| S-4 | 12/01/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.23 | 33.81 | --- | --- |
| S-4 | 02/07/2005 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 41.04 | 6.12 | 34.92 | --- | --- |
| S-4 | 05/02/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 6.50 | 34.54 | --- | --- |
| S-4 | 08/04/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.13 | 33.91 | --- | --- |
| S-4 | 11/16/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.43 | 33.61 | --- | --- |
| S-4 | 03/02/2006 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <0.50 | --- | --- | --- | --- | 41.04 | 6.05 | 34.99 | --- | --- |
| S-4 | 05/31/2006 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 6.64 | 34.40 | --- | --- |
| S-4 | 08/29/2006 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.25 | 33.79 | --- | --- |
| S-4 | 12/06/2006 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.39 | 33.65 | --- | --- |
| S-4 | 01/30/2007 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 41.04 | 7.24 | 33.80 | --- | --- |
| S-4 | 05/15/2007 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 6.60 | 34.44 | --- | --- |

TABLE 2

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE 8020 (µg/L) | MTBE 8260 (µg/L) | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to Water (ft TOC) | GW Elevation (ft MSL) | SPH Thickness (ft) | DO Reading (mg/L) |
|---------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|--------------------------|-------------------------|
| S-4 | 08/29/2007 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.42 | 33.62 | --- | --- |
| S-4 | 11/29/2007 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.22 | 33.82 | --- | --- |
| S-4 | 02/21/2008 | <50 f | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 41.04 | 6.20 | 34.84 | --- | --- |
| S-4 | 05/06/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.19 | 33.85 | --- | --- |
| S-4 | 08/27/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.52 | 33.52 | --- | --- |
| S-4 | 11/24/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 7.73 | 33.31 | --- | --- |
| S-4 | 01/28/2009 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 41.04 | 7.21 | 33.83 | --- | --- |
| S-4 | 05/26/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 6.95 | 34.09 | --- | --- |
| S-4 | 11/24/2009 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 41.04 | 7.43 | 33.61 | --- | --- |
| S-4 | 05/26/2010 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41.04 | 6.68 | 34.36 | --- | --- |
| S-4 | 11/30/2010 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 41.04 | 6.87 | 34.17 | --- | --- |
| S-4 | 05/11/2011 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 41.04 | 6.90 | 34.14 | --- | --- |
| S-4 | 11/28/2011 | <50 | <0.500 | <0.500 | <0.500 | <0.500 | --- | 4.76 | --- | --- | --- | --- | 41.04 | 7.00 | 34.04 | --- | --- |
| S-4 | 06/05/2012 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 41.04 | 7.11 | 33.93 | --- | --- |
| S-5 | 05/13/1991 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 14.60 | 30.57 | 6.48 | --- |
| S-5 | 08/23/1991 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 15.14 | 29.25 | 5.50 | --- |
| S-5 | 11/07/1991 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 15.10 | 29.17 | 5.35 | --- |
| S-5 | 01/28/1992 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 14.05 | 29.86 | 4.90 | --- |
| S-5 | 05/06/1992 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 14.31 | 30.21 | 5.66 | --- |
| S-5 | 08/26/1992 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 14.26 | 28.77 | 3.80 | --- |
| S-5 | 10/28/1992 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 14.22 | 28.82 | 3.81 | --- |
| S-5 | 01/19/1993 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 12.36 | 30.80 | 3.96 | --- |
| S-5 | 04/29/1993 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 9.64 | 31.07 | 0.90 | --- |
| S-5 | 07/22/1993 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 9.55 | 31.16 | 0.90 | --- |
| S-5 | 10/21/1993 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 11.23 | 29.34 | 0.73 | --- |
| S-5 | 01/04/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 11.69 | 29.82 | 1.90 | --- |
| S-5 | 04/13/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 11.42 | 29.87 | 1.62 | --- |
| S-5 | 07/25/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 12.01 | 29.41 | 1.79 | --- |
| S-5 | 10/10/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 12.05 | 29.38 | 1.80 | --- |
| S-5 | 01/26/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 8.42 | 32.95 | 1.72 | --- |
| S-5 | 04/21/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 10.03 | 30.90 | 1.17 | --- |
| S-5 | 07/28/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 11.42 | 30.07 | 1.87 | --- |
| S-5 | 10/31/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 13.21 | 27.21 | 0.54 | --- |
| S-5 | 01/10/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 12.05 | 28.04 | 0.13 | --- |

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE 8020 (µg/L) | MTBE 8260 (µg/L) | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to Water (ft TOC) | GW Elevation (ft MSL) | SPH Thickness (ft) | DO Reading (mg/L) |
|---------|------------|--------------------------|-------------|-------------|-------------|-------------|------------------------|------------------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|--------------------------|-------------------------|
| S-5 | 10/21/1993 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 11.23 | 29.34 | 0.73 | --- |
| S-5 | 01/04/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 11.69 | 29.82 | 1.90 | --- |
| S-5 | 04/13/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 11.42 | 29.87 | 1.62 | --- |
| S-5 | 07/25/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 12.01 | 29.41 | 1.79 | --- |
| S-5 | 10/10/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 12.05 | 29.38 | 1.80 | --- |
| S-5 | 01/26/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 8.42 | 32.95 | 1.72 | --- |
| S-5 | 04/21/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 10.03 | 30.90 | 1.17 | --- |
| S-5 | 07/28/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 11.42 | 30.07 | 1.87 | --- |
| S-5 | 10/31/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 13.21 | 27.21 | 0.54 | --- |
| S-5 | 01/10/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 12.05 | 28.04 | 0.13 | --- |
| S-5 | 04/25/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 9.68 | 30.33 | 0.03 | --- |
| S-5 | 07/23/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 9.82 | 30.20 | 0.04 | --- |
| S-5 | 12/10/1996 | 270,000 | 8,800 | 29,000 | 5,200 | 37,000 | <2,500 | --- | --- | --- | --- | --- | 39.99 | 9.10 | 30.91 | 0.03 | --- |
| S-5 (D) | 12/10/1996 | 400,000 | 9,200 | 32,000 | 7,200 | 50,000 | <2,500 | --- | --- | --- | --- | --- | 39.99 | 9.10 | 30.91 | 0.03 | --- |
| S-5 | 02/20/1997 | 88,000 | 2,000 | 11,000 | 1,600 | 19,000 | <500 | --- | --- | --- | --- | --- | 39.99 | 8.93 | 31.06 | --- | 5 |
| S-5 | 05/22/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 10.07 | 29.94 | 0.02 | --- |
| S-5 | 08/22/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 10.24 | 29.77 | 0.02 | --- |
| S-5 | 11/03/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 10.91 | 29.10 | 0.02 | --- |
| S-5 | 02/20/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 7.81 | 32.20 | 0.03 | --- |
| S-5 | 05/18/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 9.64 | 30.37 | 0.02 | --- |
| S-5 | 05/31/2001 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.99 | 10.13 | 29.86 | --- | --- |
| S-5 | 08/15/2001 | Well transferred to ARCO | | | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-6 | 05/13/1991 | 13,000 | 600 | 140 | 210 | 310 | --- | --- | --- | --- | --- | --- | 40.12 | 7.82 | 32.30 | --- | --- |
| S-6 | 08/23/1991 | 9,800 | 480 | 80 | 120 | 150 | --- | --- | --- | --- | --- | --- | 40.12 | 9.58 | 30.54 | --- | --- |
| S-6 | 11/07/1991 | 6,200 | 240 | 23 | 25 | 27 | --- | --- | --- | --- | --- | --- | 40.12 | 10.86 | 29.26 | --- | --- |
| S-6 | 01/28/1992 | 5,600 | 250 | 15 | 41 | 36 | --- | --- | --- | --- | --- | --- | 40.12 | 8.97 | 31.15 | --- | --- |
| S-6 | 05/06/1992 | 7,100 | 330 | 29 | 110 | 210 | --- | --- | --- | --- | --- | --- | 40.12 | 8.27 | 31.85 | --- | --- |
| S-6 | 08/26/1992 | 13,000 | 240 | <50 | 56 | 780 | --- | --- | --- | --- | --- | --- | 40.12 | 9.57 | 31.55 | --- | --- |
| S-6 | 10/28/1992 | 10,000 | 470 | 210 | 67 | 170 | --- | --- | --- | --- | --- | --- | 40.12 | 8.90 | 32.22 | --- | --- |
| S-6 | 01/19/1993 | 4,800 | 100 | 26 | 27 | 45 | --- | --- | --- | --- | --- | --- | 40.12 | 4.84 | 35.28 | --- | --- |
| S-6 | 04/29/1993 | 7,000 | 430 | 20 | <12.5 | 42 | --- | --- | --- | --- | --- | --- | 40.12 | 5.61 | 34.51 | --- | --- |
| S-6 | 07/22/1993 | 5,800 | 260 | 120 | 65 | 150 | --- | --- | --- | --- | --- | --- | 40.12 | 6.56 | 33.56 | --- | --- |
| S-6 | 10/21/1993 | 5,500 | 270 | 69 | 120 | 140 | --- | --- | --- | --- | --- | --- | 40.12 | 8.73 | 31.39 | --- | --- |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE 8020 (µg/L) | MTBE 8260 (µg/L) | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to Water (ft TOC) | GW Elevation (ft MSL) | SPH Thickness (ft) | DO Reading (mg/L) |
|---------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|--------------------------|-------------------------|
| S-6 | 01/04/1994 | 7,100 | 180 | 58 | 63 | 62 | --- | --- | --- | --- | --- | --- | 40.12 | 7.14 | 32.98 | --- | --- |
| S-6 | 04/13/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 7.21 | 32.91 | --- | --- |
| S-6 | 07/25/1994 | 12,000 | 190 | 52 | 30 | 39 | --- | --- | --- | --- | --- | --- | 40.12 | 6.85 | 33.27 | --- | --- |
| S-6 (D) | 07/25/1994 | 7,200 | 170 | 32 | 31 | 34 | --- | --- | --- | --- | --- | --- | 40.12 | 6.85 | 33.27 | --- | --- |
| S-6 | 10/10/1994 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 6.20 | 33.92 | --- | --- |
| S-6 | 01/26/1995 | 5,800 | 120 | 23 | 24 | 44 | --- | --- | --- | --- | --- | --- | 40.12 | 4.89 | 35.23 | --- | --- |
| S-6 | 04/21/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 5.61 | 34.51 | --- | --- |
| S-6 | 07/28/1995 | 4,400 | 210 | 23 | 34 | 60 | --- | --- | --- | --- | --- | --- | 40.12 | 5.30 | 34.82 | --- | 3 |
| S-6 (D) | 07/28/1995 | 6,100 | 230 | 20 | 38 | 59 | --- | --- | --- | --- | --- | --- | 40.12 | 5.30 | 34.82 | --- | 3 |
| S-6 | 10/31/1995 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 4.98 | 35.14 | --- | --- |
| S-6 | 01/10/1996 | 6,800 | 170 | 87 | 35 | 105 | --- | --- | --- | --- | --- | --- | 40.12 | 5.67 | 34.45 | --- | 2.2 |
| S-6 (D) | 01/10/1996 | 7,800 | 230 | 120 | 50 | 210 | --- | --- | --- | --- | --- | --- | 40.12 | 5.67 | 34.45 | --- | 2.2 |
| S-6 | 04/25/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 5.23 | 34.89 | --- | --- |
| S-6 | 07/23/1996 | 2,600 | 170 | <0.50 | <0.50 | 8.5 | <25 | --- | --- | --- | --- | --- | 40.12 | 5.40 | 34.72 | --- | 1.4 |
| S-6 | 12/10/1996 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 6.68 | 33.44 | --- | 0.7 |
| S-6 | 02/20/1997 | 6,300 | 160 | 7.7 | 14 | 31 | 77 | --- | --- | --- | --- | --- | 40.12 | 5.70 | 34.42 | --- | 2 |
| S-6 | 05/22/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 5.49 | 34.63 | --- | 0.9 |
| S-6 | 08/22/1997 | 6,200 | 160 | 26 | 15 | 27 | 49 | --- | --- | --- | --- | --- | 40.12 | 5.71 | 34.41 | --- | 2.8 |
| S-6 | 11/03/1997 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 6.15 | 33.97 | --- | 1.4 |
| S-6 | 02/20/1998 | 4,100 | 150 | <10 | <10 | 15 | 55 | --- | --- | --- | --- | --- | 40.12 | 5.25 | 34.87 | --- | 0.4 |
| S-6 | 05/18/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 5.69 | 34.43 | --- | 0.4 |
| S-6 | 08/20/1998 | 7,800 | 240 | 38 | 16 | 39 | 110 | --- | --- | --- | --- | --- | 40.12 | 6.04 | 34.08 | --- | 1.5 |
| S-6 (D) | 08/20/1998 | 8,400 | 270 | 30 | 19 | 31 | 130 | --- | --- | --- | --- | --- | 40.12 | 6.04 | 34.08 | --- | 1.5 |
| S-6 | 11/06/1998 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 6.10 | 34.02 | --- | --- |
| S-6 | 02/16/1999 | 6,000 | 190 | 19 | 14 | 20 | <2.5 | --- | --- | --- | --- | --- | 40.12 | 5.84 | 34.28 | --- | 1.7 |
| S-6 | 05/28/1999 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 9.51 | 30.61 | --- | 1.9 |
| S-6 | 08/24/1999 | 6,870 | 193 | 32.1 | 18.8 | 36.4 | <25.0 | --- | --- | --- | --- | --- | 40.12 | 8.29 | 31.83 | --- | 2.7 |
| S-6 | 11/16/1999 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 5.93 | 34.19 | --- | 2.6 |
| S-6 | 02/02/2000 | 2,310 | 164 | 122 | 28.6 | 133 | 63.1 | --- | --- | --- | --- | --- | 40.12 | 5.33 | 34.79 | --- | 2.6 |
| S-6 | 05/09/2000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 6.41 | 33.71 | --- | 2.4 |
| S-6 | 08/03/2000 | 5,600 | 188 | 27.4 | <10.0 | 25.2 | 174 | --- | --- | --- | --- | --- | 40.12 | 5.84 | 34.28 | --- | 2.7 |
| S-6 | 11/15/2000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 5.58 | 34.54 | --- | 2.3 |
| S-6 | 02/14/2001 | 6,140 | 126 | 13.2 | 8.01 | 18.0 | 205 | --- | --- | --- | --- | --- | 40.12 | 5.50 | 34.62 | --- | 1.3 |
| S-6 | 05/31/2001 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.12 | 5.52 | 34.60 | --- | 1.2 |

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to | GW | SPH | DO |
|---------|------------|----------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|----------|-----------|-----------|---------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | Water | Elevation | Thickness | Reading |
| | | | | | | | | | | | | | | (ft TOC) | (ft MSL) | (ft) | (mg/L) |
| S-6 | 08/15/2001 | 6,000 | 160 | 9.1 | 5.8 | 24 | --- | 51 | --- | --- | --- | --- | 40.12 | 6.04 | 34.08 | --- | 0.4 |
| S-6 | 12/31/2001 | 6,900 | 120 | 12 | 6.6 | 24 | --- | 44 | --- | --- | --- | --- | 40.12 | 5.52 | 34.60 | --- | 0.4 |
| S-6 | 02/06/2002 | 4,300 | 110 | 7.3 | 4.8 | 18 | --- | 39 | --- | --- | --- | --- | 40.12 | 6.34 | 33.78 | --- | 0.5 |
| S-6 | 06/04/2002 | 4,300 | 140 | 8.4 | 4.9 | 22 | --- | 26 | --- | --- | --- | --- | 40.12 | 6.19 | 33.93 | --- | 0.4 |
| S-6 | 07/25/2002 | 3,900 | 140 | 9.0 | 5.5 | 23 | --- | 31 | --- | --- | --- | --- | 39.92 | 6.05 | 33.87 | --- | 0.7 |
| S-6 | 11/27/2002 | 5,200 | 160 | 9.6 | 4.9 | 24 | --- | 26 | --- | --- | --- | --- | 39.92 | 6.26 | 33.66 | --- | --- |
| S-6 | 01/30/2003 | 4,700 | 200 | 9.6 | 5.5 | 25 | --- | 30 | --- | --- | --- | --- | 39.92 | 5.73 | 34.19 | --- | --- |
| S-6 | 06/03/2003 | 3,900 | 160 | 10 | <10 | 25 | --- | 30 | --- | --- | --- | --- | 39.92 | 5.52 | 34.40 | --- | --- |
| S-6 | 08/08/2003 | 2,900 | 150 | 8.8 | 3.6 | 18 | --- | 18 | --- | --- | --- | --- | 39.92 | 6.14 | 33.78 | --- | --- |
| S-6 | 11/13/2003 | 8,300 | 220 | 19 | 11 | 35 | --- | 28 | --- | --- | --- | --- | 39.92 | 5.85 | 34.07 | --- | --- |
| S-6 | 02/04/2004 | 7,400 | 310 | 17 | 10 | 31 | --- | 30 | --- | --- | --- | --- | 39.92 | 5.51 | 34.41 | --- | --- |
| S-6 | 05/12/2004 | 4,000 | 230 | 10 | 5.5 | 24 | --- | 21 | --- | --- | --- | --- | 39.92 | 6.10 | 33.82 | --- | --- |
| S-6 | 08/23/2004 | 6,000 | 260 | 16 | 9.0 | 32 | --- | 19 | --- | --- | --- | --- | 39.92 | 6.38 | 33.54 | --- | --- |
| S-6 | 12/01/2004 | 9,600 | 280 | 23 | 11 | 47 | --- | 24 | --- | --- | --- | --- | 39.92 | 6.41 | 33.51 | --- | --- |
| S-6 | 02/07/2005 | 7,100 | 300 | 14 | 8.4 | 35 | --- | 21 | --- | --- | --- | --- | 39.92 | 5.94 | 33.98 | --- | --- |
| S-6 | 05/02/2005 | 6,100 | 250 | 12 | 8.1 | 30 | --- | 16 | --- | --- | --- | --- | 39.92 | 5.90 | 34.02 | --- | --- |
| S-6 | 08/04/2005 | 5,200 | 180 | 13 | 8.0 | 31 | --- | 15 | --- | --- | --- | --- | 39.92 | 6.67 | 33.25 | --- | --- |
| S-6 | 11/16/2005 | 9,950 | 147 | 15.3 | 9.82 | 32.3 | --- | 10.8 | --- | --- | --- | --- | 39.92 | 6.64 | 33.28 | --- | --- |
| S-6 | 03/02/2006 | 2,400 | 72 | 9.2 | 7.0 | 21 | --- | 6.4 | --- | --- | --- | --- | 39.92 | 5.92 | 34.00 | --- | --- |
| S-6 | 05/31/2006 | 9,460 | 182 | 13.6 | 8.80 | 33.5 | --- | 11.4 e | --- | --- | --- | --- | 39.92 | 6.28 | 33.64 | --- | --- |
| S-6 | 08/29/2006 | 8,840 | 108 | 26.6 | 12.4 | 37.7 | --- | 10.1 | --- | --- | --- | --- | 39.92 | 7.19 | 32.73 | --- | --- |
| S-6 | 12/06/2006 | 4,900 | 130 | 17 | 8.2 | 35 | --- | 9.4 | --- | --- | --- | --- | 39.92 | 7.06 | 32.86 | --- | --- |
| S-6 | 01/30/2007 | 4,500 | 100 | 22 | 12 | 38 | --- | 8.1 | --- | --- | --- | --- | 39.92 | 6.94 | 32.98 | --- | --- |
| S-6 | 05/15/2007 | 6,900 f | 120 | 9.2 | 6.7 | 27.6 | --- | 6.4 | --- | --- | --- | --- | 39.92 | 6.30 | 33.62 | --- | --- |
| S-6 | 08/29/2007 | 9,300 f | 110 | 30 | 14 | 52 | --- | 6.4 | <50 | 5.3 g | <10 | <10 | 39.92 | 7.27 | 32.65 | --- | --- |
| S-6 | 11/29/2007 | 4,300 f | 110 | 19 h | 14 | 53 | --- | 8.7 | --- | --- | --- | --- | 39.92 | 6.87 | 33.05 | --- | --- |
| S-6 | 02/21/2008 | 5,600 f | 110 | 8.6 | 5.0 | 28.3 | --- | 6.4 | --- | --- | --- | --- | 39.92 | 5.75 | 34.17 | --- | --- |
| S-6 | 05/06/2008 | 5,900 | 110 | 12 | 7.5 | 30.1 | --- | <1.0 | --- | --- | --- | --- | 39.92 | 6.60 | 33.32 | --- | --- |
| S-6 | 08/27/2008 | 6,200 | 58 | 15 | 7.0 | 27.9 | --- | <2.0 | --- | --- | --- | --- | 39.92 | 7.40 | 32.52 | --- | --- |
| S-6 | 11/24/2008 | 6,100 | 80 | 20 | 12 | 40 | --- | <2.0 | --- | --- | --- | --- | 39.92 | 7.30 | 32.62 | --- | --- |
| S-6 | 11/24/2008 | 6,100 | 80 | 20 | 12 | 40 | --- | <2.0 | --- | --- | --- | --- | 39.92 | 7.30 | 32.62 | --- | --- |
| S-6 | 01/28/2009 | 5,300 | 80 | 10 | 6.3 | 26 | --- | <1.0 | --- | --- | --- | --- | 39.92 | 6.61 | 33.31 | --- | --- |
| S-6 | 05/26/2009 | 6,600 | 130 | 6.6 | 4.4 | 21 | --- | 4.9 | --- | --- | --- | --- | 39.92 | 6.70 | 33.22 | --- | --- |
| S-6 | 11/24/2009 | 6,200 | 69 | 13 | 8.4 | 32 | --- | 4.5 | --- | --- | --- | --- | 39.92 | 7.03 | 32.89 | --- | --- |

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to Water (ft TOC) | GW Elevation (ft MSL) | SPH Thickness (ft) | DO Reading (mg/L) |
|------------|-------------------|-------------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|--------------------------|-------------------------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | | | | |
| S-6 | 05/26/2010 | 5,100 | 130 | 8.3 | 4.8 | 27 | --- | 6.1 | --- | --- | --- | --- | 39.92 | 6.24 | 33.68 | --- | --- |
| S-6 | 11/30/2010 | 5,500 | 74 | 10 | 6.2 | 32 | --- | 5.6 | --- | --- | --- | --- | 39.92 | 6.12 | 33.80 | --- | --- |
| S-6 | 05/11/2011 | 8,900 | 73 | 7.8 | 6.8 | 31 | --- | 4.2 | --- | --- | --- | --- | 39.92 | 6.30 | 33.62 | --- | --- |
| S-6 | 11/28/2011 | 3,300 | 74.1 | 7.49 | 5.33 | 30.0 | --- | 4.17 | --- | --- | --- | --- | 39.92 | 6.45 | 33.47 | --- | --- |
| S-6 | 06/05/2012 | 5,000 | 78 | 11 | 8.6 | 38 | --- | 4.5 | --- | --- | --- | --- | 39.92 | 6.71 | 33.21 | --- | --- |
| S-7 | 05/13/1991 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 10.56 | 29.54 | --- | --- |
| S-7 | 08/23/1991 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 11.16 | 28.94 | --- | --- |
| S-7 | 11/07/1991 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 11.48 | 28.62 | --- | --- |
| S-7 | 01/28/1992 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 10.72 | 29.38 | --- | --- |
| S-7 | 05/06/1992 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 10.34 | 29.76 | --- | --- |
| S-7 | 08/26/1992 | 160 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 11.13 | 28.97 | --- | --- |
| S-7 | 10/28/1992 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 11.52 | 28.58 | --- | --- |
| S-7 | 01/19/1993 | 50 | 1.1 | 0.60 | 1.9 | 9.2 | --- | --- | --- | --- | --- | --- | 40.10 | 8.68 | 31.42 | --- | --- |
| S-7 | 04/29/1993 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 9.90 | 30.20 | --- | --- |
| S-7 | 07/22/1993 | Well inaccessible | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.10 | --- | --- | --- | --- |
| S-7 | 10/21/1993 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 11.10 | 29.00 | --- | --- |
| S-7 | 01/04/1994 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 10.40 | 29.70 | --- | --- |
| S-7 | 04/13/1994 | <50 | 1.4 | 0.61 | <0.50 | 0.64 | --- | --- | --- | --- | --- | --- | 40.10 | 10.20 | 29.90 | --- | --- |
| S-7 (D) | 04/13/1994 | <50 | 1.4 | 0.61 | <0.50 | 0.66 | --- | --- | --- | --- | --- | --- | 40.10 | 10.20 | 29.90 | --- | --- |
| S-7 | 07/25/1994 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 10.48 | 29.62 | --- | --- |
| S-7 a | 10/10/1994 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 10.64 | 29.46 | --- | --- |
| S-7 | 01/26/1995 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 7.75 | 32.35 | --- | 4.6 |
| S-7 | 04/21/1995 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 8.51 | 31.59 | --- | --- |
| S-7 | 07/28/1995 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 10.20 | 29.90 | --- | 3 |
| S-7 | 10/31/1995 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | --- | --- | --- | --- | 40.10 | 10.86 | 29.24 | --- | 4.9 |
| S-7 | 01/10/1996 | <50 | <0.50 | 2.0 | <0.50 | 2.6 | --- | --- | --- | --- | --- | --- | 40.10 | 10.33 | 29.77 | --- | 7.6 |
| S-7 | 04/25/1996 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- | --- | --- | --- | 40.10 | 9.13 | 30.97 | --- | 6.2 |
| S-7 | 07/23/1996 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 14 | --- | --- | --- | --- | --- | 40.10 | 10.18 | 29.92 | --- | 3.7 |
| S-7 | 12/10/1996 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- | --- | --- | --- | 40.10 | 9.04 | 31.06 | --- | 4.6 |
| S-7 | 02/20/1997 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- | --- | --- | --- | 40.10 | 9.60 | 30.50 | --- | 5 |
| S-7 | 05/22/1997 | <50 | 1.3 | <0.50 | <0.50 | <0.50 | 5.5 | --- | --- | --- | --- | --- | 40.10 | 10.63 | 29.47 | --- | 0.8 |
| S-7 | 08/22/1997 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- | --- | --- | --- | 40.10 | 10.95 | 29.15 | --- | 2.6 |
| S-7 | 11/03/1997 | <50 | 2.2 | 1.7 | 0.58 | 3.4 | <2.5 | --- | --- | --- | --- | --- | 40.10 | 11.29 | 28.81 | --- | 2.6 |

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to | GW | SPH | DO |
|---------|------------|-------------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------|-----------------------|-------------------|-------------------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | Water (ft TOC) | Elevation (ft MSL) | Thickness (ft) | Reading (mg/L) |
| S-7 | 02/20/1998 | 350 | 23 | 13 | 14 | 42 | 3.8 | --- | --- | --- | --- | --- | 40.10 | 7.73 | 32.37 | --- | 4.6 |
| S-7 | 05/18/1998 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- | --- | --- | --- | 40.10 | 10.29 | 29.81 | --- | 4.4 |
| S-7 | 08/20/1998 | Well inaccessible | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.10 | 11.00 | 29.10 | --- | 5.4 |
| S-7 | 11/06/1998 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | --- | --- | --- | --- | --- | 40.10 | 11.19 | 28.91 | --- | 5.2 |
| S-7 | 02/16/1999 | Well inaccessible | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.10 | --- | --- | --- | --- |
| S-7 | 05/28/1999 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | --- | --- | --- | --- | --- | 40.10 | 9.76 | 30.34 | --- | 2.7 |
| S-7 | 08/24/1999 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | --- | --- | --- | --- | --- | 40.10 | 10.61 | 29.49 | --- | 2.1 |
| S-7 | 11/16/1999 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 3.68 | --- | --- | --- | --- | --- | 40.10 | 10.90 | 29.20 | --- | 2.3 |
| S-7 | 02/02/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | --- | --- | --- | --- | --- | 40.10 | 10.30 | 29.80 | --- | 2.1 |
| S-7 | 05/09/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | --- | --- | --- | --- | --- | 40.10 | 10.25 | 29.85 | --- | 2.7 |
| S-7 | 08/03/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | --- | --- | --- | --- | --- | 40.10 | 10.65 | 29.45 | --- | 2.5 |
| S-7 | 11/15/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | --- | --- | --- | --- | --- | 40.10 | 10.53 | 29.57 | --- | 4.6 |
| S-7 | 02/14/2001 | Well inaccessible | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.10 | --- | --- | --- | --- |
| S-7 | 05/31/2001 | <50 | <0.50 | <0.50 | <0.50 | 0.77 | --- | 4.6 | --- | --- | --- | --- | 40.10 | 9.46 | 30.64 | --- | 2.1 |
| S-7 | 08/15/2001 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 40.10 | 10.93 | 29.17 | --- | 2.0 |
| S-7 | 12/31/2001 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | 6.0 | --- | --- | --- | --- | 40.10 | 9.14 | 30.96 | --- | 3.0 |
| S-7 | 02/06/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 40.10 | 8.61 | 31.49 | --- | 3.2 |
| S-7 | 06/04/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 40.10 | 10.41 | 29.69 | --- | 0.9 |
| S-7 | 07/25/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 39.91 | 10.37 | 29.54 | --- | 1.1 |
| S-7 | 11/27/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 39.91 | 10.52 | 29.39 | --- | --- |
| S-7 | 01/30/2003 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 39.91 | 9.38 | 30.53 | --- | --- |
| S-7 | 06/03/2003 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 0.72 | --- | --- | --- | --- | 39.91 | 10.18 | 29.73 | --- | --- |
| S-7 | 08/08/2003 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.91 | 10.43 | 29.48 | --- | --- |
| S-7 | 11/13/2003 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.91 | 10.39 | 29.52 | --- | --- |
| S-7 | 02/04/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.91 | 9.17 | 30.74 | --- | --- |
| S-7 | 05/12/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.91 | 10.20 | 29.71 | --- | --- |
| S-7 | 08/23/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.72 c | 10.53 | 29.19 | --- | --- |
| S-7 | 12/01/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.72 | 10.36 | 29.36 | --- | --- |
| S-7 | 02/07/2005 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.72 | 8.78 | 30.94 | --- | --- |
| S-7 | 05/02/2005 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.72 | 9.46 | 30.26 | --- | --- |
| S-7 | 08/04/2005 | Well paved over | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S-8 | 05/10/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 10.85 | 29.67 | --- | --- |
| S-8 | 05/12/2004 | <1,300 | <13 | <13 | <13 | <25 | --- | 2,500 | --- | --- | --- | --- | 40.52 | 10.95 | 29.57 | --- | --- |

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to Water (ft TOC) | GW Elevation (ft MSL) | SPH Thickness (ft) | DO Reading (mg/L) |
|---------|------------|----------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|--------------------------|-------------------------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | | | | |
| S-8 | 08/23/2004 | 1,300 | 15 | <13 | <13 | <25 | --- | 2,500 | 570 | <50 | <50 | <50 | 40.52 | 11.40 | 29.12 | --- | --- |
| S-8 | 12/01/2004 | 1,400 d | <13 | <13 | <13 | <25 | --- | 2,700 | --- | --- | --- | --- | 40.52 | 11.10 | 29.42 | --- | --- |
| S-8 | 02/07/2005 | 6,400 | 240 | 27 | 290 | 100 | --- | 370 | --- | --- | --- | --- | 40.52 | 10.22 | 30.30 | --- | --- |
| S-8 | 05/02/2005 | 6,300 | 160 | 25 | 200 | 74 | --- | 190 | --- | --- | --- | --- | 40.52 | 10.05 | 30.47 | --- | --- |
| S-8 | 08/04/2005 | 2,500 | 130 | 7.5 | <6.0 | 14 | --- | 290 | 92 | <8.0 | <8.0 | <8.0 | 40.52 | 10.88 | 29.64 | --- | --- |
| S-8 | 11/16/2005 | 27,700 | 43.2 | 4.36 | 637 | 1,200 | --- | 638 | --- | --- | --- | --- | 40.52 | 11.28 | 29.24 | --- | --- |
| S-8 | 03/02/2006 | 9,900 | 160 | 13 | 490 | 530 | --- | 110 | --- | --- | --- | --- | 40.52 | 8.85 | 31.67 | --- | --- |
| S-8 | 05/31/2006 | 14,300 | 270 | 53.1 | 283 | 246 | --- | 102 e | --- | --- | --- | --- | 40.52 | 10.34 | 30.18 | --- | --- |
| S-8 | 08/29/2006 | 14,700 | 107 | 9.42 | 196 | 195 | --- | 278 | 36.1 | <0.500 | <0.500 | <0.500 | 40.52 | 11.17 | 29.35 | --- | --- |
| S-8 | 12/06/2006 | 7,800 | 150 | 8.6 | 120 | 110 | --- | 200 | --- | --- | --- | --- | 40.52 | 11.21 | 29.31 | --- | --- |
| S-8 | 01/30/2007 | 7,500 | 220 | 18 | 180 | 96 | --- | 170 | --- | --- | --- | --- | 40.52 | 10.72 | 29.80 | --- | --- |
| S-8 | 05/15/2007 | 9,600 f | --- | 24 | 160 | 112 | --- | 130 | --- | --- | --- | --- | 40.52 | 10.50 | 30.02 | --- | --- |
| S-8 | 08/29/2007 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 11.44 | 29.11 | 0.04 | --- |
| S-8 | 08/30/2007 | 6,100 f | 35 | 2.7 | 140 | 234 | --- | 170 | 820 | <4.0 | <4.0 | <4.0 | 40.52 | 11.37 | 29.25 | 0.13 | --- |
| S-8 | 09/25/2007 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 11.56 | 29.22 | 0.32 | --- |
| S-8 | 10/29/2007 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 11.23 | 29.50 | 0.26 | --- |
| S-8 | 11/29/2007 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 11.08 | 29.60 | 0.20 | --- |
| S-8 | 12/11/2007 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 10.61 | 30.03 | 0.15 | --- |
| S-8 | 01/24/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 9.61 | 30.97 | 0.08 | --- |
| S-8 | 02/21/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 9.11 | 31.43 | 0.03 | --- |
| S-8 | 03/20/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 10.22 | 30.40 | 0.12 | --- |
| S-8 | 04/30/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 10.91 | 29.67 | 0.07 | --- |
| S-8 | 05/06/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 10.50 | 30.05 | 0.04 | --- |
| S-8 | 06/04/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 11.34 | 29.24 | 0.07 | --- |
| S-8 | 07/29/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 11.83 | 28.71 | 0.03 | --- |
| S-8 | 08/27/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 11.40 | 29.14 | 0.03 | --- |
| S-8 | 09/30/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 12.08 | 28.46 | 0.03 | --- |
| S-8 | 10/31/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 11.35 | 29.37 | 0.25 | --- |
| S-8 | 11/24/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 10.79 | 29.89 | 0.20 | --- |
| S-8 | 12/30/2008 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 8.90 | 31.75 | 0.16 | --- |
| S-8 | 01/14/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 9.87 | 30.83 | 0.22 | --- |
| S-8 | 01/28/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 9.52 | 31.10 | 0.13 | --- |
| S-8 | 03/31/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 8.56 | 32.11 | 0.19 | --- |
| S-8 | 04/21/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 8.90 | 31.75 | 0.16 | --- |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE 8020 (µg/L) | MTBE 8260 (µg/L) | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to Water (ft TOC) | GW Elevation (ft MSL) | SPH Thickness (ft) | DO Reading (mg/L) |
|------------|-------------------|-------------------|-------------|-------------|-------------|-------------|------------------------|------------------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|--------------------------|-------------------------|
| S-8 | 05/26/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 9.04 | 31.57 | 0.11 | --- |
| S-8 | 06/30/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 10.28 | 30.32 | 0.10 | --- |
| S-8 | 07/23/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 10.37 | 30.25 | 0.13 | --- |
| S-8 | 08/31/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 10.78 | 29.80 | 0.08 | --- |
| S-8 | 11/24/2009 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 9.73 | 30.84 | 0.06 | --- |
| S-8 | 05/26/2010 | 59,000 | 150 | 32 | 2,100 | 4,400 | --- | 78 | --- | --- | --- | --- | 40.52 | 7.59 | 32.93 | 0.00 | --- |
| S-8 | 11/30/2010 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 8.34 | 32.23 | 0.06 | --- |
| S-8 | 02/10/2011 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 8.28 | 32.30 | 0.08 | --- |
| S-8 | 05/11/2011 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 8.39 | 32.15 | 0.02 | --- |
| S-8 | 08/10/2011 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 8.72 | 31.81 | 0.01 | --- |
| S-8 | 11/28/2011 | 25,000 | 169 | 11.8 | 874 | 1,170 | --- | 101 | <10.0 | <0.500 | <0.500 | <0.500 | 40.52 | 8.97 | 31.55 | --- | --- |
| S-8 | 02/28/2012 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40.52 | 8.64 | 31.88 | --- | --- |
| S-8 | 06/05/2012 | 32,000 | 160 | 15 | 600 | 660 | --- | 75 | --- | --- | --- | --- | 40.52 | 9.63 | 30.89 | --- | --- |
| S-9 | 05/10/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.72 | 10.34 | 29.38 | --- | --- |
| S-9 | 05/12/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.72 | 10.42 | 29.30 | --- | --- |
| S-9 | 08/23/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.72 | 11.32 | 28.40 | --- | --- |
| S-9 | 12/01/2004 | Unable to locate | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.72 | --- | --- | --- | --- |
| S-9 | 02/07/2005 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.72 | 8.74 | 30.98 | --- | --- |
| S-9 | 05/02/2005 | Well inaccessible | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.72 | --- | --- | --- | --- |
| S-9 | 08/04/2005 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.72 | 8.79 | 30.93 | --- | --- |
| S-9 | 11/16/2005 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | --- | <0.500 | --- | --- | --- | --- | 39.72 | 10.30 | 29.42 | --- | --- |
| S-9 | 03/02/2006 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <0.50 | --- | --- | --- | --- | 39.72 | 5.86 | 33.86 | --- | --- |
| S-9 | 05/31/2006 | <50.0 | <0.500 | <0.500 | <0.500 | 0.540 | --- | <0.500 | --- | --- | --- | --- | 39.72 | 9.85 | 29.87 | --- | --- |
| S-9 | 08/29/2006 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | --- | <0.500 | --- | --- | --- | --- | 39.72 | 10.75 | 28.97 | --- | --- |
| S-9 | 12/06/2006 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.72 | 10.60 | 29.12 | --- | --- |
| S-9 | 01/30/2007 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.72 | 10.45 | 29.27 | --- | --- |
| S-9 | 05/15/2007 | 61 d,f | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 39.72 | 10.15 | 29.57 | --- | --- |
| S-9 | 08/29/2007 | 71 f | <0.50 | <1.0 | 1.3 | 2.1 | --- | <1.0 | <10 | <2.0 | <2.0 | <2.0 | 39.72 | 10.96 | 28.76 | --- | --- |
| S-9 | 11/29/2007 | Well inaccessible | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39.72 | --- | --- | --- | --- |
| S-9 | 02/21/2008 | <50 f | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 39.72 | 7.36 | 32.36 | --- | --- |
| S-9 | 05/06/2008 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 39.72 | 10.49 | 29.23 | --- | --- |
| S-9 | 08/27/2008 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 39.72 | 11.19 | 28.53 | --- | --- |
| S-9 | 11/24/2008 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 39.72 | 10.91 | 28.81 | --- | --- |

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| Well ID | Date | TPHg (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE | | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TOC (ft MSL) | Depth to Water (ft TOC) | GW Elevation (ft MSL) | SPH Thickness (ft) | DO Reading (mg/L) |
|---------|------------|-------------------|-------------|-------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|--------------------------|-------------------------|
| | | | | | | | 8020 (µg/L) | 8260 (µg/L) | | | | | | | | | |
| S-9 | 01/28/2009 | Well inaccessible | | | --- | --- | --- | --- | --- | --- | --- | --- | 39.72 | --- | --- | --- | --- |
| S-9 | 05/26/2009 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 39.72 | 10.20 | 29.52 | --- | --- |
| S-9 | 11/24/2009 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 39.72 | 10.52 | 29.20 | --- | --- |
| S-9 | 05/26/2010 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 39.72 | 7.09 | 32.63 | --- | --- |
| S-9 | 11/30/2010 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 39.72 | 7.42 | 32.30 | --- | --- |
| S-9 | 05/11/2011 | Well inaccessible | | | --- | --- | --- | --- | --- | --- | --- | --- | 39.72 | --- | --- | --- | --- |
| S-9 | 11/28/2011 | Well inaccessible | | | --- | --- | --- | --- | --- | --- | --- | --- | 39.72 | --- | --- | --- | --- |
| S-9 | 12/02/2011 | <50 | <0.500 | <0.500 | <0.500 | <0.500 | --- | <0.500 | --- | --- | --- | --- | 39.72 | 8.80 | 30.92 | --- | --- |
| S-9 | 06/05/2012 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 39.72 | 10.17 | 29.55 | --- | --- |

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by method noted

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

TOC = Top of casing elevation, in feet relative to mean sea level

SPH = Separate-phase hydrocarbon

GW = Groundwater

DO = Dissolved oxygen

µg/L = Micrograms per liter

ft = Feet

MSL = Mean sea level

mg/L = Milligrams per liter

<x = Not detected at reporting limit x

--- = Not analyzed or not available

(D) = Duplicate sample

a = Sample analyzed for total dissolved solids (450 mg/L).

b = Concentration is an estimated value above the linear quantitation range.

c = TOC lowered 0.19 feet due to wellhead maintenance.

d = Hydrocarbon reported does not match the laboratory standard.

**SPH REMOVAL
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| <i>Well ID</i> | <i>Date</i> | <i>SPH Thickness (ft.)</i> | <i>SPH Removed (lbs.)</i> |
|----------------|-------------|------------------------------------|-----------------------------------|
| S-2 | 5/6/2008 | 0.01 | 0.02 |
| S-5 | 5/1/1980 | 0.64 | 0 |
| S-5 | 8/28/1990 | 3.51 | 0 |
| S-5 | 11/27/1990 | 4.71 | 0 |
| S-5 | 2/11/1991 | 5.57 | 0 |
| S-5 | 5/13/1991 | 6.48 | 0 |
| S-5 | 8/23/1991 | 5.50 | 0 |
| S-5 | 11/7/1991 | 5.35 | 0 |
| S-5 | 1/28/1992 | 4.90 | 0 |
| S-5 | 5/6/1992 | 5.66 | 0 |
| S-5 | 8/26/1992 | 3.80 | 0 |
| S-5 | 10/28/1992 | 3.81 | 0 |
| S-5 | 1/19/1993 | 3.96 | 0 |
| S-5 | 4/29/1993 | 0.90 | 0 |
| S-5 | 7/22/1993 | 0.90 | 0 |
| S-5 | 10/21/1993 | 0.73 | 0 |
| S-5 | 1/4/1994 | 1.90 | 0 |
| S-5 | 4/13/1994 | 1.62 | 0 |
| S-5 | 7/25/1994 | 1.79 | 0 |
| S-5 | 10/10/1994 | 1.80 | 0 |
| S-5 | 1/26/1995 | 1.72 | 0 |
| S-5 | 4/21/1995 | 1.17 | 0 |
| S-5 | 7/28/1995 | 1.87 | 0 |
| S-5 | 10/31/1995 | 0.54 | 0 |
| S-5 | 1/10/1996 | 0.13 | 0 |
| S-5 | 4/25/1996 | 0.03 | 0 |
| S-5 | 7/23/1996 | 0.04 | 0 |
| S-5 | 12/10/1996 | 0.03 | 0.99 |
| S-5 | 5/22/1997 | 0.02 | 0 |
| S-5 | 8/22/1997 | 0.02 | 0 |
| S-5 | 11/3/1997 | 0.02 | 0 |
| S-5 | 2/20/1998 | 0.03 | 0 |
| S-5 | 5/18/1998 | 0.02 | 0 |
| S-8 | 8/29/2007 | 0.04 | 0 |
| S-8 | 8/30/2007 | 0.13 | 0.53 |
| S-8 | 9/25/2007 | 0.32 | 1.29 |
| S-8 | 10/29/2007 | 0.26 | 1.05 |
| S-8 | 11/29/2007 | 0.20 | 0.81 |

**SPH REMOVAL
SHELL-BRANDED SERVICE STATION
999 SAN PABLO AVENUE, ALBANY, CALIFORNIA**

| <i>Well ID</i> | <i>Date</i> | <i>SPH Thickness (ft.)</i> | <i>SPH Removed (lbs.)</i> |
|-------------------|-------------|------------------------------------|-----------------------------------|
| S-8 | 12/11/2007 | 0.15 | 0.61 |
| S-8 | 1/24/2008 | 0.08 | 0.33 |
| S-8 | 2/21/2008 | 0.03 | 0.12 |
| S-8 | 3/20/2008 | 0.12 | 0.48 |
| S-8 | 4/30/2008 | 0.07 | 0.28 |
| S-8 | 5/6/2008 | 0.04 | 0.16 |
| S-8 | 6/4/2008 | 0.07 | 0.28 |
| S-8 | 7/29/2008 | 0.03 | 0.12 |
| S-8 | 8/27/2008 | 0.03 | 0.12 |
| S-8 | 9/30/2008 | 0.03 | 0.12 |
| S-8 | 10/31/2008 | 0.25 | 1.01 |
| S-8 | 11/24/2008 | 0.20 | 0.81 |
| S-8 | 12/30/2008 | 0.16 | 0.65 |
| S-8 | 1/14/2009 | 0.22 | 0.89 |
| S-8 | 1/28/2009 | 0.13 | 0.53 |
| S-8 | 3/31/2009 | 0.19 | 0.77 |
| S-8 | 4/21/2009 | 0.16 | 0.66 |
| S-8 | 5/26/2009 | 0.11 | 0.44 |
| S-8 | 6/30/2009 | 0.10 | 0.40 |
| S-8 | 7/23/2009 | 0.13 | 0.53 |
| S-8 | 8/31/2009 | 0.08 | 0.32 |
| S-8 | 11/24/2009 | 0.06 | 0.00 |
| S-8 | 5/26/2010 | 0.00 | 0.00 |
| S-8 | 11/30/2010 | 0.06 | 0.24 |
| S-8 | 12/28/2010 | 0.02 | 0.08 |
| S-8 | 5/11/2011 | 0.02 | 0.78 |
| S-8 | 5/11/2011 | 0.02 | 0.05 |
| S-8 | 8/10/2011 | 0.01 | 0.74 |
| S-8 | 8/10/2011 | 0.01 | 0.04 |
| S-8 | 11/28/2011 | 0.00 | 1.63 |
| S-8 | 2/28/2012 | 0.00 | 0.61 |
| S-8 | 6/5/2012 | 0.00 | 0.78 |
| Total SPH Removal | | | 19.27 |

Notes:

SPH = Separate-phase hydrocarbon

ft = feet

lbs = pounds

APPENDIX A

SITE HISTORY

SITE HISTORY

1990 Subsurface Investigations: In January 1990, GeoStrategies Inc. (GSI) of Hayward, California drilled seven soil borings (S-A through S-G) and installed three groundwater monitoring wells (S-1 through S-3). Soil samples contained up to 1,900 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and 9.8 mg/kg benzene. Results of this investigation are summarized in GSI's March 23, 1990 *Well Installation and Soil Boring Report*.

In April 1990, GSI installed two additional groundwater monitoring wells (S-4 and S-5). No TPHg or benzene was detected in soil samples from well boring S-4. Soil samples from well boring S-5 contained up to 130 mg/kg TPHg and 1.9 mg/kg benzene. In addition, S-5 contained 0.62 feet of separate phase hydrocarbons (SPHs). GSI's June 28, 1990 *Well Installation Report* presents these investigation results.

In August 1990, GSI installed two groundwater monitoring wells (S-6 and S-7). No TPHg or benzene was detected in soil samples from well boring S-7. Soil samples from well boring S-6 contained up to 770 mg/kg TPHg and 2.2 mg/kg benzene. GSI's October 10, 1990 *Well Installation Report* provides well installation details.

1996 Subsurface Investigation: In July 1996, Weiss Associates (WA) drilled eight soil borings (B1 through B8) in preparation for relocating the underground storage tank (UST) complex. Soil samples collected from the borings contained up to 280 mg/kg TPHg and 0.62 mg/kg benzene. Cambria Environmental Technology, Inc.'s (Cambria's) October 3, 1997 *Underground Storage Tank Removal and Soil Sampling Report* provides investigation details.

1996 UST Removal: In October 1996, Paradiso Mechanical (Paradiso) of San Leandro, California removed three USTs, five product dispensers, and associated product piping. Cambria collected 12 soil samples from the UST excavation and 11 soil samples from beneath the product dispensers, vent lines, and product lines. Soil samples from beneath the former fuel system contained up to 1,900 mg/kg TPHg, 44 mg/kg benzene, and 30 mg/kg methyl tertiary-butyl ether (MTBE). Cambria also collected 22 soil samples from the new UST excavation which contained up to 1,500 mg/kg TPHg, 0.32 mg/kg benzene, and 8.9 mg/kg MTBE. In addition, three backfill wells (RW-1, RW-2 and RW-3) were installed in the former UST excavation for potential use as remediation wells in the future. Approximately 672 tons of soil were transported off site for disposal during the UST removal activities. Investigation results are summarized in Cambria's October 3, 1997 *Underground Storage Tank Removal and Soil Sampling Report*.

2000 Sensitive Receptor Survey (SRS) and Preferential Pathway Analysis: In January 2000, Cambria conducted an SRS which identified Village Creek, located 400 feet south (cross gradient) of the site as the closest surface water body. Cambria reviewed City of Albany engineering maps and identified a sanitary sewer and storm drain along the east side of San Pablo Avenue and on the south side of Marin Avenue which could potential intercept groundwater. Cambria stated that there was a potential for groundwater migration within the utility trenches; however, impact to sensitive receptors is unlikely due to the distance from the source area to the discharge area of the sanitary sewer and storm drain systems. Cambria's February 3, 2000 *Letter Response and Work Plan* provides SRS and preferential pathway analysis details.

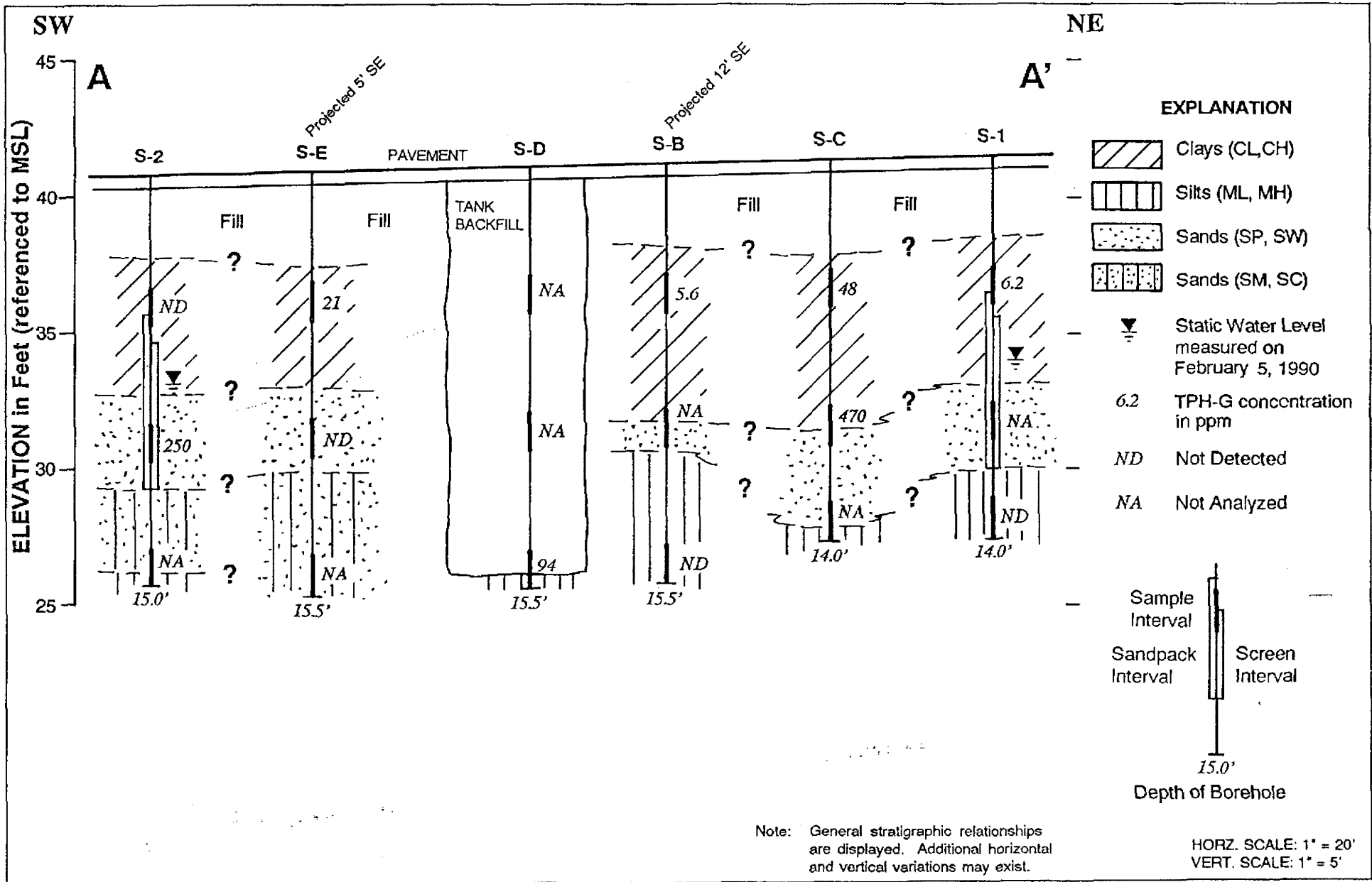
2001 Well Survey: In July 2001, Cambria conducted a one-half-mile radius California Department of Water Resources well-record survey to locate water-producing wells. The survey did not identify any water-producing wells within a one-half-mile radius of the site. Cambria's July 31, 2001 *Second Quarter 2001 Monitoring and Well Survey Report* presents the well survey results.

2004 Subsurface Investigation: In May 2004, Cambria installed two groundwater monitoring wells (S-8 and S-9). No TPHg, benzene, or MTBE was detected in soil samples from well boring S-9. Soil samples from well boring S-8 contained up to 6.1 mg/kg TPHg and 0.10 mg/kg MTBE. No benzene was detected in soil samples collected from well boring S-8. Cambria's July 23, 2004 *Site Investigation Report/Second Quarter 2004 Groundwater Monitoring Report* provides well installation details.

2007 Dispenser Upgrades: In December 2007, Paradiso upgraded under-dispenser containment on three dispensers. Conestoga-Rovers & Associates (CRA) collected six soil samples from beneath the dispensers which contained up to 1,200 mg/kg TPHg, 0.063 mg/kg benzene, and 0.31 mg/kg MTBE. The west dispenser was over-excavated, and approximately 20 tons of soil were transported off site for disposal. CRA's April 10, 2008 *Dispenser Replacement Soil Sampling Report* details these activities.

Groundwater Monitoring and SPH Removal: Groundwater monitoring has been conducted since 1991. Groundwater monitoring is currently coordinated with ARCO station No. 2035, located to the south across Marin Avenue. Up to 6.48 feet of SPHs have been observed in well S-5, and wells S-2 and S-8 have also contained SPHs. No SPHs have been measured since August 2011. Since May 1990, approximately 19.3 pounds of SPHs have been removed by hand bailing and with SPH-absorbent canisters. Groundwater flow direction is generally westerly.

APPENDIX B
BORING LOGS



GeoStrategies Inc.

Cross-section A-A'
Shell Service Station
999 San Pablo Avenue
Albany, California

PLATE

5

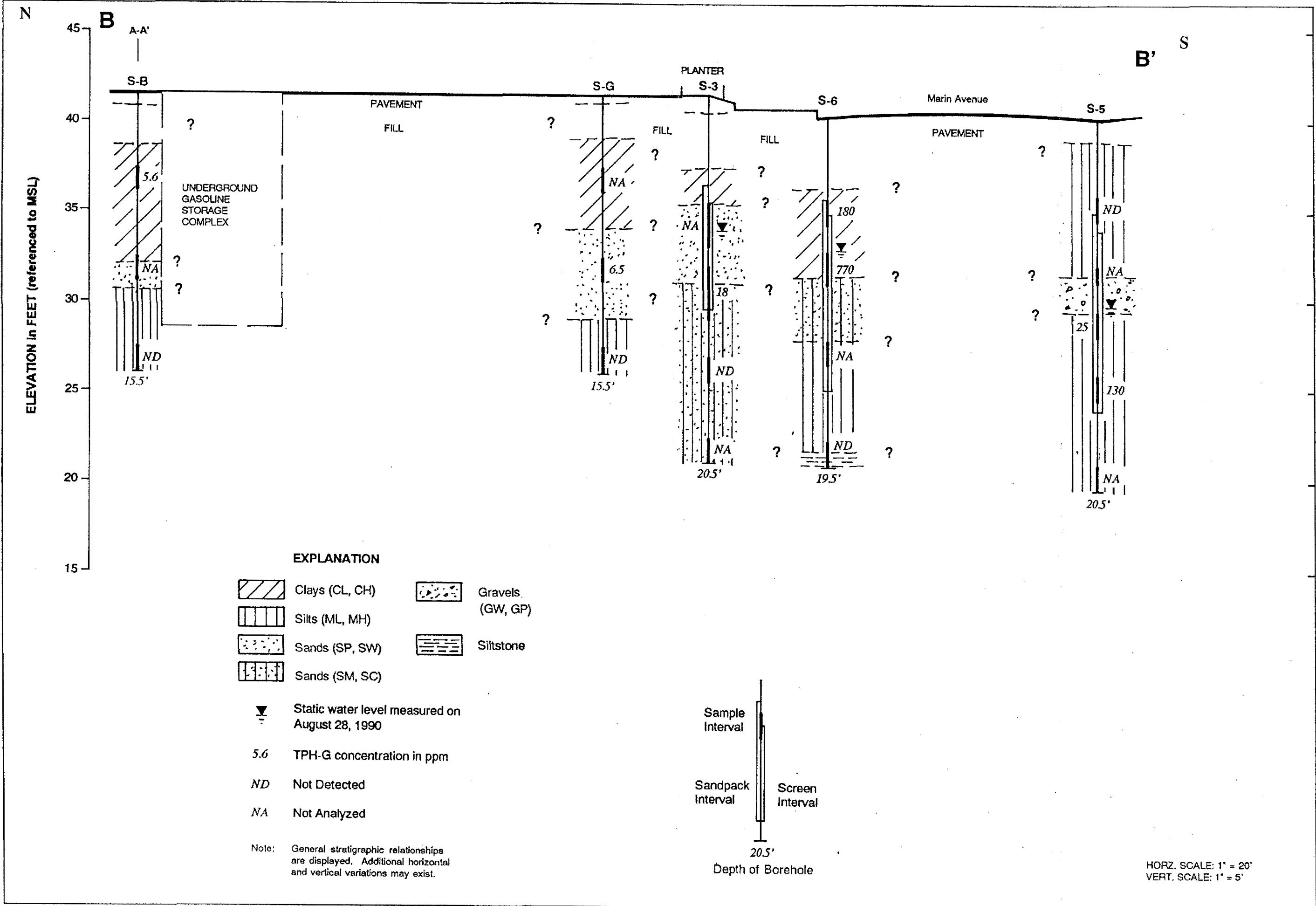
JOB NUMBER
7666

REVIEWED BY RG/CEG
CMP/CEG 1262

DATE
3/90

REVISED DATE

REVISED DATE



Cross-Section B-B'
 Shell Service Station
 999 San Pablo Avenue
 Albany, California

DATE 6/90
 REVISED DATE 10/90
 REVISED DATE

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 01/29/90 | Boring No: |
| | Client: Shell Oil Company | | S-A |
| | Location: 999 San Pablo Avenue | | |
| | City: Albany, California | | Sheet 1 |
| | Logged by: M.J.J. | Driller: Bayland | of 1 |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------|--------|
| Drilling method: Hollow-Stem Auger | Top of Box Elevation: | Datum: |
| Hole diameter: 8-Inches | | |

| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | Date | Description |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|------|------|--|
| | | | | | | | | 11.5' | 7.0' | | |
| | | | | 1 | | | | | | | PAVEMENT SECTION - 0.67 feet |
| | | | | 2 | | | | | | | FILL - Gravel (GP) - grey (7.5YR 6/0), loose, dry; 85% coarse angular gravel; 10% medium to coarse sand; trace silt. |
| | | | | 3 | | | | | | | FILL - Sand with Gravel (SP) - light olive brown (2.5Y 5/4), loose, damp; 80% medium to coarse sand; 20% coarse gravel; no chemical odor. |
| | 150 | S&H | | 4 | | | | | | | |
| 93 | 250 | push | S-A-5 | 5 | | | | | | | CLAYEY SILT (ML/CL) - black (5Y 2.5/1), medium stiff, damp, medium plasticity; 70% silt; 25% clay; 5% coarse gravel; weak chemical odor. |
| | 300 | | | 6 | | | | | | | |
| | | | | 7 | | | | | | | SILTY CLAY (CL/ML) - olive grey (5Y 4/2), stiff, damp; 60% clay; 40% silt; mottled with streaks of grey, weak chemical odor. |
| | | | | 8 | | | | | | | |
| | | | | 9 | | | | | | | |
| | 150 | S&H | | 10 | | | | | | | SAND with SILT and GRAVEL (SW-SM) - olive (5Y 4/3), dense, damp; 65% medium to coarse sand; 25% fine to coarse gravel; 10% silt; strong chemical odor. |
| 169 | 350 | push | S-A-10 | 11 | | | | | | | |
| | 200 | | | 12 | | | | | | | saturated at 11.0 feet (cuttings) |
| | | | | 13 | | | | | | | |
| | | | | 14 | | | | | | | |
| | 2 | | | 15 | | | | | | | SILT (ML) - yellowish brown (10YR 5/8), medium stiff, damp; trace clay; some grey mottling; trace black organic stains; no chemical odor. |
| 19 | 3 | S&H | S-A-15 | 16 | | | | | | | |
| | 7 | | | 17 | | | | | | | Bottom of boring at 15.5 feet. |
| | | | | 18 | | | | | | | Bottom of sample at 15.5 feet. |
| | | | | 19 | | | | | | | 01/29/90 |
| | | | | 20 | | | | | | | |

Remarks: Water observed trickling down borehole sidewalls at 11.0 - 11.5 feet.
Backfilled with bentonite to 11.0 feet and cement to surface.

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 01/29/90 | Boring No: |
| | Client: Shell Oil Company | | S-B |
| | Location: 999 San Pablo Avenue | | |
| | City: Albany, California | | Sheet 1 |
| | Logged by: M.J.J. | Driller: Bayland | of 1 |

Casing installation data:

Drilling method: Hollow-Stem Auger

Hole diameter: 8-Inches

| | | | |
|-----------------------|----------|--------|--|
| Top of Box Elevation: | | Datum: | |
| Water Level | 10.5' | | |
| Time | 11:00 | | |
| Date | 01/29/90 | | |

| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Description |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|--|
| | | | | 1 | | | | PAVEMENT SECTION - 0.67 feet |
| | | | | 2 | | | | FILL - Sand (SP) - olive (5Y 5/4), loose, damp; 95% fine to medium sand; trace gravel; no chemical odor. |
| | | | | 3 | | | | |
| | | | | 4 | | | | |
| 169 | 100 | S&H | S-B-5 | 5 | | | | SILTY CLAY (CL/ML) - olive grey (5Y 4/2), stiff, damp; 60% clay; 35% silt; trace fine to coarse sand; mottled with grey; moderate chemical odor. |
| | 100 | push | | 6 | | | | |
| | 150 | | | 7 | | | | |
| | | | | 8 | | | | |
| | | | | 9 | | | | |
| | 100 | S&H | | 10 | | | | Harder drilling at 9.5 feet. |
| 345 | 250 | push | S-B-10 | 10.5 | | | | Smoother drilling at 10.5 feet. |
| | 500 | | | 11 | | | | SAND with SILT and GRAVEL (SW-SM) - olive (5Y 4/3), dense, moist; 65% medium to coarse sand; 20% gravel; 10% silt; trace clay; sampler shoe saturated; moderate chemical odor. |
| | | | | 12 | | | | |
| | | | | 13 | | | | |
| | | | | 14 | | | | |
| 36 | 3 | S&H | S-B-15 | 15 | | | | SILT (ML) - yellowish brown (10YR 5/8), stiff, damp; trace clay; some grey mottling; trace black organic stains; no chemical odor. |
| | 4 | | | 16 | | | | |
| | 10 | | | 17 | | | | |
| | | | | 18 | | | | Bottom of boring at 15.5 feet. |
| | | | | 19 | | | | Bottom of sample at 15.5 feet. |
| | | | | 20 | | | | 01/29/90 |

Remarks: Backfilled with bentonite to 10.0 feet and cement to surface.

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 01/29/90 | Boring No: |
| | Client: Shell Oil Company | S-C | |
| | Location: 999 San Pablo Avenue | | |
| | City: Albany, California | Sheet 1 | |
| | Logged by: M.J.J. | Driller: Bayland | of 1 |

| | | |
|------------------------------------|-----------------------|--------|
| Drilling method: Hollow-Stem Auger | Top of Box Elevation: | Datum: |
| Hole diameter: 8-Inches | | |

| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | Description |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|-------|--|
| | | | | | | | | Time | Date | |
| | | | | 1 | | | | 10.5' | 12:30 | PAVEMENT SECTION - 0.67 feet |
| | | | | 2 | | | | 01/29/90 | | FILL - Clay (CL) - black (5Y 2.5/1), medium stiff, damp, medium plasticity; moderate chemical odor. |
| | | | | 3 | | | | | | FILL - Gravel with Sand (GP) - grey (10YR 5/1), loose, moist; 75% coarse gravel; 20% coarse sand; trace silt; trace clay; strong chemical odor. |
| | | | | 4 | | | | | | |
| 26 | 100 | S&H | S-C-5 | 5 | | | | | | SILTY CLAY (CL/ML) - dark greenish grey (5GY 4/1), medium stiff, damp; 60% clay; 40% silt; contaminant stains; strong chemical odor. |
| | 100 | push | | 6 | | | | | | |
| | 150 | | | 7 | | | | | | |
| | | | | 8 | | | | | | |
| | | | | 9 | | | | | | |
| 86 | 100 | S&H | S-C- | 10 | | | | | | increasing silt at 9.0 feet; strong chemical odor. |
| | 150 | push | 10.5 | 11 | | | | | | |
| | 100 | | | 12 | | | | | | SAND with SILT and GRAVEL (SP-SM) - olive (5Y 4/3), medium dense, saturated; 60% medium to coarse sand; 25% coarse gravel; 10% silt; strong chemical odor. |
| | | | | 13 | | | | | | increasing silt and clay at 13.0 feet. |
| 10 | 3 | S&H | S-C-14 | 14 | | | | | | COLOR CHANGE to light olive brown (2.5Y 5/6) at 12.5 feet. |
| | 7 | | | 15 | | | | | | SILT (ML) - yellowish brown (10YR 5/8), damp, very stiff; trace clay; no chemical odor. |
| | 11 | | | 16 | | | | | | Bottom of boring at 14.0 feet. |
| | | | | 17 | | | | | | Bottom of sample at 14.0 feet. |
| | | | | 18 | | | | | | 01/29/90 |
| | | | | 19 | | | | | | |
| | | | | 20 | | | | | | |

Remarks: Backfilled with bentonite to above water (11.5 feet) and cement to surface.

Field location of boring: (See Plate 2)

Project No.: 7666 Date: 01/29/90 Boring No: S-D

Client: Shell Oil Company

Location: 999 San Pablo Avenue

City: Albany, California

Logged by: M.J.J. Driller: Bayland Sheet 1 of 1

Casing installation data:

Drilling method: Hollow-Stem Auger

Hole diameter: 8-Inches

Top of Box Elevation: Datum:

| PID (ppm) | Blow/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | Time | Date | Description |
|-----------|----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|--|------|------|--|
| | | | | | | | | 10.0' | | | | |
| | | | | 1 | | | | | | | | PAVEMENT SECTION - 0.5 feet |
| | | | | 2 | | | | | | | | |
| | | | | 3 | | | | | | | | |
| | | | | 4 | | | | | | | | FILL - Sand with Gravel (SP) - black (2.5Y N2/0), loose, moist; 90% medium sand; 5% fine sand; trace silt; strong chemical odor. |
| 293 | 100 | S&H push | S-D-5.5 | 5 | | | | | | | | |
| | 100 | | | 6 | | | | | | | | |
| | | | | 7 | | | | | | | | |
| | | | | 8 | | | | | | | | |
| | 0 | | | 9 | | | | | | | | |
| 306 | 100 | S&H | S-D-10 | 10 | | | | | | | | sampler wet at 10.25 feet; strong chemical odor. |
| | 100 | | | 11 | | | | | | | | |
| | | | | 12 | | | | | | | | |
| | | | | 13 | | | | | | | | |
| | | | | 14 | | | | | | | | |
| 302 | 11 | S&H | S-D-15.5 | 15 | | | | | | | | |
| | 16 | | | 16 | | | | | | | | SANDY SILT with GRAVEL (ML) - yellowish brown (10YR 5/6), stiff, damp; 55% silt; 25% medium sand; 20% fine gravel; mottled; sand-filled burrows; moderate chemical odor. |
| | 16 | | | 17 | | | | | | | | |
| | | | | 18 | | | | | | | | Bottom of boring at 15.5 feet. |
| | | | | 19 | | | | | | | | Bottom of sample at 15.5 feet. |
| | | | | 20 | | | | | | | | 01/29/90 |

Remarks: Backfilled with bentonite to 10 feet, cuttings to 1.0 feet and concrete to surface.

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 01/29/90 | Boring No: |
| | Client: Shell Oil Company | | S-E |
| | Location: 999 San Pablo Avenue | | |
| | City: Albany, California | | Sheet 1 |
| | Logged by: M.J.J. | Driller: Bayland | of 1 |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------|--------|
| Drilling method: Hollow-Stem Auger | Top of Box Elevation: | Datum: |
| Hole diameter: 8-Inches | | |

| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | Time | | Date | | Description |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|--|-------|--|----------|--|---|
| | | | | | | | | 10.0' | | 14:05 | | 01/29/90 | | |
| | | | | 1 | | | | | | | | | | PAVEMENT SECTION - 0.5 feet |
| | | | | 2 | | | | | | | | | | FILL - Clay (CL) - black (5Y 2.5/1), medium stiff, damp; no chemical odor. |
| | | | | 3 | | | | | | | | | | FILL - Gravel with Sand (GP) - grey (10YR 5/1), loose, moist; 75% coarse gravel; 20% coarse sand; trace silt; trace clay; strong chemical odor. |
| | | | | 4 | | | | | | | | | | |
| 121 | 100 | S&H | S-E- | 5 | | | | | | | | | | SILTY CLAY (CL/ML) - olive brown (2.5Y 4/4), stiff, damp; 70% clay; 30% silt; medium plasticity; moderate chemical odor. |
| | 150 | push | 5.5 | 6 | | | | | | | | | | |
| | 250 | | | 7 | | | | | | | | | | |
| | | | | 8 | | | | | | | | | | |
| | | | | 9 | | | | | | | | | | |
| 196 | 150 | S&H | S-E- | 10 | | | | | | | | | | SAND with SILT (SP-SM) - olive grey (5Y 4/2), dense, saturated; 75% medium sand; 10% silt; 5% clay; moderate chemical odor. |
| | 300 | push | 10.5 | 11 | | | | | | | | | | |
| | 300 | | | 12 | | | | | | | | | | |
| | | | | 13 | | | | | | | | | | |
| | | | | 14 | | | | | | | | | | SILTY SAND with GRAVEL (SM) - yellowish brown (10YR 5/6), medium dense, damp; 55% medium to coarse sand; 25% fine to coarse gravel; 20% silt; no chemical odor. |
| 54 | 6 | S&H | S-E- | 15 | | | | | | | | | | |
| | 10 | | 15.5 | 16 | | | | | | | | | | Bottom of boring at 15.5 feet. |
| | 14 | | | 17 | | | | | | | | | | Bottom of sample at 15.5 feet. |
| | | | | 18 | | | | | | | | | | 01/29/90 |
| | | | | 19 | | | | | | | | | | |
| | | | | 20 | | | | | | | | | | |

Remarks: Backfilled with bentonite to 10 feet and cement to surface.

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 01/29/90 | Boring No: |
| | Client: Shell Oil Company | | S-F |
| | Location: 999 San Pablo Avenue | | Sheet 1 |
| | City: Albany, California | | of 1 |
| | Logged by: M.J.J. | Driller: Bayland | |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------|--------|
| Drilling method: Hollow-Stem Auger | Top of Box Elevation: | Datum: |
| Hole diameter: 8-Inches | | |

| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Description | |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|--|--|
| | | | | | | | | Water Level | |
| | | | | 1 | | | | PAVEMENT SECTION - 0.67 feet | |
| | | | | 2 | | | | FILL - Clay (CL) - black (5Y 2.5/1), medium stiff, damp; no chemical odor. | |
| | | | | 3 | | | | CLAY (CL) - light olive brown (2.5Y 5/6), stiff, damp; medium plasticity; faint chemical odor. | |
| | | | | 4 | | | | | |
| 10 | 100 150 250 | S&H push | S-F- 4.5 | 5 | | | | | |
| | | | | 6 | | | | | |
| | | | | 7 | | | | COLOR CHANGE to dark olive grey (5Y 3/2), softer at 7.0 feet. | |
| | | | | 8 | | | | increasing sand at 7.0 feet. | |
| | | | | 9 | | | | | |
| 303 | 100 450 250 | S&H push | S-F- 10 | 10 | | | | SAND with SILT and GRAVEL (SP-SM) - very dark grey (2.5Y N3/0), dense, saturated; 75% medium to coarse sand; 15% gravel; 10% silt; strong chemical odor. | |
| | | | | 11 | | | | | |
| | | | | 12 | | | | | |
| | | | | 13 | | | | decreasing gravel | |
| | | | | 14 | | | | increasing silt to 15.0 feet. | |
| | | | | 15 | | | | COLOR CHANGE to light olive brown (2.5Y 5/4) at 14.0 feet. | |
| 55 | 6 11 15 | S&H S&H | S-F- 15.5 | 15 | | | | SANDY SILT (SM) - light olive brown (2.5Y 5/4), stiff, damp; 60% silt; 30% fine sand; 10% clay; no chemical odor. | |
| | | | | 16 | | | | | |
| | | | | 17 | | | | | |
| | | | | 18 | | | | Bottom of boring at 15.5 feet. | |
| | | | | 19 | | | | Bottom of sample at 15.5 feet. | |
| | | | | 20 | | | | 01/29/90 | |

Remarks: Backfilled with bentonite to 9.5 feet, cuttings to 1.0 feet and concrete to grade.

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 01/29/90 | Boring No: |
| | Client: Shell Oil Company | | S-G |
| | Location: 999 San Pablo Avenue | | Sheet 1 |
| | City: Albany, California | | of 1 |
| | Logged by: M.J.J. | Driller: Bayland | |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------|--------|
| Drilling method: Hollow-Stem Auger | Top of Box Elevation: | Datum: |
| Hole diameter: 8-Inches | | |

| FID (ppm) | Blows/ft or Pressure (psi) | Type of Sample | Sample Number | Depth (ft) | Sample | Well Detail | Soil Group Symbol (USCS) | Description |
|-----------|----------------------------|----------------|---------------|------------|--------|-------------|--------------------------|---|
| | | | | 1 | | | | PAVEMENT SECTION - 0.5 feet |
| | | | | 2 | | | | FILL - Clay (CL) - black (5Y 2.5/1), medium stiff, damp; medium plasticity; no chemical odor. |
| | | | | 3 | | | | |
| | | | | 4 | | | | |
| 21 | 100 100 150 | S&H push | S-G-5 | 5 | | | | CLAY with SAND (CL) - dark greyish brown (2.5Y 4/2), stiff, damp; 15% medium sand; 10% silt; trace gravel; medium plasticity; no chemical odor. |
| | | | | 6 | | | | |
| | | | | 7 | | | | |
| | | | | 8 | | | | |
| 44 | 350 500 | S&H push | S-G-10 | 9 | | | | SAND with SILT (SW-SM) - very dark greyish brown (2.5Y 4/2), dense, saturated; 65% medium to coarse sand; 10% silt; moderate chemical odor. |
| | | | | 10 | | | | |
| | | | | 11 | | | | |
| | | | | 12 | | | | |
| | | | | 13 | | | | |
| | | | | 14 | | | | SILT with SAND (ML) - yellowish brown (10YR 5/8), very stiff, damp; 75% silt; 15% medium sand; 5% fine to coarse gravel; 5% clay; no chemical odor. |
| 31 | 5 12 20 | S&H | S-G-15 | 15 | | | | Bottom of boring at 15.5 feet. Bottom of sample at 15.5 feet. 01/29/90 |
| | | | | 16 | | | | |
| | | | | 17 | | | | |
| | | | | 18 | | | | |
| | | | | 19 | | | | |
| | | | | 20 | | | | |

Remarks: Backfilled with bentonite to 11.0 feet, cuttings to 1.0 feet and concrete to surface.

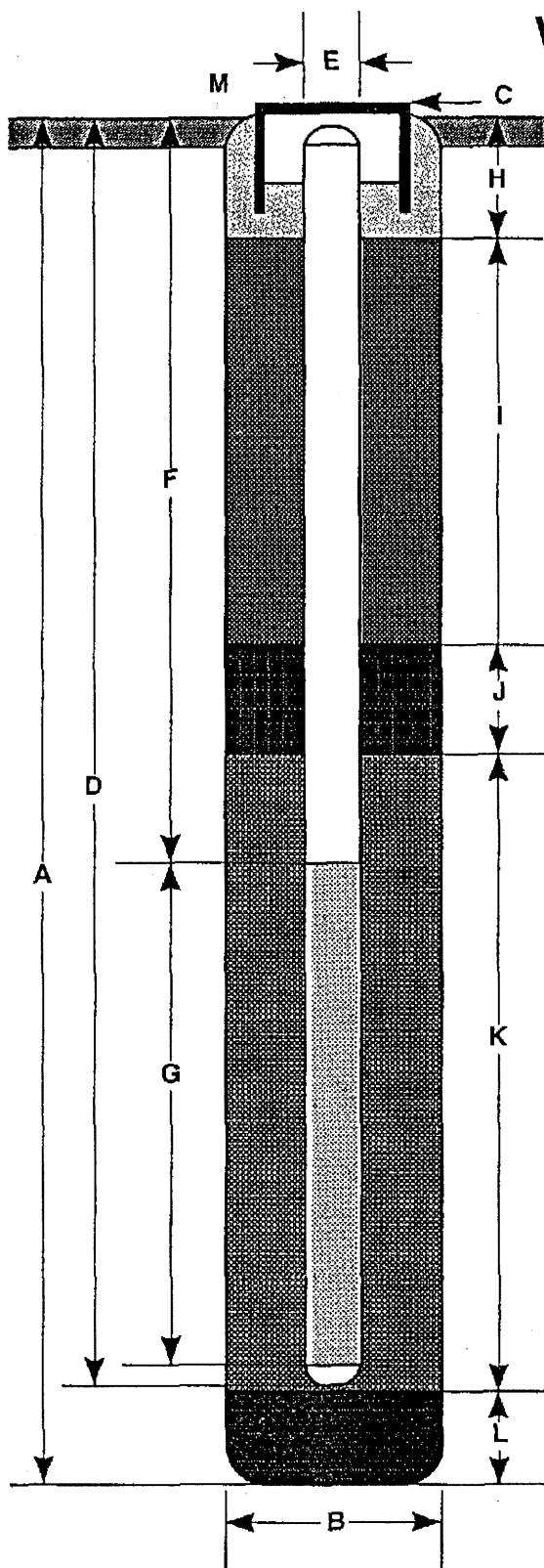
| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 01/30/90 | Boring No: |
| | Client: Shell Oil Company | | S-1 |
| | Location: 999 San Pablo Avenue | | Sheet 1 |
| | City: Albany, California | | of 1 |
| | Logged by: M.J.J. | Driller: Bayland | |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------------|------------|
| Drilling method: Hollow-Stem Auger | Top of Box Elevation: 41.48 | Datum: MSL |
| Hole diameter: 8-Inches | | |

| PID (ppm) | Blows/ft. or Pressure (psi) | Type of Sample | Sample Number | Depth (ft) | Sample | Well Detail | Soil Group Symbol (USCS) | Description | |
|-----------|-----------------------------|----------------|---------------|------------|--------|-------------|--------------------------|--|--|
| | | | | | | | | Water Level | |
| | | | | 1 | | | | PAVEMENT SECTION - 0.5 feet | |
| | | | | 2 | | | | FILL - Clay (CL) - black (5Y 2.5/1) | |
| | | | | 3 | | | | | |
| | | | | 4 | | | | | |
| 1.0 | 100 100 200 | S&H push | S-1-5 | 5 | | | | SILTY CLAY (CL/ML) - dark greenish grey (5GY 4/1), medium stiff, damp; 70% clay; 30% silt; 10% fine sand; no chemical odor. | |
| | | | | 6 | | | | | |
| | | | | 7 | | | | | |
| | | | | 8 | | | | | |
| | | | | 9 | | | | | |
| 91 | 100 150 350-500 | S&H push | S-1-10 | 10 | | | | SAND with GRAVEL (SP-SM) - olive (5Y 4/3), dense, saturated; 60% medium to coarse sand; 25% fine gravel; 10% silt; moderate chemical odor. | |
| | | | | 11 | | | | Softer drilling at 11.5 feet. | |
| | | | | 12 | | | | | |
| 0.0 | 3 6 11 | S&H | S-1-14 | 13 | | | | SILT (ML) - yellowish brown (10YR 5/6), stiff, damp; 85% silt; 15% fine sand; trace clay; no chemical odor. | |
| | | | | 14 | | | | Bottom of boring at 14.0 feet. | |
| | | | | 15 | | | | Bottom of sample at 14.0 feet. | |
| | | | | 16 | | | | 01/30/90 | |
| | | | | 17 | | | | | |
| | | | | 18 | | | | | |
| | | | | 19 | | | | | |
| | | | | 20 | | | | | |

Remarks: OVM Readings taken 02/06/90.

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 14.0 ft.
- B Diameter of Boring 8 in.
Drilling Method Hollow-Stem Auger
- C Top of Box Elevation 41.48 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 11.5 ft.
Material Schedule 40 PVC
- E Casing Diameter 3.0 in.
- F Depth to Top Perforations 6.0 ft.
- G Perforated Length 5.0 ft.
Perforated Interval from 6.0 to 11.0 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 4.0 ft.
Backfill Material Cement Grout
- J Seal from 4.0 to 5.0 ft.
Seal Material Bentonite
- K Gravel Pack from 5.0 to 11.5 ft.
Pack Material #2/12 Lonestar sand
- L Bottom Seal 3.5 ft.
Seal Material Bentonite
- M _____

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-1

JOB NUMBER
7666

REVIEWED BY RG/CEG
CHAD CEG 12/2

DATE
3/90

REVISED DATE

REVISED DATE

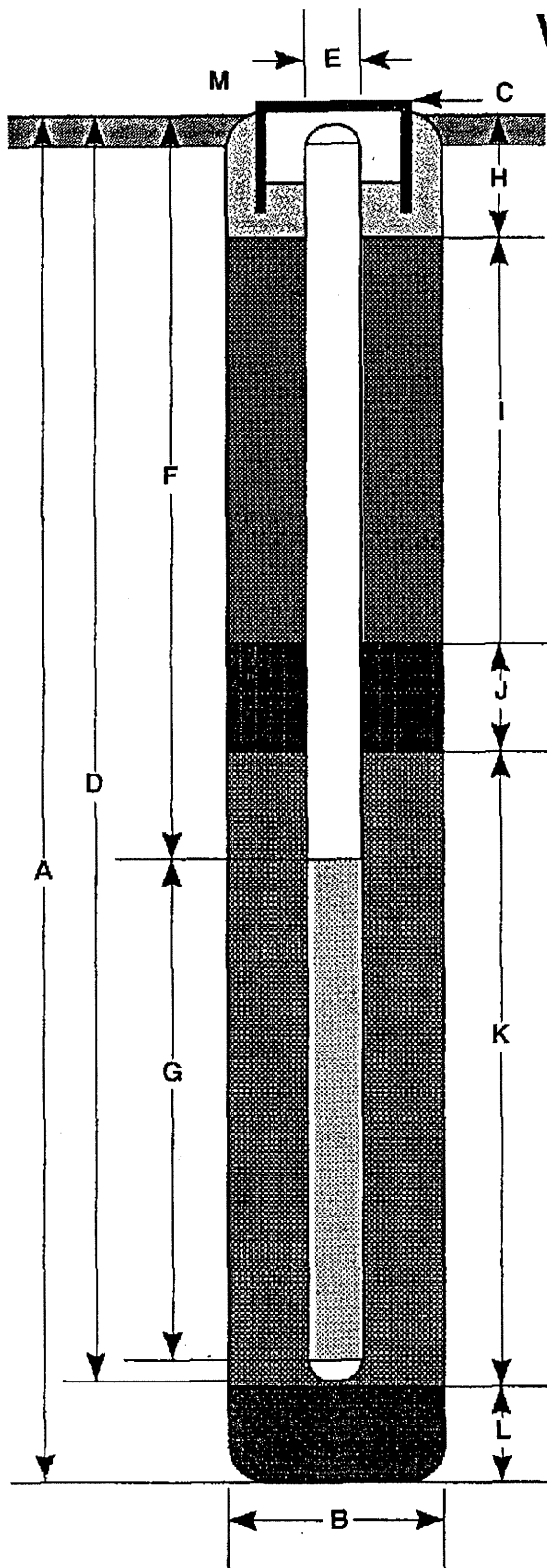
| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 01/30/90 | Boring No: |
| | Client: Shell Oil Company | | S-2 |
| | Location: 999 San Pablo Avenue | | Sheet 1 |
| | City: Albany, California | | of 1 |
| | Logged by: M.J.J. | Driller: Bayland | |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------------|------------|
| Drilling method: Hollow-Stem Auger | Top of Box Elevation: 40.73 | Datum: MSL |
| Hole diameter: 8-Inches | | |

| PID (ppm) | Blows/ft. or Pressure (psi) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | Date | Description |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|-------|------|---|
| | | | | | | | | 9.5' | 13:00 | | |
| | | | | 1 | | | | | | | PAVEMENT SECTION - 0.5 feet |
| | | | | 2 | | | | | | | FILL - Clay (CL) - black (5Y 2.5/1), damp, medium stiff; no chemical odor. |
| | | | | 3 | | | | | | | FILL - Gravel with Sand (GP) - grey (10YR 5/1), moist, loose; 75% coarse gravel; 20% coarse sand; trace silt; trace clay; strong chemical odor. |
| | | | | 4 | | | | | | | SILTY CLAY (CL-ML) - olive brown (2.5Y 4/4), damp, stiff; 70% clay; 30% silt; medium plasticity; no chemical odor. |
| 1.0 | 100 | S&H | S-2-5 | 5 | | | | | | | |
| | 150 | | | 6 | | | | | | | |
| | | | | 7 | | | | | | | |
| | | | | 8 | | | | | | | |
| | | | | 9 | | | | | | | Driller noted change at 8.5 feet. |
| 134 | 100 | S&H | S-2-10 | 10 | | | | | | | SAND with SILT and SAND (SP-SM) - olive grey (5Y 4/2), dense, saturated; 75% medium to coarse sand; 10% silt; strong chemical odor. |
| | 100-500 | push | | 11 | | | | | | | (interbeds of Silty Clay - 5 inches thick) |
| | 100-50 | | | 12 | | | | | | | |
| | | | | 13 | | | | | | | |
| | | | | 14 | | | | | | | SILTY SAND with GRAVEL (SM) - yellowish brown (10YR 5/6), medium dense, damp; 50% medium to coarse sand; 30% silt; 20% fine sand; no chemical odor. |
| 0.0 | 10 | | | 15 | | | | | | | |
| | 12 | S&H | S-2-15 | 16 | | | | | | | SILT (ML) - yellowish brown (10YR 5/6), stiff, damp; 85% silt; 15% fine sand; trace clay; no chemical odor. |
| | 15 | | | 17 | | | | | | | Bottom of boring at 15.0 feet. |
| | | | | 18 | | | | | | | Bottom of sample at 15.0 feet. |
| | | | | 19 | | | | | | | 01/30/90 |
| | | | | 20 | | | | | | | |

Remarks: Backfilled with bentonite to 11.5 feet.
OVM Readings taken 02/06/90.

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 15.0 ft.
- B Diameter of Boring 8 in.
Drilling Method Hollow-Stem Auger
- C Top of Box Elevation 40.73 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 12.0 ft.
Material Schedule 40 PVC
- E Casing Diameter 3.0 in.
- F Depth to Top Perforations 6.0 ft.
- G Perforated Length 5.5 ft.
Perforated Interval from 6.0 to 11.5 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 4.0 ft.
Backfill Material Cement Grout
- J Seal from 4.0 to 5.0 ft.
Seal Material Bentonite
- K Gravel Pack from 5.0 to 12.0 ft.
Pack Material #2/12 Lonestar sand
- L Bottom Seal 3.0 ft.
Seal Material Bentonite
- M _____

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-2

JOB NUMBER
7666

REVIEWED BY RG/CEG
DAMP CEG 1262

DATE
3/90

REVISED DATE

REVISED DATE

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 01/30/90 | Boring No: |
| | Client: Shell Oil Company | | S-3 |
| | Location: 999 San Pablo Avenue | | |
| | City: Albany, California | | Sheet 1 |
| | Logged by: M.J.J. | Driller: Bayland | of 2 |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------------|------------|
| Drilling method: Hollow-Stem Auger | Top of Box Elevation: 42.72 | Datum: MSL |
| Hole diameter: 8-Inches | | |

| PID (ppm) | Blows/ft or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Description |
|-----------|----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|--|
| | | | | 0 | | | | |
| | | | | 1 | | | | TOPSOIL - Peat and Clay |
| | | | | 2 | | | | |
| | | | | 3 | | | | FILL - Silty Clay (CL-ML) - black (5Y 2.5/1), medium stiff, damp; 90% rust stained pockets (0.25 inch diameter); no chemical odor. |
| | | | | 4 | | | | |
| | | | | 5 | | | | SILTY CLAY (CL-ML) - olive grey (5Y 4/2), soft, damp; 15% clay; 35% silt; medium plasticity; no chemical odor. COLOR CHANGE to olive (5Y 4/3) at 5.0 feet. |
| | 100 | S&H | S-3- | 6 | | | | |
| 2.0 | 150 | push | 6.5 | | | | | |
| | 300 | S&H | | 7 | | | | |
| 2.0 | 150 | push | | | | | | |
| | 500 | | S-3-8 | 8 | | | | SAND with SILT (SW-SM) olive (5Y 4/4), dense, moist; 65% fine to coarse sand; 25% silt; 10% fine gravel; 10% silt; weak chemical odor. increasing gravel at 8.0 feet; saturated. |
| | | | | 9 | | | | |
| | 100 | | | 10 | | | | moderate chemical odor. |
| 38 | 150 | | S-3- | | | | | |
| | 450 | S&H | 10.5 | | | | | |
| | 10 | | | 11 | | | | |
| | 12 | | | | | | | |
| 0.0 | 19 | | S-3-12 | 12 | | | | SILTY SAND with GRAVEL (SM) - yellowish brown (10YR 5/8), very stiff, damp; 50% medium to coarse sand; 30% silt; 20% fine to coarse gravel; 5% clay; moderate to weak chemical odor. |
| | | | | 13 | | | | |
| | | | | 14 | | | | |
| | 10 | | | 15 | | | | decreasing gravel at 15.0 feet. |
| 0.0 | 17 | S&H | S-3- | | | | | |
| | 28 | | 15.5 | | | | | |
| | | | | 16 | | | | |
| | | | | 17 | | | | |
| | | | | 18 | | | | Softer at 18.0 feet. |

Remarks: OVM Readings taken on 02/06/90.

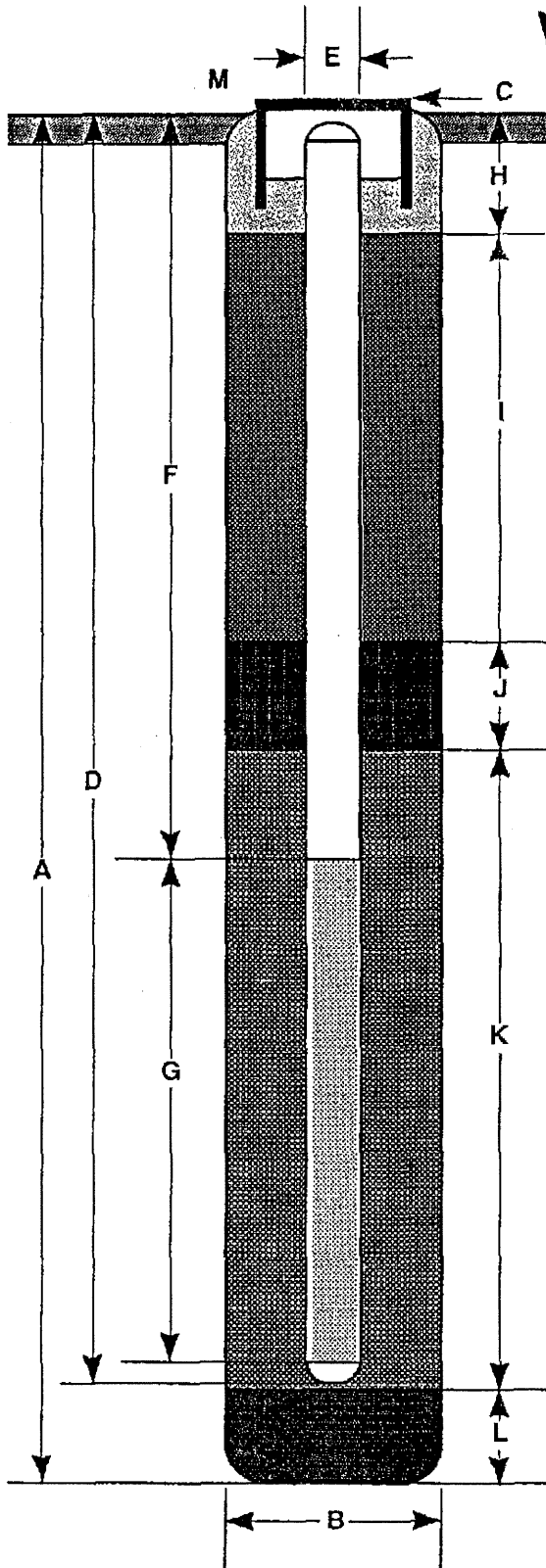
| | | | |
|--|--------------------------------|-------------------|------------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 01/30/90 | Boring No: |
| | Client: Shell Oil Company | | S-3 |
| | Location: 999 San Pablo Avenue | | Sheet 2 |
| | City: Albany, California | Logged by: M.J.J. | Driller: Bayland |
| | Casing installation data: | | |

| | | |
|------------------------------------|-----------------------|--------|
| Drilling method: Hollow-Stem Auger | Top of Box Elevation: | Datum: |
| Hole diameter: 8-Inches | | |

| PID (ppm) | Blows/ft or Pressure (psi) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | Description | | |
|-----------|----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|-------------|--|--------------------------------|
| | | | | | | | | Time | | | |
| | 8 | S&H | S-3- | 19 | | | | | | | |
| 0.0 | 12 | | 19.5 | 20 | | | | | | | no chemical odor. |
| | 26 | | | 20.5 | | | | | | | Bottom of boring at 20.5 feet. |
| | | | | 20.5 | | | | | | | Bottom of sample at 20.5 feet. |
| | | | | 21 | | | | | | | 01/30/90 |
| | | | | 22 | | | | | | | |
| | | | | 23 | | | | | | | |
| | | | | 24 | | | | | | | |
| | | | | 25 | | | | | | | |
| | | | | 26 | | | | | | | |
| | | | | 27 | | | | | | | |
| | | | | 28 | | | | | | | |
| | | | | 29 | | | | | | | |
| | | | | 30 | | | | | | | |
| | | | | 31 | | | | | | | |
| | | | | 32 | | | | | | | |
| | | | | 33 | | | | | | | |
| | | | | 34 | | | | | | | |
| | | | | 35 | | | | | | | |
| | | | | 36 | | | | | | | |
| | | | | 37 | | | | | | | |
| | | | | 38 | | | | | | | |

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 20.5 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method _____ Hollow-Stem Auger
- C Top of Box Elevation _____ 42.72 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 12.0 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 3.0 in.
- F Depth to Top Perforations _____ 6.0 ft.
- G Perforated Length _____ 5.5 ft.
Perforated Interval from _____ 6.0 to _____ 11.5 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 _____ 4.0 ft.
Backfill Material _____ Cement Grout
- J Seal from _____ 4.0 to _____ 5.0 ft.
Seal Material _____ Bentonite
- K Gravel Pack from _____ 5.0 to _____ 12.0 ft.
Pack Material _____ #2/12 Lonestar sand
- L Bottom Seal _____ 8.5 ft.
Seal Material _____ Bentonite
- M _____

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-3

JOB NUMBER
7666

REVIEWED BY RG/CEG
RMP REG 102

DATE
3/90

REVISED DATE

REVISED DATE

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 04/16/90 | Boring No: |
| | Client: Shell Oil Company | | S-4 |
| | Location: 999 San Pablo Avenue | | |
| | City: Albany, California | | Sheet 1 |
| | Logged by: M.J.J. | Driller: Bayland | of 2 |

| | | |
|------------------------------------|-----------------------------|------------|
| Drilling method: Hollow Stem Auger | Top of Box Elevation: 41.10 | Datum: MSL |
| Hole diameter: 8-Inches | Water Level: 11.0 | |

| FD (ppm) | Blows/ft. or Pressure (psi) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Description |
|----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|--|
| | | | | 0 | | | | |
| | | | | 1 | | | | PAVEMENT SECTION - 1.5 feet |
| | | | | 2 | | | | |
| | | | | 3 | | | | |
| | | | | 4 | | | | SILT with SAND (ML) - olive brown (2.5Y 4/4), medium stiff, moist, low plasticity; 70% silt; 15% fine to medium sand; 15% clay; trace coarse sand to fine gravel; iron staining; very small rootholes; no chemical odor. |
| 0.5 | 125 200 350 | S&H push | S-4-5 | 5 | | | | |
| | | | | 6 | | | | GRAVELLY SILT with SAND (ML) - olive brown (2.5Y 4/4), medium stiff, damp, low plasticity; 50% silt; 20% fine gravel; 20% fine to coarse sand; 10% clay; no chemical odor. |
| | | | | 7 | | | | |
| 0.8 | 100 250 350 | S&H push | S-4-7 | 8 | | | | soft drilling at 6.0 feet. |
| | | | | 9 | | | | |
| 0.8 | 300 300-400 400 | S&H push | S-4-10 | 10 | | | | SILTY SAND (SM) - olive brown (2.5Y 4/4), medium dense, saturated; 70% fine sand; 30% silt; trace coarse sand; no chemical odor. |
| | | | | 11 | | | | |
| | | | | 12 | | | | SILTY SAND with GRAVEL (SM) - light olive brown (2.5Y 5/4), medium dense, saturated; 50% medium sand; 35% fine gravel; 15% silt; trace clay; no chemical odor. |
| | | | | 13 | | | | |
| | | | | 14 | | | | |
| 0.8 | 4 6 12 | S&H | S-4-15 | 15 | | | | SANDY SILT (ML) - light gray (2.5Y 7/2), stiff, damp; 70% silt; 30% fine sand; trace clay; no chemical odor. |
| | | | | 16 | | | | |
| | | | | 17 | | | | |
| | | | | 18 | | | | |
| | | | | 19 | | | | |

Remarks:

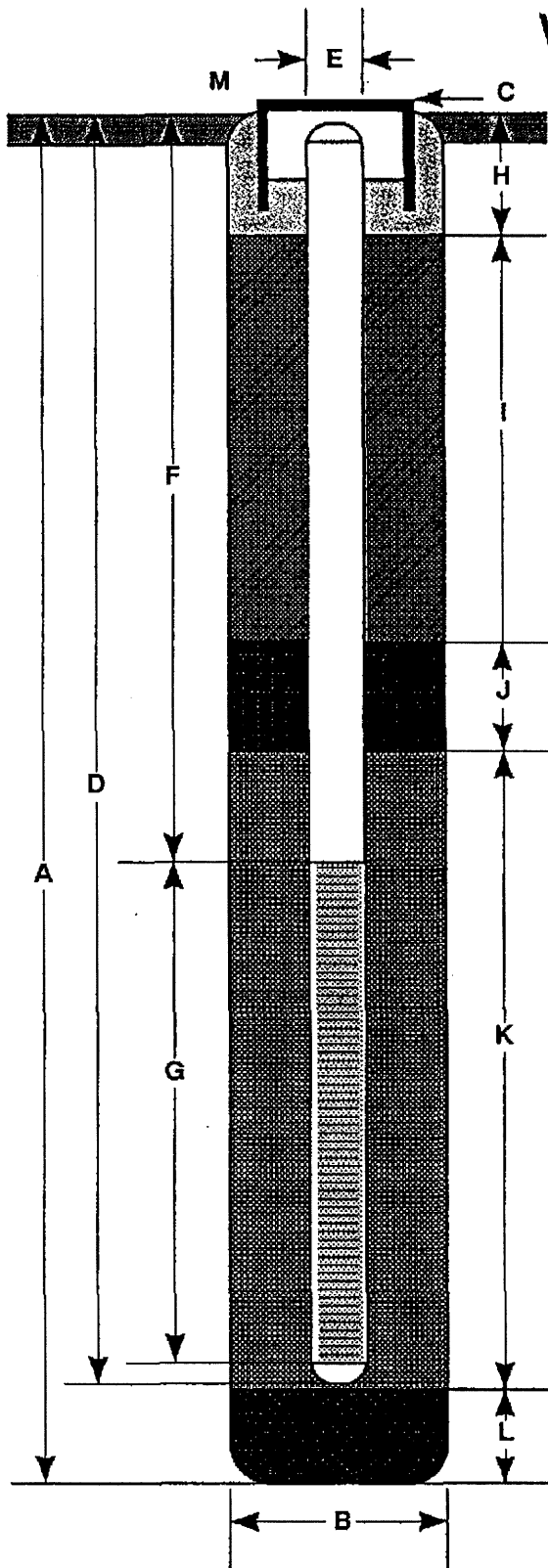
| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 04/16/90 | Boring No: |
| | Client: Shell Oil Company | | S-4 |
| | Location: 999 San Pablo Avenue | | Sheet 2 |
| | City: Albany, California | | of 2 |
| | Logged by: M.J.J. | Driller: Bayland | |

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

| PID (ppm) | Blows/ft or Pressure (psi) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | Description | | |
|-----------|----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|---|--|--|
| | | | | | | | | Time | | | |
| | 4 | | | | | | | | | | |
| 0.8 | 7 | S&H | S-4-20 | 20 | | | | | SILTY SAND (SM) - yellowish brown (10YR 5/8), medium dense, saturated; 65% fine sand; 35% silt; trace clay; no chemical odor. | | |
| | 13 | | | 21 | | | | | | | |
| | | | | 22 | | | | | Bottom of boring at 20.5 feet. | | |
| | | | | 23 | | | | | Bottom of sample at 20.5 feet. | | |
| | | | | 24 | | | | | 04/16/90 | | |
| | | | | 25 | | | | | | | |
| | | | | 26 | | | | | | | |
| | | | | 27 | | | | | | | |
| | | | | 28 | | | | | | | |
| | | | | 29 | | | | | | | |
| | | | | 30 | | | | | | | |
| | | | | 31 | | | | | | | |
| | | | | 32 | | | | | | | |
| | | | | 33 | | | | | | | |
| | | | | 34 | | | | | | | |
| | | | | 35 | | | | | | | |
| | | | | 36 | | | | | | | |
| | | | | 37 | | | | | | | |
| | | | | 38 | | | | | | | |
| | | | | 39 | | | | | | | |

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 20.5 ft.
- B Diameter of Boring 8 in.
Drilling Method Hollow Stem Auger
- C Top of Box Elevation 41.10 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 14 ft.
Material Schedule 40 PVC
- E Casing Diameter 3 in.
- F Depth to Top Perforations 5 ft.
- G Perforated Length 9 ft.
Perforated Interval from 5 to 14 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 to 3 ft.
Backfill Material Cement Grout
- J Seal from 3 to 4 ft.
Seal Material Bentonite
- K Gravel Pack from 4 to 14 ft.
Pack Material Lonestar #2/12 Sand
- L Bottom Seal 6.5 ft.
Seal Material Bentonite
- M Christy box with waterproof locking cap and lock.

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-4

JOB NUMBER
7666

REVIEWED BY RG/CEG
CAMP 04/12/92

DATE
04/90

REVISED DATE

REVISED DATE

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 04/16/90 | Boring No: |
| | Client: Shell Oil Company | | S-5 |
| | Location: 999 San Pablo Avenue | | Sheet 1 |
| | City: Albany, California | | of 2 |
| | Logged by: M.J.J. | Driller: Bayland | |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------------|------------|
| Drilling method: Hollow-Stem Auger | Top of Box Elevation: 39.99 | Datum: MSL |
| Hole diameter: 8-inches | | |

| PTD (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | Time | Date | Description |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|-----|------|------|--|
| | | | | | | | | 11.0 | 6.5 | | | |
| | | | | 0 | | | | | | | | |
| | | | | 1 | | | | | | | | PAVEMENT SECTION - 1.25 feet |
| | | | | 2 | | | | | | | | SILT with SAND (ML) - light olive brown (2.5Y 5/4), medium stiff, damp, medium plasticity; 60% silt; 20% fine sand; 20% clay; trace coarse sand; no chemical odor. |
| | | | | 3 | | | | | | | | |
| | | | | 4 | | | | | | | | |
| | 500 | S&H | | 5 | | | | | | | | increasing clay at 5.0 feet. |
| 1.1 | 500 | push | S-5-5 | 5 | | | | | | | | |
| | 500 | | | 6 | | | | | | | | |
| | | | | 7 | | | | | | | | |
| | | | | 8 | | | | | | | | |
| | 450 | S&H | | 9 | | | | | | | | increasing sand at 8.0 feet. |
| 460 | 450 | push | S-5-8 | 9 | | | | | | | | |
| | 300 | | | 10 | | | | | | | | |
| | | | | 11 | | | | | | | | SILTY GRAVEL (GW) - dark grayish brown (2.5Y 4/2), medium dense, saturated; 65% fine gravel; 25% silt; 10% fine to coarse sand; trace clay; strong chemical odor. |
| | 3 | | | 12 | | | | | | | | |
| 836 | 8 | S&H | S-5-12 | 12 | | | | | | | | |
| | 14 | | | 13 | | | | | | | | |
| | | | | 14 | | | | | | | | |
| | 6 | | | 15 | | | | | | | | |
| 796 | 20 | S&H | S-5-15 | 15 | | | | | | | | |
| | 37 | | | 16 | | | | | | | | COLOR CHANGE at 14.0 feet - yellowish brown (10YR 5/8) |
| | | | | 17 | | | | | | | | hard drilling at 16.0 feet. |
| | | | | 18 | | | | | | | | moderate chemical odor. |
| | | | | 19 | | | | | | | | |

Remarks:

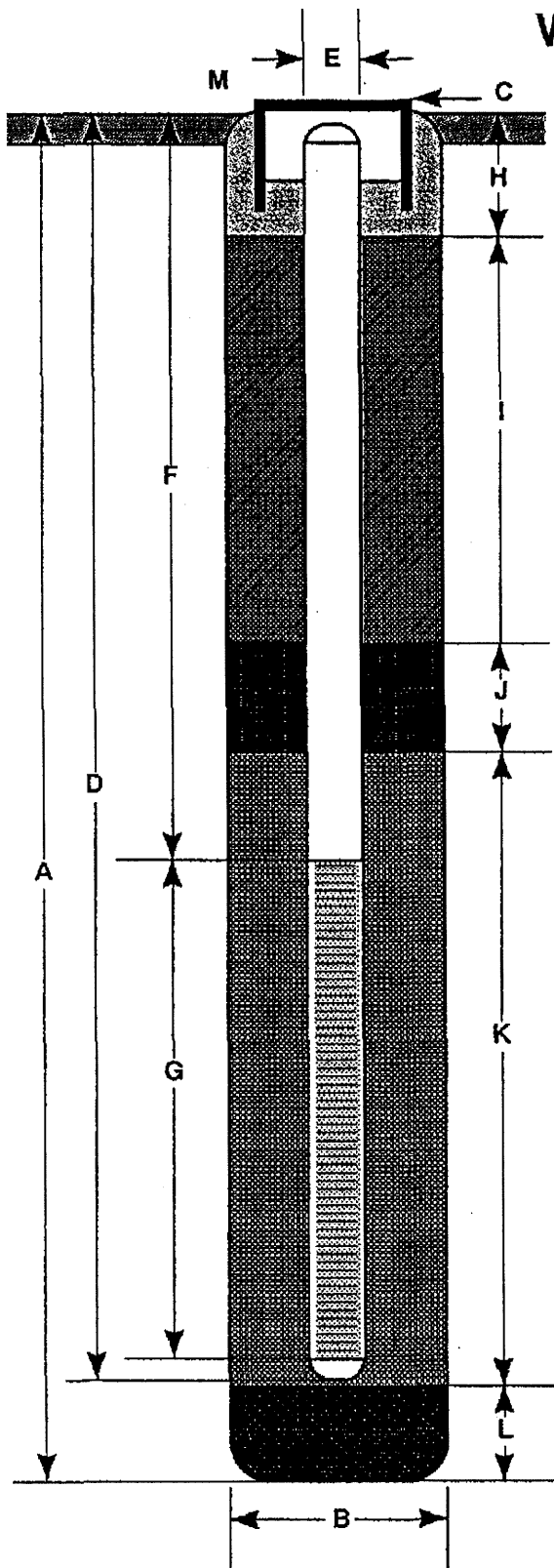
| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 04/16/90 | Boring No: |
| | Client: Shell Oil Company | | S-5 |
| | Location: 999 San Pablo Avenue | | Sheet 2 |
| | City: Albany, California | | of 2 |
| Logged by: M.J.J. | | Driller: Bayland | |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------|--------|
| Drilling method: Hollow Stem Auger | Top of Box Elevation: | Datum: |
| Hole diameter: 8-Inches | | |

| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | | |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|--|--|--|
| | | | | | | | | Time | | | |
| | | | | | | | | Description | | | |
| | 9 | | | | | | | | | | |
| 46.7 | 20 | S&H | S-5-20 | 20 | | | | | | | 15% gravel at 19.0 feet; no chemical odor. |
| | 32 | | | | | | | | | | |
| | | | | 21 | | | | | | | |
| | | | | 22 | | | | | | | Bottom of boring at 20.5 feet. |
| | | | | 23 | | | | | | | Bottom of sample at 20.5 feet. |
| | | | | 24 | | | | | | | 04/16/90 |
| | | | | 25 | | | | | | | |
| | | | | 26 | | | | | | | |
| | | | | 27 | | | | | | | |
| | | | | 28 | | | | | | | |
| | | | | 29 | | | | | | | |
| | | | | 30 | | | | | | | |
| | | | | 31 | | | | | | | |
| | | | | 32 | | | | | | | |
| | | | | 33 | | | | | | | |
| | | | | 34 | | | | | | | |
| | | | | 35 | | | | | | | |
| | | | | 36 | | | | | | | |
| | | | | 37 | | | | | | | |
| | | | | 38 | | | | | | | |
| | | | | 39 | | | | | | | |

Remarks: Water observed recharging borehole from sidewall above 11.0'.

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 20.5 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method _____ Hollow Stem Auger
- C Top of Box Elevation _____ 39.99 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 16 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 3 in.
- F Depth to Top Perforations _____ 6 ft.
- G Perforated Length _____ 10 ft.
Perforated Interval from _____ 6 to _____ 16 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 to _____ 4 ft.
Backfill Material _____ Cement Grout
- J Seal from _____ 4 to _____ 5 ft.
Seal Material _____ Bentonite
- K Gravel Pack from _____ 5 to _____ 16 ft.
Pack Material _____ Lonestar #2/12 Sand
- L Bottom Seal _____ 4.5 ft.
Seal Material _____ Bentonite
- M _____ Christy box with waterproof locking cap and lock.

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-5

JOB NUMBER
7666

REVIEWED BY RG/CEG
UMP 04/12/02

DATE
04/90

REVISED DATE

REVISED DATE

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 08/15/90 | Boring No: |
| | Client: Shell Oil Company | | S-6 |
| | Location: 999 San Pablo Avenue | | Sheet 1 |
| | City: Albany, California | | of 2 |
| | Logged by: MJJ | Driller: Bayland | |

| | | |
|------------------------------------|-----------------------------|------------|
| Drilling method: Hollow Stem Auger | Top of Box Elevation: 40.12 | Datum: MSL |
| Hole diameter: 8-Inches | | |

| PID (ppm) | Blows/ft. or Pressure (ps) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Casing installation data: | | | |
|-----------|----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|---------------------------|-------|----------|---|
| | | | | | | | | Water Level | Time | Date | Description |
| | | | | 0 | | | | 9.38' | 14:43 | 08/15/90 | |
| | | | | 1 | | | | | | | PAVEMENT SECTION |
| | | | | 2 | | | | | | | FILL - Sand (SP) - dark grayish brown (2.5Y 4/2), loose, damp; 85% medium sand; 15% silt; moderate chemical odor. |
| | | | | 3 | | | | | | | Lumber encountered at 3.5 feet. |
| | | | | 4 | | | | | | | |
| 256 | 50 | S&H | S-6-6 | 5 | | | | | | | CLAY (CL) - dark greenish gray (5G 4/1), soft, very moist, medium plasticity; interbedded with medium sand; weak chemical odor. |
| | 50 | push | | 6 | | | | | | | |
| | | | | 7 | | | | | | | |
| | 300 | | | 8 | | | | | | | strong chemical odor. |
| 93 | 300 | S&H | S-6-9 | 9 | | | | | | | SILTY SAND (SM) - very dark gray (2.5Y N3/0), saturated, loose; 75% fine sand; 25% silt; trace gravel; strong chemical odor. |
| | 300 | push | | 10 | | | | | | | |
| | | | | 11 | | | | | | | |
| | | | | 12 | | | | | | | |
| | 13 | | | 13 | | | | | | | SANDY SILT (ML) - yellowish brown (10YR 5/5), damp, hard; 60% silt; 35% coarse to fine sand; 5% fine gravel; no chemical odor. |
| 37 | 16 | S&H | S-6-14 | 14 | | | | | | | |
| | 35 | | | 15 | | | | | | | |
| | | | | 16 | | | | | | | |
| | | | | 17 | | | | | | | |
| | | | | 18 | | | | | | | |

Remarks:

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 08/15/90 | Boring No: |
| | Client: Shell Oil Company | | S-6 |
| | Location: 999 San Pablo Avenue | | Sheet 2 |
| | City: Albany, California | | of 2 |
| | Logged by: MJJ | Driller: Bayland | |

| | | |
|------------------------------------|-----------------------|--------|
| Drilling method: Hollow Stem Auger | Top of Box Elevation: | Datum: |
| Hole diameter: 8-Inches | | |

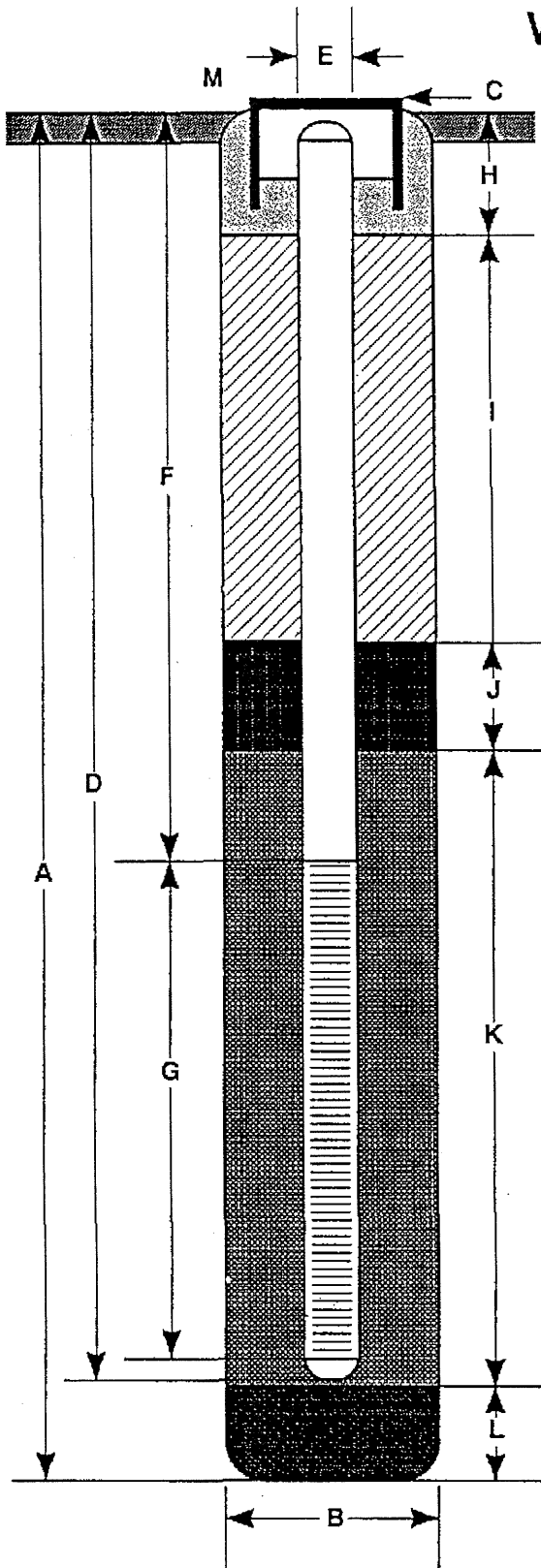
| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level |
|-------------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|
| | | | | | | | | Time |
| Description | | | | | | | | |
| 0 | 24 | | | | | | | |
| | 26 | S&H | S-6- | 19 | | | | |
| | 50 | | 19.5 | | | | | |
| | | | | 20 | | | | |
| | | | | 21 | | | | |
| | | | | 22 | | | | |
| | | | | 23 | | | | |
| | | | | 24 | | | | |
| | | | | 25 | | | | |
| | | | | 26 | | | | |
| | | | | 27 | | | | |
| | | | | 28 | | | | |
| | | | | 29 | | | | |
| | | | | 30 | | | | |
| | | | | 31 | | | | |
| | | | | 32 | | | | |
| | | | | 33 | | | | |
| | | | | 34 | | | | |
| | | | | 35 | | | | |
| | | | | 36 | | | | |
| | | | | 37 | | | | |
| | | | | 38 | | | | |

TEMESCAL FORMATION - Siltstone - dark yellowish orange (10YR 6/6), damp, hard; moderate weathering; moderately cemented; angular siltstone clasts in a silt and sand matrix; no chemical odor.

Bottom of sample at 19.5 feet.
Bottom of boring at 19.5 feet.
08/15/90

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 19.5 ft.
- B Diameter of Boring 8 in.
Drilling Method Hollow Stem Auger
- C Top of Box Elevation 40.12 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 15.0 ft.
Material Schedule 40 PVC
- E Casing Diameter 3 in.
- F Depth to Top Perforations 5.5 ft.
- G Perforated Length 9.5 ft.
Perforated Interval from 5.5 to 15 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 3.5 ft.
Backfill Material Cement
- J Seal from 3.5 to 4.5 ft.
Seal Material Bentonite
- K Gravel Pack from 4.5 to 15 ft.
Pack Material Lonestar #2/12 Sand
- L Bottom Seal 4.5 ft.
Seal Material Bentonite
- M G-5 Traffic-Rated Christy Box Waterproof
Locking Well Cap and Lock.

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-6

JOB NUMBER
7666

REVIEWED BY RG/CEG
CWP CE41262

DATE
08/90

REVISED DATE

REVISED DATE

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 08/15/90 | Boring No: |
| | Client: Shell Oil Company | | S-7 |
| | Location: 999 San Pablo Avenue | | Sheet 1 |
| | City: Albany, California | | of 2 |
| | Logged by: MJJ | Driller: Bayland | |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------------|------------|
| Drilling method: Hollow Stem Auger | Top of Box Elevation: 40.10 | Datum: MSL |
| Hole diameter: 8-Inches | | |

| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | Time | | Date | | Description |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|--------|-------|-------|----------|----------|--|
| | | | | | | | | 13.0' | 11.73' | 11:14 | 14:40 | 08/15/90 | 08/15/90 | |
| | | | | 0 | | | | | | | | | | |
| | | | | 1 | | | | | | | | | | PAVEMENT SECTION |
| | | | | 2 | | | | | | | | | | FILL - Sandy Silt (ML) - olive brown (2.5Y 4/4), medium stiff, damp, medium to low plasticity; 50% silt; 30% fine sand; 20% clay; no chemical odor. |
| | | | | 3 | | | | | | | | | | COLOR CHANGE to very dark grayish brown (2.5Y 3/2); increasing silt at 3.0 feet. |
| | | | | 4 | | | | | | | | | | |
| 0 | 500 | S&H | | 5 | | | | | | | | | | SANDY SILT (ML) - light olive brown (2.5 5/4), medium stiff, damp, low plasticity; 50% silt; 35% fine sand; 15% clay; no chemical odor. |
| | 500 | push | S-7-5 | 6 | | | | | | | | | | |
| | | | | 7 | | | | | | | | | | |
| | | | | 8 | | | | | | | | | | SILTY SAND (SM) - light olive brown (2.5Y 5/4), medium dense, moist; 65% fine to medium sand; 30% silt; 5% clay; no chemical odor. |
| 0 | 350 | S&H | S-7-9 | 9 | | | | | | | | | | Moist, medium dense; increasing coarse sand and gravel at 8.75 feet; no chemical odor. |
| | 450 | push | | 10 | | | | | | | | | | |
| | 500 | | | 11 | | | | | | | | | | SILTY SAND (SM) - dark greenish gray (5GY 5/1), medium dense, moist to saturated; 70% fine sand; 25% silt; 5% clay; no chemical odor. |
| 0 | 350 | S&H | S-7- | 12 | | | | | | | | | | |
| | 500 | push | 10.5 | 13 | | | | | | | | | | Hard drilling at 12.5 feet. |
| | | | | 14 | | | | | | | | | | Hard drilling at 14.0 feet. |
| | | | | 15 | | | | | | | | | | |
| 0 | 26 | S&H | S-7- | 16 | | | | | | | | | | SANDY SILT (ML) - yellowish brown (10YR 5/6), damp, hard; 50% silt; 35% fine to coarse sand; 15% fine gravel; no chemical odor. (weathered bedrock?) |
| | 33 | | | 17 | | | | | | | | | | |
| | 50(5") | | 16.5 | 18 | | | | | | | | | | |

Remarks:

| | | | |
|--|--------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7666 | Date: 08/15/90 | Boring No: |
| | Client: Shell Oil Company | | S-7 |
| | Location: 999 San Pablo Avenue | | Sheet 2 |
| | City: Albany, California | | of 2 |
| | Logged by: MJJ | Driller: Bayland | |

Casing installation data:

Drilling method: Hollow Stem Auger

Hole diameter: 8-Inches

Top of Box Elevation: Datum:

Water Level

Time

Date

Description

TEMESCAL FORMATION - Siltstone - dark yellowish orange (10YR 6/6), damp, hard; moderate weathering; moderately cemented; siltstone clasts within a silt and sand matrix; no chemical odor.

Bottom of sample at 19.5 feet.

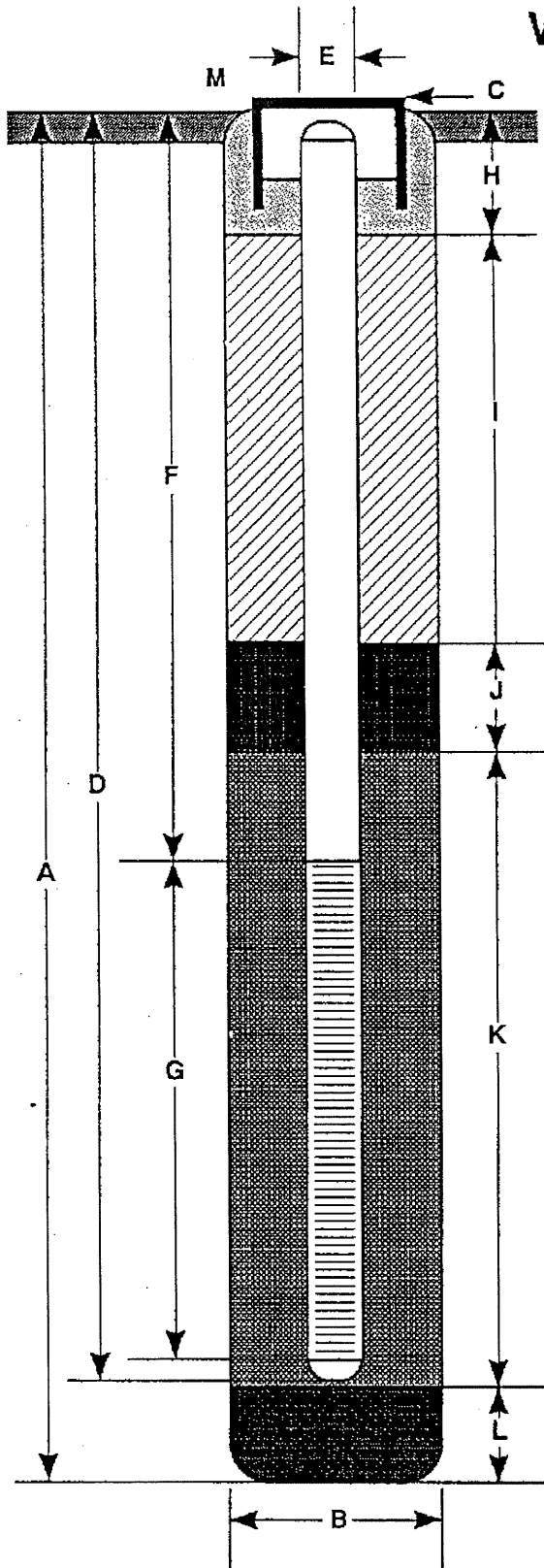
Bottom of boring at 19.5 feet.

08/15/90

| FID (ppm) | Blows/ft. or Pressure (psi) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|
| | 25 | | | | | | |
| 0 | 30 | S&H | S-7- | 19 | | | |
| | 45 | | 19.5 | | | | |
| | | | | 20 | | | |
| | | | | 21 | | | |
| | | | | 22 | | | |
| | | | | 23 | | | |
| | | | | 24 | | | |
| | | | | 25 | | | |
| | | | | 26 | | | |
| | | | | 27 | | | |
| | | | | 28 | | | |
| | | | | 29 | | | |
| | | | | 30 | | | |
| | | | | 31 | | | |
| | | | | 32 | | | |
| | | | | 33 | | | |
| | | | | 34 | | | |
| | | | | 35 | | | |
| | | | | 36 | | | |
| | | | | 37 | | | |
| | | | | 38 | | | |

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 19.5 ft.
- B Diameter of Boring 8 in.
Drilling Method Hollow Stem Auger
- C Top of Box Elevation 40.10 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 15.0 ft.
Material Schedule 40 PVC
- E Casing Diameter 3 in.
- F Depth to Top Perforations 5.5 ft.
- G Perforated Length 9.5 ft.
Perforated Interval from 5.5 to 15 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 3.5 ft.
Backfill Material Cement
- J Seal from 3.5 to 4.5 ft.
Seal Material Bentonite
- K Gravel Pack from 4.5 to 15 ft.
Pack Material Lonestar #2/12 Sand
- L Bottom Seal 4.5 ft.
Seal Material Bentonite
- M G-5 Traffic-Rated Christy Box Waterproof Locking Well Cap and Lock.

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-7

JOB NUMBER
7666

REVIEWED BY RG/CEG
UMP CFC 1262

DATE
08/90

REVISED DATE

REVISED DATE



Cambria Environmental Technology, Inc.
 270 Perkins Street
 Sonoma, California 95476
 Telephone: (707) 935-4850
 Fax: (707) 935-6649

BORING/WELL LOG

| | | | |
|------------------------|--|---|-----------------------|
| CLIENT NAME | Shell Oil Products US | BORING/WELL NAME | S-8 |
| JOB/SITE NAME | Shell-branded Service Station | DRILLING STARTED | 06-May-04 |
| LOCATION | 999 San Pablo Avenue, Albany, California | DRILLING COMPLETED | 06-May-04 |
| PROJECT NUMBER | 0366 | WELL DEVELOPMENT DATE (YIELD) | 10-May-04 (13 gallon) |
| DRILLER | Gregg Drilling | GROUND SURFACE ELEVATION | 40.91 ft above msl |
| DRILLING METHOD | Hollow-stem auger | TOP OF CASING ELEVATION | 40.52 ft above msl |
| BORING DIAMETER | 10" | SCREENED INTERVAL | 6 to 16 fbg |
| LOGGED BY | S. Lewis | DEPTH TO WATER (First Encountered) | 9.5 ft (06-May-04) |
| REVIEWED BY | A. Friel, RG 6452 | DEPTH TO WATER (Static) | 11.0 ft (12-May-04) |
| REMARKS | | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|-----------|-------------|-----------|--------|-------------|----------|-------------|---|---------------------|--|
| | | | | 0.6 | | | CONCRETE | 0.6 | <p>Portland Type I/II Bentonite Seal Monterey Sand #2/12 4"-diam., 0.020" Slotted Schedule 40 PVC Bottom of Boring @ 16 ft</p> |
| | | | | 1.5 | GM | | Silty Sandy Gravel (GM) ; very dark grayish brown (10YR 3/2); moist; 30% silt, 30% fine to coarse sand; 40% fine to coarse gravel. | 1.5 | |
| | | | | 5 | ML | | Clayey SILT (ML) ; black (10YR 2/1); moist; 20% clay, 80% silt; low plasticity. @ 5' - greenish gray (10Y 5/1). | | |
| 0 | | S-8-5 | | | | | | | |
| | | | | 7.0 | SM | | Silty SAND (SM) ; greenish gray (10Y 5/1); moist; 5% clay, 30% silt, 65% fine sand. | 7.0 | |
| 200 | | | | 8.5 | | | | 8.5 | |
| 174 | | S-8-9.5 | | 10 | GM | | Silty Sandy GRAVEL (GM) ; greenish gray (10Y 5/1); moist; 20% silt, 35% fine to coarse sand, 45% fine to coarse gravel. | 9.5 | |
| | | | | 10.0 | SM | | Silty Gravelly SAND (SM) ; greenish gray (10Y 5/1); moist to wet; 30% silt, 50% fine to coarse sand, 20% fine to coarse gravel. | 10.0 | |
| | | | | 14.0 | ML | | Sandy Gravelly SILT (ML) ; greenish gray (10Y 5/1); moist; 5% clay, 55% silt, 25% fine to coarse sand, 15% fine to coarse gravel. | | |
| 140 | | S-8-15.5 | | 15 | SM | | @ 12' - Clayey SILT (ML) ; olive brown (2.5Y 4/3); moist; 15% clay, 80% silt; 5% fine sand; low plasticity. | 14.0 | |
| | | | | 16.0 | | | Silty SAND (SM) ; olive brown (2.5Y 4/3); moist to wet; 5% clay, 30% silt, 65% fine to coarse sand. | 16.0 | |

WELL LOG (PID) \\ALBANY-1\GINT\0366.GPJ DEFAULT.GDT 7/15/04



| | | | |
|------------------------|--|---|-----------------------|
| CLIENT NAME | Shell Oil Products US | BORING/WELL NAME | S-9 |
| JOB/SITE NAME | Shell-branded Service Station | DRILLING STARTED | 06-May-04 |
| LOCATION | 999 San Pablo Avenue, Albany, California | DRILLING COMPLETED | 06-May-04 |
| PROJECT NUMBER | 0366 | WELL DEVELOPMENT DATE (YIELD) | 30-Dec-99 (4 gallon) |
| DRILLER | Gregg Drilling | GROUND SURFACE ELEVATION | 40.21 ft above msl |
| DRILLING METHOD | Hollow-stem auger | TOP OF CASING ELEVATION | 39.72 ft above msl |
| BORING DIAMETER | 8" | SCREENED INTERVAL | 6 to 16 fbg |
| LOGGED BY | S. Lewis | DEPTH TO WATER (First Encountered) | 9.5 ft (06-May-04) ▼ |
| REVIEWED BY | A. Friel, RG 6452 | DEPTH TO WATER (Static) | 10.4 ft (12-May-04) ▼ |
| REMARKS | | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
|-----------|-------------|-----------|--------|-------------|----------|-------------|---|---------------------|--|
| | | | | 0.6 | | | CONCRETE | 0.6 | <p>Portland Type I/II Bentonite Seal Monterey Sand #2/12 2"-diam., 0.020" Slotted Schedule 40 PVC Bottom of Boring @ 16 ft</p> |
| | | | | 1.5 | GM | | Silty Sandy GRAVEL (GM) ; very dark grayish brown (10YR 3/2); moist; 30% silt, 30% fine to coarse sand; 40% fine to coarse gravel. Clayey SILT (ML) ; very dark grayish brown (10YR 3/2); moist; 20% clay, 80% silt; low to medium plasticity. | | |
| 0 | | S-9-6 | | 5 | ML | | @ 5' - yellowish brown (10YR 5/4). Clayey Sandy SILT (ML) ; yellowish brown (10YR 5/4); 20% clay, 60% silt, 20% fine to coarse sand; low plasticity. | | |
| | | | | 9.0 | SM | | Silty SAND (SM) ; yellowish brown (10YR 5/4); moist; 35% silt, 60% fine to coarse sand, 5% fine gravel. | 9.0 | |
| 0 | | S-9-11 | | 10 | ML | | @ 9.5' - moist to wet. Clayey SILT (ML) ; yellowish brown (10YR 5/4); 20% clay, 80% silt; low plasticity. | 10.0 | |
| | | | | 12.0 | GM | | Silty Sandy GRAVEL (GM) ; light yellowish brown (10YR 6/4); moist to wet; 30% silt, 30% fine to coarse sand, 40% fine to coarse sand. | 12.0 | |
| | | | | 13.5 | ML | | Clayey SILT (ML) ; light brownish gray (10YR 6/2); moist; 20% clay, 80% silt; low plasticity. | 13.5 | |
| 0 | | S-9-15.5 | | 15 | ML | | | 15.0 | |
| | | | | 16.0 | | | | 16.0 | |

WELL LOG (PID) \\ALBANY-1\GINT\0366.GPJ_DEFAULT.GDT 7/15/04