

# C A M B R I A

Susan Hugo  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

September 15, 1999  
LIVABLE ENVIRONMENTAL  
PROTECTION  
99 SEP 17 PM 3:43

Re: **Second Quarter 1999 Monitoring Report**  
Shell-branded Service Station  
999 San Pablo Avenue  
Albany, California  
Incident #98995143  
Cambria Project #241-0366-002



Dear Ms. Hugo:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this ground water monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

## **SECOND QUARTER 1999 ACTIVITIES**

Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells, calculated ground water elevations, and compiled the analytical data. Cambria prepared a ground water elevation contour map (Figure 1). The Blaine report, presenting the laboratory report, is included as Attachment A.

## **ANTICIPATED THIRD QUARTER 1999 ACTIVITIES**

Blaine will gauge and sample all site wells and tabulate the data. Cambria will prepare a monitoring report.

Oakland, CA  
Sonoma, CA  
Portland, OR  
Seattle, WA

**Cambria  
Environmental  
Technology, Inc.**

1144 65th Street  
Suite B  
Oakland, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170



**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**



Darryk Ataide, REA I  
Project Manager

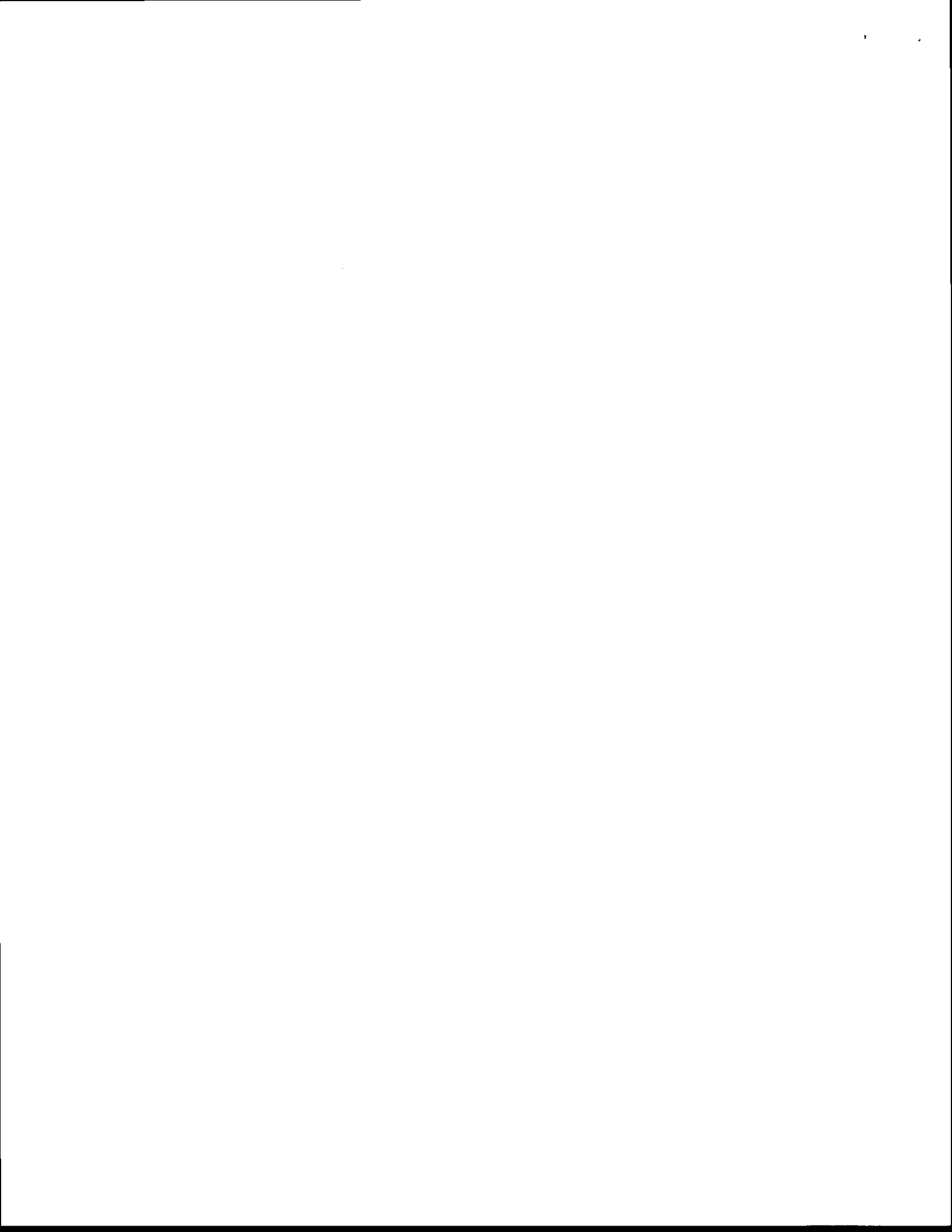
Ailsa S. Le May, R.G.  
Senior Geologist

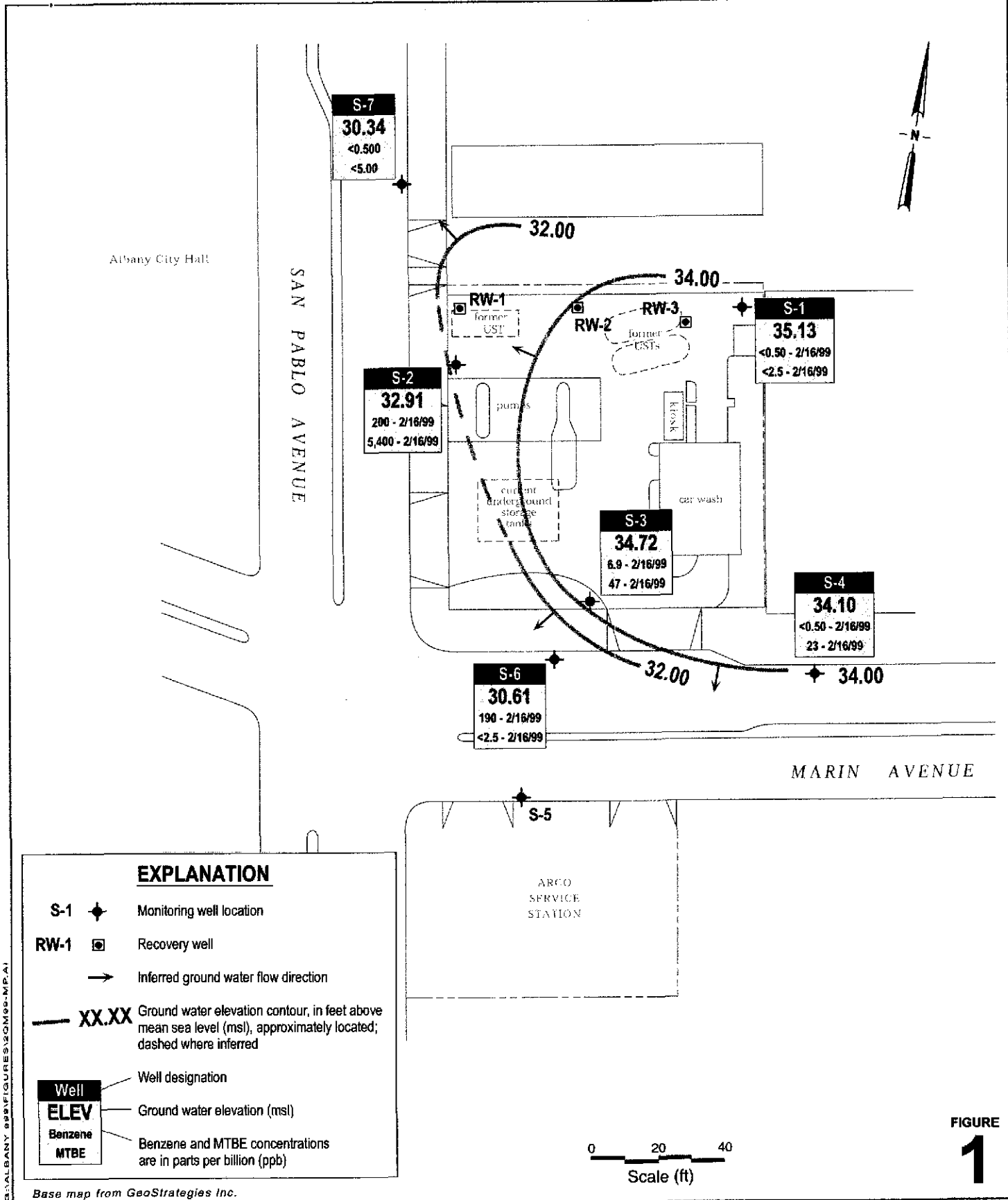


Figure: 1 - Ground Water Elevation Contour Map  
Attachment: A - Blaine Ground Water Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California 90749

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G:\ALBANY 989\FIGURES\20M99-MP.A1

Base map from GeoStrategies Inc.

**Shell-branded Service Station**  
 999 San Pablo Avenue  
 Albany, California  
 Incident #98995143



CAMBRIA

**Ground Water Elevation Contour Map**

May 28, 1999



C A M B R I A



**ATTACHMENT A**

Blaine Ground Water Monitoring Report  
and Field Notes





**BLAINE**  
TECH SERVICES INC.



1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE

June 29, 1999

Karen Petryna  
Equiva Services LLC  
P.O. Box 6249  
Carson, CA 90749-6249

Second Quarter 1999 Groundwater Monitoring at  
Shell-branded Service Station  
999 San Pablo Avenue  
Albany, CA

Monitoring performed on May 28, 1999

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Groundwater Monitoring Report **990528-T-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, appropriate calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

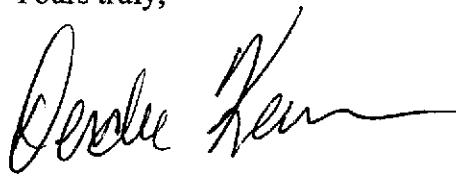
At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.



Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Deidre Kerwin". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Deidre Kerwin  
Operations Manager

DK/ld

attachments: Cumulative Table of WELL CONCENTRATIONS  
Certified Analytical Report  
Field Data Sheets

cc: Anni Kreml  
Cambria Environmental Technology, Inc.  
1144 65<sup>th</sup> Street, Ste. C  
Oakland, Ca 94608-2411



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**

Wic #204-0079-0109

| Well ID | Date       | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) | DO Reading (ppm) |
|---------|------------|-------------|----------|----------|----------|----------|------------------|------------------|-----------|----------------------|--------------------|---------------------|------------------|
| S-1     | 05/13/1991 | 1,500       | 20       | 2.6      | 86       | 74       | NA               | NA               | 42.73     | 8.24                 | 34.49              | NA                  | NA               |
| S-1     | 08/23/1991 | 2,900       | 27       | <2.5     | 75       | 18       | NA               | NA               | 42.73     | 8.37                 | 34.36              | NA                  | NA               |
| S-1     | 11/07/1991 | 2,900       | 8        | 2.5      | 46       | 26       | NA               | NA               | 42.73     | 8.30                 | 34.43              | NA                  | NA               |
| S-1     | 01/28/1992 | 2,000       | 11       | <2.5     | 60       | 20       | NA               | NA               | 42.73     | 7.84                 | 34.89              | NA                  | NA               |
| S-1     | 05/06/1992 | 1,200       | 5.5      | <2.5     | 80       | 36       | NA               | NA               | 42.73     | 7.95                 | 34.78              | NA                  | NA               |
| S-1     | 08/26/1992 | 2,000       | 9.4      | <2.5     | 130      | <2.5     | NA               | NA               | 42.73     | 8.24                 | 34.49              | NA                  | NA               |
| S-1     | 10/28/1992 | 1,300       | 27       | 3.2      | 72       | 13       | NA               | NA               | 42.73     | 8.52                 | 34.21              | NA                  | NA               |
| S-1     | 01/19/1993 | 1,500       | 13       | 3        | 29       | 31       | NA               | NA               | 42.73     | 6.54                 | 36.19              | NA                  | NA               |
| S-1     | 04/29/1993 | 2,000       | 15       | <2.5     | 82       | <65      | NA               | NA               | 42.73     | 7.93                 | 34.80              | NA                  | NA               |
| S-1     | 07/22/1993 | 620         | 1.1      | 4.2      | 3.5      | 13       | NA               | NA               | 42.73     | 8.09                 | 34.64              | NA                  | NA               |
| S-1     | 10/21/1993 | 1,200       | 34       | 25       | 15       | 9.5      | NA               | NA               | 42.73     | 9.43                 | 33.30              | NA                  | NA               |
| S-1     | 01/04/1994 | 860         | <2.5     | <2.5     | 5.7      | 5.3      | NA               | NA               | 42.73     | 8.25                 | 34.48              | NA                  | NA               |
| S-1     | 04/13/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 42.73     | 8.02                 | 34.71              | NA                  | NA               |
| S-1     | 07/25/1994 | 1,200       | 8.3      | 7.4      | 15       | 20       | NA               | NA               | 42.73     | 8.22                 | 34.51              | NA                  | NA               |
| S-1     | 10/10/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 42.73     | 8.29                 | 34.44              | NA                  | NA               |
| S-1     | 01/26/1995 | 1,000       | 12       | 0.6      | 12       | 420      | NA               | NA               | 42.73     | 6.88                 | 35.85              | NA                  | NA               |
| S-1     | 04/21/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 42.73     | 7.65                 | 35.08              | NA                  | NA               |
| S-1     | 07/28/1995 | 660         | 7.2      | 1        | 11       | 8.9      | NA               | NA               | 42.73     | 7.90                 | 34.83              | NA                  | 4                |
| S-1     | 10/31/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 42.73     | 7.72                 | 35.01              | NA                  | NA               |
| S-1     | 01/10/1996 | 1,100       | 3.5      | 7        | 5.1      | 9.4      | NA               | NA               | 42.73     | 8.24                 | 34.49              | NA                  | 7.4              |
| S-1     | 04/25/1996 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 42.73     | 7.74                 | 34.99              | NA                  | NA               |
| S-1     | 07/23/1996 | <50         | <0.5     | <0.5     | <0.5     | <0.5     | <2.5             | NA               | 42.73     | 7.92                 | 34.81              | NA                  | 2.7              |
| S-1     | 12/10/1996 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 42.73     | 7.56                 | 35.17              | NA                  | 0.6              |
| S-1     | 02/20/1997 | <50         | <0.50    | <0.50    | <0.50    | <0.50    | <2.5             | NA               | 42.73     | 7.95                 | 34.78              | NA                  | 3                |
| S-1     | 05/22/1997 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 42.73     | 8.11                 | 34.62              | NA                  | 0.5              |
| S-1     | 08/22/1997 | 810         | 18       | <2.0     | 5.1      | 4.4      | 18               | NA               | 42.73     | 7.86                 | 34.87              | NA                  | 3                |
| S-1     | 11/03/1997 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 42.73     | 8.35                 | 34.38              | NA                  | 1.1              |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**  
**Wic #204-0079-0109**

| Well ID | Date       | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) | DO Reading (ppm) |
|---------|------------|-------------|----------|----------|----------|----------|------------------|------------------|-----------|----------------------|--------------------|---------------------|------------------|
| S-1     | 02/20/1998 | <50         | <0.50    | <0.50    | <0.50    | <0.50    | <2.5             | NA               | 42.73     | 6.09                 | 36.64              | NA                  | 2.9              |
| S-1     | 05/18/1998 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 42.73     | 7.69                 | 35.04              | NA                  | 1.1              |
| S-1     | 08/20/1998 | 390         | 6.7      | <0.50    | 0.64     | <0.50    | 14               | NA               | 42.73     | 8.20                 | 34.53              | NA                  | 1.9              |
| S-1     | 11/06/1998 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 42.73     | 8.23                 | 34.50              | NA                  | NA               |
| S-1     | 02/16/1999 | <50         | <0.50    | <0.50    | <0.50    | <0.50    | <2.5             | NA               | 42.73     | 7.47                 | 35.26              | NA                  | 1.5              |
| S-1     | 05/28/1999 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 42.73     | 7.60                 | 35.13              | NA                  | 1.3              |
| S-2     | 05/13/1991 | 23,000      | 3,900    | 230      | 1,100    | 3,200    | NA               | NA               | 40.73     | 8.50                 | 32.23              | NA                  | NA               |
| S-2     | 08/23/1991 | 23,000      | 4,400    | 260      | 1,900    | 2,400    | NA               | NA               | 40.73     | 8.80                 | 31.93              | NA                  | NA               |
| S-2     | 11/07/1991 | 40,000      | 4,000    | 160      | 1,020    | 3,400    | NA               | NA               | 40.73     | 8.61                 | 32.12              | NA                  | NA               |
| S-2     | 01/28/1992 | 22,000      | 1,600    | 70       | 420      | 1,700    | NA               | NA               | 40.73     | 7.80                 | 32.93              | NA                  | NA               |
| S-2     | 05/06/1992 | 20,000      | 2,600    | 110      | 860      | 1,900    | NA               | NA               | 40.73     | 8.10                 | 32.63              | NA                  | NA               |
| S-2     | 08/26/1992 | 42,000      | 5,000    | 160      | 1,100    | 3,500    | NA               | NA               | 40.73     | 8.37                 | 32.36              | NA                  | NA               |
| S-2     | 10/28/1992 | 34,000      | 4,800    | 330      | 1,600    | 2,900    | NA               | NA               | 40.73     | 8.64                 | 32.09              | NA                  | NA               |
| S-2     | 01/19/1993 | 20,000      | 2,300    | 370      | 660      | 1,300    | NA               | NA               | 40.73     | 5.82                 | 34.91              | NA                  | NA               |
| S-2     | 04/29/1993 | 40,000      | 2,000    | 67       | 900      | 1,900    | NA               | NA               | 40.73     | 7.70                 | 33.03              | NA                  | NA               |
| S-2     | 07/22/1993 | 22,000      | 3,000    | 120      | 1,000    | 1,600    | NA               | NA               | 40.73     | 8.38                 | 32.35              | NA                  | NA               |
| S-2 (D) | 07/22/1993 | 17,000      | 3,000    | 110      | 1,000    | 1,500    | NA               | NA               | 40.73     | 8.38                 | 32.35              | NA                  | NA               |
| S-2     | 10/21/1993 | 14,000      | 2,800    | 74       | 870      | 1,100    | NA               | NA               | 40.73     | 8.58                 | 32.15              | NA                  | NA               |
| S-2 (D) | 10/21/1993 | 13,000      | 3,200    | 53       | 960      | 820      | NA               | NA               | 40.73     | 8.58                 | 32.15              | NA                  | NA               |
| S-2     | 01/04/1994 | 21,000      | 2,100    | 67       | 990      | 770      | NA               | NA               | 40.73     | 7.70                 | 33.03              | NA                  | NA               |
| S-2 (D) | 01/04/1994 | 22,000      | 2,000    | 64       | 910      | 750      | NA               | NA               | 40.73     | 7.70                 | 33.03              | NA                  | NA               |
| S-2     | 04/13/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 40.73     | 7.62                 | 33.11              | NA                  | NA               |
| S-2     | 07/25/1994 | 43,000      | 2,600    | 490      | 990      | 1,300    | NA               | NA               | 40.73     | 7.86                 | 32.87              | NA                  | NA               |
| S-2     | 10/10/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 40.73     | 8.12                 | 32.61              | NA                  | NA               |
| S-2     | 01/26/1995 | 21,000      | 790      | 12       | 290      | 570      | NA               | NA               | 40.73     | 6.38                 | 34.35              | NA                  | 5.5              |
| S-2     | 04/21/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 40.73     | 7.01                 | 33.72              | NA                  | NA               |
| S-2     | 07/28/1995 | 14,000      | 2,400    | 360      | 960      | 370      | NA               | NA               | 40.73     | 7.82                 | 32.91              | NA                  | 4                |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**  
**Wic #204-0079-0109**

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) | DO Reading (ppm) |
|---------|------|-------------|----------|----------|----------|----------|------------------|------------------|-----------|----------------------|--------------------|---------------------|------------------|
|---------|------|-------------|----------|----------|----------|----------|------------------|------------------|-----------|----------------------|--------------------|---------------------|------------------|

|         |            |        |       |      |       |     |        |        |       |      |       |    |     |
|---------|------------|--------|-------|------|-------|-----|--------|--------|-------|------|-------|----|-----|
| S-2     | 10/31/1995 | NA     | NA    | NA   | NA    | NA  | NA     | NA     | 40.73 | 7.57 | 33.16 | NA | NA  |
| S-2     | 01/10/1996 | 17,000 | 1,400 | <50  | 480   | 170 | NA     | NA     | 40.73 | 8.13 | 32.60 | NA | 7.2 |
| S-2     | 04/25/1996 | NA     | NA    | NA   | NA    | NA  | NA     | NA     | 40.73 | 7.72 | 33.01 | NA | NA  |
| S-2     | 07/23/1996 | 16,000 | 2,700 | 69   | 1,100 | 110 | 9,500  | NA     | 40.73 | 8.10 | 32.63 | NA | 2.2 |
| S-2 (D) | 07/23/1996 | 11,000 | 2,600 | 68   | 1,000 | 96  | 10,000 | 11,000 | 40.73 | 8.10 | 32.63 | NA | 2.2 |
| S-2     | 12/10/1996 | NA     | NA    | NA   | NA    | NA  | NA     | NA     | 40.73 | 8.57 | 32.16 | NA | 0.5 |
| S-2     | 02/20/1997 | 10,000 | 500   | <10  | 90    | 130 | 6,400  | NA     | 40.73 | 8.15 | 32.58 | NA | 4   |
| S-2     | 05/22/1997 | NA     | NA    | NA   | NA    | NA  | NA     | NA     | 40.73 | 8.79 | 31.94 | NA | 1.1 |
| S-2     | 08/22/1997 | 23,000 | 1,300 | 65   | 740   | 290 | 4,500  | NA     | 40.73 | 8.05 | 32.68 | NA | 3.2 |
| S-2 (D) | 08/22/1997 | 20,000 | 1,200 | <100 | 630   | 250 | 3,900  | NA     | 40.73 | 8.05 | 32.68 | NA | 3.2 |
| S-2     | 11/03/1997 | NA     | NA    | NA   | NA    | NA  | NA     | NA     | 40.73 | 8.75 | 31.98 | NA | 1.2 |
| S-2     | 02/20/1998 | 450    | 28    | 1.3  | 7.4   | 12  | 35     | NA     | 40.73 | 6.34 | 34.39 | NA | 0.4 |
| S-2     | 05/18/1998 | NA     | NA    | NA   | NA    | NA  | NA     | NA     | 40.73 | 7.95 | 32.78 | NA | 0.8 |
| S-2     | 08/20/1998 | 22,000 | 290   | 44   | 420   | 410 | 7,300  | NA     | 40.73 | 7.73 | 33.00 | NA | 1.9 |
| S-2     | 11/06/1998 | NA     | NA    | NA   | NA    | NA  | NA     | NA     | 40.73 | 8.47 | 32.26 | NA | NA  |
| S-2     | 02/16/1999 | 27,000 | 200   | <200 | 770   | 840 | 5,400  | NA     | 40.73 | 7.24 | 33.49 | NA | 1.4 |
| S-2     | 05/28/1999 | NA     | NA    | NA   | NA    | NA  | NA     | NA     | 40.73 | 7.82 | 32.91 | NA | 1.3 |

|         |            |       |    |     |     |     |    |    |       |      |       |    |    |
|---------|------------|-------|----|-----|-----|-----|----|----|-------|------|-------|----|----|
| S-3     | 05/13/1991 | 3,300 | 30 | 3.6 | 26  | 13  | NA | NA | 41.46 | 7.90 | 33.56 | NA | NA |
| S-3     | 08/23/1991 | 2,000 | 25 | 4   | 9.3 | 4.5 | NA | NA | 41.46 | 8.14 | 33.32 | NA | NA |
| S-3     | 11/07/1991 | 4,000 | 20 | 3.9 | 5   | 4.9 | NA | NA | 41.46 | 7.91 | 33.55 | NA | NA |
| S-3     | 01/28/1992 | 2,100 | 21 | 7.6 | 6.7 | 15  | NA | NA | 41.46 | 7.53 | 33.93 | NA | NA |
| S-3 (D) | 01/28/1992 | 2,100 | 18 | 6.1 | 7.1 | 14  | NA | NA | 41.46 | 7.53 | 33.93 | NA | NA |
| S-3     | 05/06/1992 | 6,600 | 38 | 51  | 45  | 65  | NA | NA | 41.46 | 7.55 | 33.91 | NA | NA |
| S-3     | 08/26/1992 | 5,800 | 18 | 12  | 29  | 60  | NA | NA | 41.46 | 7.53 | 33.93 | NA | NA |
| S-3     | 10/28/1992 | 3,000 | 55 | 11  | 16  | 32  | NA | NA | 41.46 | 7.95 | 33.51 | NA | NA |
| S-3     | 01/19/1993 | 3,100 | <5 | 5.1 | 11  | 16  | NA | NA | 41.46 | 6.12 | 35.34 | NA | NA |
| S-3     | 04/29/1993 | 3,000 | 31 | 22  | <5  | 14  | NA | NA | 41.46 | 7.27 | 34.19 | NA | NA |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**  
**Wic #204-0079-0109**

| Well ID | Date       | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) | DO Reading (ppm) |
|---------|------------|-------------|----------|----------|----------|----------|------------------|------------------|-----------|----------------------|--------------------|---------------------|------------------|
| S-3     | 07/22/1993 | 2,600       | 3.1      | 43       | 23       | 53       | NA               | NA               | 41.46     | 7.62                 | 33.84              | NA                  | NA               |
| S-3     | 10/21/1993 | 2,500       | 73       | 14       | 16       | 32       | NA               | NA               | 41.46     | 7.81                 | 33.65              | NA                  | NA               |
| S-3     | 01/04/1994 | 4,800       | 13       | 21       | <12.5    | 33       | NA               | NA               | 41.46     | 7.49                 | 33.97              | NA                  | NA               |
| S-3     | 04/13/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.46     | 7.32                 | 34.14              | NA                  | NA               |
| S-3     | 07/25/1994 | 2,600       | 6.1      | 4        | 3.8      | 12       | NA               | NA               | 41.46     | 7.66                 | 33.80              | NA                  | NA               |
| S-3     | 10/10/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.46     | 7.49                 | 33.97              | NA                  | NA               |
| S-3     | 01/26/1995 | 3,600       | 30       | 6.8      | 5.6      | 19       | NA               | NA               | 41.46     | 6.50                 | 34.96              | NA                  | NA               |
| S-3 (D) | 01/26/1995 | 2,200       | 9.9      | 15       | 14       | 22       | NA               | NA               | 41.46     | 6.50                 | 34.96              | NA                  | NA               |
| S-3     | 04/21/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.46     | 6.79                 | 34.67              | NA                  | NA               |
| S-3     | 07/28/1995 | 3,700       | 27       | 9.3      | 20       | 34       | NA               | NA               | 41.46     | 7.28                 | 34.18              | NA                  | 4                |
| S-3     | 10/31/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.46     | 6.74                 | 34.72              | NA                  | NA               |
| S-3     | 01/10/1996 | 4,000       | 10       | <0.5     | 13       | 28       | NA               | NA               | 41.46     | 7.48                 | 33.98              | NA                  | 6.1              |
| S-3     | 04/25/1996 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.46     | 6.90                 | 34.56              | NA                  | NA               |
| S-3     | 07/23/1996 | 2,100       | 20       | <0.5     | <0.5     | <0.5     | <25              | NA               | 41.46     | 7.04                 | 34.42              | NA                  | 2.1              |
| S-3     | 12/10/1996 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.46     | 7.96                 | 33.50              | NA                  | 0.7              |
| S-3     | 02/20/1997 | 3,500       | 83       | <5.0     | 18       | 16       | 130              | NA               | 41.46     | 7.44                 | 34.02              | NA                  | 3                |
| S-3 (D) | 02/20/1997 | 3,000       | 69       | <5.0     | 14       | 12       | 70               | NA               | 41.46     | 7.44                 | 34.02              | NA                  | 3                |
| S-3     | 05/22/1997 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.46     | 7.13                 | 34.33              | NA                  | 0.6              |
| S-3     | 08/22/1997 | 4,700       | 60       | 12       | 19       | 21       | 40               | NA               | 41.46     | 6.81                 | 34.65              | NA                  | 2.9              |
| S-3     | 11/03/1997 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.46     | 7.40                 | 34.06              | NA                  | 0.9              |
| S-3     | 02/20/1998 | 3,400       | <10      | <10      | 14       | 18       | 85               | NA               | 41.46     | 6.55                 | 34.91              | NA                  | 0.8              |
| S-3 (D) | 02/20/1998 | 3,100       | 8.6      | 7.8      | 12       | 16       | 57               | NA               | 41.46     | 6.55                 | 34.91              | NA                  | 0.8              |
| S-3     | 05/18/1998 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.46     | 6.81                 | 34.65              | NA                  | 0.7              |
| S-3     | 08/20/1998 | 4,400       | 67       | 23       | 9.8      | 22       | 240              | NA               | 41.46     | 6.98                 | 34.48              | NA                  | 2.2              |
| S-3     | 11/06/1998 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.46     | 6.96                 | 34.50              | NA                  | NA               |
| S-3     | 02/16/1999 | 2,000       | 6.9      | 6.2      | 3.7      | 4.8      | 47               | NA               | 41.46     | 6.93                 | 34.53              | NA                  | 2.0              |
| S-3     | 05/28/1999 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.46     | 6.74                 | 34.72              | NA                  | 1.8              |



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**  
**Wic #204-0079-0109**

| Well ID | Date       | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) | DO Reading (ppm) |
|---------|------------|-------------|----------|----------|----------|----------|------------------|------------------|-----------|----------------------|--------------------|---------------------|------------------|
| S-4     | 05/13/1991 | <50         | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 7.44                 | 33.66              | NA                  | NA               |
| S-4     | 08/23/1991 | <50         | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 8.32                 | 32.78              | NA                  | NA               |
| S-4     | 11/07/1991 | 260         | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 8.32                 | 32.78              | NA                  | NA               |
| S-4     | 01/28/1992 | 110c        | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 7.40                 | 33.70              | NA                  | NA               |
| S-4     | 05/06/1992 | 54          | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 7.21                 | 33.89              | NA                  | NA               |
| S-4     | 08/26/1992 | 67          | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 8.13                 | 32.97              | NA                  | NA               |
| S-4     | 10/28/1992 | <50         | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 8.73                 | 32.37              | NA                  | NA               |
| S-4     | 01/19/1993 | 86          | 1.2      | 0.7      | 2.7      | 15       | NA               | NA               | 41.10     | 5.86                 | 35.24              | NA                  | NA               |
| S-4     | 04/29/1993 | <50         | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 7.02                 | 34.08              | NA                  | NA               |
| S-4 (D) | 04/29/1993 | <50         | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 7.02                 | 34.08              | NA                  | NA               |
| S-4     | 07/22/1993 | <50         | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 7.76                 | 33.34              | NA                  | NA               |
| S-4     | 10/21/1993 | <50         | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 8.53                 | 32.57              | NA                  | NA               |
| S-4     | 01/04/1994 | <50         | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 7.92                 | 33.18              | NA                  | NA               |
| S-4     | 04/13/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 7.71                 | 33.39              | NA                  | NA               |
| S-4     | 07/25/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 7.82                 | 33.28              | NA                  | NA               |
| S-4     | 10/10/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 8.15                 | 32.95              | NA                  | NA               |
| S-4     | 01/26/1995 | <50         | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 41.10     | 5.73                 | 35.37              | NA                  | NA               |
| S-4     | 04/21/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 6.26                 | 34.84              | NA                  | NA               |
| S-4     | 07/28/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 7.80                 | 33.30              | NA                  | NA               |
| S-4     | 10/31/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 8.45                 | 32.65              | NA                  | NA               |
| S-4     | 01/10/1996 | <50         | 1        | 2.8      | <0.5     | 2.1      | NA               | NA               | 41.10     | 8.26                 | 32.84              | NA                  | 2.8              |
| S-4     | 04/25/1996 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 7.14                 | 33.96              | NA                  | NA               |
| S-4     | 07/23/1996 | <50         | <0.5     | <0.5     | <0.5     | <0.5     | <2.5             | NA               | 41.10     | 8.18                 | 32.92              | NA                  | 3.8              |
| S-4     | 12/10/1996 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 7.04                 | 34.06              | NA                  | 3.9              |
| S-4     | 02/20/1997 | <50         | <0.50    | <0.50    | <0.50    | <0.50    | 6.7              | NA               | 41.10     | 7.07                 | 34.03              | NA                  | 5                |
| S-4     | 05/22/1997 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 6.63                 | 34.47              | NA                  | 0.8              |
| S-4     | 08/22/1997 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 7.69                 | 33.41              | NA                  | 3.7              |
| S-4     | 11/03/1997 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 8.25                 | 32.84              | NA                  | 1.3              |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**  
**Wic #204-0079-0109**

| Well ID | Date       | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) | DO Reading (ppm) |
|---------|------------|-------------|----------|----------|----------|----------|------------------|------------------|-----------|----------------------|--------------------|---------------------|------------------|
| S-4     | 02/20/1998 | 130         | 6.9      | 4.6      | 5.2      | 17       | 2.8              | NA               | 41.10     | 5.57                 | 35.53              | NA                  | 1.8              |
| S-4     | 05/18/1998 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 7.13                 | 33.97              | NA                  | 1.4              |
| S-4     | 08/20/1998 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 7.77                 | 33.33              | NA                  | 4.0              |
| S-4     | 11/06/1998 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 7.85                 | 33.25              | NA                  | NA               |
| S-4     | 02/16/1999 | <50         | <0.50    | <0.50    | <0.50    | <0.50    | 23               | NA               | 41.10     | 6.51                 | 34.59              | NA                  | 3.6              |
| S-4     | 05/28/1999 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 41.10     | 7.00                 | 34.10              | NA                  | 3.2              |
| S-5     | 05/13/1991 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 14.60                | 30.57              | 6.48                | NA               |
| S-5     | 08/23/1991 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 15.14                | 29.25              | 5.50                | NA               |
| S-5     | 11/07/1991 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 15.10                | 29.17              | 5.35                | NA               |
| S-5     | 01/28/1992 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 14.05                | 29.86              | 4.90                | NA               |
| S-5     | 05/06/1992 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 14.31                | 30.21              | 5.66                | NA               |
| S-5     | 08/26/1992 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 14.26                | 28.77              | 3.80                | NA               |
| S-5     | 10/28/1992 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 14.22                | 28.82              | 3.81                | NA               |
| S-5     | 01/19/1993 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 12.36                | 30.80              | 3.96                | NA               |
| S-5     | 04/29/1993 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 9.64                 | 31.07              | 0.90                | NA               |
| S-5     | 07/22/1993 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 9.55                 | 31.16              | 0.90                | NA               |
| S-5     | 10/21/1993 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 11.23                | 29.34              | 0.73                | NA               |
| S-5     | 01/04/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 11.69                | 29.82              | 1.90                | NA               |
| S-5     | 04/13/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 11.42                | 29.87              | 1.62                | NA               |
| S-5     | 07/25/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 12.01                | 29.41              | 1.79                | NA               |
| S-5     | 10/10/1994 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 12.05                | 29.38              | 1.80                | NA               |
| S-5     | 01/26/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 8.42                 | 32.95              | 1.72                | NA               |
| S-5     | 04/21/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 10.03                | 30.90              | 1.17                | NA               |
| S-5     | 07/28/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 11.42                | 30.07              | 1.87                | NA               |
| S-5     | 10/31/1995 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 13.21                | 27.21              | 0.54                | NA               |
| S-5     | 01/10/1996 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 12.05                | 28.04              | 0.13                | NA               |
| S-5     | 04/25/1996 | NA          | NA       | NA       | NA       | NA       | NA               | NA               | 39.99     | 9.68                 | 30.33              | 0.03                | NA               |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**

**Wic #204-0079-0109**

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) | DO Reading (ppm) |
|---------|------|-------------|----------|----------|----------|----------|------------------|------------------|-----------|----------------------|--------------------|---------------------|------------------|
|---------|------|-------------|----------|----------|----------|----------|------------------|------------------|-----------|----------------------|--------------------|---------------------|------------------|

|         |            |         |       |        |       |        |        |    |       |       |       |      |    |
|---------|------------|---------|-------|--------|-------|--------|--------|----|-------|-------|-------|------|----|
| S-5     | 07/23/1996 | NA      | NA    | NA     | NA    | NA     | NA     | NA | 39.99 | 9.82  | 30.20 | 0.04 | NA |
| S-5     | 12/10/1996 | 270,000 | 8,800 | 29,000 | 5,200 | 37,000 | <2,500 | NA | 39.99 | 9.10  | 30.91 | 0.03 | NA |
| S-5 (D) | 12/10/1996 | 400,000 | 9,200 | 32,000 | 7,200 | 50,000 | <2,500 | NA | 39.99 | 9.10  | 30.91 | 0.03 | NA |
| S-5     | 02/20/1997 | 88,000  | 2,000 | 11,000 | 1,600 | 19,000 | <500   | NA | 39.99 | 8.93  | 31.06 | NA   | 5  |
| S-5     | 05/22/1997 | NA      | NA    | NA     | NA    | NA     | NA     | NA | 39.99 | 10.07 | 29.94 | 0.02 | NA |
| S-5     | 08/22/1997 | NA      | NA    | NA     | NA    | NA     | NA     | NA | 39.99 | 10.24 | 29.77 | 0.02 | NA |
| S-5     | 11/03/1997 | NA      | NA    | NA     | NA    | NA     | NA     | NA | 39.99 | 10.91 | 29.10 | 0.02 | NA |
| S-5     | 02/20/1998 | NA      | NA    | NA     | NA    | NA     | NA     | NA | 39.99 | 7.81  | 32.20 | 0.03 | NA |
| S-5     | 05/18/1998 | NA      | NA    | NA     | NA    | NA     | NA     | NA | 39.99 | 9.64  | 30.37 | 0.02 | NA |

|         |            |        |     |     |       |     |    |    |       |       |       |    |    |
|---------|------------|--------|-----|-----|-------|-----|----|----|-------|-------|-------|----|----|
| S-6     | 05/13/1991 | 13,000 | 600 | 140 | 210   | 310 | NA | NA | 40.12 | 7.82  | 32.30 | NA | NA |
| S-6     | 08/23/1991 | 9,800  | 480 | 80  | 120   | 150 | NA | NA | 40.12 | 9.58  | 30.54 | NA | NA |
| S-6     | 11/07/1991 | 6,200  | 240 | 23  | 25    | 27  | NA | NA | 40.12 | 10.86 | 29.26 | NA | NA |
| S-6     | 01/28/1992 | 5,600  | 250 | 15  | 41    | 36  | NA | NA | 40.12 | 8.97  | 31.15 | NA | NA |
| S-6     | 05/06/1992 | 7,100  | 330 | 29  | 110   | 210 | NA | NA | 40.12 | 8.27  | 31.85 | NA | NA |
| S-6     | 08/26/1992 | 13,000 | 240 | <50 | 56    | 780 | NA | NA | 40.12 | 9.57  | 31.55 | NA | NA |
| S-6     | 10/28/1992 | 10,000 | 470 | 210 | 67    | 170 | NA | NA | 40.12 | 8.90  | 32.22 | NA | NA |
| S-6     | 01/19/1993 | 4,800  | 100 | 26  | 27    | 45  | NA | NA | 40.12 | 4.84  | 35.28 | NA | NA |
| S-6     | 04/29/1993 | 7,000  | 430 | 20  | <12.5 | 42  | NA | NA | 40.12 | 5.61  | 34.51 | NA | NA |
| S-6     | 07/22/1993 | 5,800  | 260 | 120 | 65    | 150 | NA | NA | 40.12 | 6.56  | 33.56 | NA | NA |
| S-6     | 10/21/1993 | 5,500  | 270 | 69  | 120   | 140 | NA | NA | 40.12 | 8.73  | 31.39 | NA | NA |
| S-6     | 01/04/1994 | 7,100  | 180 | 58  | 63    | 62  | NA | NA | 40.12 | 7.14  | 32.98 | NA | NA |
| S-6     | 04/13/1994 | NA     | NA  | NA  | NA    | NA  | NA | NA | 40.12 | 7.21  | 32.91 | NA | NA |
| S-6     | 07/25/1994 | 12,000 | 190 | 52  | 30    | 39  | NA | NA | 40.12 | 6.85  | 33.27 | NA | NA |
| S-6 (D) | 07/25/1994 | 7,200  | 170 | 32  | 31    | 34  | NA | NA | 40.12 | 6.85  | 33.27 | NA | NA |
| S-6     | 10/10/1994 | NA     | NA  | NA  | NA    | NA  | NA | NA | 40.12 | 6.20  | 33.92 | NA | NA |
| S-6     | 01/26/1995 | 5,800  | 120 | 23  | 24    | 44  | NA | NA | 40.12 | 4.89  | 35.23 | NA | NA |
| S-6     | 04/21/1995 | NA     | NA  | NA  | NA    | NA  | NA | NA | 40.12 | 5.61  | 34.51 | NA | NA |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**  
**Wic #204-0079-0109**

| Well ID   | Date       | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOB<br>(MSL) | Depth to<br>Water<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) |
|-----------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|------------------------|
| S-6       | 07/28/1995 | 4,400          | 210         | 23          | 34          | 60          | NA                     | NA                     | 40.12        | 5.30                       | 34.82                    | NA                        | 3                      |
| S-6 (D)   | 07/28/1995 | 6,100          | 230         | 20          | 38          | 59          | NA                     | NA                     | 40.12        | 5.30                       | 34.82                    | NA                        | 3                      |
| S-6       | 10/31/1995 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 40.12        | 4.98                       | 35.14                    | NA                        | NA                     |
| S-6       | 01/10/1996 | 6,800          | 170         | 87          | 35          | 105         | NA                     | NA                     | 40.12        | 5.67                       | 34.45                    | NA                        | 2.2                    |
| S-6 (D)   | 01/10/1996 | 7,800          | 230         | 120         | 50          | 210         | NA                     | NA                     | 40.12        | 5.67                       | 34.45                    | NA                        | 2.2                    |
| S-6       | 04/25/1996 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 40.12        | 5.23                       | 34.89                    | NA                        | NA                     |
| S-6       | 07/23/1996 | 2,600          | 170         | <0.5        | <0.5        | 8.5         | <25                    | NA                     | 40.12        | 5.40                       | 34.72                    | NA                        | 1.4                    |
| S-6       | 12/10/1996 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 40.12        | 6.68                       | 33.44                    | NA                        | 0.7                    |
| S-6       | 02/20/1997 | 6,300          | 160         | 7.7         | 14          | 31          | 77                     | NA                     | 40.12        | 5.70                       | 34.42                    | NA                        | 2                      |
| S-6       | 05/22/1997 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 40.12        | 5.49                       | 34.63                    | NA                        | 0.9                    |
| S-6       | 08/22/1997 | 6,200          | 160         | 26          | 15          | 27          | 49                     | NA                     | 40.12        | 5.71                       | 34.41                    | NA                        | 2.8                    |
| S-6       | 11/03/1997 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 40.12        | 6.15                       | 33.97                    | NA                        | 1.4                    |
| S-6       | 02/20/1998 | 4,100          | 150         | <10         | <10         | 15          | 55                     | NA                     | 40.12        | 5.25                       | 34.87                    | NA                        | 0.4                    |
| S-6       | 05/18/1998 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 40.12        | 5.69                       | 34.43                    | NA                        | 0.4                    |
| S-6       | 08/20/1998 | 7,800          | 240         | 38          | 16          | 39          | 110                    | NA                     | 40.12        | 6.04                       | 34.08                    | NA                        | 1.5                    |
| S-6 (D) b | 08/20/1998 | 8,400          | 270         | 30          | 19          | 31          | 130                    | NA                     | 40.12        | 6.04                       | 34.08                    | NA                        | 1.5                    |
| S-6       | 11/06/1998 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 40.12        | 6.10                       | 34.02                    | NA                        | NA                     |
| S-6       | 02/16/1999 | 6,000          | 190         | 19          | 14          | 20          | <2.5                   | NA                     | 40.12        | 5.84                       | 34.28                    | NA                        | 1.7                    |
| S-6       | 05/28/1999 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 40.12        | 9.51                       | 30.61                    | NA                        | 1.9                    |
| S-7       | 05/13/1991 | <50            | <0.5        | <0.5        | <0.5        | <0.5        | NA                     | NA                     | 40.10        | 10.56                      | 29.54                    | NA                        | NA                     |
| S-7       | 08/23/1991 | <50            | <0.5        | <0.5        | <0.5        | <0.5        | NA                     | NA                     | 40.10        | 11.16                      | 28.94                    | NA                        | NA                     |
| S-7       | 11/07/1991 | <50            | <0.5        | <0.5        | <0.5        | <0.5        | NA                     | NA                     | 40.10        | 11.48                      | 28.62                    | NA                        | NA                     |
| S-7       | 01/28/1992 | <50            | <0.5        | <0.5        | <0.5        | <0.5        | NA                     | NA                     | 40.10        | 10.72                      | 29.38                    | NA                        | NA                     |
| S-7       | 05/06/1992 | <50            | <0.5        | <0.5        | <0.5        | <0.5        | NA                     | NA                     | 40.10        | 10.34                      | 29.76                    | NA                        | NA                     |
| S-7       | 08/26/1992 | 160            | <0.5        | <0.5        | <0.5        | <0.5        | NA                     | NA                     | 40.10        | 11.13                      | 28.97                    | NA                        | NA                     |
| S-7       | 10/28/1992 | <50            | <0.5        | <0.5        | <0.5        | <0.5        | NA                     | NA                     | 40.10        | 11.52                      | 28.58                    | NA                        | NA                     |
| S-7       | 01/19/1993 | 50             | 1.1         | 0.6         | 1.9         | 9.2         | NA                     | NA                     | 40.10        | 8.68                       | 31.42                    | NA                        | NA                     |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**  
**Wic #204-0079-0109**

| Well ID | Date       | TPPH (ug/L)       | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) | DO Reading (ppm) |
|---------|------------|-------------------|----------|----------|----------|----------|------------------|------------------|-----------|----------------------|--------------------|---------------------|------------------|
| S-7     | 04/29/1993 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 40.10     | 9.90                 | 30.20              | NA                  | NA               |
| S-7     | 07/22/1993 | Well inaccessible |          | NA       | NA       | NA       | NA               | NA               | 40.10     | NA                   | NA                 | NA                  | NA               |
| S-7     | 10/21/1993 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 40.10     | 11.10                | 29.00              | NA                  | NA               |
| S-7     | 01/04/1994 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 40.10     | 10.40                | 29.70              | NA                  | NA               |
| S-7     | 04/13/1994 | <50               | 1.4      | 0.61     | <0.5     | 0.64     | NA               | NA               | 40.10     | 10.20                | 29.90              | NA                  | NA               |
| S-7 (D) | 04/13/1994 | <50               | 1.4      | 0.61     | <0.5     | 0.66     | NA               | NA               | 40.10     | 10.20                | 29.90              | NA                  | NA               |
| S-7     | 07/25/1994 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 40.10     | 10.48                | 29.62              | NA                  | NA               |
| S-7 a   | 10/10/1994 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 40.10     | 10.64                | 29.46              | NA                  | NA               |
| S-7     | 01/26/1995 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 40.10     | 7.75                 | 32.35              | NA                  | 4.6              |
| S-7     | 04/21/1995 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 40.10     | 8.51                 | 31.59              | NA                  | NA               |
| S-7     | 07/28/1995 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 40.10     | 10.20                | 29.90              | NA                  | 3                |
| S-7     | 10/31/1995 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | NA               | NA               | 40.10     | 10.86                | 29.24              | NA                  | 4.9              |
| S-7     | 01/10/1996 | <50               | <0.5     | 2        | <0.5     | 2.6      | NA               | NA               | 40.10     | 10.33                | 29.77              | NA                  | 7.6              |
| S-7     | 04/25/1996 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | <2.5             | NA               | 40.10     | 9.13                 | 30.97              | NA                  | 6.2              |
| S-7     | 07/23/1996 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | 14               | NA               | 40.10     | 10.18                | 29.92              | NA                  | 3.7              |
| S-7     | 12/10/1996 | <50               | <0.5     | <0.5     | <0.5     | <0.5     | <2.5             | NA               | 40.10     | 9.04                 | 31.06              | NA                  | 4.6              |
| S-7     | 02/20/1997 | <50               | <0.50    | <0.50    | <0.50    | <0.50    | <2.5             | NA               | 40.10     | 9.60                 | 30.50              | NA                  | 5                |
| S-7     | 05/22/1997 | <50               | 1.3      | <0.50    | <0.50    | <0.50    | 5.5              | NA               | 40.10     | 10.63                | 29.47              | NA                  | 0.8              |
| S-7     | 08/22/1997 | <50               | <0.50    | <0.50    | <0.50    | <0.50    | <2.5             | NA               | 40.10     | 10.95                | 29.15              | NA                  | 2.6              |
| S-7     | 11/03/1997 | <50               | 2.2      | 1.7      | 0.58     | 3.4      | <2.5             | NA               | 40.10     | 11.29                | 28.81              | NA                  | 2.6              |
| S-7     | 02/20/1998 | 350               | 23       | 13       | 14       | 42       | 3.8              | NA               | 40.10     | 7.73                 | 32.37              | NA                  | 4.6              |
| S-7     | 05/18/1998 | <50               | <0.50    | <0.50    | <0.50    | <0.50    | <2.5             | NA               | 40.10     | 10.29                | 29.81              | NA                  | 4.4              |
| S-7     | 08/20/1998 | Well inaccessible |          | NA       | NA       | NA       | NA               | NA               | 40.10     | 11.00                | 29.10              | NA                  | 5.4              |
| S-7     | 11/06/1998 | <50               | <0.50    | <0.50    | <0.50    | <0.50    | <2.5             | NA               | 40.10     | 11.19                | 28.91              | NA                  | 5.2              |
| S-7     | 02/16/1999 | Well inaccessible |          | NA       | NA       | NA       | NA               | NA               | 40.10     | NA                   | NA                 | NA                  | NA               |
| S-7     | 05/28/1999 | <50.0             | <0.500   | <0.500   | <0.500   | <0.500   | <5.00            | NA               | 40.10     | 9.76                 | 30.34              | NA                  | 2.7              |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**  
**Wic #204-0079-0109**

| Well ID | Date | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOB<br>(MSL) | Depth to<br>Water<br>(ft.) | GW<br>Elevation<br>(MSL) | SPH<br>Thickness<br>(ft.) | DO<br>Reading<br>(ppm) |
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|------------------------|
|         |      |                |             |             |             |             |                        |                        |              |                            |                          |                           |                        |

Abbreviations:

TPPH= Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl ether

TOB = Top of Wellbox Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

Notes:

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

b = Surrogate recovery outside QC limits due to matrix effect.

c = Chromatogram pattern indicated an unidentified hydrocarbon.

When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation:

Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).



# Sequoia Analytical

1551 Industrial Road  
San Carlos, CA 94070-4111  
(650) 232-9600  
FAX (650) 232-9612

June 16, 1999

Fran Thie  
Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

RE: Shell(1)/L906020

Dear Fran Thie:

Enclosed are the results of analyses for sample(s) received by the laboratory on June 1, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Costello  
Lab Director

CA ELAP Certificate Number I-2360





Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Project: Shell(1)  
Project Number: Shell 999 San Pablo., Albany  
Project Manager: Fran Thie

Sampled: 5/28/99  
Received: 6/1/99  
Reported: 6/16/99

**ANALYTICAL REPORT FOR L906020**

| Sample Description | Laboratory Sample Number | Sample Matrix | Date Sampled |
|--------------------|--------------------------|---------------|--------------|
| S-7                | L906020-01               | Water         | 5/28/99      |







|  |   |   |
|--|---|---|
| Blaine Tech Services<br>1680 Rogers Avenue<br>San Jose, CA 95112 | Project: Shell(1)<br>Project Number: Shell 999 San Pablo., Albany<br>Project Manager: Fran Thie | Sampled: 5/28/99<br>Received: 6/1/99<br>Reported: 6/16/99 |
|--|---|---|

**Sample Description:** S-7  
**Laboratory Sample Number:** L906020-01

| Analyte | Batch Number | Date Prepared | Date Analyzed | Specific Method/<br>Surrogate Limits | Reporting Limit | Result | Units | Notes* |
|---------|--------------|---------------|---------------|--------------------------------------|-----------------|--------|-------|--------|
|---------|--------------|---------------|---------------|--------------------------------------|-----------------|--------|-------|--------|

**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

|  |         |         |         |          |       |     |      |  |
|--|---------|---------|---------|----------|-------|-----|------|--|
| Purgeable Hydrocarbons as Gasoline       | 9060062 | 6/10/99 | 6/10/99 |          | 50.0  | ND  | ug/l |  |
| Benzene                                  | "       | "       | "       |          | 0.500 | ND  | "    |  |
| Toluene                                  | "       | "       | "       |          | 0.500 | ND  | "    |  |
| Ethylbenzene                             | "       | "       | "       |          | 0.500 | ND  | "    |  |
| Xylenes (total)                          | "       | "       | "       |          | 0.500 | ND  | "    |  |
| Methyl tert-butyl ether                  | "       | "       | "       |          | 5.00  | ND  | "    |  |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | "       | "       | "       | 70.0-130 |       | 109 | %    |  |





|  |   |   |
|--|---|---|
| Blaine Tech Services<br>1680 Rogers Avenue<br>San Jose, CA 95112 | Project: Shell(1)<br>Project Number: Shell 999 San Pablo., Albany<br>Project Manager: Fran Thie | Sampled: 5/28/99<br>Received: 6/1/99<br>Reported: 6/16/99 |
|--|---|---|

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control  
Sequoia Analytical - San Carlos**

| Analyte                            | Date Analyzed | Spike Level                   | Sample Result | QC Result         | Units                                     | Reporting Limit<br>Recov. Limits | Recov. % | RPD Limit | RPD % | Notes* |
|------------------------------------|---------------|-------------------------------|---------------|-------------------|---|----------------------------------|----------|-----------|-------|--------|
| <b>Batch: 9060062</b>              |               | <b>Date Prepared: 6/10/99</b> |               |                   | <b>Extraction Method: EPA 5030B [P/T]</b> |                                  |          |           |       |        |
| <b>Blank</b>                       |               | <b>9060062-BLK1</b>           |               |                   |   |                                  |          |           |       |        |
| Purgeable Hydrocarbons as Gasoline | 6/10/99       |                               |               | ND                | ug/l                                      | 50.0                             |          |           |       |        |
| Benzene                            | "             |                               |               | ND                | "   | 0.500                            |          |           |       |        |
| Toluene                            | "             |                               |               | ND                | "   | 0.500                            |          |           |       |        |
| Ethylbenzene                       | "             |                               |               | ND                | "   | 0.500                            |          |           |       |        |
| Xylenes (total)                    | "             |                               |               | ND                | "   | 0.500                            |          |           |       |        |
| Methyl tert-butyl ether            | "             |                               |               | ND                | "   | 5.00                             |          |           |       |        |
| Surrogate: a,a,a-Trifluorotoluene  | "             | 10.0                          |               | 10.4              | "   | 70.0-130                         | 104      |           |       |        |
| <b>LCS</b>                         |               | <b>9060062-BS1</b>            |               |                   |   |                                  |          |           |       |        |
| Purgeable Hydrocarbons as Gasoline | 6/10/99       | 250                           |               | 270               | ug/l                                      | 70.0-130                         | 108      |           |       |        |
| Surrogate: a,a,a-Trifluorotoluene  | "             | 10.0                          |               | 11.7              | "   | 70.0-130                         | 117      |           |       |        |
| <b>Matrix Spike</b>                |               | <b>9060062-MS1</b>            |               | <b>L905592-02</b> |   |                                  |          |           |       |        |
| Purgeable Hydrocarbons as Gasoline | 6/10/99       | 250                           | ND            | 215               | ug/l                                      | 60.0-140                         | 86.0     |           |       |        |
| Surrogate: a,a,a-Trifluorotoluene  | "             | 10.0                          |               | 10.6              | "   | 70.0-130                         | 106      |           |       |        |
| <b>Matrix Spike Dup</b>            |               | <b>9060062-MSD1</b>           |               | <b>L905592-02</b> |   |                                  |          |           |       |        |
| Purgeable Hydrocarbons as Gasoline | 6/10/99       | 250                           | ND            | 206               | ug/l                                      | 60.0-140                         | 82.4     | 25.0      | 4.28  |        |
| Surrogate: a,a,a-Trifluorotoluene  | "             | 10.0                          |               | 9.85              | "   | 70.0-130                         | 98.5     |           |       |        |





|  |   |   |
|--|---|---|
| Blaine Tech Services<br>1680 Rogers Avenue<br>San Jose, CA 95112 | Project: Shell(1)<br>Project Number: Shell 999 San Pablo., Albany<br>Project Manager: Fran Thie | Sampled: 5/28/99<br>Received: 6/1/99<br>Reported: 6/16/99 |
|--|---|---|

**Notes and Definitions**

| # | Note |
|---|------|
|---|------|

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference





**SHELL OIL COMPANY**  
**RETAIL ENVIRONMENTAL ENGINEERING - WEST**

Site Address: 999 San Pablo Ave., Albany, CA

WIC#: 204-0079-0109

906020

Shell Engineer: Alex Perez  
 Phone No: (510) 675-6168  
 Fax #: 675-6172

Consultant Name & Address:  
 Blaine Tech Services, Inc.  
 1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie  
 Phone No: (408) 573-0555  
 Fax #: 573-7771

Comments:

Sampled by: *frank*

Printed Name: Mike TBA

| Sample ID | Date | Sludge | Soil | Water | Air | No. of conis. |
|-----------|------|--------|------|-------|-----|---------------|
| 5-7       | 5/28 |        |      | X     |     | 3             |

**CHAIN OF CUSTODY RECORD**

Date: 5/28/99  
 Page 1 of 1

Serial No: 990528-TT

LAB: 3EQ

**Analysis Required**

| Analysis Required | TPH (EPA 8015 Mod. Gas) | TPH (EPA 8015 Mod. Diesel) | BTEX (EPA 8020/402) | Volatile Organics (EPA 8240) | Test for Disposal | Combination TPH 8015 & BTEX 8020 <i>INTR</i> | Asbestos | Container Size | Preparation Used | Composite Y/N |
|-------------------|-------------------------|----------------------------|---------------------|------------------------------|-------------------|--|----------|----------------|------------------|---------------|
|                   |                         |                            |                     |                              |                   |  |          |                |                  |               |

| CHECK ONE (1) BOX ONLY                                     | CI/DI | TURN AROUND TIME                                     |
|--|-------|--|
| G.W. Monitoring <input checked="" type="checkbox"/> 4441   |       | 24 hours <input type="checkbox"/>                    |
| Site Investigation <input type="checkbox"/> 4441           |       | 48 hours <input type="checkbox"/>                    |
| Soil Classfy/Disposal <input type="checkbox"/> 4442        |       | 15 days <input checked="" type="checkbox"/> (Normal) |
| Water Classfy/Disposal <input type="checkbox"/> 4443       |       | Other <input type="checkbox"/>                       |
| Soil/Air Rem. or Styl. O & M <input type="checkbox"/> 4452 |       |  |
| Water Rem. or Styl. O & M <input type="checkbox"/> 4453    |       |  |
| Other <input type="checkbox"/>                             |       |  |

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY:

| MATERIAL DESCRIPTION | SAMPLE CONDITION/ COMMENTS |
|----------------------|----------------------------|
|                      |                            |

| Relinquished By (signature): | Printed Name:   | Date:   | Received (signature): | Printed Name: | Date:   |
|------------------------------|-----------------|---------|-----------------------|---------------|---------|
| <i>[Signature]</i>           | Mike TBA        |         | <i>[Signature]</i>    | Mike TBA      |         |
| <i>[Signature]</i>           | JAMES G. TAYLOR | 5/11/99 | <i>[Signature]</i>    | F. C. BLANCO  | 5/11/99 |
| <i>[Signature]</i>           |                 | 5/11/99 | <i>[Signature]</i>    |               | 5/11/99 |

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS



## EQUIVA WELL MONITORING DATA SHEET

|                                 |  |
|---------------------------------|--|
| Project #: 990528-T1            | Job # 204-0079-0109                    |
| Sampler: MT                     | Date: 5/28                             |
| Well I.D.: S7                   | Well Diameter: 2 <u>3</u> 4 6 8        |
| Total Well Depth: 1497          | Depth to Water: 9.76                   |
| Depth to Free Product:          | Thickness of Free Product (feet):      |
| Referenced to: PVC <u>Grade</u> | D.O. Meter (if req'd): <u>YSI</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method:

Bailer  
Middleburg  
Electric Submersible  
Extraction Pump

Sampling Method:

Bailer  
Extraction Port

Other: \_\_\_\_\_

Other: \_\_\_\_\_

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| 2.0                   | x | 3                 | = | 6.0               | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Cond. | Turbidity | Gals. Removed | Observations  |
|------|-----------|-----|-------|-----------|---------------|---------------|
| 952  | 68.2      | 7.0 | 476   | > 200     | 2             |               |
| 954  | 68.0      | 6.9 | 502   | > 200     | 4             | Slow Recharge |
| 959  | 68.4      | 6.9 | 506   | > 200     | 6             | " "           |
|      |           |     |       |           |               |               |
|      |           |     |       |           |               |               |

Did well dewater? Yes NO Gallons actually evacuated: 6

Sampling Time: 1005 Sampling Date: 5/28

Sample I.D.: S-7 Laboratory: Sequoia BC Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

|                    |                   |          |             |      |
|--------------------|-------------------|----------|-------------|------|
| D.O. (if req'd):   | <u>Pre-purge:</u> | 2.7 mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | <u>Pre-purge:</u> | mV       | Post-purge: | mV   |

**WELL HEAD INSPECTION CHECKLIST AND REPAIR ORDER**

Shell WIC#204-0079-0109    # \_\_\_\_\_  
 999 SAN PABLO AVE.  
 ALBANY \_\_\_\_\_

Inspection date: 5/29/99

Inspected by: MT

BTS Event # 990529-T1

|                           |                                      |                             |
|---------------------------|--------------------------------------|-----------------------------|
| 1. Lid on the box? Yes No | 5. Water standing in the well box?   | 7. Can cap be pulled loose? |
| 2. Lid whole?             | 5a. Standing above well top?         | 8. Can cap seal out water?  |
| 3. Lid secure?            | 5b. Standing below well top?         | 9. Padlock present?         |
| 4. Lid seal intact?       | 5c. Water even with top of well cap? | 10. Padlock found locked?   |
|                           | 6. Well cap/plug present?            | 11. Padlock functional?     |

Check box if *no deficiencies* were found.    Note below deficiencies you were able to correct.

| Well I.D. | Deficiency | Corrective Action Taken  |
|-----------|------------|--------------------------|
| S-7       | SA         | Removed H <sub>2</sub> O |
|           |            |                          |
|           |            |                          |
|           |            |                          |
|           |            |                          |
|           |            |                          |
|           |            |                          |
|           |            |                          |
|           |            |                          |
|           |            |                          |

Note below all deficiencies that could not be corrected and *still need to be corrected*.

| Well I.D. | Persisting Deficiency | BTS Office assigns or defers Correction to: | Date assigned | Date corrected |
|-----------|-----------------------|---|---------------|----------------|
|           |                       |   |               |                |
|           |                       |   |               |                |
|           |                       |   |               |                |
|           |                       |   |               |                |
|           |                       |   |               |                |
|           |                       |   |               |                |
|           |                       |   |               |                |
|           |                       |   |               |                |
|           |                       |   |               |                |
|           |                       |   |               |                |

Office review and assignments made by \_\_\_\_\_ date \_\_\_\_\_

