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September 14, 1994
Project 0117-115.01

Mr. Lynn Walker
Shell Oil Company
P.O. Box 4023
Concord, California 94524

Re: Third Quarter 1994 Groundwater Monitoring Report for Shell Oil Company
(Shell) Service Station, 15275 Washington, San Leandro, California
(WIC No. 204-6852-1008)

Dear Mr. Walker:

This letter presents the results of the third quarter 1994 monitoring performed by Blaine Tech Services, Inc. (Blaine) at and near the Shell service station located at 15275 Washington in San Leandro, California (see Figure 1). The monitoring activities were performed consistent with regulatory requirements for quarterly monitoring and reporting.

Groundwater samples were collected from monitoring wells S-1, S-3, S-5, S-7 through S-10, S-12, S-15, S-16, S-18, and SR-1 on July 26 and 27, 1994. Water levels were also measured in each of these wells. Samples were collected and water levels were measured consistent with the procedures described in Blaine's *Quarterly Groundwater Sampling Report 940726-J-1*, presented in Attachment A.

BACKGROUND

In July 1985 four groundwater monitoring wells (S-1 through S-4) were installed by EMCON Associates to assess soil and groundwater conditions beneath the site (see Figure 2). Total petroleum hydrocarbons as gasoline (TPHG) were detected in soil and groundwater samples, and well S-3 contained approximately 0.5 foot of floating product.

In August 1986 four soil borings (S-A through S-D) were drilled within the underground fuel tank complex prior to removal of the tanks. Boring S-A was drilled adjacent to the former waste oil tank, and boring S-B was converted to a temporary tank backfill monitoring well. TPHG was detected in soil samples from these borings; however, no waste oil was detected in the analyzed soil samples.

In June 1987 the underground fuel storage tanks were removed. The temporary tank backfill well S-B and monitoring wells S-2 and S-4 were destroyed during construction activities.



Between December 1986 and May 1991 fourteen groundwater monitoring wells (S-5 through S-18) and one recovery well (SR-1) were installed on and off site. The groundwater monitoring well network has been monitored quarterly since September 1988.

In October 1988 a soil-gas survey was conducted by Tracer Research Corporation at 15 off-site locations. Samples were collected south of the site along Lewelling Boulevard and on the adjacent property to the west. The highest soil vapor concentrations were detected south of the site along Lewelling Boulevard.

In March 1990 hydraulic testing was conducted. A variable discharge test was conducted using well SR-1, and slug tests were conducted in several wells. The hydraulic tests indicated low-yield conditions in the shallow aquifer.

At some time between July 23, 1993, and October 27, 1993, monitoring wells S-11 through S-15 were paved over by the city of San Leandro. On May 3, 1994, the wells were relocated and the vault boxes raised to match the new grade.

GROUNDWATER FLOW DIRECTION

Table 1 presents a summary of historical groundwater elevation data, including data for the third quarter of 1994. Based on water levels measured in wells S-1, S-3, S-5 through S-18, and SR-1 on July 26 and 27, 1994 (see Table 1), and top-of-casing elevations, the direction of groundwater flow at the site is generally toward the southeast (see Figure 2). This is consistent with the historical direction of groundwater flow.

SAMPLING FREQUENCY

Groundwater samples are collected quarterly from monitoring wells S-1, S-3, S-5, S-7 through S-10, S-12, S-15, S-16, S-18, and SR-1. Wells S-6, S-11, S-13, S-14, and S-17 are sampled semiannually during the second and fourth quarters. The samples are analyzed for TPHG; and benzene, toluene, ethylbenzene, and total xylenes (BTEX).

ANALYTICAL RESULTS

Table 2 presents a summary of historical groundwater analytical results, including analytical results for the third quarter 1994 monitoring event. Certified analytical reports are included in Attachment A. Figure 3 shows the concentrations of TPHG and BTEX at each monitoring location.

TPHG and BTEX were not detected in samples from wells S-7, S-10, S-12, S-15, or S-16. TPHG was not detected in the sample from wells S-8 and S-18. The highest TPHG and BTEX


concentrations were generally detected in the sample from well S-3, which contained 18 milligrams per liter (mg/l) of TPHG and 1.039 mg/l of benzene.

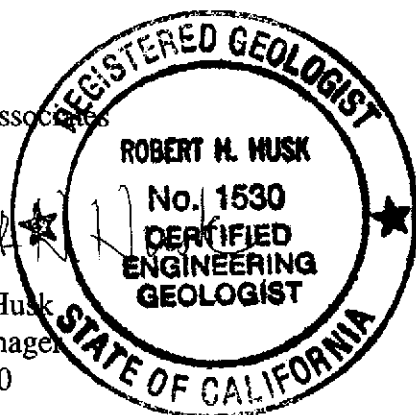
The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

If you have any questions, please call

Sincerely,

EMCON Associates


Robert H. Husk
Project Manager
C.E.G. 1530




Charles S. Metzinger
Project Supervisor

Attachments: Table 1 Summary of Historical Groundwater Elevation Data
Table 2 Summary of Historical Groundwater Analytical Results
Figure 1 Site Location Map
Figure 2 Groundwater Contour Map, July 26, 1994
Figure 3 TPHG and BTEX Concentration Map, July 1994
Attachment A *Quarterly Groundwater Sampling Report 940726-J-1*,
Blaine Tech Services, Inc.

Cc: Juliette Shin, Alameda County Department of Environmental Health
Rich Hiatt, Regional Water Quality Control Board, San Francisco Bay Region

Table 1
Summary of Historical Groundwater Elevation Data

| well | Date | Reference Elevation (ft.-MSL) | Depth to Groudwater (feet) | Depth to Floating Product (feet) | Floating Product Thickness (feet) | Groundwater Elevation (Ft.-MSL) |
|----------|----------|-------------------------------|----------------------------|----------------------------------|-----------------------------------|---------------------------------|
| S-1 | 11/22/88 | 21.55 | 8.01 | NA | 0.00 | 13.54 |
| | 08/10/89 | 21.55 | 7.93 | NA | 0.00 | 13.62 |
| | 10/10/89 | 21.55 | 8.09 | NA | 0.00 | 13.46 |
| | 01/25/90 | 21.55 | 7.73 | NA | 0.00 | 13.82 |
| | 04/18/90 | 21.55 | 7.91 | NA | 0.00 | 13.64 |
| | 07/23/90 | 21.55 | 7.72 | NA | 0.00 | 13.83 |
| | 10/18/90 | 21.55 | 8.55 | NA | 0.00 | 13.00 |
| | 01/28/91 | 21.55 | 8.52 | NA | 0.00 | 13.03 |
| | 04/25/91 | 21.55 | 7.18 | NA | 0.00 | 14.37 |
| | 07/09/91 | 21.55 | 8.22 | NA | 0.00 | 13.33 |
| | 10/08/91 | 21.55 | 8.70 | NA | 0.00 | 12.85 |
| | 02/05/91 | 21.55 | 8.14 | NA | 0.00 | 13.41 |
| | 04/28/92 | 21.55 | 7.52 | NA | 0.00 | 14.03 |
| | 07/27/92 | 21.55 | 8.28 | NA | 0.00 | 13.27 |
| | 10/26/92 | 21.55 | 8.74 | NA | 0.00 | 12.81 |
| | 01/13/93 | 21.55 | 5.91 | NA | 0.00 | 15.64 |
| | 04/16/93 | 21.55 | 6.66 | NA | 0.00 | 14.89 |
| | 07/23/93 | 21.55 | 7.53 | NA | 0.00 | 14.02 |
| | 10/27/93 | 21.55 | 8.2 | NA | 0.00 | 13.35 |
| | 01/27/94 | 21.55 | 7.26 | NA | 0.00 | 14.29 |
| 05/05/94 | 21.27* | 7.38 | NA | 0.00 | 13.89 | |
| 07/26/94 | 21.27 | 7.86 | NA | 0.00 | 13.41 | |
| S-3 | 11/22/88 | 21.14 | 7.76 | NA | 0.00 | 13.38 |
| | 08/10/89 | 21.14 | 7.92 | NA | 0.00 | 13.22 |
| | 10/10/89 | 21.14 | 8.00 | NA | 0.00 | 13.14 |
| | 01/25/90 | 21.14 | 7.54 | NA | 0.00 | 13.60 |
| | 04/18/90 | 21.14 | 7.74 | NA | 0.00 | 13.40 |
| | 07/23/90 | 21.14 | 7.55 | NA | 0.00 | 13.59 |
| | 10/18/90 | 21.14 | 8.47 | NA | 0.00 | 12.67 |
| | 01/28/91 | 21.14 | 8.38 | NA | 0.00 | 12.76 |
| | 04/25/91 | 21.14 | 6.91 | NA | 0.00 | 14.23 |
| | 07/09/91 | 21.14 | 8.07 | NA | 0.00 | 13.07 |
| | 10/08/91 | 21.14 | 8.61 | NA | 0.00 | 12.53 |
| | 02/05/91 | 21.14 | 7.80 | NA | 0.00 | 13.34 |
| | 04/28/92 | 21.14 | 7.27 | NA | 0.00 | 13.87 |
| | 07/27/92 | 21.14 | 8.10 | NA | 0.00 | 13.04 |
| | 10/26/92 | 21.14 | 8.62 | NA | 0.00 | 12.52 |
| | 01/13/93 | 21.14 | 5.16 | NA | 0.00 | 15.98 |
| | 04/16/93 | 21.14 | 7.18 | NA | 0.00 | 13.96 |
| | 07/23/93 | 21.14 | 7.34 | NA | 0.00 | 13.80 |
| | 10/27/93 | 21.14 | 8.03 | NA | 0.00 | 13.11 |

Table 1
Summary of Historical Groundwater Elevation Data
(Continued)

| well | Date | Reference Elevation (ft.-MSL) | Depth to Groudwater (feet) | Depth to Floating Product (feet) | Floating Product Thickness (feet) | Groundwater Elevation (Ft.-MSL) |
|-----------------|----------|-------------------------------|----------------------------|----------------------------------|-----------------------------------|---------------------------------|
| S-3 (continued) | 01/27/94 | 21.14 | 6.79 | NA | 0.00 | 14.35 |
| | 05/05/94 | 20.48* | 6.75 | NA | 0.00 | 13.73 |
| | 07/26/94 | 20.48 | 7.30 | NA | 0.00 | 13.18 |
| S-5 | 08/10/89 | 21.41 | 8.28 | NA | 0.00 | 13.13 |
| | 10/10/89 | 21.41 | 8.32 | NA | 0.00 | 13.09 |
| | 01/25/90 | 21.41 | 8.20 | NA | 0.00 | 13.21 |
| | 04/18/90 | 21.41 | 8.32 | NA | 0.00 | 13.09 |
| | 07/23/90 | 21.41 | 8.03 | NA | 0.00 | 13.38 |
| | 10/18/90 | 21.41 | 9.03 | NA | 0.00 | 12.38 |
| | 01/28/91 | 21.41 | 8.80 | NA | 0.00 | 12.61 |
| | 04/25/91 | 21.41 | 7.40 | NA | 0.00 | 14.01 |
| | 07/09/91 | 21.41 | 8.52 | NA | 0.00 | 12.89 |
| | 10/08/91 | 21.41 | 9.00 | NA | 0.00 | 12.41 |
| | 02/05/92 | 21.41 | 8.11 | NA | 0.00 | 13.30 |
| | 04/28/92 | 21.41 | 7.70 | NA | 0.00 | 13.71 |
| | 07/27/92 | 21.41 | 8.52 | NA | 0.00 | 12.89 |
| | 10/26/92 | 21.41 | 9.02 | NA | 0.00 | 12.39 |
| | 01/13/93 | 21.41 | 5.22 | NA | 0.00 | 16.19 |
| | 04/16/93 | 21.41 | 7.04 | NA | 0.00 | 14.37 |
| | 07/23/93 | 21.41 | 7.75 | NA | 0.00 | 13.66 |
| | 10/27/93 | 21.41 | 8.49 | NA | 0.00 | 12.92 |
| 01/27/94 | 21.41 | 7.04 | NA | 0.00 | 14.37 | |
| 05/05/94 | 21.03* | 7.20 | NA | 0.00 | 13.83 | |
| 07/27/94 | 21.03 | 7.72 | NA | 0.00 | 13.31 | |
| S-6 | 11/22/88 | 22.02 | 8.58 | NA | 0.00 | 13.44 |
| | 08/10/89 | 22.02 | 8.54 | NA | 0.00 | 13.48 |
| | 10/10/89 | 22.02 | 8.58 | NA | 0.00 | 13.44 |
| | 01/25/90 | 22.02 | 8.31 | NA | 0.00 | 13.71 |
| | 04/18/90 | 22.02 | 8.43 | NA | 0.00 | 13.59 |
| | 07/23/90 | 22.02 | 8.24 | NA | 0.00 | 13.78 |
| | 10/18/90 | 22.02 | 9.2 | NA | 0.00 | 12.82 |
| | 01/28/91 | 22.02 | 9.1 | NA | 0.00 | 12.92 |
| | 04/25/91 | 22.02 | 7.74 | NA | 0.00 | 14.28 |
| | 07/09/91 | 22.02 | 8.81 | NA | 0.00 | 13.21 |
| | 10/08/91 | 22.02 | 9.26 | NA | 0.00 | 12.76 |
| | 02/05/92 | 22.02 | 8.47 | NA | 0.00 | 13.55 |
| | 04/28/92 | 22.02 | 7.91 | NA | 0.00 | 14.11 |
| | 07/27/92 | 22.02 | 8.83 | NA | 0.00 | 13.19 |
| | 10/26/92 | 22.02 | 9.29 | NA | 0.00 | 12.73 |
| 01/13/93 | 22.02 | 9.43 | NA | 0.00 | 15.59 | |

Table 1
Summary of Historical Groundwater Elevation Data
(Continued)

| well | Date | Reference Elevation (ft.-MSL) | Depth to Groudwater (feet) | Depth to Floating Product (feet) | Floating Product Thickness (feet) | Groundwater Elevation (Ft.-MSL) |
|-----------------|----------|-------------------------------|----------------------------|----------------------------------|-----------------------------------|---------------------------------|
| S-6 (continued) | 04/16/93 | 22.02 | 7.12 | NA | 0.00 | 14.90 |
| | 07/23/93 | 22.02 | 8.14 | NA | 0.00 | 13.88 |
| | 10/27/93 | 22.02 | 8.75 | NA | 0.00 | 13.27 |
| | 01/27/94 | 22.02 | 7.87 | NA | 0.00 | 14.15 |
| | 05/05/94 | 21.40* | 7.71 | NA | 0.00 | 13.69 |
| | 07/26/94 | 21.40 | 8.10 | NA | 0.00 | 13.30 |
| S-7 | 11/22/88 | 21.47 | 8.24 | NA | 0.00 | 13.23 |
| | 08/10/89 | 21.47 | 8.18 | NA | 0.00 | 13.29 |
| | 10/10/89 | 21.47 | 8.35 | NA | 0.00 | 13.12 |
| | 01/25/90 | 21.47 | 7.95 | NA | 0.00 | 13.52 |
| | 04/18/90 | 21.47 | 8.06 | NA | 0.00 | 13.41 |
| | 07/23/90 | 21.47 | 7.89 | NA | 0.00 | 13.58 |
| | 10/18/90 | 21.47 | 8.83 | NA | 0.00 | 12.64 |
| | 01/28/91 | 21.47 | 8.77 | NA | 0.00 | 12.70 |
| | 04/25/91 | 21.47 | 7.25 | NA | 0.00 | 14.22 |
| | 07/09/91 | 21.47 | 8.41 | NA | 0.00 | 13.06 |
| | 10/08/91 | 21.47 | 8.95 | NA | 0.00 | 12.52 |
| | 02/05/92 | 21.47 | 8.04 | NA | 0.00 | 13.43 |
| | 04/28/92 | 21.47 | 7.45 | NA | 0.00 | 14.02 |
| | 07/27/92 | 21.47 | 8.48 | NA | 0.00 | 12.99 |
| | 10/26/92 | 21.47 | 9.95 | NA | 0.00 | 11.52 |
| | 01/13/93 | 21.47 | 5.84 | NA | 0.00 | 15.63 |
| | 04/16/93 | 21.47 | 6.38 | NA | 0.00 | 15.09 |
| 07/23/93 | 21.47 | 7.72 | NA | 0.00 | 13.75 | |
| 10/27/93 | 21.47 | 7.79 | NA | 0.00 | 13.68 | |
| 01/27/94 | 21.47 | 7.85 | NA | 0.00 | 13.62 | |
| 05/05/94 | 20.85* | 9.45 | NA | 0.00 | 11.40 | |
| 07/26/94 | 20.85 | 7.64 | NA | 0.00 | 13.21 | |
| S-8 | 11/22/88 | 20.72 | 7.76 | NA | 0.00 | 12.96 |
| | 08/10/89 | 20.72 | 7.79 | NA | 0.00 | 12.93 |
| | 10/10/89 | 20.72 | 7.84 | NA | 0.00 | 12.88 |
| | 01/25/90 | 20.72 | 7.47 | NA | 0.00 | 13.25 |
| | 04/18/90 | 20.72 | 7.59 | NA | 0.00 | 13.13 |
| | 07/23/90 | 20.72 | 7.49 | NA | 0.00 | 13.23 |
| | 10/18/90 | 20.72 | 8.44 | NA | 0.00 | 12.28 |
| | 01/28/91 | 20.72 | 8.28 | NA | 0.00 | 12.44 |
| | 04/25/91 | 20.72 | 6.72 | NA | 0.00 | 14.00 |
| | 07/09/91 | 20.72 | 7.98 | NA | 0.00 | 12.74 |
| | 10/08/91 | 20.72 | 8.55 | NA | 0.00 | 12.17 |
| | 02/05/91 | 20.72 | 7.50 | NA | 0.00 | 13.22 |
| | 04/28/92 | 20.72 | 7.14 | NA | 0.00 | 13.58 |

Table 1
Summary of Historical Groundwater Elevation Data
(Continued)

| well | Date | Reference Elevation (ft.-MSL) | Depth to Groudwater (feet) | Depth to Floating Product (feet) | Floating Product Thickness (feet) | Groundwater Elevation (Ft.-MSL) |
|-----------------|----------|-------------------------------|----------------------------|----------------------------------|-----------------------------------|---------------------------------|
| S-8 (continued) | 07/27/92 | 20.72 | 8.06 | NA | 0.00 | 12.66 |
| | 10/26/92 | 20.72 | 8.58 | NA | 0.00 | 12.14 |
| | 01/13/93 | 20.72 | 5.32 | NA | 0.00 | 15.40 |
| | 04/16/93 | 20.72 | 5.76 | NA | 0.00 | 14.96 |
| | 07/23/93 | 20.72 | 7.29 | NA | 0.00 | 13.43 |
| | 10/27/93 | 20.72 | 7.93 | NA | 0.00 | 12.79 |
| | 01/27/94 | 20.72 | 6.31 | NA | 0.00 | 14.41 |
| | 05/05/94 | 20.32* | 6.84 | NA | 0.00 | 13.48 |
| | 07/26/94 | 20.32 | 7.42 | NA | 0.00 | 12.90 |
| S-9 | 11/22/88 | 20.96 | 7.78 | NA | 0.00 | 13.18 |
| | 08/10/89 | 20.96 | 7.82 | NA | 0.00 | 13.14 |
| | 10/10/89 | 20.96 | 7.87 | NA | 0.00 | 13.09 |
| | 01/25/90 | 20.96 | 7.41 | NA | 0.00 | 13.55 |
| | 04/18/90 | 20.96 | 7.65 | NA | 0.00 | 13.31 |
| | 07/23/90 | 20.96 | 7.58 | NA | 0.00 | 13.38 |
| | 10/18/90 | 20.96 | 8.46 | NA | 0.00 | 12.50 |
| | 01/28/91 | 20.96 | 8.29 | NA | 0.00 | 12.67 |
| | 04/25/91 | 20.96 | 6.09 | NA | 0.00 | 14.87 |
| | 07/09/91 | 20.96 | 7.82 | NA | 0.00 | 13.14 |
| | 10/08/91 | 20.96 | 8.55 | NA | 0.00 | 12.41 |
| | 02/05/91 | 20.96 | 6.96 | NA | 0.00 | 14.00 |
| | 04/28/92 | 20.96 | 6.76 | NA | 0.00 | 14.20 |
| | 07/27/92 | 20.96 | 8.10 | NA | 0.00 | 12.86 |
| | 10/26/92 | 20.96 | 8.53 | NA | 0.00 | 12.43 |
| | 01/13/93 | 20.96 | 6.80 | NA | 0.00 | 14.16 |
| | 04/16/93 | 20.96 | 6.28 | NA | 0.00 | 14.68 |
| | 07/23/93 | 20.96 | 7.26 | NA | 0.00 | 13.70 |
| | 10/27/93 | 20.96 | 8.00 | NA | 0.00 | 12.96 |
| 01/27/94 | 20.96 | 5.96 | NA | 0.00 | 15.00 | |
| 05/05/94 | 20.68* | 6.99 | NA | 0.00 | 13.69 | |
| 07/26/94 | 20.68 | 7.56 | NA | 0.00 | 13.12 | |
| S-10 | 11/22/88 | 20.69 | 7.91 | NA | 0.00 | 12.78 |
| | 08/10/89 | 20.69 | 7.94 | NA | 0.00 | 12.75 |
| | 10/10/89 | 20.69 | 7.99 | NA | 0.00 | 12.70 |
| | 01/25/90 | 20.69 | 7.56 | NA | 0.00 | 13.13 |
| | 04/18/90 | 20.69 | 7.71 | NA | 0.00 | 12.98 |
| | 07/23/90 | 20.69 | 7.64 | NA | 0.00 | 13.05 |
| | 10/18/90 | 20.69 | 8.58 | NA | 0.00 | 12.11 |
| | 01/28/91 | 20.69 | 8.35 | NA | 0.00 | 12.34 |
| | 04/25/91 | 20.69 | 6.91 | NA | 0.00 | 13.78 |
| 07/09/91 | 20.69 | 8.14 | NA | 0.00 | 12.55 | |

Table 1
Summary of Historical Groundwater Elevation Data
(Continued)

| well | Date | Reference Elevation (ft.-MSL) | Depth to Groudwater (feet) | Depth to Floating Product (feet) | Floating Product Thickness (feet) | Groundwater Elevation (Ft.-MSL) |
|------------------|----------|-------------------------------|----------------------------|----------------------------------|-----------------------------------|---------------------------------|
| S-10 (continued) | 10/08/91 | 20.69 | 8.70 | NA | 0.00 | 11.99 |
| | 02/05/91 | 20.69 | 7.57 | NA | 0.00 | 13.12 |
| | 04/28/92 | 20.69 | 7.20 | NA | 0.00 | 13.49 |
| | 07/27/92 | 20.69 | 8.17 | NA | 0.00 | 12.52 |
| | 10/26/92 | 20.69 | 8.68 | NA | 0.00 | 12.01 |
| | 01/13/93 | 20.69 | 3.78 | NA | 0.00 | 16.91 |
| | 04/16/93 | 20.69 | 6.46 | NA | 0.00 | 14.23 |
| | 07/23/93 | 20.69 | 7.38 | NA | 0.00 | 13.31 |
| | 10/27/93 | 20.69 | 8.09 | NA | 0.00 | 12.60 |
| | 01/27/94 | 20.69 | 5.81 | NA | 0.00 | 14.88 |
| | 05/05/94 | 20.15* | 6.82 | NA | 0.00 | 13.33 |
| | 07/26/94 | 20.15 | 7.40 | NA | 0.00 | 12.75 |
| | S-11 | 11/22/88 | 21.26 | 8.62 | NA | 0.00 |
| 08/10/89 | | 21.26 | 8.65 | NA | 0.00 | 12.61 |
| 10/10/89 | | 21.26 | 8.64 | NA | 0.00 | 12.62 |
| 01/25/90 | | 21.26 | 8.43 | NA | 0.00 | 12.83 |
| 04/18/90 | | 21.26 | 8.42 | NA | 0.00 | 12.84 |
| 07/23/90 | | 21.26 | 8.23 | NA | 0.00 | 13.03 |
| 10/18/90 | | 21.26 | 9.20 | NA | 0.00 | 12.06 |
| 01/28/91 | | 21.26 | 9.13 | NA | 0.00 | 12.13 |
| 04/25/91 | | 21.26 | 7.53 | NA | 0.00 | 13.73 |
| 07/09/91 | | 21.26 | 8.85 | NA | 0.00 | 12.41 |
| 10/08/91 | | 21.26 | 9.34 | NA | 0.00 | 11.92 |
| 02/05/91 | | 21.26 | 8.50 | NA | 0.00 | 12.76 |
| 04/28/92 | | 21.26 | 7.80 | NA | 0.00 | 13.46 |
| 07/27/92 | | 21.26 | 8.80 | NA | 0.00 | 12.46 |
| 10/26/92 | | 21.26 | 9.42 | NA | 0.00 | 11.84 |
| 01/13/93 | | 21.26 | 6.52 | NA | 0.00 | 14.74 |
| 04/16/93 | | 21.26 | 6.86 | NA | 0.00 | 14.40 |
| 07/23/93 | | 21.26 | 8.07 | NA | 0.00 | 13.19 |
| 10/27/93 | 21.26 | NM | NM | NM | NM | |
| 01/27/94 | 21.26 | NM | NM | NM | NM | |
| 05/05/94 | 21.24* | 7.73 | NA | 0.00 | 13.51 | |
| 07/26/94 | 21.24 | 8.30 | NA | 0.00 | 12.94 | |
| S-12 | 08/10/89 | 21.05 | 8.32 | NA | 0.00 | 12.73 |
| | 10/10/89 | 21.05 | 8.32 | NA | 0.00 | 12.73 |
| | 01/25/90 | 21.05 | 8.18 | NA | 0.00 | 12.87 |
| | 04/18/90 | 21.05 | 8.05 | NA | 0.00 | 13.00 |
| | 07/23/90 | 21.05 | 7.92 | NA | 0.00 | 13.13 |
| | 10/18/90 | 21.05 | 8.9 | NA | 0.00 | 12.15 |
| | 01/28/91 | 21.05 | 8.54 | NA | 0.00 | 12.51 |

Table 1
Summary of Historical Groundwater Elevation Data
(Continued)

| well | Date | Reference Elevation (ft.-MSL) | Depth to Groudwater (feet) | Depth to Floating Product (feet) | Floating Product Thickness (feet) | Groundwater Elevation (Ft.-MSL) |
|------------------|----------|-------------------------------|----------------------------|----------------------------------|-----------------------------------|---------------------------------|
| S-12 (continued) | 04/25/91 | 21.05 | 7.08 | NA | 0.00 | 13.97 |
| | 07/09/91 | 21.05 | 8.42 | NA | 0.00 | 12.63 |
| | 10/08/91 | 21.05 | 8.8 | NA | 0.00 | 12.25 |
| | 02/05/92 | 21.05 | 8.07 | NA | 0.00 | 12.98 |
| | 04/28/92 | 21.05 | 8.33 | NA | 0.00 | 12.72 |
| | 07/27/92 | 21.05 | 8.55 | NA | 0.00 | 12.5 |
| | 10/26/92 | 21.05 | 9.03 | NA | 0.00 | 12.02 |
| | 01/13/93 | 21.05 | 6.38 | NA | 0.00 | 14.67 |
| | 04/16/93 | 21.05 | 6.56 | NA | 0.00 | 14.49 |
| | 07/23/93 | 21.05 | 7.76 | NA | 0.00 | 13.29 |
| | 10/27/93 | 21.05 | NM | NM | NM | NM |
| | 01/27/94 | 21.05 | NM | NM | NM | NM |
| | 05/05/94 | 20.71* | 7.49 | NA | 0.00 | 13.22 |
| | 07/26/94 | 20.71 | 7.92 | NA | 0.00 | 12.79 |
| S-13 | 08/10/89 | 20.57 | 8.00 | NA | 0.00 | 12.57 |
| | 10/10/89 | 20.57 | 7.95 | NA | 0.00 | 12.62 |
| | 01/25/90 | 20.57 | 7.79 | NA | 0.00 | 12.78 |
| | 04/18/90 | 20.57 | 7.73 | NA | 0.00 | 12.84 |
| | 07/23/90 | 20.57 | 7.63 | NA | 0.00 | 12.94 |
| | 10/18/90 | 20.57 | 8.58 | NA | 0.00 | 11.99 |
| | 01/28/91 | 20.57 | 8.39 | NA | 0.00 | 12.18 |
| | 04/25/91 | 20.57 | 7.00 | NA | 0.00 | 13.57 |
| | 07/09/91 | 20.57 | 8.12 | NA | 0.00 | 12.45 |
| | 10/08/91 | 20.57 | 8.69 | NA | 0.00 | 11.88 |
| | 02/05/92 | 20.57 | 7.62 | NA | 0.00 | 12.95 |
| | 04/28/92 | 20.57 | 7.15 | NA | 0.00 | 13.42 |
| | 07/27/92 | 20.57 | 8.20 | NA | 0.00 | 12.37 |
| | 10/26/92 | 20.57 | 8.73 | NA | 0.00 | 11.84 |
| | 01/13/93 | 20.57 | 5.06 | NA | 0.00 | 15.51 |
| | 04/16/93 | 20.57 | 6.38 | NA | 0.00 | 14.19 |
| | 07/23/93 | 20.57 | 7.45 | NA | 0.00 | 13.12 |
| | 10/27/93 | 20.57 | NM | NM | NM | NM |
| 01/27/94 | 20.57 | NM | NM | NM | NM | |
| 05/05/94 | 20.16* | 6.91 | NA | 0.00 | 13.25 | |
| 07/26/94 | 20.16 | 7.52 | NA | 0.00 | 12.64 | |
| S-14 | 08/10/89 | 20.44 | 7.58 | NA | 0.00 | 12.86 |
| | 10/10/89 | 20.44 | 7.62 | NA | 0.00 | 12.82 |
| | 01/25/90 | 20.44 | 7.82 | NA | 0.00 | 12.62 |
| | 04/18/90 | 20.44 | 7.37 | NA | 0.00 | 13.07 |
| | 07/23/90 | 20.44 | 7.28 | NA | 0.00 | 13.16 |
| | 10/18/90 | 20.44 | 8.10 | NA | 0.00 | 12.34 |

Table 1
Summary of Historical Groundwater Elevation Data
(Continued)

| well | Date | Reference Elevation (ft.-MSL) | Depth to Groudwater (feet) | Depth to Floating Product (feet) | Floating Product Thickness (feet) | Groundwater Elevation (Ft.-MSL) |
|------------------|----------|-------------------------------|----------------------------|----------------------------------|-----------------------------------|---------------------------------|
| S-14 (continued) | 01/28/91 | 20.44 | 8.04 | NA | 0.00 | 12.40 |
| | 04/25/91 | 20.44 | 6.40 | NA | 0.00 | 14.04 |
| | 07/09/91 | 20.44 | 7.69 | NA | 0.00 | 12.75 |
| | 10/08/91 | 20.44 | 8.24 | NA | 0.00 | 12.20 |
| | 02/05/92 | 20.44 | 7.20 | NA | 0.00 | 13.24 |
| | 04/28/92 | 20.44 | 9.75 | NA | 0.00 | 10.69 |
| | 07/27/92 | 20.44 | 7.64 | NA | 0.00 | 12.80 |
| | 10/26/92 | 20.44 | 8.32 | NA | 0.00 | 12.12 |
| | 01/13/93 | 20.44 | 5.07 | NA | 0.00 | 15.37 |
| | 04/16/93 | 20.44 | 5.86 | NA | 0.00 | 14.58 |
| | 07/23/93 | 20.44 | 7.06 | NA | 0.00 | 13.38 |
| | 10/27/93 | 20.44 | NM | NM | NM | NM |
| | 01/27/94 | 20.44 | NM | NM | NM | NM |
| | 05/05/94 | 19.99* | 6.48 | NA | 0.00 | 13.51 |
| | 07/26/94 | 19.99 | 7.04 | NA | 0.00 | 12.95 |
| S-15 | 08/10/89 | 22.22 | 8.48 | NA | 0.00 | 13.74 |
| | 10/10/89 | 22.22 | 8.46 | NA | 0.00 | 13.76 |
| | 01/25/90 | 22.22 | 8.34 | NA | 0.00 | 13.88 |
| | 04/18/90 | 22.22 | 8.45 | NA | 0.00 | 13.77 |
| | 07/23/90 | 22.22 | 8.22 | NA | 0.00 | 14.00 |
| | 10/18/90 | 22.22 | 9.11 | NA | 0.00 | 13.11 |
| | 01/28/91 | 22.22 | 9.13 | NA | 0.00 | 13.09 |
| | 04/25/91 | 22.22 | 7.83 | NA | 0.00 | 14.39 |
| | 07/09/91 | 22.22 | 8.93 | NA | 0.00 | 13.29 |
| | 10/08/91 | 22.22 | 9.26 | NA | 0.00 | 12.96 |
| | 02/05/92 | 22.22 | 8.60 | NA | 0.00 | 13.62 |
| | 04/28/92 | 22.22 | 8.09 | NA | 0.00 | 14.13 |
| | 07/27/92 | 22.22 | 8.83 | NA | 0.00 | 13.39 |
| | 10/26/92 | 22.22 | 9.31 | NA | 0.00 | 12.91 |
| | 01/13/93 | 22.22 | 6.64 | NA | 0.00 | 15.58 |
| | 04/16/93 | 22.22 | 7.14 | NA | 0.00 | 15.08 |
| | 07/23/93 | 22.22 | 8.23 | NA | 0.00 | 13.99 |
| | 10/27/93 | 22.22 | NM | NM | NM | NM |
| 01/27/94 | 22.22 | NM | NM | NM | NM | |
| 05/05/94 | 21.42* | 7.57 | NA | 0.00 | 13.85 | |
| 07/26/94 | 21.42 | 8.16 | NA | 0.00 | 13.26 | |
| S-16 | 08/10/89 | 21.82 | 8.36 | NA | 0.00 | 13.46 |
| | 10/10/89 | 21.82 | 8.23 | NA | 0.00 | 13.59 |
| | 01/25/90 | 21.82 | 7.88 | NA | 0.00 | 13.94 |
| | 04/18/90 | 21.82 | 8.19 | NA | 0.00 | 13.63 |
| | 07/23/90 | 21.82 | 8.09 | NA | 0.00 | 13.73 |

Table 1
Summary of Historical Groundwater Elevation Data
(Continued)

| well | Date | Reference Elevation (ft.-MSL) | Depth to Groudwater (feet) | Depth to Floating Product (feet) | Floating Product Thickness (feet) | Groundwater Elevation (Ft.-MSL) |
|------------------|----------|-------------------------------|----------------------------|----------------------------------|-----------------------------------|---------------------------------|
| S-16 (continued) | 10/18/90 | 21.82 | 8.90 | NA | 0.00 | 12.92 |
| | 01/28/91 | 21.82 | 8.55 | NA | 0.00 | 13.27 |
| | 04/25/91 | 21.82 | 7.48 | NA | 0.00 | 14.34 |
| | 07/09/91 | 21.82 | 8.48 | NA | 0.00 | 13.34 |
| | 10/08/91 | 21.82 | 8.95 | NA | 0.00 | 12.87 |
| | 02/05/92 | 21.82 | 8.20 | NA | 0.00 | 13.62 |
| | 04/28/92 | 21.82 | 7.80 | NA | 0.00 | 14.02 |
| | 07/27/92 | 21.82 | 8.29 | NA | 0.00 | 13.53 |
| | 10/26/92 | 21.82 | 9.02 | NA | 0.00 | 12.80 |
| | 01/13/93 | 21.82 | 5.78 | NA | 0.00 | 16.04 |
| | 04/16/93 | 21.82 | 6.80 | NA | 0.00 | 15.02 |
| | 07/23/93 | 21.82 | 7.67 | NA | 0.00 | 14.15 |
| | 10/27/93 | 21.82 | 8.52 | NM | NM | 13.30 |
| | 01/27/94 | 21.82 | 7.20 | NM | NM | 14.62 |
| | 05/05/94 | 21.24* | 7.76 | NA | 0.00 | 13.48 |
| | 07/26/94 | 21.24 | 7.84 | NA | 0.00 | 13.40 |
| S-17 | 08/10/89 | 20.95 | 8.13 | NA | 0.00 | 12.82 |
| | 10/10/89 | 20.95 | 8.18 | NA | 0.00 | 12.77 |
| | 01/25/90 | 20.95 | 7.60 | NA | 0.00 | 13.35 |
| | 04/18/90 | 20.95 | 7.95 | NA | 0.00 | 13.00 |
| | 07/23/90 | 20.95 | 7.87 | NA | 0.00 | 13.08 |
| | 10/18/90 | 20.95 | 8.71 | NA | 0.00 | 12.24 |
| | 01/28/91 | 20.95 | 8.54 | NA | 0.00 | 12.41 |
| | 04/25/91 | 20.95 | 7.15 | NA | 0.00 | 13.80 |
| | 07/09/91 | 20.95 | 8.24 | NA | 0.00 | 12.71 |
| | 10/08/91 | 20.95 | 8.86 | NA | 0.00 | 12.09 |
| | 02/05/92 | 20.95 | 7.74 | NA | 0.00 | 13.21 |
| | 04/28/92 | 20.95 | 7.41 | NA | 0.00 | 13.54 |
| | 07/27/92 | 20.95 | 8.34 | NA | 0.00 | 12.61 |
| | 10/26/92 | 20.95 | 8.87 | NA | 0.00 | 12.08 |
| | 01/13/93 | 20.95 | 3.43 | NA | 0.00 | 17.52 |
| | 04/16/93 | 20.95 | 6.70 | NA | 0.00 | 14.25 |
| | 07/23/93 | 20.95 | 7.53 | NA | 0.00 | 13.42 |
| | 10/27/93 | 20.95 | 8.29 | NA | 0.00 | 12.66 |
| 01/27/94 | 20.95 | 5.78 | NA | 0.00 | 15.17 | |
| 05/05/94 | 20.45* | 6.99 | NA | 0.00 | 13.46 | |
| 07/26/94 | 20.45 | 7.62 | NA | 0.00 | 12.83 | |
| S-18 | 04/25/91 | 21.03 | NM | NM | NM | NM |
| | 07/09/91 | 21.03 | 8.23 | NA | 0.00 | 12.80 |
| | 10/08/91 | 21.03 | 8.84 | NA | 0.00 | 12.19 |
| | 02/05/92 | 21.03 | 7.67 | NA | 0.00 | 13.36 |

Table 1
Summary of Historical Groundwater Elevation Data
(Continued)

| well | Date | Reference Elevation (ft.-MSL) | Depth to Groudwater (feet) | Depth to Floating Product (feet) | Floating Product Thickness (feet) | Groundwater Elevation (Ft.-MSL) |
|------------------|----------|-------------------------------|----------------------------|----------------------------------|-----------------------------------|---------------------------------|
| S-18 (continued) | 04/28/92 | 21.03 | 7.40 | NA | 0.00 | 13.63 |
| | 07/27/92 | 21.03 | 8.38 | NA | 0.00 | 12.69 |
| | 10/26/92 | 21.03 | 8.83 | NA | 0.00 | 12.20 |
| | 01/13/93 | 21.03 | 5.86 | NA | 0.00 | 15.17 |
| | 04/16/93 | 21.03 | 4.88 | NA | 0.00 | 16.15 |
| | 07/23/93 | 21.03 | 7.56 | NA | 0.00 | 13.47 |
| | 10/27/93 | 21.03 | 8.30 | NA | 0.00 | 12.73 |
| | 01/27/94 | 21.03 | 6.84 | NA | 0.00 | 14.19 |
| | 05/05/94 | 20.57* | 7.05 | NA | 0.00 | 13.52 |
| | 07/26/94 | 20.57 | 7.62 | NA | 0.00 | 12.95 |
| SR-1 | 01/25/90 | 21.45 | 7.53 | NA | 0.00 | 13.92 |
| | 04/18/90 | 21.45 | 8.17 | NA | 0.00 | 13.28 |
| | 07/23/90 | 21.45 | 7.58 | NA | 0.00 | 13.87 |
| | 10/18/90 | 21.45 | 8.81 | NA | 0.00 | 12.64 |
| | 01/28/91 | 21.45 | 8.37 | NA | 0.00 | 13.08 |
| | 04/25/91 | 21.45 | 6.91 | NA | 0.00 | 14.54 |
| | 07/09/91 | 21.45 | 8.11 | NA | 0.00 | 13.34 |
| | 10/08/91 | 21.45 | 8.63 | NA | 0.00 | 12.82 |
| | 02/05/92 | 21.45 | 7.68 | NA | 0.00 | 13.77 |
| | 04/28/92 | 21.45 | 7.27 | NA | 0.00 | 14.18 |
| | 07/27/92 | 21.45 | 8.11 | 8.10 | 0.01 | 13.34 |
| | 10/26/92 | 21.45 | 8.63 | NA | 0.00 | 12.82 |
| | 01/13/93 | 21.45 | 5.46 | NA | 0.00 | 15.99 |
| | 04/16/93 | 21.45 | 6.28 | NA | 0.00 | 15.17 |
| | 07/23/93 | 21.45 | 7.34 | NA | 0.00 | 14.11 |
| | 10/27/93 | 21.45 | 8.04 | NA | 0.00 | 13.41 |
| | 01/27/94 | 21.45 | 6.68 | NA | 0.00 | 14.77 |
| 05/05/94 | 20.57* | 6.81 | NA | 0.00 | 13.76 | |
| 07/26/94 | 20.57 | 7.38 | NA | 0.00 | 13.19 | |

FT.-MSL = feet above mean sea level

NM = not measured

* Top of casing elevation surveyed by L. Wade Hammond on 5/31/94

Table 2

Summary of Historical Groundwater Analytical Results
(milligrams per liter)

| Well Number | Sampling Date | TPHG | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|-------------|---------------|--------|---------|---------|--------------|---------------|
| S-1 | 07/08/85 | 0.52 | NA | NA | NA | NA |
| | 09/06/88 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 11/16/88 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 02/27/89 | <0.050 | 0.0005 | <0.001 | <0.001 | <0.003 |
| | 05/04/89 | <0.050 | 0.001 | <0.001 | <0.001 | <0.003 |
| | 08/10/89 | <0.050 | 0.0007 | <0.001 | <0.001 | <0.003 |
| | 10/10/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 01/25/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 04/18/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 07/23/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/18/90 | 0.08 | 0.005 | <0.0005 | <0.0005 | 0.003 |
| | 01/28/91 | <0.050 | 0.0045 | <0.0005 | <0.0005 | 0.002 |
| | 04/25/91 | 0.080* | 0.0037 | <0.0005 | 0.0007 | 0.002 |
| | 07/09/91 | 0.20 | 0.016 | <0.0005 | 0.0013 | 0.0058 |
| | 10/08/91 | <0.050 | 0.0023 | <0.0005 | <0.0005 | <0.0005 |
| | 02/05/92 | 0.16 | 0.0089 | <0.0005 | 0.0021 | 0.006 |
| | 04/28/92 | <0.050 | 0.0024 | <0.0005 | <0.0005 | 0.0009 |
| | 07/27/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/26/92 | 0.057 | 0.003 | 0.0016 | 0.0014 | 0.0017 |
| | 01/14/93 | 0.49 | 0.053 | 0.0012 | 0.020 | 0.033 |
| | 04/16/93 | 0.24 | 0.020 | <0.0005 | 0.015 | 0.24 |
| | 07/23/93 | <0.050 | 0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/27/93 | 0.060 | 0.0059 | <0.0005 | 0.0025 | 0.0017 |
| 01/27/94 | <0.050 | 0.0021 | <0.0005 | <0.0005 | 0.00063 | |
| 05/05/94 | 0.057 | 0.0039 | <0.0005 | 0.0019 | 0.0019 | |
| 07/26/94 | <0.05 | 0.0022 | <0.0003 | <0.0003 | <0.0006 | |
| S-3 | 09/06/88 | 96 | 3.4 | 9.5 | 2.7 | 17 |
| | 11/16/88 | 70 | 4.6 | 8.4 | 2.5 | 13 |
| | 02/27/89 | 32 | 2.4 | 3.1 | 1.5 | 6.4 |
| | 05/04/89 | 47 | 4.4 | 0.30 | 2.4 | 15 |
| | 08/10/89 | 110 | 5.7 | 5.7 | 3.2 | 19 |
| | 10/10/89 | 52 | 4.6 | 3.3 | 2.6 | 15 |
| | 01/25/90 | 420 | 5.2 | 4.1 | 6.7 | 34 |
| | 04/18/90 | 58 | 3.8 | 1.4 | 2.4 | 12 |
| | 07/23/90 | 49 | 3.4 | 1.8 | 2.3 | 12 |
| | 10/18/90 | 44 | 3.5 | 0.65 | 2.4 | 11 |
| | 01/28/91 | 64 | 40.9 | 0.57 | 1.94 | 8.09 |
| | 04/25/91 | 120 | 3.9 | 3.6 | 2.4 | 8.9 |
| | 07/09/91 | 50 | 3.6 | 2.3 | 1.8 | 10 |
| 10/08/91 | 130 | 3.6 | 1.0 | 2.8 | 8.4 | |

Table 2
(continued)
Summary of Historical Groundwater Analytical Results
(milligrams per liter)

| Well Number | Sampling Date | TPHG | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|-----------------|---------------|--------|---------|---------|--------------|---------------|
| S-3 (continued) | 02/05/92 | 150 | 2.5 | 0.67 | 2.7 | 10 |
| | 04/28/92 | 120 | 2.2 | 1.2 | 2 | 5.8 |
| | 07/27/92 | 190 | 1.4 | <1.25 | <1.25 | 3.4 |
| | 10/26/92 | 950 | 2.0 | 8.4 | 16 | 36 |
| | 01/14/93 | 41 | 2.7 | 2.5 | 1.8 | 6.9 |
| | 04/16/93 | 40 | 0.93 | 2.8 | 1.9 | 14 |
| | 07/23/93 | 87 | 1.6 | <0.0050 | 1.3 | 4.0 |
| | 10/27/93 | 36 | 2.2 | <0.5 | 1.5 | 3.2 |
| | 01/27/94 | 190 | 3.2 | 3.1 | 4.1 | 15 |
| | 05/05/94 | 36 | 1.1 | 0.49 | 1.6 | 4.7 |
| | 07/26/94 | 18.0 | 1.039 | 0.1705 | 0.8454 | 0.9675 |
| S-5 | 01/08/87 | 7.8 | 0.38 | 0.51 | NR | 1.0 |
| | 09/06/88 | 7.0 | 2.6 | 0.060 | 0.40 | 0.7 |
| | 11/16/88 | 3.0 | 0.66 | 0.060 | 0.12 | 0.22 |
| | 02/27/89 | 5.7 | 2.0 | 0.22 | 0.26 | 0.32 |
| | 05/04/89 | 9.0 | 3.0 | 0.6 | 0.63 | 1.7 |
| | 08/10/89 | 5.1 | 1.1 | <0.050 | 0.27 | 0.40 |
| | 10/10/89 | 15 | 3.3 | 0.16 | 0.83 | 2.2 |
| | 01/25/90 | 12 | 2.4 | 0.36 | 0.57 | 1.4 |
| | 04/18/90 | 5.2 | 1.1 | 0.040 | 0.30 | 0.46 |
| | 07/23/90 | 5.5 | 1.3 | 0.14 | 0.32 | 0.73 |
| | 10/18/90 | 12 | 3.2 | 0.040 | 0.72 | 0.9 |
| | 01/28/91 | 2.55 | 0.41 | 0.015 | 0.11 | 0.060 |
| | 04/25/91 | 67 | 5.1 | 3.1 | 2.8 | 11 |
| | 07/09/91 | 4.9 | 0.48 | 0.036 | 0.36 | 1.0 |
| | 10/08/91 | 6.6 | 0.37 | 0.007 | 0.19 | 0.38 |
| | 02/05/92 | 44 | 4.8 | 0.85 | 2.7 | 8.4 |
| | 04/28/92 | 33 | 1.4 | 0.32 | 1.6 | 5.2 |
| | 07/27/92 | 20 | 2.4 | <0.025 | 1.8 | 2.3 |
| | 10/26/92 | 21 | 1.6 | 0.14 | 1.5 | 2.8 |
| | 01/14/93 | 54 | 1.9 | 1.0 | 2.7 | 16 |
| 04/16/93 | 42 | 2.0 | 1.3 | 4.3 | 18 | |
| 07/23/93 | 46 | 2.5 | 2.2 | 3.4 | 11 | |
| 10/27/93 | 6.5 | 0.99 | 0.031 | 1.1 | 1.0 | |
| 01/27/94 | 34 | 1.8 | 0.58 | 2.9 | 9.7 | |
| 05/05/94 | 24 | 0.67 | 0.070 | 1.4 | 2.7 | |
| | 07/27/94 | 4.7 | 0.1936 | 0.0331 | 0.3323 | 0.2812 |
| S-6 | 11/16/88 | 0.050 | 0.0007 | <0.001 | <0.001 | <0.003 |
| | 02/27/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |

Table 2
(continued)
Summary of Historical Groundwater Analytical Results
(milligrams per liter)

| Well Number | Sampling Date | TPHG | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|-----------------|---------------|---------|---------|---------|--------------|---------------|
| S-6 (continued) | 05/04/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 08/10/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 10/10/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 01/25/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 04/18/90 | <0.050 | <0.0005 | 0.0006 | <0.0005 | 0.001 |
| | 07/23/90 | <0.050 | <0.0005 | 0.0009 | <0.0005 | 0.0018 |
| | 10/18/90 | <0.050 | <0.0005 | 0.0007 | <0.0005 | 0.0008 |
| | 01/28/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/25/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | 0.0007 |
| | 07/09/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/08/91 | <0.050 | 0.0007 | <0.0005 | <0.0005 | <0.0005 |
| | 04/28/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/26/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/13/94 | NR | NR | NR | NR | NR |
| | 04/16/93 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/23/93 | NR | NR | NR | NR | NR |
| | 10/27/93 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/27/94 | NR | NR | NR | NR | NR |
| | 05/05/94 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/26/94 | NR | NR | NR | NR | NR |
| S-7 | 11/16/88 | 0.10 | 0.0051 | 0.015 | 0.002 | 0.013 |
| | 02/27/89 | 0.050 | 0.0005 | 0.003 | 0.001 | 0.011 |
| | 05/04/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 08/10/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 10/10/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 01/25/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 04/18/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 07/23/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/18/90 | <0.050 | <0.0005 | 0.0005 | 0.0005 | 0.0041 |
| | 01/28/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/25/91 | 0.060 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/09/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 02/05/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/08/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/28/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/27/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/26/92 | 0.57^ | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/14/93 | 0.056^ | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/16/93 | 0.11 | 0.028 | <0.0005 | <0.0005 | 0.0018 |
| | 07/23/93 | 0.080 | 0.00048 | <0.0005 | <0.0005 | 0.0008 |
| 10/27/93 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |

Table 2
(continued)
Summary of Historical Groundwater Analytical Results
(milligrams per liter)

| Well Number | Sampling Date | TPHG | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|-----------------|---------------|---------|---------|---------|--------------|---------------|
| S-9 (continued) | 10/08/91 | 0.89 | 0.96 | <0.0025 | 0.016 | 0.029 |
| | 02/05/92 | 0.95 | 0.24 | <0.0025 | 0.028 | 0.055 |
| | 04/28/92 | 1.4* | 0.29 | 0.003 | 0.10 | 0.081 |
| | 07/27/92 | 0.89 | 0.19 | <0.0025 | 0.066 | 0.068 |
| | 10/26/92 | 0.65 | 0.16 | <0.0025 | 0.063 | 0.089 |
| | 01/13/93 | 19 | 2.4 | 0.038 | 1.7 | 2.2 |
| | 04/16/93 | 10 | 1.5 | <0.005 | 1.1 | 0.99 |
| | 07/23/93 | 1.1 | 0.40 | <0.0050 | 0.26 | 0.16 |
| | 10/27/93 | 2.5 | 0.40 | <0.005 | 0.19 | 0.11 |
| | 01/27/94 | 4.8 | 0.99 | 0.016 | 0.63 | 0.49 |
| | 05/05/94 | 3.7 | 0.48 | <0.005 | 0.021 | 0.12 |
| | 07/26/94 | 1.0 | 0.1246 | <0.0003 | 0.0358 | 0.0286 |
| S-10 | 11/16/88 | 0.33 | 0.0005 | <0.001 | 0.001 | 0.011 |
| | 02/27/89 | 0.14 | <0.0005 | <0.003 | 0.002 | 0.006 |
| | 05/03/89 | 0.22 | <0.0005 | 0.001 | 0.002 | 0.007 |
| | 08/10/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 10/09/89 | 0.17 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 01/25/90 | <0.050 | <0.0005 | <0.0005 | 0.0011 | 0.004 |
| | 04/18/90 | <0.050 | <0.0005 | 0.0009 | <0.0005 | 0.002 |
| | 07/23/90 | 0.59 | <0.0005 | <0.0005 | 0.0019 | 0.019 |
| | 10/18/90 | 0.14 | <0.0005 | 0.0007 | <0.0005 | 0.007 |
| | 01/28/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| | 04/25/91 | <0.050 | <0.0005 | <0.0005 | 0.0011 | 0.0008 |
| | 07/09/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/08/91 | 0.14 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 02/05/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/28/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/27/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/26/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/13/93 | 0.088 | <0.0005 | 0.0006 | 0.0006 | <0.0005 |
| | 04/16/93 | 0.080 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/23/93 | <0.050 | 0.0015 | <0.0005 | 0.0007 | 0.0027 |
| 10/27/93 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 01/27/94 | 0.27 | 0.0011 | 0.0013 | 0.0020 | 0.0074 | |
| 05/05/94 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 07/26/94 | <0.5 | <0.0003 | <0.0003 | <0.0003 | <0.0006 | |
| S-11 | 11/16/88 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 02/27/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 05/03/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |

Table 2
(continued)
Summary of Historical Groundwater Analytical Results
(milligrams per liter)

| Well Number | Sampling Date | TPHG | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|------------------|---------------|--------|---------|---------|--------------|---------------|
| S-11 (continued) | 08/10/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 10/09/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 01/25/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 04/18/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 07/23/90 | <0.050 | <0.0005 | 0.0006 | <0.0005 | 0.0011 |
| | 10/18/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| | 01/28/91 | 0.063 | <0.0005 | 0.0033 | 0.0009 | 0.007 |
| | 04/25/91 | <0.050 | <0.0005 | <0.0005 | 0.0008 | <0.0005 |
| | 07/09/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/08/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/28/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/27/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/26/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/13/93 | NR | NR | NR | NR | NR |
| | 04/16/93 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/23/93 | NR | NR | NR | NR | NR |
| | 10/27/93 | NA | NA | NA | NA | NA |
| | 01/27/94 | NR | NR | NR | NR | NR |
| | 05/05/94 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/26/94 | NR | NR | NR | NR | NR |
| S-12 | 11/16/88 | 0.050 | 0.0035 | <0.001 | <0.001 | <0.003 |
| | 02/27/89 | <0.050 | 0.0008 | <0.001 | <0.001 | <0.003 |
| | 05/03/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 08/10/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 10/09/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.001 |
| | 01/25/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 04/18/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/23/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/18/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/28/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/25/91 | 0.090 | 0.0054 | <0.0005 | 0.0011 | 0.0007 |
| | 07/09/91 | <0.050 | 0.0029 | <0.0005 | <0.0005 | <0.0005 |
| | 10/08/91 | 0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 02/05/92 | 0.050* | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/28/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/27/92 | 0.094^ | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/26/92 | 0.086^ | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/14/93 | 0.12 | 0.002 | <0.0005 | <0.0005 | <0.0005 |
| | 04/16/93 | 0.060 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/23/93 | 0.090 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |

Table 2
(continued)
Summary of Historical Groundwater Analytical Results
(milligrams per liter)

| Well Number | Sampling Date | TPHG | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|------------------|---------------|---------|---------|---------|--------------|---------------|
| S-12 (continued) | 10/27/93 | NA | NA | NA | NA | NA |
| | 01/27/94 | NA | NA | NA | NA | NA |
| | 05/05/94 | <0.050 | 0.0020 | <0.0005 | <0.0005 | <0.0005 |
| | 07/26/94 | <0.5 | <0.0003 | <0.0003 | <0.0003 | <0.0006 |
| S-13 | 05/03/89 | 0.15 | 0.0049 | 0.004 | 0.002 | 0.014 |
| | 08/10/89 | 0.11 | 0.0029 | <0.001 | <0.001 | <0.003 |
| | 10/09/89 | 0.077 | 0.0014 | <0.001 | <0.001 | <0.003 |
| | 01/25/90 | 0.051 | 0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 04/18/90 | 0.085 | 0.0087 | <0.0005 | <0.0005 | <0.001 |
| | 07/23/90 | 0.080 | 0.0008 | <0.0005 | <0.0005 | <0.0005 |
| | 10/18/90 | 0.13 | <0.0005 | <0.0005 | <0.0005 | <0.005 |
| | 01/28/91 | <0.050 | <0.0005 | 0.0009 | 0.0012 | 0.001 |
| | 04/25/91 | 0.44* | 0.0038 | <0.0005 | <0.0005 | 0.0006 |
| | 07/09/91 | 0.32* | 0.0006 | <0.0005 | <0.0005 | <0.0005 |
| | 10/08/91 | 0.31 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/28/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/26/92 | 0.18^ | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/13/93 | NR | NR | NR | NR | NR |
| | 04/16/93 | 0.24 | 0.0048 | <0.0005 | 0.0013 | <0.0005 |
| | 07/23/93 | NR | NR | NR | NR | NR |
| | 10/27/93 | NA | NA | NA | NA | NA |
| 01/27/94 | NR | NR | NR | NR | NR | |
| 05/05/94 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 07/26/94 | NR | NR | NR | NR | NR | |
| S-14 | 05/03/89 | 5.3 | 0.75 | 0.40 | 0.2 | 0.80 |
| | 08/10/89 | 1.8 | 0.54 | 0.14 | 0.042 | 0.05 |
| | 10/09/89 | 1.0 | 0.36 | 0.060 | 0.02 | 0.030 |
| | 01/25/90 | 0.64 | 0.16 | 0.077 | 0.017 | 0.039 |
| | 04/18/90 | 1.2 | 0.20 | 0.11 | 0.03 | 0.096 |
| | 07/23/90 | 5.0 | 0.43 | 0.34 | 0.14 | 0.66 |
| | 10/18/90 | 1.8 | 0.77 | 0.013 | 0.017 | 0.12 |
| | 01/28/91 | 0.72 | 0.20 | 0.036 | 0.021 | 0.078 |
| | 04/25/91 | 14 | 0.93 | 0.43 | 0.25 | 0.97 |
| | 07/09/91 | 0.16 | 0.030 | 0.0053 | 0.005 | 0.016 |
| | 10/08/91 | 5.4 | 0.081 | 0.057 | 0.095 | 0.38 |
| | 04/28/92 | 2.0 | 0.27 | 0.14 | 0.048 | 0.17 |
| | 10/26/92 | 0.92 | 0.033 | 0.012 | 0.025 | 0.088 |
| | 01/13/93 | NR | NR | NR | NR | NR |
| | 04/16/93 | 4.5 | 1.1 | 0.029 | 0.091 | 0.17 |

Table 2
(continued)
Summary of Historical Groundwater Analytical Results
(milligrams per liter)

| Well Number | Sampling Date | TPHG | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|------------------|---------------|---------|---------|---------|--------------|---------------|
| S-14 (continued) | 07/23/93 | NR | NR | NR | NR | NR |
| | 10/27/93 | NA | NA | NA | NA | NA |
| | 01/27/94 | NR | NR | NR | NR | NR |
| | 05/05/94 | 0.81 | 0.25 | <0.0025 | 0.0094 | 0.019 |
| | 07/26/94 | NR | NR | NR | NR | NR |
| S-15 | 05/03/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 08/10/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 10/09/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 01/25/90 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.001 |
| | 04/18/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 07/23/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/18/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/28/91 | <0.050 | <0.0005 | 0.0006 | <0.0005 | 0.0008 |
| | 04/25/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/09/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/08/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 02/05/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/28/92 | 0.050 | 0.0008 | 0.0009 | <0.0005 | 0.0014 |
| | 07/27/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/26/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/14/93 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/16/93 | <0.050 | 0.0006 | 0.001 | <0.0005 | 0.0007 |
| | 07/23/93 | <0.050 | 0.0012 | <0.0005 | <0.0005 | 0.0016 |
| | 10/27/93 | NA | NA | NA | NA | NA |
| | 01/27/94 | NA | NA | NA | NA | NA |
| 05/05/94 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 07/26/94 | <0.5 | <0.0003 | <0.0003 | <0.0003 | <0.0006 | |
| S-16 | 05/04/94 | 0.38 | 0.044 | 0.003 | 0.002 | <0.003 |
| | 08/10/89 | <0.050 | 0.0006 | <0.001 | <0.001 | <0.003 |
| | 10/10/89 | <0.005 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 01/25/90 | 0.24 | 0.16 | 0.0033 | 0.0008 | 0.011 |
| | 04/18/90 | <0.050 | 0.001 | <0.0005 | <0.0005 | <0.001 |
| | 07/23/90 | <0.050 | 0.0011 | <0.0005 | <0.0005 | <0.0005 |
| | 10/18/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/28/91 | <0.050 | <0.0005 | 0.0006 | <0.0005 | 0.0009 |
| | 04/25/91 | 0.060^ | 0.021 | 0.0005 | 0.0032 | 0.0048 |
| | 07/09/91 | <0.050 | 0.001 | <0.0005 | <0.0005 | <0.0005 |
| | 10/08/91 | 0.050 | 0.017 | 0.0014 | 0.0012 | 0.0055 |
| | 02/05/92 | 0.15 | 0.065 | 0.0007 | <0.0005 | 0.0084 |

Table 2
(continued)
Summary of Historical Groundwater Analytical Results
(milligrams per liter)

| Well Number | Sampling Date | TPHG | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|------------------|---------------|---------|---------|---------|--------------|---------------|
| S-16 (continued) | 04/28/92 | <0.050 | 0.013 | <0.0005 | <0.0005 | <0.0005 |
| | 07/27/92 | 0.51 | 0.13 | <0.0025 | <0.0005 | 0.021 |
| | 10/26/92 | <0.050 | <0.0005 | <0.0005 | <0.0025 | <0.0005 |
| | 01/13/93 | 0.10 | 0.025 | 0.0019 | <0.0005 | 0.0084 |
| | 04/16/93 | 0.15 | 0.056 | 0.0018 | 0.0046 | 0.012 |
| | 07/23/93 | <0.050 | 0.0009 | <0.0005 | <0.0005 | <0.0005 |
| | 10/27/93 | <0.050 | 0.0015 | <0.0005 | <0.0005 | <0.0005 |
| | 01/27/94 | 0.14 | 0.085 | <0.0010 | <0.0010 | 0.013 |
| | 05/05/94 | 0.071 | 0.025 | <0.0005 | <0.0005 | 0.0042 |
| 07/26/94 | <0.5 | <0.0003 | <0.0003 | <0.0003 | <0.0006 | |
| S-17 | 05/03/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 08/10/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 10/09/89 | <0.050 | <0.0005 | <0.001 | <0.001 | <0.003 |
| | 01/25/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 04/18/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.001 |
| | 07/23/90 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/18/90 | 0.39 | 0.010 | 0.062 | 0.022 | 0.11 |
| | 01/28/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/25/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/09/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/08/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/28/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/26/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/13/93 | NR | NR | NR | NR | NR |
| | 04/16/93 | 0.13 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/23/93 | NR | NR | NR | NR | NR |
| 10/27/93 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 01/27/94 | NR | NR | NR | NR | NR | |
| 05/05/94 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 07/26/94 | NR | NR | NR | NR | NR | |
| S-18 | 05/31/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/09/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/08/91 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 02/05/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/28/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/27/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/26/92 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/13/93 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 04/16/93 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |

Table 2
(continued)
Summary of Historical Groundwater Analytical Results
(milligrams per liter)

| Well Number | Sampling Date | TPHG | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|------------------|---------------|--------|---------|---------|--------------|---------------|
| S-18 (continued) | 07/23/93 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 10/27/93 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 01/27/94 | <0.050 | 0.0019 | <0.0005 | <0.0005 | <0.0005 |
| | 05/05/94 | <0.050 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 07/26/94 | <0.5 | <0.003 | 0.0011 | <0.0003 | 0.0018 |
| SR-1 | 03/22/89 | 5.4 | 1.1 | 0.23 | 0.35 | 1.3 |
| | 01/25/90 | 2.2 | 0.47 | 0.12 | 0.11 | 0.51 |
| | 04/18/90 | 1.0 | 0.13 | 0.047 | 0.047 | 0.22 |
| | 07/23/90 | 3.2 | 0.47 | 0.32 | 0.17 | 0.87 |
| | 10/18/90 | 1.3 | 0.28 | 0.0066 | 0.11 | 0.13 |
| | 01/28/91 | 0.11 | 0.12 | 0.012 | 0.051 | 0.11 |
| | 07/09/91 | 1.4 | 0.20 | 0.027 | 0.13 | 0.34 |
| | 10/08/91 | 0.98 | 0.079 | 0.0015 | 0.044 | 0.052 |
| | 02/05/91 | 3.8 | 0.58 | 0.036 | 0.32 | 0.40 |
| | 04/28/92 | 38 | 1.8 | 0.46 | 1.9 | 0.75 |
| | 07/27/92 | FP | FP | FP | FP | FP |
| | 10/26/92 | 1.8 | 0.37 | 0.010 | 0.13 | 0.13 |
| | 1/13/93 | 47 | 1.0 | 1.1 | 1.7 | 13 |
| | 4/16/93 | 25 | 1.7 | 0.43 | 2.4 | 8.3 |
| | 7/23/93 | 33 | 2.4 | 2.0 | 3.8 | 14 |
| | 10/27/93 | 2.3 | 0.34 | <0.0125 | 0.27 | 0.44 |
| | 1/27/94 | 36 | 2 | 1.7 | 3.0 | 11 |
| 5/5/94 | 43 | 1.5 | 0.13 | 2.9 | 12 | |
| 7/26/94 | 13.6 | 0.6827 | 0.0392 | 0.9966 | 2.516 | |

TPHG = Total petroleum hydrocarbons as gasoline by EPA Method 8015 (modified).

BTEX = Benzene, toluene, ethylbenzene and total xylenes by EPA Method 8020.

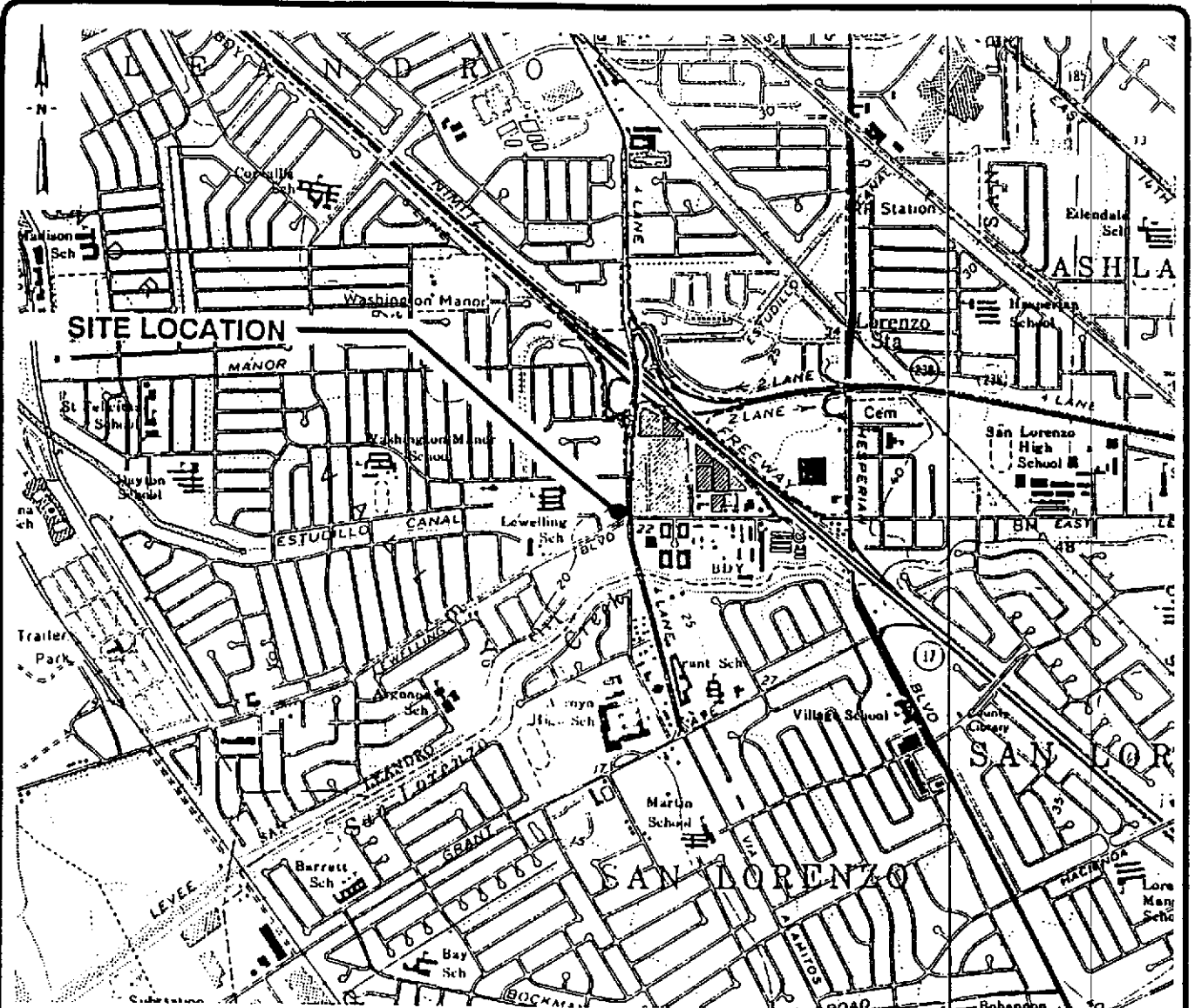
NA = Not analyzed; well inaccessible.

NR = Not required.

* = Compounds detected within the chromatographic range of gasoline but not characteristic of the standard gasoline pattern.

** = The concentration reported as gasoline is primarily due to the presence of a discrete peak not indicative of gasoline.

^ = Compounds detected are volatile aromatics (BTEX) present in sample.



SCALE: 0 2000 FEET

Base map from GeoStrategies, Inc.

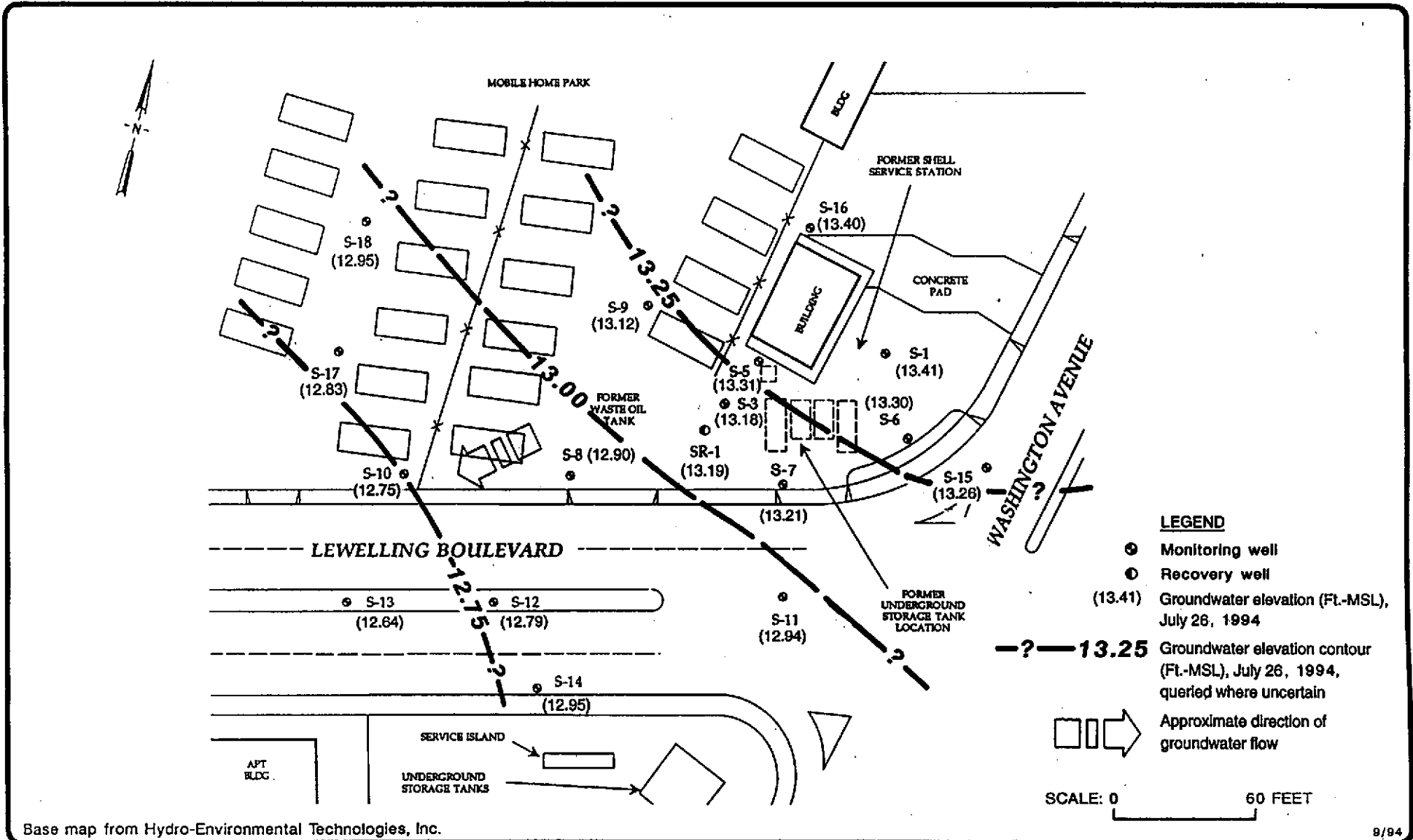
12/93



SHELL OIL COMPANY
 FORMER SHELL SERVICE STATION
 15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

SITE LOCATION MAP

FIGURE
1
 PROJECT NO.
 0117-115.01

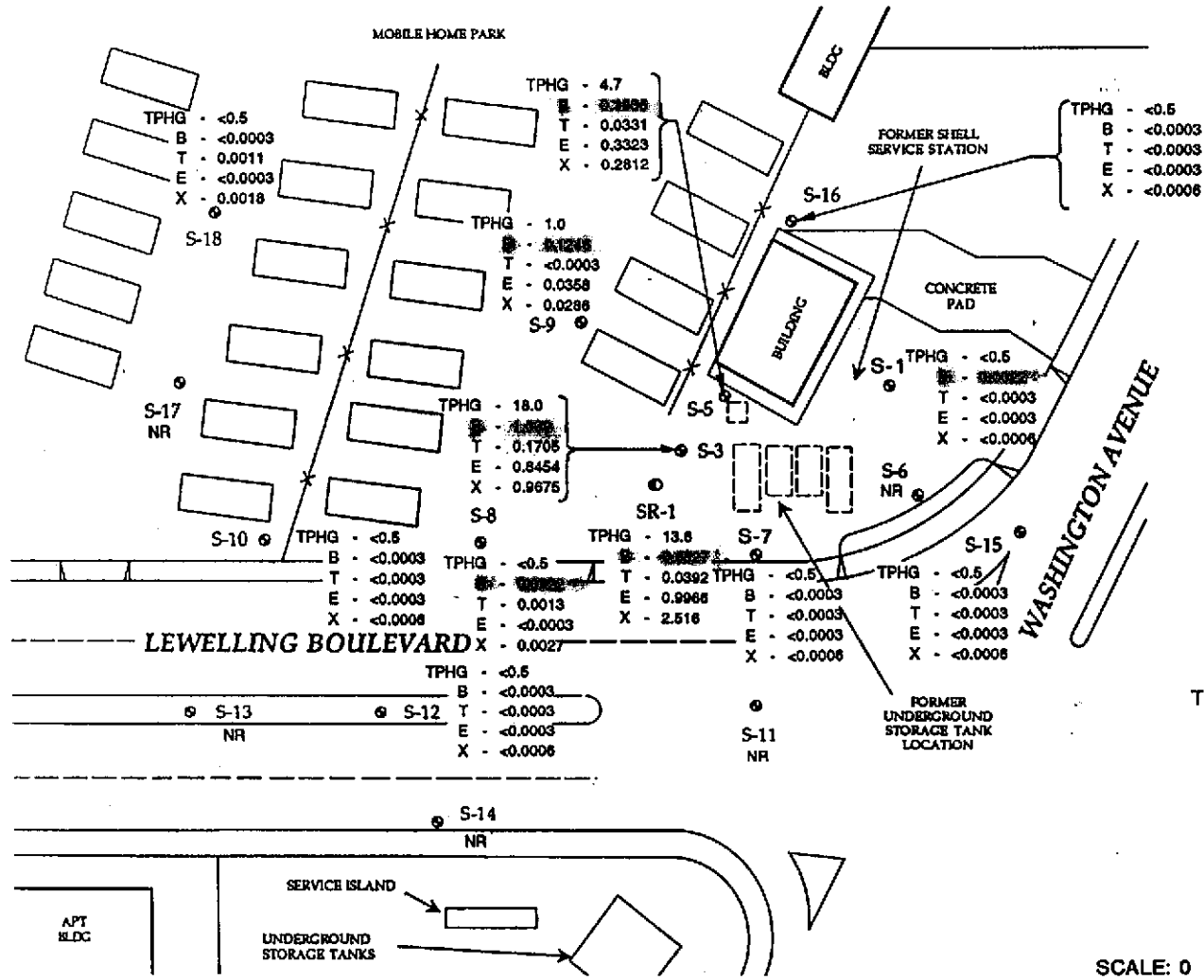
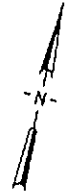



EMCON
Associates
Sacramento, California

SHELL OIL COMPANY
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

GROUNDWATER CONTOUR MAP, JULY 26, 1994

FIGURE
2
PROJECT NO.
0117-115.01



LEGEND

- ⊙ Monitoring well
- Recovery well
- TPHG - Petroleum hydrocarbons as gasoline, mg/l
- B - Benzene, mg/l
- T - Toluene, mg/l
- E - Ethylbenzene, mg/l
- X - Total xylenes, mg/l
- NR Not required

SCALE: 0 60 FEET

Base map from Hydro-Environmental Technologies, Inc.

9/94



EMCON
Associates
Sacramento, California

SHELL OIL COMPANY
FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

TPHG AND BTEX CONCENTRATION MAP, JULY 1994

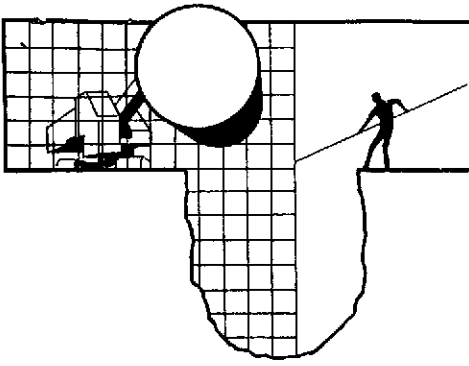
FIGURE

3

PROJECT NO.
0117-115.01

ATTACHMENT A

***QUARTERLY GROUNDWATER SAMPLING REPORT 940726-J-1,
BLAINE TECH SERVICES, INC.***



BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

August 9, 1994

Shell Oil Company
P.O. Box 4023
Concord, CA 94524

Attn: Lynn Walker

RECEIVED
AUG 22 1994
EMCON/SACRAMENTO

SITE:
Shell WIC #204-6852-1008
15275 Washington
San Leandro, California

QUARTER:
3rd quarter of 1994

QUARTERLY GROUNDWATER SAMPLING REPORT 940726-J-1

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a **TABLE OF WELL GAUGING DATA**. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

STANDARD PROCEDURES

Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water may be removed in cases where the well dewateres and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such site is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to Crosby Laboratories, Inc. in Anaheim, California. Crosby Laboratories, Inc. is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1552.

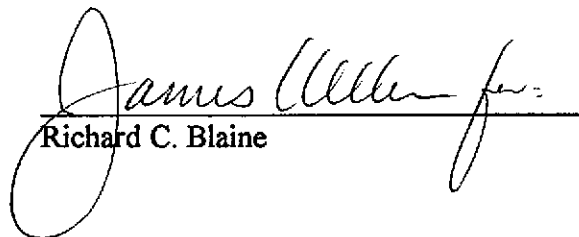
Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation 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. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.


Richard C. Blaine

RCB/lp

attachments: table of well gauging data
chain of custody
certified analytical report

cc: EMCON Associates
1433 N. Market Blvd.
Sacramento, CA 95834-1943
ATTN: Bob Husk

TABLE OF WELL GAUGING DATA

| WELL I.D. | DATA COLLECTION DATE | MEASUREMENT REFERENCED TO | QUALITATIVE OBSERVATIONS (sheen) | DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet) | THICKNESS OF IMMISCIBLES LIQUID ZONE (feet) | VOLUME OF IMMISCIBLES REMOVED (ml) | DEPTH TO WATER (feet) | DEPTH TO WELL BOTTOM (feet) |
|-----------|----------------------|---------------------------|----------------------------------|--|---|------------------------------------|-----------------------|-----------------------------|
| S-1 | 7/26/94 | TOC | ODOR | NONE | -- | -- | 7.86 | 19.74 |
| S-3 | 7/26/94 | TOC | ODOR | NONE | -- | -- | 7.30 | 14.85 |
| S-5 | 7/26/94 | TOC | ODOR | NONE | -- | -- | 7.72 | 18.53 |
| S-6 | 7/26/94 | TOC | -- | NONE | -- | -- | 8.10 | 24.13 |
| S-7 | 7/26/94 | TOC | -- | NONE | -- | -- | 7.64 | 23.74 |
| S-8 | 7/26/94 | TOC | ODOR | NONE | -- | -- | 7.42 | 23.82 |
| S-9 | 7/26/94 | TOC | ODOR | NONE | -- | -- | 7.56 | 17.65 |
| S-10 | 7/26/94 | TOC | -- | NONE | -- | -- | 7.40 | 17.70 |
| S-11 | 7/26/94 | TOC | -- | NONE | -- | -- | 8.30 | 23.28 |
| S-12 | 7/26/94 | TOC | -- | NONE | -- | -- | 7.92 | 23.56 |
| S-13 | 7/26/94 | TOC | -- | NONE | -- | -- | 7.52 | 23.29 |
| S-14 | 7/26/94 | TOC | -- | NONE | -- | -- | 7.04 | 22.65 |
| S-15 | 7/26/94 | TOC | -- | NONE | -- | -- | 8.16 | 22.65 |
| S-16 | 7/26/94 | TOC | -- | NONE | -- | -- | 7.84 | 23.58 |
| S-17 | 7/26/94 | TOC | -- | NONE | -- | -- | 7.62 | 23.87 |
| S-18 | 7/26/94 | TOC | -- | NONE | -- | -- | 7.62 | 17.60 |
| SR-1 * | 7/26/94 | TOC | -- | NONE | -- | -- | 7.38 | 20.67 |

* Sample DUP was a duplicate sample taken from well SR-1.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 9407261

Date: 7/26/94
Page 1 of 2

9407.248 3/4 Bin#3

Site Address: 15275 Washington, San Leandro
WIC#: 204-6852-1008
Shell Engineer: Lynn Walker
Phone No.: (510) 675-6170
Fax #: 675-6170
Consultant Name & Address: Blaine Tech Services, Inc. 985 Timothy Drive, San Jose, CA 95133
Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Analysis Required

LAB: CROSBY

| CHECK ONE (1) BOX ONLY | CT/DT | TURN AROUND TIME |
|--|-------|--|
| Groundwater Monitoring <input checked="" type="checkbox"/> | 6441 | 24 hours <input type="checkbox"/> |
| Site Investigation <input type="checkbox"/> | 6441 | 48 hours <input type="checkbox"/> |
| Soil Classify/Disposal <input type="checkbox"/> | 6442 | 15 days <input checked="" type="checkbox"/> (Normal) |
| Water Classify/Disposal <input type="checkbox"/> | 6443 | Other <input type="checkbox"/> |
| Soil/Air Rem. of Sys. O & M <input type="checkbox"/> | 6462 | NOTE: Notify lab. soon as possible at 24/48 hr. TAT. |
| Water Rem. of Sys. O & M <input type="checkbox"/> | 6463 | |
| Other <input type="checkbox"/> | | |

Comments:
Sampled by:
Printed Name:

| Sample ID | Date | Sludge | Soil | Water | Air | No. of conds. | TPH (EPA 8015 Mod. Gas) | TPH (EPA 8015 Mod. Diesel) | BTEX (EPA 8020/602) | Volatile Organics (EPA 8240) | Test for Disposal | Combination TPH 8015 & BTEX 8020 | Asbestos | Container Size | Preparation Used | Composite Y/N | MATERIAL DESCRIPTION | SAMPLE CONDITION/ COMMENTS |
|-----------|------|--------|------|-------|-----|---------------|-------------------------|----------------------------|---------------------|------------------------------|-------------------|----------------------------------|----------|----------------|------------------|---------------|----------------------|----------------------------|
| | | | | | | | | | | | | | | | | | | |
| S-1 | 7/26 | | | X | | 3 | | | | | | X | | | | | AA47992 | |
| S-3 | ↓ | | | | | 1 | | | | | | | | | | | AA47993 | |
| S-5 | 7/27 | | | | | 1 | | | | | | | | | | | AA47994 | |
| S-7 | 7/26 | | | | | 1 | | | | | | | | | | | AA47995 | |
| S-8 | ↓ | | | | | 1 | | | | | | | | | | | AA47996 | |
| S-9 | ↓ | | | | | 1 | | | | | | | | | | | AA47997 | |
| S-10 | ↓ | | | | | 1 | | | | | | | | | | | AA47998 | |
| S-12 | ↓ | | | | | 1 | | | | | | | | | | | AA47999 | |

| | | | | | |
|---|------------------------------------|----------------------|--|-------------------------------|----------------------|
| Relinquished By (signature): <u>[Signature]</u> | Printed Name: <u>JEAN GATINEAU</u> | Date: <u>7/29/94</u> | Received (signature): <u>[Signature]</u> | Printed Name: <u>DCAPCCWA</u> | Date: <u>7/29/94</u> |
| Relinquished By (signature): | Printed Name: | Date: | Received (signature): | Printed Name: | Date: |
| Relinquished By (signature): | Printed Name: | Date: | Received (signature): | Printed Name: | Date: |



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 94072651

Date: 7/26/94
Page 2 of 2

9407.248

Site Address: 15275 Washington, San Leandro

WIC#: 204-6852-1008

Shell Engineer: Lynn Walker
Phone No.: (510) 675-6170
Fax #: 675-6170

Consultant Name & Address:
Blaine Tech Services, Inc.
985 Timothy Drive, San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:

Sampled by:

Printed Name:

Analysis Required

| | | | | | | | | | |
|-------------------------|----------------------------|---------------------|------------------------------|-------------------|----------------------------------|----------|----------------|------------------|---------------|
| TPH (EPA 8015 Mod. Gas) | TPH (EPA 8015 Mod. Diesel) | BTEX (EPA 8020/602) | Volatile Organics (EPA 8240) | Test for Disposal | Combination TPH 8015 & BTEX 8020 | Asbestos | Container Size | Preparation Used | Composite Y/N |
|-------------------------|----------------------------|---------------------|------------------------------|-------------------|----------------------------------|----------|----------------|------------------|---------------|

LAB: CROSBY

| CHECK ONE (1) BOX ONLY | CI/DI | TURN AROUND TIME |
|--|-------|--|
| Quarterly Monitoring <input checked="" type="checkbox"/> | 6441 | 24 hours <input type="checkbox"/> |
| Site Investigation <input type="checkbox"/> | 6441 | 48 hours <input type="checkbox"/> |
| Soil Classfy/Disposal <input type="checkbox"/> | 6442 | 15 days <input checked="" type="checkbox"/> (Normal) |
| Water Classfy/Disposal <input type="checkbox"/> | 6443 | Other <input type="checkbox"/> |
| Soil/Air Rem. or Sys. O & M <input type="checkbox"/> | 6452 | |
| Water Rem. or Sys. O & M <input type="checkbox"/> | 6453 | |
| Other <input type="checkbox"/> | | |

NOTE: Notify lab as soon as possible of 24/48 hr. TAT.

| Sample ID | Date | Sludge | Soil | Water | Air | No. of conds. | TPH (EPA 8015 Mod. Gas) | TPH (EPA 8015 Mod. Diesel) | BTEX (EPA 8020/602) | Volatile Organics (EPA 8240) | Test for Disposal | Combination TPH 8015 & BTEX 8020 | Asbestos | Container Size | Preparation Used | Composite Y/N | MATERIAL DESCRIPTION | SAMPLE CONDITION/ COMMENTS |
|-----------|------|--------|------|-------|-----|---------------|-------------------------|----------------------------|---------------------|------------------------------|-------------------|----------------------------------|----------|----------------|------------------|---------------|----------------------|----------------------------|
| | | | | | | | | | | | | | | | | | | |
| S-15 | 7/26 | | | X | | 3 | | | | | | X | | | | | AA48000 | |
| S-16 | | | | | | | | | | | | | | | | | AA48001 | |
| S-18 | | | | | | | | | | | | | | | | | AA48002 | |
| SR-1 | | | | | | | | | | | | | | | | | AA48003 | |
| EB | | | | | | | | | | | | | | | | | AA48004 | |
| DUP | | | | | | | | | | | | | | | | | AA48005 | |
| T.B. | | | | N | | 2 | | | | | | | | | | | AA48006 | |

| | | | | | | | |
|---|-------------------------------------|----------------------|--------------------|--|---------------------------------|----------------------|--------------------|
| Relinquished By (signature): <u>[Signature]</u> | Printed Name: <u>JEAN GATTINERU</u> | Date: <u>7/29/94</u> | Time: <u>10:55</u> | Received (signature): <u>[Signature]</u> | Printed Name: <u>B CAROCCIA</u> | Date: <u>7/29/94</u> | Time: <u>10:55</u> |
| Relinquished By (signature): | Printed Name: | Date: | Time: | Received (signature): | Printed Name: | Date: | Time: |
| Relinquished By (signature): | Printed Name: | Date: | Time: | Received (signature): | Printed Name: | Date: | Time: |

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



**CROSBY
LABORATORIES
INCORPORATED**

Analytical Report

5200 E. Hunter Street, Suite B Anaheim, California 92807 • 714-777-1425 • 1-800-3 CROSBY • FAX 714-777-3926

ENVIRONMENTAL • CHEMICAL • MICROBIOLOGICAL • TESTING SERVICES

LAB RECEIVING #: 9407.248

REPORT DATE: 08/11/94

REPORTED TO: BLAINE TECH SERVICES, INC.
ATTN.: MR. JIM KELLER
985 TIMOTHY DRIVE
SAN JOSE, CA 95133

WIC #: 204-6852-1008
PROJECT #: NONE
PROJECT NAME: SHELL-15275 WASHINGTON, SAN LEANDRO

DATE SAMPLED: 07/26-27/94
DATE RECEIVED: 07/29/94
OF SAMPLES: 15

SAMPLE MATRIX: LIQUID

| | | |
|-------------------|------|------|
| SAMPLE ID: | S-1 | S-16 |
| | S-3 | S-18 |
| | S-5 | SR-1 |
| | S-7 | E.B. |
| | S-8 | DUP |
| | S-9 | T.B. |
| | S-10 | |
| | S-12 | |
| | S-15 | |

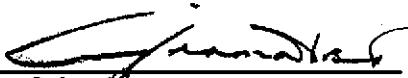
SAMPLE HANDLING & CONTROL STATEMENT

The above mentioned samples were received in appropriate containers accompanied by a fully signed and dated chain-of-custody record. The containers were assigned unique identification numbers and had sufficient amount for the test requested. There were no site specific quality control requirements made at the time of sample submittal. Samples submitted did not exceed the holding time of the requested test parameters.

QUALITY CONTROL SUMMARY STATEMENT

Laboratory Quality Control parameters and results of instrument calibration standards were all within control limits and the analytical data hereby submitted falls within acceptable limits of accuracy and precision unless otherwise indicated. Please see the attached Quality Control Data for additional information.

SUBMITTED BY:


Girma Selassie
QA/QC Director



The information contained in this cover sheet is an integral part of the attached analytical report.

DOHS Lab Certificate #: 1552
Expiration Date: 6/30/95

A2LA Certificate #: 0389.01
Expiration Date: 9/30/94

COVER SHEET



Analytical Report

5200 E. Hunter Street, Suite B Anaheim, California 92807 • 714-777-1425 • 1-800-3 CROSBY • FAX 714-777-3926

ENVIRONMENTAL • CHEMICAL • MICROBIOLOGICAL • TESTING SERVICES



CLIENT: BLAINE TECH SERVICES, INC.

LAB RECEIVING#: **9407.248**

ATTN.: MR. JIM KELLER

WIC #: 204-6852-1008

PROJECT #: NONE

PROJECT NAME: SHELL-15275 WASHINGTON, SAN LEANDRO

Prepared: 08/07/94

Analyzed: 08/07/94

Analyst: AR

Spl. Prep. Meth.: EPA 5030

MATRIX: LIQUID
UNIT: µg/l

EPA 8020 (Partial)/8015 TPH-Modified (Gasoline)

| Lab ID | Client Sample ID | D.F. | EPA 8020 (Partial)/8015 TPH-Modified (Gasoline) | | | | % Surrogate Recovery | | |
|-------------------------|------------------|------|---|---------|---------------|--------------|----------------------|---------------|--------------|
| | | | Benzene | Toluene | Ethyl Benzene | Total Xylene | TPH Gasoline | BTEX (80-120) | TPH (80-120) |
| RA080794 | METHOD BLANK | 1 | ND | ND | ND | ND | ND | 95 | 99 |
| AA47992 | S-1 | 1 | 2.2 | ND | ND | ND | ND | 86 | 91 |
| AA47993 | S-3 | 50 | 1039 | 170.5 | 845.4 | 967.5 | 18000 | 85 | 97 |
| AA47994 | S-5 | 5 | 193.6 | 33.1 | 332.3 | 281.2 | 4700 | 90 | 103 |
| AA47995 | S-7 | 1 | ND | ND | ND | ND | ND | 89 | 93 |
| AA47996 | S-8 | 1 | 12.2 | 1.3 | ND | 2.7 | ND | 90 | 92 |
| AA47997 | S-9 | 5 | 124.6 | ND | 35.8 | 28.6 | 1000 | 96 | 97 |
| AA47998 | S-10 | 1 | ND | ND | ND | ND | ND | 93 | 93 |
| AA47999 | S-12 | 1 | ND | ND | ND | ND | ND | 93 | 92 |
| AA48000 | S-15 | 1 | ND | ND | ND | ND | ND | 87 | 92 |
| AA48001 | S-16 | 1 | ND | ND | ND | ND | ND | 85 | 89 |
| AA48002 | S-18 | 1 | ND | 1.1 | ND | 1.8 | ND | 90 | 87 |
| AA48003 | SR-1 | 5 | 682.7 | 39.2 | 996.6 | 2516 | 13600 | 98 | 106 |
| AA48004 | E.B. | 1 | ND | ND | ND | ND | ND | 95 | 103 |
| AA48005 | DUP | 5 | 647.3 | 35.1 | 920.3 | 2331 | 12100 | 102 | 106 |
| AA48006 | T.B. | 1 | ND | ND | ND | ND | ND | 90 | 94 |
| DETECTION LIMITS | | | 0.3 | 0.3 | 0.3 | 0.6 | 500 | | |

QUALITY CONTROL DATA, EPA-8020 Part./8015 Mod.

| MATRIX SPIKE/ MATRIX SPIKE DUPLICATE | ACCURACY | | | | | PRECISION | | |
|---|---------------------|--------------|------|---------------|-------|-------------|-----|--------------|
| | SPK CONC. (µg/l) | MS (µg/l) | % MS | MSD (µg/l) | % MSD | ACP % MS | RPD | ACP % RPD |
| Benzene | 8.0 | 7.7 | 96 | 8.0 | 100 | 80-120 | 4 | 0-25 |
| Toluene | 8.0 | 7.7 | 96 | 8.0 | 100 | 80-120 | 4 | 0-25 |
| Ethyl Benzene | 8.0 | 7.2 | 90 | 7.4 | 93 | 80-120 | 3 | 0-25 |

| AUDIT DATA | LAB ID | SAMPLE ID | BATCH # | QC STD # | ANALYZED |
|------------|---------|-----------|----------|----------|----------|
| | AA48004 | EB | BT080794 | GC132 | 08/07/94 |

NOTES:

ND denotes Not Detected at the Indicated detection limit.

This report is preceded by a cover sheet that contains vital information.

WELL GAUGING DATA

WIC# 204-6852-1008

Project # 940726J1

Date 7/26/94

Client SHELL

Site 15275 WASHINGTON BLVD, SAN LEANDRO, CA.

| Well I.D. | Well Size (in.) | Sheen/Odor | Depth to Immiscible Liquid (feet) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to Water (feet) | Depth to Well Bottom (feet) | Survey Point: TOB or TOC |
|-----------|-----------------|------------|-----------------------------------|--------------------------------------|------------------------------------|-------------------------|-----------------------------|--------------------------|
| S-1 | 3 | GAS ODOR | | | | 7.86 | | TOC |
| S-3 | 3 | | | | | 7.30 | | ↓ |
| S-5 | 4 | GAS ODOR | | | | 7.72 | | |
| S-6 | 3 | | | | | 8.10 | | |
| S-7 | 3 | | | | | 7.64 | | |
| S-8 | 3 | GAS ODOR | | | | 7.48 7.56 | | |
| S-9 | 3 | GAS ODOR | | | | 7.56 | | |
| S-10 | 3 | | | | | 7.40 | | |
| S-11 | 3 | | | | | 8.30 | | |
| S-12 | 3 | | | | | 7.92 | | |
| S-13 | 3 | | | | | 7.52 | | |
| S-14 | | | | | | 7.04 | | |
| S-15 | 3 | | | | | 8.16 | | |
| S-16 | 3 | | | | | 7.84 | | |
| S-17 | 3 | | | | | 7.62 | | |

SHELL WELL MONITORING DATA SHEET

| | |
|--|--|
| Project #: <u>940726J1</u> | Wic # <u>204 6852 1008</u> |
| Sampler: <u>J.G.</u> | Date Sampled: <u>7/26/94</u> |
| Well I.D.: <u>S-1</u> | Well Diameter: (circle one) 2 <u>(3)</u> 4 6 |
| Total Well Depth: Before <u>19.74</u> After | Depth to Water: Before <u>7.86</u> After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: | <u>(PVC)</u> Grade Other -- |

Volume Conversion Factor (VCF):
 $(12 \times (d^2/4) \times \pi) / 231$
 where
 12 = in./foot
 d = diameter (in.)
 π = 3.1416
 231 = in.³/gal

| Well dia. | VCF |
|-----------|------|
| 2" | 0.26 |
| 3" | 0.37 |
| 4" | 0.58 |
| 6" | 1.07 |
| 8" | 1.87 |
| 10" | 2.97 |
| 12" | 4.37 |

| | | | | |
|---------------|---|-------------------|---|-------------|
| <u>4.4</u> | x | <u>3</u> | = | <u>13.2</u> |
| 1 Case Volume | | Specified Volumes | | gallons |

Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump _____

Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pump

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|--------------|-------------|------------|-------------|-------------|-----------------|-----------------|
| <u>17:00</u> | <u>75.0</u> | <u>7.2</u> | <u>1000</u> | <u>7200</u> | <u>4.5</u> | |
| <u>17:02</u> | <u>76.0</u> | <u>7.2</u> | <u>1000</u> | <u>7200</u> | <u>9</u> | <u>GAS ODOR</u> |
| <u>17:04</u> | <u>77.4</u> | <u>7.1</u> | <u>1000</u> | <u>7200</u> | <u>13.5</u> | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 13.5

Sampling Time: 17:10

Sample I.D.: S-1 Laboratory: CROSBY

Analyzed for: TPH-G, BTEX

Duplicate I.D.: _____ Cleaning Blank I.D.: _____

Analyzed for: _____

Shipping Notations: _____

Additional Notations: _____

SHELL WELL MONITORING DATA SHEET

| | |
|--|--|
| Project #: <u>94072601</u> | Wic # <u>204 6852 1008</u> |
| Sampler: <u>J.G.</u> | Date Sampled: <u>7/26/94</u> |
| Well I.D.: <u>S-3</u> | Well Diameter: (circle one) 2 <u>(3)</u> 4 6 |
| Total Well Depth: Before <u>14.85</u> After | Depth to Water: Before <u>7.30</u> After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: <u>(PVC)</u> | Grade Other -- |

Volume Conversion Factor (VCF):
 $(2.31 \times (d^2/4) \times h) / 2.31$
 where
 2.31 = in./foot
 d = diameter (in.)
 h = 2.31 ft
 2.31 = lbs./gal

| Well dia. | VCF |
|-----------|------|
| 2" | 0.26 |
| 3" | 0.35 |
| 4" | 0.48 |
| 6" | 1.07 |
| 8" | 1.57 |
| 10" | 2.44 |
| 12" | 3.59 |

2.8 x 3 = 8.4
 1 Case Volume Specified Volumes = gallons

Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump _____

Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pump

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|--------------|-------------|------------|------------|------------|-----------------|---------------|
| <u>18:55</u> | <u>71.8</u> | <u>8.4</u> | <u>700</u> | <u>178</u> | <u>3</u> | <u>GAS</u> |
| <u>18:57</u> | <u>63.8</u> | <u>8.4</u> | <u>710</u> | <u>82</u> | <u>6</u> | <u>ODOR</u> |
| <u>18:59</u> | <u>64.0</u> | <u>8.2</u> | <u>720</u> | <u>96</u> | <u>9</u> | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 9

Sampling Time: _____

Sample I.D.: S-3 Laboratory: CROSBY

Analyzed for: TPH, G, BTEX

Duplicate I.D.: _____ Cleaning Blank I.D.: _____

Analyzed for: _____

Shipping Notations: _____

Additional Notations: _____

SHELL WELL MONITORING DATA SHEET

| | |
|---|--|
| Project #: 940726-51 | Wic # 204-6852-10081 |
| Sampler: JC | Date Sampled: 7.27.94 |
| Well I.D.: 5-5 | Well Diameter: (circle one) 2 3 <u>4</u> 6 |
| Total Well Depth: Before 18.53 After | Depth to Water: Before 7.72 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: <u>PVC</u> | Grade Other -- |

Volume Conversion Factor (VCF):
 $(12 = (d^2/4) \times \pi) / 231$
 where
 12 = in./foot
 d = diameter (in.)
 π = 3.1416
 231 = in³/gal

| Well dia. | VCF |
|-----------|------|
| 2" | 0.24 |
| 3" | 0.57 |
| 4" | 0.85 |
| 6" | 1.47 |
| 8" | 2.48 |
| 10" | 3.87 |
| 12" | 5.67 |

| | | | | |
|---------------|---|-------------------|---|---------|
| 7.0 | x | 3 | = | 21.0 |
| 1 Case Volume | | Specified Volumes | | gallons |

Purging: Bailer
 Middleburg
 Electric Submersible
 Suction Pump
 Type of Installed Pump _____

Sampling: Bailer
 Middleburg
 Electric Submersible
 Suction Pump
 Installed Pump

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|-------|-----------|-----|-------|------------|-----------------|-----------------|
| 14:25 | 73.6 | 7.6 | 1500 | 13.8. | 7.0 | Slight GAS odor |
| 14:27 | 71.2 | 7.4 | 1200 | 9.6 | 14.0 | " " " |
| 14:29 | 70.5 | 7.3 | 1200 | 10.4 | 21.0 | " " " |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 21.0

Sampling Time: 14:35

Sample I.D.: S-5 Laboratory: Crosby.

Analyzed for: TPH GAS BTEX.

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

| | |
|---|--|
| Project #: <u>940726 J1</u> | Wic # <u>204 6852 1068</u> |
| Sampler: <u>J.G.</u> | Date Sampled: <u>7/26/94</u> |
| Well I.D.: <u>S-7</u> | Well Diameter: (circle one) 2 <u>(3)</u> 4 6 |
| Total Well Depth: Before <u>23.74</u> After | Depth to Water: Before <u>7.64</u> After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: <u>(PVC)</u> Grade Other -- | |

Volume Conversion Factor (VCF):
 $(2.31 \times (d^2/4) \times \pi) / 2.31$
 where
 $2.31 = \text{in./ft}$
 $d = \text{diameter (in.)}$
 $\pi = 3.1416$
 $2.31 = \text{in./ft}$

| Well dia. | VCF |
|-----------|------|
| 2" | 0.21 |
| 3" | 0.37 |
| 4" | 0.51 |
| 5" | 0.77 |
| 6" | 1.10 |
| 8" | 1.57 |
| 10" | 2.44 |
| 12" | 3.59 |

| | | | | |
|---------------|---|-------------------|---|-----------|
| <u>6.0</u> | x | <u>3</u> | = | <u>18</u> |
| 1 Case Volume | | Specified Volumes | | gallons |

Purging: Bailer
 Middleburg
 Electric Submersible
 Suction Pump
 Type of Installed Pump _____

Sampling: Bailer
 Middleburg
 Electric Submersible
 Suction Pump
 Installed Pump

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|-------------|-------------|------------|-------------|-------------|-----------------|---------------|
| <u>7:25</u> | <u>73.6</u> | <u>7.0</u> | <u>800</u> | <u>7200</u> | <u>6</u> | |
| <u>7:29</u> | <u>74.8</u> | <u>7.0</u> | <u>800</u> | <u>7200</u> | <u>12</u> | |
| <u>7:31</u> | <u>73.8</u> | <u>7.2</u> | <u>1000</u> | <u>7200</u> | <u>18</u> | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? N O If yes, gals. Gallons Actually Evacuated: 18

Sampling Time: _____

Sample I.D.: S-7 Laboratory: CROSBY

Analyzed for: TPH-G, BTEX

Duplicate I.D.: _____ Cleaning Blank I.D.: _____

Analyzed for: _____

Shipping Notations: _____

Additional Notations: _____

SHELL WELL MONITORING DATA SHEET

| | |
|---|---------------------------------------|
| Project #: 940726J1 | Wic # 204 6852 1008 |
| Sampler: J.G. | Date Sampled: 7/26/94 |
| Well I.D.: S-8 | Well Diameter: (circle one) 2 (3) 4 6 |
| Total Well Depth: Before 23.82 After | Depth to Water: Before 7.42 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: | (PVC) Grade Other -- |

Volume Conversion Factor (VCF):
 $VCF = (d^2/4) \times \pi / 2.31$
 where:
 d = dia./feet
 π = 3.1416
 2.31 = in³/gal

| Well dia. | VCF |
|-----------|-------|
| 2" | 0.26 |
| 3" | 0.57 |
| 4" | 0.88 |
| 6" | 2.47 |
| 8" | 4.04 |
| 12" | 11.07 |

| | | | | |
|---------------|---|-------------------|---|-------------|
| <u>6.0</u> | x | <u>3</u> | = | <u>18.0</u> |
| 1 Case Volume | | Specified Volumes | | gallons |

Purging: Bailer
 Middleburg
 Electric Submersible
 Suction Pump
 Type of Installed Pump _____

Sampling: Bailer
 Middleburg
 Electric Submersible
 Suction Pump
 Installed Pump

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|-------|-----------|-----|-------|------------|-----------------|---------------|
| 17:30 | 74.4 | 7.0 | 800 | 7200 | 6 | |
| 17:53 | 73.4 | 7.4 | 800 | 7200 | 18 | |
| 17:55 | 72.2 | 7.4 | 600 | 7200 | 18 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 18

Sampling Time: 18:00

Sample I.D.: S-8

Laboratory: CROSBY

Analyzed for: TPH-G, RTX

Duplicate I.D.:

Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

| | |
|--|--|
| Project #: <u>940726J1</u> | Wic # <u>204 6852 1008</u> |
| Sampler: <u>J.G.</u> | Date Sampled: <u>7/26/94</u> |
| Well I.D.: <u>S-12</u> | Well Diameter: (circle one) 2 <u>3</u> 4 6 |
| Total Well Depth: Before <u>23.56</u> After | Depth to Water: Before <u>7.92</u> After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: | <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Grade <input type="checkbox"/> Other -- |

Volume Conversion Factor (VCF):
 $(12 \times (1.5708 \times r^2) / 2.31)$
 where:
 12 = in./foot
 1.5708 = diameter (in.)
 2.31 = ft./psi

| Well dia. | VCF |
|-----------|------|
| 2" | 0.16 |
| 3" | 0.37 |
| 4" | 0.66 |
| 6" | 1.47 |
| 8" | 2.68 |
| 10" | 4.35 |

| | | | | |
|---------------|----------|-------------------|----------|-------------|
| <u>5.8</u> | <u>x</u> | <u>3</u> | <u>=</u> | <u>17.4</u> |
| 1 Case Volume | | Specified Volumes | | gallons |

Purging: Bailer
 Middleburg
 Electric Submersible
 Suction Pump
 Type of Installed Pump _____

Sampling: Bailer
 Middleburg
 Electric Submersible
 Suction Pump
 Installed Pump

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|--------------|-------------|------------|-------------|----------------|-----------------|---------------|
| <u>13:08</u> | <u>72.2</u> | <u>7.4</u> | <u>900</u> | <u>>200</u> | <u>6</u> | |
| <u>13:10</u> | <u>71.8</u> | <u>7.3</u> | <u>1000</u> | <u>>200</u> | <u>12</u> | |
| <u>13:12</u> | <u>71.0</u> | <u>7.3</u> | <u>900</u> | <u>>200</u> | <u>18</u> | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 18

Sampling Time: _____

Sample I.D.: S-12 Laboratory: CROSBY

Analyzed for: TPH-G, BTEX

Duplicate I.D.: _____ Cleaning Blank I.D.: E1B, 13:01 AFTER

Analyzed for: TPH-G, BTEX

Shipping Notations: _____

Additional Notations: _____

SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 940726J1 | Wic # 204 6852 1008 |
| Sampler: J.G. | Date Sampled: 7/26/94 |
| Well I.D.: S-15 | Well Diameter: (circle one) 2 <u>3</u> 4 6 |
| Total Well Depth: Before 22.65 After | Depth to Water: Before 8.16 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: | <input checked="" type="radio"/> PVC <input type="radio"/> Grade <input type="radio"/> Other -- |

Volume Conversion Factor (VCF):
 $(12 = (4^2/4) = \pi) / 224$
 Where:
 $12 = 12/100$
 $4 = \text{diameter (in.)}$
 $\pi = 3.1416$
 $224 = 128/0.5$

| Well dia. | VCF |
|-----------|------|
| 2" | 0.24 |
| 3" | 0.37 |
| 4" | 0.50 |
| 5" | 0.63 |
| 6" | 0.76 |
| 8" | 1.00 |
| 10" | 1.25 |

| | | | | |
|---------------|---|-------------------|---|-------------|
| <u>5.4</u> | x | <u>3</u> | = | <u>16.2</u> |
| 1 Case Volume | | Specified Volumes | | gallons |

Purging: Bailer
 Middleburg
 Electric Submersible
 Suction Pump
 Type of Installed Pump _____

Sampling: Bailer
 Middleburg
 Electric Submersible
 Suction Pump
 Installed Pump

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|-------|-----------|-----|-------|------------|-----------------|---------------|
| 14:15 | 73.4 | 7.4 | 700 | 7200 | 5.5 | |
| 14:19 | 71.4 | 7.4 | 750 | 7200 | 11. | |
| 14:21 | 71.6 | 7.4 | 700 | 7200 | 16.5 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 16.5

Sampling Time: 14:31

Sample I.D.: S-15 Laboratory: CROSBY

Analyzed for: TPH-G, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

| | |
|---|--|
| Project #: 94 02 26 J1 | Wic # 204 6852 1008 |
| Sampler: J.G. | Date Sampled: 7/26/94 |
| Well I.D.: S-16 | Well Diameter: (circle one) 2 <u>3</u> 4 6 |
| Total Well Depth: Before 23.58 After | Depth to Water: Before 7.84 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: | <input checked="" type="checkbox"/> FVC <input type="checkbox"/> Grade <input type="checkbox"/> Other -- |

Volume Conversion Factor (VCF):
 $(12 \times (d^2/k) \times \pi) / 231$
 where
 12 = in./foot
 d = diameter (in.)
 $\pi = 3.1416$
 231 = in.³/gal

| Well dia. | VCF |
|-----------|------|
| 2" | 1.56 |
| 3" | 1.77 |
| 4" | 1.98 |
| 5" | 2.17 |
| 6" | 2.36 |
| 8" | 2.97 |
| 10" | 3.57 |

$$\frac{5.8}{1 \text{ Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{17.4}{\text{gallons}}$$

Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump _____

Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pump

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|-------|-----------|-----|-------|------------|-----------------|---------------|
| 16:30 | 70.0 | 7.2 | 900 | >200 | 6 | |
| 16:33 | 69.0 | 7.0 | 1000 | >200 | 12 | |
| 16:36 | 68.2 | 7.2 | 800 | >200 | 18 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 18

Sampling Time: 16:45

Sample I.D.: S-16 Laboratory: CROSBY

Analyzed for: TPH-G, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

| | |
|---|---------------------------------------|
| Project #: 940726J | Wic # 204 6852 100B |
| Sampler: JG | Date Sampled: 7/26/94 |
| Well I.D.: S-18 | Well Diameter: (circle one) 2 (3) 4 6 |
| Total Well Depth: Before 17.60 After | Depth to Water: Before 7.62 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: | (PVC) Grade Other -- |

Volume Conversion Factor (VEF):
 $(2.31 \times (d^2/4) \times n) / 2.31$
 where
 2.31 = in./foot
 d = diameter (in.)
 n = 1.016
 2.31 = in./foot

| Well dia. | VEF |
|-----------|------|
| 2" | 0.34 |
| 3" | 0.77 |
| 4" | 1.35 |
| 6" | 3.14 |
| 8" | 5.09 |
| 10" | 7.85 |

3.7
x
3
=
11.1

1 Case Volume Specified Volumes = gallons

| | |
|--|--|
| Purging: Bailer <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input checked="" type="checkbox"/> Suction Pump <input type="checkbox"/> Type of Installed Pump _____ | Sampling: Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Suction Pump <input type="checkbox"/> Installed Pump <input type="checkbox"/> |
|--|--|

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|-------|-----------|-----|-------|------------|-----------------|---------------|
| 15:05 | 81.6 | 7.6 | 500 | 7200 | 4 | |
| 15:07 | 76.2 | 7.4 | 500 | 96 | 8 | |
| 15:09 | 76.8 | 7.4 | 700 | 56 | 12 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 12

Sampling Time: 15:20

Sample I.D.: S-18 Laboratory: CROSBY

Analyzed for: TPH-G, BTBT

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 940726 J1 | Wic # 204 6852 1008 |
| Sampler: J.G. | Date Sampled: 7/26/94 |
| Well I.D.: SR-1 | Well Diameter: (circle one) 2 3 4 6 |
| Total Well Depth: Before 20.67 After | Depth to Water: Before 7.38 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: | <input checked="" type="radio"/> PVC <input type="radio"/> Grade <input type="radio"/> Other -- |

Volume Conversion Factor (VCF):
 $(2.31 \times (d^2/4) \times \pi) / 2.31$
 Where:
 2.31 = in./foot
 d = diameter (in.)
 $\pi = 3.1416$
 2.31 = ft./in.

| Well dia. | VCF |
|-----------|------|
| 2" | 0.26 |
| 3" | 0.57 |
| 4" | 0.81 |
| 6" | 1.47 |
| 8" | 2.47 |
| 10" | 3.87 |
| 12" | 5.67 |

$$\frac{19.5}{1 \text{ Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{58.5}{\text{gallons}}$$

Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump _____

Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pump

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|-------|-----------|-----|-------|------------|-----------------|---------------|
| 19:16 | 72.8 | 8.8 | 790 | 15 | 20 | |
| 19:18 | 71.8 | 8.4 | 780 | 14 | 40 | |
| 19:20 | 70.4 | 8.6 | 780 | 20 | 60 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 60

Sampling Time: 19:25

Sample I.D.: SR-1 Laboratory: CROSBY

Analyzed for: PH-G, BTEX

Duplicate I.D.: DUP Cleaning Blank I.D.: _____

Analyzed for: TPA-G, BTEX (19:25)

Shipping Notations: _____

Additional Notations: _____

WELL HEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client SHEN ^{WIC} Site # 204-6852-1008

Inspection date: 7/26/94

Site address 15275 WASHINGTON BLVD,
SAN LEANDRO, CA.

Inspected by: JEAN GATINEAU

BTS Event # 940726J1

| | | |
|---------------------------|--------------------------------------|-----------------------------|
| 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

| Well I.D. | Deficiency | Corrective Action Taken |
|-----------|-----------------------------|--|
| S-9 | #1) PADLOCK RUSTED CLOSE | INSTALLED NEW LOCK # ^{KEY} 2357 |
| | | |
| | | |
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| | | |

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 |
|-----------|-----------------------|---|---------------|----------------|
| | | | | |
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Office review and assignments made by _____ date _____