

SITE SUMMARY

**Former Shell Service Station
461 8th Street, Oakland
March 11, 2002**

Site Description

The site is currently a paved parking lot located at the southwest corner of the intersection of 8th Street and Broadway. A Shell service station operated on the property from 1972 to 1980. The underground storage tanks (USTs) associated with the former Shell service station were removed after Shell terminated operations at the site in May 1980.

Investigation History:

In January 1979, separate phase hydrocarbons (SPH) were reported in a Bay Area Rapid Transit (BART) tunnel under the intersection of 7th Street and Broadway. Product line testing at the site indicated a pressure leak, and the product lines were replaced in January 1979. The USTs were also tested for tightness and passed. Product samples taken from the BART tube in January 1979 and in May 1981 indicated Shell Regular product. Approximately 2,600 of a gasoline-and-water mixture are reported to have been removed from the BART tunnel between October 1979 and April 1980.

Seven monitoring wells, L-1 through L-7, were installed in 1981. Based on recommendations following this investigation, a recovery well was installed in the vicinity of well L-6 (now renamed S-6) in 1982. Groundwater extraction from the recovery well began in February 1982 and continued until August 1982, when the system was shut down because the effluent discharge exceeded permitted discharge levels.

Wells L-1 through L-3 were destroyed during construction in the mid 80's and are no longer accessible. Wells L-4, L-5 and L-6 were renamed S-4, S-5 and S-6. Gettler-Ryan Inc. began gauging wells S-4 through S-6 in 1986 and collecting groundwater samples for analysis in 1988. Groundwater was extracted from wells S-5 and S-6 by bailing or by a vacuum truck beginning in October 1988.

In July 1994, nine soil borings were installed in the vicinity of the former pump islands and the former USTs at the site. The maximum TPHg and benzene concentrations reported in soil samples were 15 ppm and 0.24 ppm, respectively, collected near the former pump islands. No TPHg or benzene was reported in the area of the former piping or the former UST locations.

In December 1994, onsite monitoring wells S-8, S-9 and S-10 were installed. Except for 0.014 ppm benzene in sample S-8-21.5, no TPHg or benzene were reported in soil samples collected from wells S-8 and S-9. Except for 760 ppm TPHg and 0.0032 benzene reported in sample S-10-11.5, no TPHg or benzene were reported in soil samples collected from well S-10.

Groundwater Monitoring Summary

Historical groundwater monitoring data indicates that onsite monitoring wells S-8, S-9 and S-10 have reported TPHg concentrations ranging from below method detection limits to 5,200 ppb and benzene concentrations ranging from 1.0 ppb to 1,800 ppb. No SPH have been reported onsite. Offsite well S-5 has consistently reported SPH, and wells S-5 and S-6 have reported up to 142,000 ppb TPHg and 29,000 ppb benzene. Currently, groundwater is extracted from wells S-5 and S-6 during quarterly monitoring activities to facilitate SPH removal.

Depth to water has ranged from approximately 13 to 25 feet below grade throughout the investigation.

Potential Offsite Sources

As part of a phase one investigation, seven sites were identified within a 1/4-mile radius of the site with known UST leaks. One of the seven sites identified is the Oakland Police Department site, which was noted in Shell's *Bart Recovery Project Log* to have replaced leaking USTs in October 1979 and to have accepted product deliveries by a local Shell gasoline distributor. During a review of available regulatory files, a permit was found to repair the product lines and dispensers at the Oakland Police Department parking lot taken out in 1984 by Egan and Paradiso Company, but no additional information was available. It appears that no environmental investigation has been conducted for this site.

Further investigation performed in 1996 identified the former Chevron site located on the southeast corner of the intersection of Broadway and Seventh Street, and a former Flying A service station located at the southwest corner of Franklin and Seventh Street.

A letter sent to Shell by BART management, indicates that the gasoline intrusion that initiated this investigation was in fact located at "Engineering Station 915+64." The BART plan and profile shows this location to be at approximately 7th Street and Broadway, directly in front of the previously identified former Chevron. In contrast, the former Shell is located near Engineering Station 918, over 200 feet away.

*upgrade in
+ on the
opposite of
BART's observed relax*

Conduit Study and Well Survey

The only well identified downgradient of the site is a cathodic protection well located 1300 feet away.

Utilities in the area are located at shallow depths and typically do not intercept groundwater, based on historical groundwater fluctuations.

The BART tunnels are located at depths such that they do encounter groundwater. During high water periods, groundwater is located above the top of the BART tubes, allowing the possibility of groundwater flow over the top of the tubes.

Discussion

Shell was proactive in addressing SPH when they were initially discovered in the BART tube in 1979. Investigation was performed, a recovery system installed, and ongoing monitoring has taken place over an extended period of time.

SPH have never been identified on the former Shell site. Laws of chemical fate and transport dictate that SPH will never be identified at higher levels at any point downgradient of their source area. Well S-10 is installed within the former USTs areas, and well S-9 is downgradient of former pump island areas. No SPH have been found in these wells, and dissolved concentrations are significantly lower than found in downgradient wells S-5 and S-6. This situation would conflict with laws of fate and transport if the hydrocarbons originated from the site.

*Other
scenario:
well depth
the other end*

The Chevron station identified is located 200 feet closer to well S-5, where the SPH has historically been located, than the former Shell site. Although there are no records of a release from this site, station operation was discontinued before sampling was required during tank removal and before agency systems for release reporting and tracking were in place.

The Oakland Police Motor Pool was also reported to have removed and replaced leaking tanks in 1979. Permits from 1984 are on file showing a product line repair was also performed. These activities suggest this site could also be a source of the identified hydrocarbons.

Given this data, we believe it appropriate that these other sources be considered as part of the investigation of the SPH in this area.

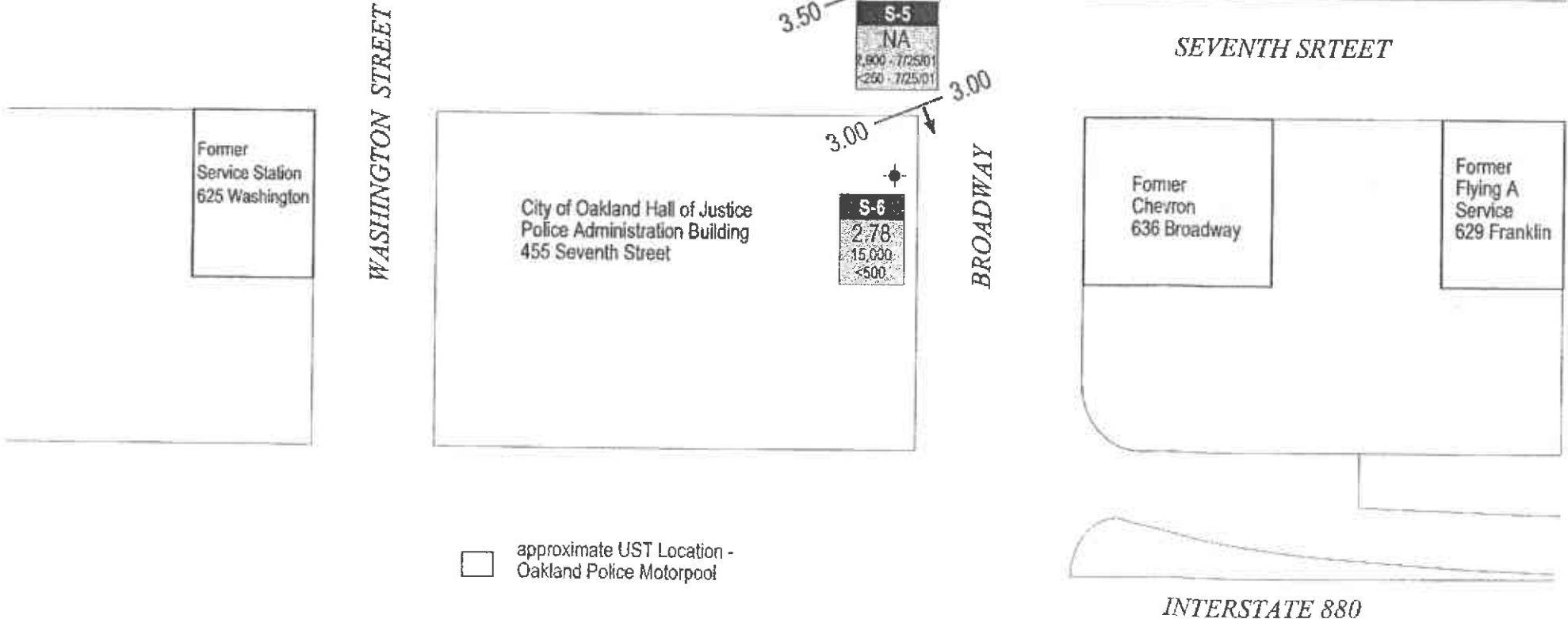
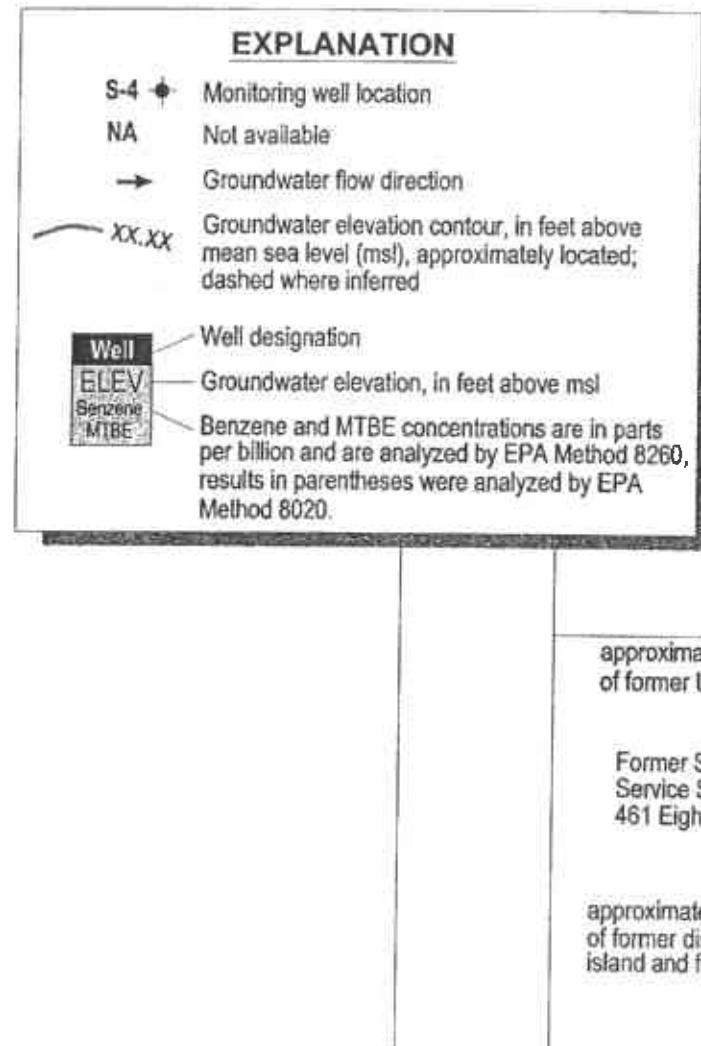
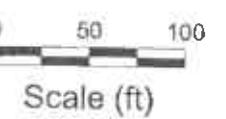
Groundwater Elevation Contour Map

461 Eighth Street
Oakland, California
Incident #97093399

Former Shell Service Station
461 Eighth Street
Oakland, California
Incident #97093399

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FIGURE



WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA
WIC #204-5508-6200

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

| | | | | | | | | | | | | |
|-----|------------|-------------------|------|------|------|------|----|----|-------------|-------|-------|----|
| S-4 | 10/26/1988 | 130 | 3.8 | 13 | 4.0 | 30 | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 02/14/1989 | <50 | 0.5 | <1 | <1 | 3.0 | NA | NA | 93.51 (TOC) | 12.82 | 80.69 | NA |
| S-4 | 05/01/1989 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 16.48 | 77.03 | NA |
| S-4 | 07/27/1989 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.84 | 77.67 | NA |
| S-4 | 10/05/1989 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.98 | 77.53 | NA |
| S-4 | 01/09/1990 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.86 | 77.65 | NA |
| S-4 | 04/30/1990 | <50 | <0.5 | <0.5 | <0.5 | <1 | NA | NA | 93.51 (TOC) | 14.48 | 79.03 | NA |
| S-4 | 07/31/1990 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 10/30/1990 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 05/06/1991 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.23 | 78.28 | NA |
| S-4 | 06/27/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 93.51 (TOC) | 13.54 | 79.97 | NA |
| S-4 | 09/24/1991 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.85 | 77.66 | NA |
| S-4 | 11/07/1991 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.60 | 77.91 | NA |
| S-4 | 02/13/1992 | <50 | <0.5 | <0.5 | <0.5 | 3.0 | NA | NA | 93.51 (TOC) | 14.27 | 79.24 | NA |
| S-4 | 05/11/1992 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 12/03/1992 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 05/13/1993 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 14.81 | 78.70 | NA |
| S-4 | 07/22/1993 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 14.42 | 79.09 | NA |
| S-4 | 10/20/1993 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 01/25/1994 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 14.60 | 78.91 | NA |
| S-4 | 04/25/1994 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 14.39 | 79.12 | NA |
| S-4 | 07/21/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 93.51 (TOC) | 22.29 | 71.22 | NA |
| S-4 | 10/24/1994 | <500 | <0.3 | <0.3 | <0.3 | <0.6 | NA | NA | 93.51 (TOC) | 22.72 | 70.79 | NA |
| S-4 | 12/22/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 25.77* | 22.25 | 3.52 | NA |
| S-4 | 04/20/1995 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 25.77 | 21.16 | 4.61 | NA |
| S-4 | 10/04/1995 | <50 | 1.2 | 0.7 | <0.5 | <0.5 | NA | NA | 25.77 | 22.25 | 3.52 | NA |

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461 8th Street
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|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
|---------|------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|

| | | | | | | | | | | | | |
|-----|------------|-------|--------|--------|--------|--------|-------|------|-------|-------|------|----|
| S-4 | 01/03/1996 | <50 | 0.6 | <0.5 | <0.5 | 1.7 | NA | NA | 25.77 | 23.28 | 2.49 | NA |
| S-4 | 04/11/1996 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | NA | 25.77 | 21.58 | 4.19 | NA |
| S-4 | 07/11/1996 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 21.60 | 4.17 | NA |
| S-4 | 10/02/1996 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.6 | NA | 25.77 | 22.46 | 3.31 | NA |
| S-4 | 01/22/1997 | <50 | 0.73 | <0.50 | <0.50 | 0.63 | <2.5 | NA | 25.77 | 20.06 | 5.71 | NA |
| S-4 | 07/21/1997 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 22.10 | 3.67 | NA |
| S-4 | 01/22/1998 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 20.50 | 5.27 | NA |
| S-4 | 07/08/1998 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 20.86 | 4.91 | NA |
| S-4 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 21.41 | 4.36 | NA |
| S-4 | 01/28/1999 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 22.34 | 3.43 | NA |
| S-4 | 04/23/1999 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 21.43 | 4.34 | NA |
| S-4 | 07/29/1999 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | NA | 25.77 | 21.45 | 4.32 | NA |
| S-4 | 11/01/1999 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 22.08 | 3.69 | NA |
| S-4 | 01/07/2000 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 22.29 | 3.48 | NA |
| S-4 | 04/11/2000 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 21.11 | 4.66 | NA |
| S-4 | 07/19/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | NA | 25.77 | 21.19 | 4.58 | NA |
| S-4 | 10/12/2000 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 22.22 | 3.55 | NA |
| S-4 | 01/09/2001 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | NA | 25.77 | 22.17 | 3.60 | NA |
| S-4 | 04/06/2001 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 21.50 | 4.27 | NA |
| S-4 | 07/25/2001 | <50 | 2.0 | 0.52 | <0.50 | 1.0 | NA | <5.0 | 25.77 | 21.50 | 4.27 | NA |
| S-4 | 11/01/2001 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 21.95 | 3.82 | NA |

| | | | | | | | | | | | | |
|-----|------------|--------|-------|-------|------|--------|----|----|-------------|-------|-------|----|
| S-5 | 04/16/1987 | 130000 | 15000 | 16000 | NA | 14000a | NA | NA | 99.36 (TOC) | NA | NA | NA |
| S-5 | 10/26/1988 | 110000 | 20000 | 25000 | 2300 | 10000 | NA | NA | 99.36 (TOC) | NA | NA | NA |
| S-5 | 02/14/1989 | 94000 | 16000 | 21000 | 1800 | 10000 | NA | NA | 99.36 (TOC) | 19.87 | 79.49 | NA |
| S-5 | 05/01/1989 | 120000 | 29000 | 35000 | 3100 | 15000 | NA | NA | 99.36 (TOC) | 21.23 | 78.13 | NA |
| S-5 | 07/27/1989 | 110000 | 20000 | 29000 | 2400 | 14000 | NA | NA | 99.36 (TOC) | 20.41 | 78.95 | NA |

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|---------|------------|-------------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
| S-5 | 10/05/1989 | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 20.43 | 78.94 | 0.01 | |
| S-5 | 01/09/1990 | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.16 | 78.21 | 0.01 | |
| S-5 | 04/30/1990 | 100000 | 13000 | 22000 | 2100 | 11000 | NA | NA | 99.36 (TOC) | 20.96 | 78.40 | NA |
| S-5 | 07/31/1990 | 53000 | 8300 | 14000 | 1200 | 7400 | NA | NA | 99.36 (TOC) | 20.88 | 78.48 | NA |
| S-5 | 10/30/1990 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.96 | 77.42 | 0.03 |
| S-5 | 05/06/1991 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 23.00 | 76.46 | 0.13 |
| S-5 | 06/27/1991 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 20.53 | 78.85 | 0.03 |
| S-5 | 09/24/1991 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.40 | 78.01 | 0.08 |
| S-5 | 11/07/1991 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.33 | 78.23 | 0.25 |
| S-5 | 02/13/1992 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.52 | 77.09 | 0.31 |
| S-5 | 05/11/1992 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.46 | 77.36 | 0.58 |
| S-5 | 12/03/1992 | Well inaccessible | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | NA | NA | NA |
| S-5 | 05/13/1993 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.22 | 77.36 | 0.27 |
| S-5 | 07/22/1993 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.68 | 77.88 | 0.25 |
| S-5 | 10/20/1993 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 20.51 | 79.03 | 0.23 |
| S-5 | 01/25/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.93 | 77.57 | 0.18 |
| S-5 | 04/25/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.97 | 77.67 | 0.35 |
| S-5 | 05/26/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 20.84 | 78.80 | 0.35 |
| S-5 | 06/10/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.01 | 78.61 | 0.32 |
| S-5 | 07/21/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.18 | 77.56 | 0.47 |
| S-5 | 08/25/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.01 | 77.70 | 0.44 |
| S-5 | 09/22/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.00 | 77.48 | 0.15 |
| S-5 | 10/24/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.28 | 77.53 | 0.56 |
| S-5 | 12/22/1994 | NA | NA | NA | NA | NA | NA | NA | 22.94* | 22.88 | 0.85 | 0.99 |
| S-5 | 04/20/1995 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 21.66 | 1.54 | 0.33 |
| S-5 | 10/04/1995 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 22.18 | 0.76 | NA |
| S-5 | 01/03/1996 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 22.80 | 0.80 | 0.83 |

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| | | | | | | | | | | | | |
|-----|------------|-------------------|-------|-------|------|-------|-------|-------|-------|-------|------|------|
| S-5 | 04/11/1996 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 21.15 | 2.33 | 0.67 |
| S-5 | 07/11/1996 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 22.62 | 1.04 | 0.90 |
| S-5 | 10/02/1996 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 23.07 | 0.38 | 0.64 |
| S-5 | 01/22/1997 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 20.83 | 2.24 | 0.16 |
| S-5 | 07/21/1997 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 21.16 | 1.82 | 0.05 |
| S-5 | 01/22/1998 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 20.04 | 2.93 | 0.04 |
| S-5 | 07/08/1998 | 220 | 14 | 40 | 5.8 | 34 | 3.3 | NA | 22.94 | 18.61 | 4.33 | NA |
| S-5 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 17.31 | 5.63 | NA |
| S-5 | 01/28/1999 | 51000 | 13000 | 1200 | 1200 | 2400 | 2400 | NA | 22.94 | 20.11 | 2.83 | NA |
| S-5 | 04/23/1999 | 65600 | 2540 | 7300 | 1790 | 9840 | <1000 | NA | 22.94 | 19.21 | 3.73 | NA |
| S-5 | 07/29/1999 | 61400 | 3320 | 6980 | 1520 | 7700 | <1000 | NA | 22.94 | 14.77 | 8.17 | NA |
| S-5 | 11/01/1999 | 48200 | 2700 | 5740 | 1290 | 7850 | <500 | <40.0 | 22.94 | 15.56 | 7.38 | NA |
| S-5 | 01/07/2000 | 39000 | 3900 | 8500 | 790 | 8300 | 1500 | NA | 22.94 | 15.82 | 7.12 | NA |
| S-5 | 04/11/2000 | 29300 | 1680 | 5060 | 1130 | 6220 | <250 | NA | 22.94 | 18.19 | 4.75 | NA |
| S-5 | 07/19/2000 | 6420 | 2110 | 207 | 252 | 681 | 355 | 253b | 22.94 | 19.01 | 3.93 | NA |
| S-5 | 10/12/2000 | 41500 | 2940 | 4940 | 1520 | 7770 | <250 | <66.7 | 22.94 | 19.62 | 3.32 | NA |
| S-5 | 01/09/2001 | 142000 | 7030 | 9550 | 2340 | 12600 | 779 | NA | 22.94 | 19.94 | 3.00 | NA |
| S-5 | 04/06/2001 | Well inaccessible | NA | NA | NA | NA | NA | NA | 22.94 | NA | NA | NA |
| S-5 | 04/13/2001 | 59800 | 4810 | 10800 | 1950 | 10100 | 842 | <10.0 | 22.94 | 14.72 | 8.22 | NA |
| S-5 | 07/25/2001 | 71000 | 2900 | 6800 | 1700 | 9100 | NA | <250 | 22.94 | 14.91 | 8.03 | NA |
| S-5 | 08/13/2001 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 19.43 | 3.51 | NA |
| S-5 | 11/01/2001 | Unable to locate | NA | NA | NA | NA | NA | NA | 22.94 | NA | NA | NA |

| | | | | | | | | | | | | |
|-----|------------|--------|-------|-------|------|-------|----|----|--------------|-------|-------|----|
| S-6 | 04/16/1987 | 81000 | 16000 | 9000 | NA | 6400a | NA | NA | 100.58 (TOC) | NA | NA | NA |
| S-6 | 10/26/1988 | 110000 | 29000 | 18000 | 2500 | 8200 | NA | NA | 100.58 (TOC) | NA | NA | NA |
| S-6 | 02/14/1989 | 54000 | 18000 | 4500 | 1400 | 4000 | NA | NA | 100.58 (TOC) | 20.87 | 79.71 | NA |
| S-6 | 05/01/1989 | 93000 | 43000 | 9900 | 3000 | 8000 | NA | NA | 100.58 (TOC) | 20.49 | 80.09 | NA |

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|---------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
| S-6 | 07/27/1989 | 52000 | 20000 | 3200 | 1700 | 5500 | NA | NA | 100.58 (TOC) | 21.01 | 79.57 | NA |
| S-6 | 10/05/1989 | 55000 | 20000 | 2900 | 1600 | 5500 | NA | NA | 100.58 (TOC) | 21.24 | 79.34 | NA |
| S-6 | 01/09/1990 | 76000 | 35000 | 9100 | 2300 | 8600 | NA | NA | 100.58 (TOC) | 22.62 | 77.96 | SHEEN |
| S-6 | 04/30/1990 | 39000 | 13000 | 2300 | 900 | 2800 | NA | NA | 100.58 (TOC) | 22.10 | 78.48 | NA |
| S-6 | 07/31/1990 | 48000 | 20000 | 4600 | 1500 | 4900 | NA | NA | 100.58 (TOC) | 22.00 | 78.58 | NA |
| S-6 | 10/30/1990 | 27000 | 7400 | 900 | 600 | 1400 | NA | NA | 100.58 (TOC) | 22.14 | 78.44 | NA |
| S-6 | 05/06/1991 | 35000 | 3900 | 2700 | 2300 | 3500 | NA | NA | 100.58 (TOC) | 22.40 | 78.18 | NA |
| S-6 | 06/27/1991 | 51000 | 19000 | 5600 | 1700 | 6300 | NA | NA | 100.58 (TOC) | 21.21 | 79.37 | NA |
| S-6 | 09/24/1991 | 42000 | 14000 | 4300 | 1200 | 4000 | NA | NA | 100.58 (TOC) | 22.26 | 78.32 | NA |
| S-6 | 11/07/1991 | 39000 | 11000 | 2000 | 800 | 2300 | NA | NA | 100.58 (TOC) | 22.35 | 78.23 | NA |
| S-6 | 02/13/1992 | 64000 | 21000 | 6200 | 1600 | 5100 | NA | NA | 100.58 (TOC) | 22.28 | 78.30 | NA |
| S-6 | 05/11/1992 | 57000 | 22000 | 7600 | 2200 | 7700 | NA | NA | 100.58 (TOC) | 22.10 | 78.48 | NA |
| S-6 | 12/03/1992 | 110000 | 26000 | 9400 | 2100 | 8700 | NA | NA | 100.58 (TOC) | 22.14 | 78.44 | NA |
| S-6 | 05/13/1993 | 58000 | 21000 | 6800 | 2500 | 9800 | NA | NA | 100.58 (TOC) | 22.16 | 78.42 | NA |
| S-6 | 07/22/1993 | 70000 | 31000 | 14000 | 3000 | 13000 | NA | NA | 100.58 (TOC) | 21.64 | 78.94 | NA |
| S-6 | 10/20/1993 | 48000 | 28000 | 9800 | 3200 | 12000 | NA | NA | 100.58 (TOC) | 21.62 | 78.96 | NA |
| S-6 | 01/25/1994 | 70000 | 23000 | 7500 | 2500 | 8000 | NA | NA | 100.58 (TOC) | 21.80 | 78.78 | NA |
| S-6 | 04/25/1994 | 61000 | 16000 | 4000 | 1800 | 5100 | NA | NA | 100.58 (TOC) | 21.68 | 78.90 | NA |
| S-6 | 07/21/1994 | 44000 | 8200 | 3600 | 1400 | 3900 | NA | NA | 100.58 (TOC) | 21.78 | 78.80 | NA |
| S-6 (D) | 07/21/1994 | 32000 | 7800 | 3400 | 1300 | 3700 | NA | NA | 22.08 | NA | NA | NA |
| S-6 | 10/24/1994 | 2936 | 1184 | 440.6 | 163 | 648.4 | NA | NA | 100.58 (TOC) | 22.06 | 78.52 | NA |
| S-6 (D) | 10/24/1994 | 2968 | 770.8 | 325.3 | 144 | 622 | NA | NA | 22.08 | NA | NA | NA |
| S-6 | 12/22/1994 | 32000 | 7000 | 2900 | 790 | 2400 | NA | NA | 22.08* | 21.91 | 0.17 | NA |
| S-6 (D) | 12/22/1994 | 32000 | 8000 | 3800 | 1100 | 3400 | NA | NA | 22.08 | NA | NA | NA |
| S-6 | 04/20/1995 | 56000 | 15000 | 3800 | 1900 | 4900 | NA | NA | 22.08 | 21.38 | 0.70 | NA |
| S-6 (D) | 04/20/1995 | 49000 | 13000 | 3500 | 1800 | 4700 | NA | NA | 22.08 | NA | NA | NA |
| S-6 | 10/04/1995 | 49000 | 8400 | 4700 | 1800 | 4800 | NA | NA | 22.08 | 21.80 | 0.28 | NA |

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA
WIC #204-5508-6200

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) |
|---------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
| S-6 (D) | 10/04/1995 | 41000 | 8400 | 4100 | 1400 | 4400 | NA | NA | 22.08 | NA | NA | NA |
| S-6 | 01/03/1996 | 52000 | 9100 | 7100 | 1800 | 5800 | NA | NA | 22.08 | 21.70 | 0.38 | NA |
| S-6 | 04/11/1996 | 59000 | 11000 | 7100 | 2100 | 6400 | <500 | NA | 22.08 | 21.62 | 0.46 | NA |
| S-6 (D) | 04/11/1996 | 59000 | 11000 | 6800 | 1900 | 6400 | <500 | NA | 22.08 | NA | NA | NA |
| S-6 | 07/11/1996 | 72000 | 18000 | 6600 | 2500 | 8400 | <1000 | NA | 22.08 | 21.65 | 2.78 | NA |
| S-6 | 10/02/1996 | 57000 | 11000 | 6500 | 1500 | 5100 | <500 | NA | 22.08 | 21.80 | 2.63 | NA |
| S-6 | 01/22/1997 | 67000 | 15000 | 5000 | 1800 | 5400 | <1000 | NA | 22.08 | 19.95 | 2.13 | NA |
| S-6 (D) | 01/22/1997 | 63000 | 15000 | 4800 | 1800 | 5200 | <1000 | NA | 22.08 | NA | NA | NA |
| S-6 | 07/21/1997 | 61000 | 15000 | 2100 | 1100 | 3500 | 1900 | NA | 22.08 | 20.61 | 1.47 | NA |
| S-6 | 01/22/1998 | 46000 | 14000 | 3200 | 1300 | 3400 | <500 | NA | 22.08 | 19.82 | 2.26 | NA |
| S-6 | 07/08/1998 | 74000 | 26000 | 7500 | 2200 | 6200 | <1000 | NA | 22.08 | 18.20 | 3.88 | NA |
| S-6 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 22.08 | 18.81 | 3.27 | NA |
| S-6 | 01/28/1999 | 120000 | 9000 | 14000 | 2700 | 14000 | 3700 | NA | 22.08 | 19.73 | 2.35 | NA |
| S-6 | 04/23/1999 | 58500 | 15900 | 1360 | 1640 | 3030 | <2500 | NA | 22.08 | 17.58 | 4.50 | NA |
| S-6 | 07/29/1999 | 36200 | 10300 | 760 | 930 | 1360 | <1000 | NA | 22.08 | 21.35 | 0.73 | NA |
| S-6 | 11/01/1999 | 36000 | 11700 | 767 | 865 | 1670 | <1250 | <40.0 | 22.08 | 19.23 | 2.85 | NA |
| S-6 | 01/07/2000 | 36000 | 7600 | 4600 | 840 | 3600 | <1000 | NA | 22.08 | 19.53 | 2.55 | NA |
| S-6 | 04/11/2000 | 14600 | 7540 | 205 | 306 | 609 | 621 | NA | 22.08 | 18.16 | 3.92 | NA |
| S-6 | 07/19/2000 | 2590 | 629 | 63.9 | 99.6 | 267 | 124 | 72.7b | 22.08 | 18.40 | 3.68 | NA |
| S-6 | 10/12/2000 | 32900 | 14200 | 966 | 1060 | 1790 | <500 | <100 | 22.08 | 19.52 | 2.56 | NA |
| S-6 | 01/09/2001 | 27600 | 11200 | 675 | 666 | 1580 | 1430 | <10.0b | 22.08 | 19.69 | 2.39 | NA |
| S-6 | 02/05/2001 | NA | NA | NA | NA | NA | NA | NA | 22.08 | 19.20 | 2.88 | NA |
| S-6 | 04/06/2001 | 16900 | 7800 | 343 | 172 | 966 | 809 | <20.0 | 22.08 | 18.25 | 3.83 | NA |
| S-6 | 07/25/2001 | 29000 | 9800 | 1700 | 1000 | 1800 | NA | <250 | 22.08 | 18.27 | 3.81 | NA |
| S-6 | 11/01/2001 | 41000 | 15000 | 2400 | 1100 | 2500 | NA | <500 | 22.08 | 19.30 | 2.78 | NA |
| S-8 | 12/22/1994 | 600 | 120 | 32 | 5.2 | 34 | NA | NA | 27.21 | 24.87 | 2.34 | NA |

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA
Wic #204-5508-6200

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) |
|---------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
| S-8 | 04/20/1995 | 460 | 180 | 23 | 5.2 | 21 | NA | NA | 27.21 | 23.90 | 3.31 | NA |
| S-8 | 10/04/1995 | 830 | 210 | 38 | 11 | 42 | NA | NA | 27.21 | 24.48 | 2.73 | NA |
| S-8 | 01/03/1996 | 350 | 61 | 12 | 2.5 | 12 | NA | NA | 27.21 | 24.62 | 2.59 | NA |
| S-8 (D) | 01/03/1996 | 340 | 54 | 12 | 2.4 | 12 | NA | NA | 27.21 | NA | NA | NA |
| S-8 | 04/11/1996 | 570 | 140 | 37 | 12 | 47 | <6.2 | NA | 27.21 | 24.32 | 2.89 | NA |
| S-8 | 07/11/1996 | 980 | 98 | 32 | 9.1 | 160 | <12 | NA | 27.21 | 24.10 | 3.11 | NA |
| S-8 | 10/02/1996 | 280 | 62 | 13 | 3.3 | 25 | 15 | NA | 27.21 | 25.38 | 1.83 | NA |
| S-8 (D) | 10/02/1996 | 490 | 110 | 24 | 7.0 | 45 | 22 | <2.0 | 27.21 | NA | NA | NA |
| S-8 | 01/22/1997 | 400 | 90 | 13 | 4.9 | 25 | 12 | NA | 27.21 | 23.91 | 3.30 | NA |
| S-8 | 07/21/1997 | 2900 | 380 | 110 | 26 | 260 | 85 | NA | 27.21 | 23.62 | 3.59 | NA |
| S-8 (D) | 07/21/1997 | 3200 | 420 | 120 | 32 | 300 | 130 | NA | 27.21 | NA | NA | NA |
| S-8 | 01/22/1998 | 3800 | 790 | 140 | 42 | 330 | 160 | NA | 27.21 | 23.52 | 3.69 | NA |
| S-8 (D) | 01/22/1998 | 3500 | 780 | 120 | 33 | 300 | 160 | NA | 27.21 | NA | NA | NA |
| S-8 | 07/08/1998 | 3600 | 1800 | <25 | <25 | <25 | <125 | NA | 27.21 | 21.52 | 5.69 | NA |
| S-8 (D) | 07/08/1998 | 4000 | 1800 | <25 | <25 | 31 | <125 | NA | 27.21 | NA | NA | NA |
| S-8 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 27.21 | 22.01 | 5.20 | NA |
| S-8 | 01/28/1999 | 2000 | 630 | 6.2 | 24 | 51 | 43 | NA | 27.21 | 23.03 | 4.18 | NA |
| S-8 | 04/23/1999 | 1050 | 408 | <5.00 | <5.00 | 6.65 | <50.0 | NA | 27.21 | 22.15 | 5.06 | NA |
| S-8 | 07/29/1999 | 955 | 344 | <2.50 | 6.90 | 16.2 | <25.0 | NA | 27.21 | 21.95 | 5.26 | NA |
| S-8 | 11/01/1999 | 1800 | 550 | 6.45 | 15 | 40.4 | <50.0 | NA | 27.21 | 22.55 | 4.66 | NA |
| S-8 | 01/07/2000 | 1300 | 600 | 11 | 29 | 48 | <13 | NA | 27.21 | 22.87 | 4.34 | NA |
| S-8 | 04/11/2000 | 342 | 101 | 4.42 | 4.24 | 14.7 | 21.4 | NA | 27.21 | 21.86 | 5.35 | NA |
| S-8 | 07/19/2000 | 579 | 228 | 6.37 | 6.45 | 25.0 | <12.5 | NA | 27.21 | 21.93 | 5.28 | NA |
| S-8 | 10/12/2000 | 947 | 340 | 8.64 | 3.26 | 38.3 | <12.5 | <2.00 | 27.21 | 22.92 | 4.29 | NA |
| S-8 | 01/09/2001 | 1090 | 394 | <10.0 | <10.0 | 33.3 | 57.6 | NA | 27.21 | 23.19 | 4.02 | NA |
| S-8 | 04/06/2001 | 671 | 182 | 12.5 | 16.4 | 47.1 | 42.5 | NA | 27.21 | 22.46 | 4.75 | NA |
| S-8 | 07/25/2001 | 500 | 70 | 6.7 | 11 | 23 | NA | <5.0 | 27.21 | 22.50 | 4.71 | NA |

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA
Wic #204-5508-6200

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) |
|---------|------------|-------------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
| S-8 | 11/01/2001 | 1900 | 250 | 28 | 39 | 180 | NA | <5.0 | 27.21 | 22.44 | 4.77 | NA |
| S-9 | 12/22/1994 | 2600 | 400 | 150 | 42 | 310 | NA | NA | 26.06 | 24.37 | 1.69 | NA |
| S-9 | 04/20/1995 | 1900 | 400 | 130 | 51 | 200 | NA | NA | 26.06 | 23.49 | 2.57 | NA |
| S-9 | 10/04/1995 | 3200 | 590 | 260 | 68 | 280 | NA | NA | 26.06 | 24.01 | 2.05 | NA |
| S-9 | 01/03/1996 | Well inaccessible | | NA | NA | NA | NA | NA | 26.06 | NA | NA | NA |
| S-9 | 04/11/1996 | 2100 | 440 | 1500 | 42 | 210 | <25 | NA | 26.06 | 23.61 | 2.45 | NA |
| S-9 | 07/11/1996 | 5200 | 940 | 450 | 120 | 520 | <50 | NA | 26.06 | 23.78 | 2.28 | NA |
| S-9 (D) | 07/11/1996 | 4800 | 890 | 430 | 110 | 500 | <50 | NA | 26.06 | NA | NA | NA |
| S-9 | 10/02/1996 | 3000 | 680 | 220 | 56 | 270 | <62 | NA | 26.06 | 24.31 | 1.75 | NA |
| S-9 | 01/22/1997 | 1500 | 230 | 71 | 36 | 130 | <12 | NA | 26.06 | 23.08 | 2.98 | NA |
| S-9 | 07/21/1997 | 3400 | 590 | 57 | 19 | 210 | 96 | NA | 26.06 | 22.83 | 3.23 | NA |
| S-9 | 01/22/1998 | 2600 | 300 | 46 | <10 | 270 | 62 | NA | 26.06 | 21.96 | 4.10 | NA |
| S-9 | 07/08/1998 | 820 | 150 | 6.2 | 8 | 57 | <10 | NA | 26.06 | 20.85 | 5.21 | NA |
| S-9 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 21.39 | 4.67 | NA |
| S-9 | 01/28/1999 | <50 | 1.0 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 26.06 | 22.32 | 3.74 | NA |
| S-9 | 04/23/1999 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 21.41 | 4.65 | NA |
| S-9 | 07/29/1999 | 117 | 7.77 | 0.817 | 0.683 | 5.05 | <5.00 | NA | 26.06 | 21.25 | 4.81 | NA |
| S-9 | 11/01/1999 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 21.92 | 4.14 | NA |
| S-9 | 01/07/2000 | <50 | 1.2 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 26.06 | 22.11 | 3.95 | NA |
| S-9 | 04/11/2000 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 21.14 | 4.92 | NA |
| S-9 | 07/19/2000 | Well inaccessible | | NA | NA | NA | NA | NA | 26.06 | NA | NA | NA |
| S-9 | 10/12/2000 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 22.24 | 3.82 | NA |
| S-9 | 01/09/2001 | <50.0 | 1.45 | <0.500 | <0.500 | <0.500 | <2.50 | NA | 26.06 | 22.52 | 3.54 | NA |
| S-9 | 04/06/2001 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 23.61 | 2.45 | NA |
| S-9 | 07/25/2001 | Well inaccessible | | NA | NA | NA | NA | NA | 26.06 | NA | NA | NA |
| S-9 | 08/13/2001 | Well inaccessible | | NA | NA | NA | NA | NA | 26.06 | NA | NA | NA |

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
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Wic #204-5508-6200

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOB (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) |
|---------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
| S-9 | 11/01/2001 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 21.78 | 4.28 | NA |
| S-10 | 12/22/1994 | 420 | 27 | 8.0 | 18 | 45 | NA | NA | 28.04 | 25.84 | 2.20 | NA |
| S-10 | 04/20/1995 | 820 | 49 | 3.7 | 97 | 52 | NA | NA | 28.04 | 24.92 | 3.12 | NA |
| S-10 | 10/04/1995 | 240 | 6.5 | 1.1 | 16 | 12 | NA | NA | 28.04 | 25.47 | 2.57 | NA |
| S-10 | 01/03/1996 | 1100 | 27 | 4.9 | 110 | 70 | NA | NA | 28.04 | 25.60 | 2.44 | NA |
| S-10 | 04/11/1996 | 530 | 19 | 1.6 | 82 | 52 | <5.0 | NA | 28.04 | 25.27 | 2.77 | NA |
| S-10 | 07/11/1996 | 570 | 16 | 3.2 | 53 | 53 | <2.5 | NA | 28.04 | 25.46 | 2.58 | NA |
| S-10 | 10/02/1996 | 270 | 8.2 | 0.77 | 24 | 23 | 3.3 | NA | 28.04 | 25.81 | 2.23 | NA |
| S-10 | 01/22/1997 | 160 | 4.8 | 0.73 | 16 | 11 | <2.5 | NA | 28.04 | 24.74 | 3.30 | NA |
| S-10 | 07/21/1997 | 530 | 5.7 | 0.70 | 29 | 69 | <2.5 | NA | 28.04 | 24.50 | 3.54 | NA |
| S-10 | 01/22/1998 | 1500 | 15 | <5.0 | 88 | 130 | <25 | NA | 28.04 | 24.44 | 3.60 | NA |
| S-10 | 07/08/1998 | 530 | 4.8 | 1.1 | 47 | 51 | <2.5 | NA | 28.04 | 22.36 | 5.68 | NA |
| S-10 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 22.81 | 5.23 | NA |
| S-10 | 01/28/1999 | 630 | 4.6 | 0.98 | <0.50 | 59 | <2.5 | NA | 28.04 | 23.82 | 4.22 | NA |
| S-10 | 04/23/1999 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 22.96 | 5.08 | NA |
| S-10 | 07/29/1999 | 728 | 3.40 | <1.00 | 41.8 | 38.0 | <10.0 | NA | 28.04 | 22.63 | 5.41 | NA |
| S-10 | 11/01/1999 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 23.02 | 5.02 | NA |
| S-10 | 01/07/2000 | 870 | 8.5 | 1.3 | 110 | 110 | <2.5 | NA | 28.04 | 23.33 | 4.71 | NA |
| S-10 | 04/11/2000 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 22.64 | 5.40 | NA |
| S-10 | 07/19/2000 | 612 | 3.75 | <0.500 | 41.6 | 43.6 | <2.50 | NA | 28.04 | 23.04 | 5.00 | NA |
| S-10 | 10/12/2000 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 23.92 | 4.12 | NA |
| S-10 | 01/09/2001 | 647 | 7.62 | 1.01 | 66.2 | 42.4 | <2.50 | NA | 28.04 | 24.13 | 3.91 | NA |
| S-10 | 04/06/2001 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 25.37 | 2.67 | NA |
| S-10 | 07/25/2001 | 340 | 1.5 | <0.50 | 42 | 19 | NA | <5.0 | 28.04 | 25.35 | 2.69 | NA |
| S-10 | 11/01/2001 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 23.22 | 4.82 | NA |

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
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Wic #204-5508-6200

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

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA
Wic #204-5508-6200

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

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to July 25, 2001 analyzed by EPA Method 8015

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to July 25, 2001 analyzed by EPA Method 8020

MTBE = methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

TOB = Top of Wellbox Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

Notes:

* = Prior to December 22, 1994, well elevations taken from Top of Casing.

a = Ethylbenzene and xylenes combined.

b = This sample analyzed outside of EPA recommended holding time.

Table 1: Groundwater Extraction - Estimated Mass Removal Data - Former Shell Service Station, Incident #97093399, 461 Eighth Street, Oakland, California

| Date Purged | Well ID | Cumulative | | | TPPH | | | Benzene | | | MTBE | | |
|----------------|------------|---------------------------|---------------------------|-----------------|--------------------------------|-----------------------------|--|-----------------------------------|--------------------------------|---|--------------------------------|-----------------------------|--|
| | | Volume Pumped (gal) | Volume Pumped (gal) | Date Sampled | TPPH Concentration (ppb) | TPPH Removed (pounds) | TPPH Removed To Date (pounds) | Benzene Concentration (ppb) | Benzene Removed (pounds) | Benzene Removed To Date (pounds) | MTBE Concentration (ppb) | MTBE Removed (pounds) | MTBE Removed To Date (pounds) |
| 05/13/93 | S-5 | 0 | 0 | 07/31/90 | 53,000 | 0.00000 | 0.00000 | 14,000 | 0.00000 | 0.00000 | NA | 0.00000 | 0.00000 |
| 07/22/93 | S-5 | 200 | 200 | 07/31/90 | 53,000 | 0.08845 | 0.08845 | 14,000 | 0.02336 | 0.02336 | NA | 0.00000 | 0.00000 |
| 10/20/93 | S-5 | 200 | 400 | 07/31/90 | 53,000 | 0.08845 | 0.17690 | 14,000 | 0.02336 | 0.04673 | NA | 0.00000 | 0.00000 |
| 01/25/94 | S-5 | 150 | 550 | 07/31/90 | 53,000 | 0.06634 | 0.24324 | 14,000 | 0.01752 | 0.06425 | NA | 0.00000 | 0.00000 |
| 04/25/94 | S-5 | 36 | 586 | 07/31/90 | 53,000 | 0.01592 | 0.25916 | 14,000 | 0.00421 | 0.06846 | NA | 0.00000 | 0.00000 |
| 05/26/94 | S-5 | 130 | 716 | 07/31/90 | 53,000 | 0.05749 | 0.31665 | 14,000 | 0.01519 | 0.08364 | NA | 0.00000 | 0.00000 |
| 06/16/94 | S-5 | 50 | 766 | 07/31/90 | 53,000 | 0.02211 | 0.33876 | 14,000 | 0.00584 | 0.08948 | NA | 0.00000 | 0.00000 |
| 07/21/94 | S-5 | 50 | 816 | 07/31/90 | 53,000 | 0.02211 | 0.36088 | 14,000 | 0.00584 | 0.09533 | NA | 0.00000 | 0.00000 |
| 08/25/94 | S-5 | 80 | 896 | 07/31/90 | 53,000 | 0.03538 | 0.39626 | 14,000 | 0.00935 | 0.10467 | NA | 0.00000 | 0.00000 |
| 09/22/94 | S-5 | 45 | 941 | 07/31/90 | 53,000 | 0.01990 | 0.41616 | 14,000 | 0.00526 | 0.10993 | NA | 0.00000 | 0.00000 |
| 10/24/94 | S-5 | 40 | 981 | 07/31/90 | 53,000 | 0.01769 | 0.43385 | 14,000 | 0.00467 | 0.11460 | NA | 0.00000 | 0.00000 |
| 11/29/94 | S-5 | 85 | 1,066 | 07/31/90 | 53,000 | 0.03759 | 0.47144 | 14,000 | 0.00993 | 0.12453 | NA | 0.00000 | 0.00000 |
| 12/22/94 | S-5 | 0 | 1,066 | 07/31/90 | 53,000 | 0.00000 | 0.47144 | 14,000 | 0.00000 | 0.12453 | NA | 0.00000 | 0.00000 |
| 01/03/95 | S-5 | 40 | 1,106 | 07/31/90 | 53,000 | 0.01769 | 0.48913 | 14,000 | 0.00467 | 0.12920 | NA | 0.00000 | 0.00000 |
| 02/22/95 | S-5 | 60 | 1,166 | 07/31/90 | 53,000 | 0.02654 | 0.51566 | 14,000 | 0.00701 | 0.13621 | NA | 0.00000 | 0.00000 |
| 03/31/95 | S-5 | 40 | 1,206 | 07/31/90 | 53,000 | 0.01769 | 0.53335 | 14,000 | 0.00467 | 0.14089 | NA | 0.00000 | 0.00000 |
| 04/20/95 | S-5 | 60 | 1,266 | 07/31/90 | 53,000 | 0.02654 | 0.55989 | 14,000 | 0.00701 | 0.14790 | NA | 0.00000 | 0.00000 |
| 05/26/95 | S-5 | 50 | 1,316 | 07/31/90 | 53,000 | 0.02211 | 0.58200 | 14,000 | 0.00584 | 0.15374 | NA | 0.00000 | 0.00000 |
| 06/30/95 | S-5 | 60 | 1,376 | 07/31/90 | 53,000 | 0.02654 | 0.60854 | 14,000 | 0.00701 | 0.16075 | NA | 0.00000 | 0.00000 |
| 10/04/95 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 01/03/96 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 04/11/96 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 07/11/96 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 10/02/96 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 01/22/97 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 07/21/97 | S-5 | 75 | 1,451 | 07/31/90 | 53,000 | 0.03317 | 0.64171 | 14,000 | 0.00876 | 0.16951 | NA | 0.00000 | 0.00000 |
| 10/29/97 | S-5 | 60 | 1,511 | 07/31/90 | 53,000 | 0.02654 | 0.66824 | 14,000 | 0.00701 | 0.17652 | NA | 0.00000 | 0.00000 |
| 01/22/98 | S-5 | 60 | 1,571 | 07/31/90 | 53,000 | 0.02654 | 0.69478 | 14,000 | 0.00701 | 0.18353 | NA | 0.00000 | 0.00000 |

Table 1: Groundwater Extraction - Estimated Mass Removal Data - Former Shell Service Station, Incident #97093399, 461 Eighth Street, Oakland, California

| Date Purged | Well ID | Cumulative | | | TPPH | | | Benzene | | | MTBE | | |
|-------------|---------|---------------------|---------------------|--------------|--------------------------|-----------------------|-------------------------------|-----------------------------|--------------------------|----------------------------------|--------------------------|-----------------------|-------------------------------|
| | | Volume Pumped (gal) | Volume Pumped (gal) | Date Sampled | TPPH Concentration (ppb) | TPPH Removed (pounds) | TPPH Removed To Date (pounds) | Benzene Concentration (ppb) | Benzene Removed (pounds) | Benzene Removed To Date (pounds) | MTBE Concentration (ppb) | MTBE Removed (pounds) | MTBE Removed To Date (pounds) |
| 05/01/98 | S-5 | 50 | 1,621 | 07/31/90 | 53,000 | 0.02211 | 0.71689 | 14,000 | 0.00584 | 0.18937 | NA | 0.00000 | 0.00000 |
| 07/08/98 | S-5 | 100 | 1,721 | 07/31/90 | 53,000 | 0.04423 | 0.76111 | 14,000 | 0.01168 | 0.20105 | NA | 0.00000 | 0.00000 |
| 10/26/98 | S-5 | 100 | 1,821 | 07/31/90 | 53,000 | 0.04423 | 0.80534 | 14,000 | 0.01168 | 0.21273 | NA | 0.00000 | 0.00000 |
| 01/28/99 | S-5 | 100 | 1,921 | 01/28/99 | 51,000 | 0.04256 | 0.84790 | 13,000 | 0.01085 | 0.22358 | 2,400 | 0.00200 | 0.00200 |
| 04/23/99 | S-5 | 100 | 2,021 | 04/23/99 | 65,600 | 0.05474 | 0.90263 | 2,540 | 0.00212 | 0.22570 | <1,000 | 0.00042 | 0.00242 |
| 07/29/99 | S-5 | 0 | 2,021 | 07/29/99 | 61,400 | 0.00000 | 0.90263 | 3,320 | 0.00000 | 0.22570 | <1,000 | 0.00000 | 0.00242 |
| 11/01/99 | S-5 | 100 | 2,121 | 11/01/99 | 48,200 | 0.04022 | 0.94285 | 2,700 | 0.00225 | 0.22795 | <40.0 | 0.00002 | 0.00244 |
| 01/07/00 | S-5 | 100 | 2,221 | 01/07/00 | 39,000 | 0.03254 | 0.97540 | 3,900 | 0.00325 | 0.23121 | 1,500 | 0.00125 | 0.00369 |
| 04/11/00 | S-5 | 100 | 2,321 | 04/11/00 | 29,300 | 0.02445 | 0.99985 | 1,680 | 0.00140 | 0.23261 | <250 | 0.00010 | 0.00379 |
| 07/19/00 | S-5 | 100 | 2,421 | 07/19/00 | 6,420 | 0.00536 | 1.00520 | 2,110 | 0.00176 | 0.23437 | 253 | 0.00021 | 0.00400 |
| 10/12/00 | S-5 | 100 | 2,521 | 10/12/00 | 41,500 | 0.03463 | 1.03983 | 2,940 | 0.00245 | 0.23682 | <66.7 | 0.00003 | 0.00403 |
| 01/09/01 | S-5 | 100 | 2,621 | 01/09/01 | 142,000 | 0.11849 | 1.15832 | 7,030 | 0.00587 | 0.24269 | 779 | 0.00065 | 0.00468 |
| 04/13/01 | S-5 | 100 | 2,721 | 04/13/01 | 59,800 | 0.04990 | 1.20822 | 4,810 | 0.00401 | 0.24670 | <10.0 | 0.00000 | 0.00469 |
| 07/25/01 | S-5 | 50 | 2,771 | 07/25/01 | 71,000 | 0.02962 | 1.23784 | 2,900 | 0.00121 | 0.24791 | <250 | 0.00005 | 0.00474 |
| 08/13/01 | S-5 | 50 | 2,821 | 07/25/01 | 71,000 | 0.02962 | 1.26747 | 2,900 | 0.00121 | 0.24912 | <250 | 0.00005 | 0.00479 |
| 11/01/01 | S-5* | 0 | 2,821 | 07/25/01 | 71,000 | 0.00000 | 1.26747 | 2,900 | 0.00000 | 0.24912 | <250 | 0.00000 | 0.00479 |
| 05/13/93 | S-6 | 0 | 0 | 05/13/93 | 58,000 | 0.00000 | 0.00000 | 21,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 07/22/93 | S-6 | 0 | 0 | 07/22/93 | 70,000 | 0.00000 | 0.00000 | 31,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 10/20/93 | S-6 | 0 | 0 | 10/20/93 | 48,000 | 0.00000 | 0.00000 | 28,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 01/25/94 | S-6 | 0 | 0 | 01/25/94 | 70,000 | 0.00000 | 0.00000 | 23,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 04/25/94 | S-6 | 0 | 0 | 04/25/94 | 61,000 | 0.00000 | 0.00000 | 23,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 05/26/94 | S-6 | NA | 0 | 04/25/94 | 61,000 | 0.00000 | 0.00000 | 23,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 06/16/94 | S-6 | NA | 0 | 04/25/94 | 61,000 | 0.00000 | 0.00000 | 23,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 07/21/94 | S-6 | NA | 0 | 07/21/94 | 44,000 | 0.00000 | 0.00000 | 8,200 | 0.00000 | 0.00000 | NA | NA | NA |
| 08/25/94 | S-6 | NA | 0 | 07/21/94 | 44,000 | 0.00000 | 0.00000 | 8,200 | 0.00000 | 0.00000 | NA | NA | NA |
| 09/22/94 | S-6 | NA | 0 | 07/21/94 | 44,000 | 0.00000 | 0.00000 | 8,200 | 0.00000 | 0.00000 | NA | NA | NA |
| 10/24/94 | S-6 | 0 | 0 | 10/24/94 | 2,936 | 0.00000 | 0.00000 | 1,184 | 0.00000 | 0.00000 | NA | NA | NA |

Table 1: Groundwater Extraction - Estimated Mass Removal Data - Former Shell Service Station, Incident #97093399, 461 Eighth Street, Oakland, California

| Date Purged | Well ID | Cumulative | | | TPPH | | | Benzene | | | MTBE | | |
|----------------|------------|---------------------------|---------------------------|-----------------|--------------------------------|-----------------------------|--|-----------------------------------|--------------------------------|---|--------------------------------|-----------------------------|--|
| | | Volume Pumped (gal) | Volume Pumped (gal) | Date Sampled | TPPH Concentration (ppb) | TPPH Removed (pounds) | TPPH Removed To Date (pounds) | Benzene Concentration (ppb) | Benzene Removed (pounds) | Benzene Removed To Date (pounds) | MTBE Concentration (ppb) | MTBE Removed (pounds) | MTBE Removed To Date (pounds) |
| 11/29/94 | S-6 | NA | 0 | 10/24/94 | 2,936 | 0.00000 | 0.00000 | 1,184 | 0.00000 | 0.00000 | NA | NA | NA |
| 12/22/94 | S-6 | 0 | 0 | 12/22/94 | 32,000 | 0.00000 | 0.00000 | 7,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 01/03/95 | S-6 | NA | 0 | 12/22/94 | 32,000 | 0.00000 | 0.00000 | 7,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 02/22/95 | S-6 | NA | 0 | 12/22/94 | 32,000 | 0.00000 | 0.00000 | 7,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 03/31/95 | S-6 | NA | 0 | 12/22/94 | 32,000 | 0.00000 | 0.00000 | 7,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 04/20/95 | S-6 | 0 | 0 | 04/20/95 | 56,000 | 0.00000 | 0.00000 | 15,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 05/26/95 | S-6 | NA | 0 | 04/20/95 | 56,000 | 0.00000 | 0.00000 | 15,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 06/30/95 | S-6 | NA | 0 | 04/20/95 | 56,000 | 0.00000 | 0.00000 | 15,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 10/04/95 | S-6 | 0 | 0 | 10/04/95 | 49,000 | 0.00000 | 0.00000 | 8,400 | 0.00000 | 0.00000 | NA | NA | NA |
| 01/03/96 | S-6 | 0 | 0 | 01/03/96 | 52,000 | 0.00000 | 0.00000 | 9,100 | 0.00000 | 0.00000 | NA | NA | NA |
| 04/11/96 | S-6 | 0 | 0 | 04/11/96 | 59,000 | 0.00000 | 0.00000 | 11,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 07/11/96 | S-6 | 0 | 0 | 07/11/96 | 72,000 | 0.00000 | 0.00000 | 18,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 10/02/96 | S-6 | 0 | 0 | 10/02/96 | 57,000 | 0.00000 | 0.00000 | 11,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 01/22/97 | S-6 | 0 | 0 | 01/22/97 | 67,000 | 0.00000 | 0.00000 | 15,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 07/21/97 | S-6 | 0 | 0 | 07/21/97 | 61,000 | 0.00000 | 0.00000 | 15,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 10/29/97 | S-6 | 40 | 40 | 07/21/97 | 61,000 | 0.02036 | 0.02036 | 15,000 | 0.00501 | 0.00501 | NA | NA | NA |
| 01/22/98 | S-6 | 60 | 100 | 01/22/98 | 46,000 | 0.02303 | 0.04339 | 14,000 | 0.00701 | 0.01202 | NA | NA | NA |
| 05/01/98 | S-6 | 200 | 300 | 01/22/98 | 46,000 | 0.07677 | 0.12016 | 14,000 | 0.02336 | 0.03538 | NA | NA | NA |
| 07/08/98 | S-6 | 150 | 450 | 07/08/98 | 74,000 | 0.09262 | 0.21278 | 26,000 | 0.03254 | 0.06792 | NA | NA | NA |
| 10/26/98 | S-6 | 100 | 550 | 07/08/98 | 74,000 | 0.06175 | 0.27453 | 26,000 | 0.02170 | 0.08962 | NA | NA | NA |
| 01/28/99 | S-6 | 150 | 700 | 01/28/99 | 120,000 | 0.15020 | 0.42473 | 9,000 | 0.01126 | 0.10088 | 3,700 | 0.00463 | 0.00463 |
| 04/23/99 | S-6 | 150 | 850 | 04/23/99 | 58,500 | 0.07322 | 0.49795 | 15,900 | 0.01990 | 0.12078 | <2,500 | 0.00156 | 0.00620 |
| 07/29/99 | S-6 | 0 | 850 | 07/29/99 | 36,200 | 0.00000 | 0.49795 | 10,300 | 0.00000 | 0.12078 | <1,000 | 0.00000 | 0.00620 |
| 11/01/99 | S-6 | 150 | 1,000 | 11/01/99 | 36,000 | 0.04506 | 0.54301 | 11,700 | 0.01464 | 0.13543 | <40.0 | 0.00003 | 0.00622 |
| 01/07/00 | S-6 | 0 | 1,000 | 01/07/00 | 36,000 | 0.00000 | 0.54301 | 7,600 | 0.00000 | 0.13543 | <1,000 | 0.00000 | 0.00622 |
| 04/11/00 | S-6 | 150 | 1,150 | 04/11/00 | 14,600 | 0.01827 | 0.56128 | 7,540 | 0.00944 | 0.14487 | 621 | 0.00078 | 0.00700 |
| 07/19/00 | S-6 | 150 | 1,300 | 07/19/00 | 2,590 | 0.00324 | 0.56452 | 629 | 0.00079 | 0.14565 | 72.7 | 0.00009 | 0.00709 |
| 10/28/00 | S-6 | 45 | 1,345 | 10/12/00 | 32,900 | 0.01235 | 0.57688 | 14,200 | 0.00533 | 0.15099 | <100 | 0.00002 | 0.00711 |

Table 1: Groundwater Extraction - Estimated Mass Removal Data - Former Shell Service Station, Incident #97093399, 461 Eighth Street, Oakland, California

| Date Purged | Well ID | Cumulative | | | TPPH | | | Benzene | | | MTBE | | | |
|---------------------------------|---------|------------------------|------------------------|--------------|-------------------------------|--------------------------|----------------------------------|--------------------------------|------------------------------|-----------------------------|-----------------------------|--------------------------|--------------------------|----------------|
| | | Volume Pumped (gal) | Volume Pumped (gal) | Date Sampled | TPPH Concentration (ppb) | TPPH Removed (pounds) | TPPH Removed To Date (pounds) | Benzene Concentration (ppb) | Benzene Removed (pounds) | Benzene To Date (pounds) | MTBE Concentration (ppb) | MTBE Removed (pounds) | MTBE To Date (pounds) | |
| 02/05/01 | S-6 | 150 | 1,495 | 01/09/01 | 27,600 | 0.03455 | 0.61142 | 11,200 | 0.01402 | 0.16500 | 1,430 | 0.00179 | 0.00890 | |
| 04/06/01 | S-6 | 150 | 1,645 | 04/06/01 | 16,900 | 0.02115 | 0.63258 | 7,800 | 0.00976 | 0.17477 | <20 | 0.00001 | 0.00891 | |
| 07/25/01 | S-6 | 150 | 1,795 | 07/25/01 | 29,000 | 0.03630 | 0.66888 | 9,800 | 0.01227 | 0.18703 | <250 | 0.00016 | 0.00907 | |
| 11/01/01 | S-6 | 150 | 1,945 | 11/01/01 | 41,000 | 0.05132 | 0.72019 | 15,000 | 0.01877 | 0.20581 | <500 | 0.00031 | 0.00938 | |
| Total Gallons Extracted: | | | 4,766 | | Total Pounds Removed: | | | 1,987.66 | Total Pounds Removed: | | | 0.45493 | | |
| | | | | | Total Gallons Removed: | | | 0.32585 | | | | 0.06232 | | |
| | | | | | | | | | | | | | 0.01417 | 0.00229 |

Abbreviations and Notes:

TPPH = Total purgeable hydrocarbons as gasoline

MtBE = Methyl tert-butyl ether

ppb = Parts per billion

gal = Gallon

NA = Not available/not analyzed

Mass removed based on the formula: volume extracted (gal) x Concentration ($\mu\text{g}/\text{L}$) x ($\text{g}/10^6\mu\text{g}$) x (pound/453.6g) x (3.785 L/gal)

Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)

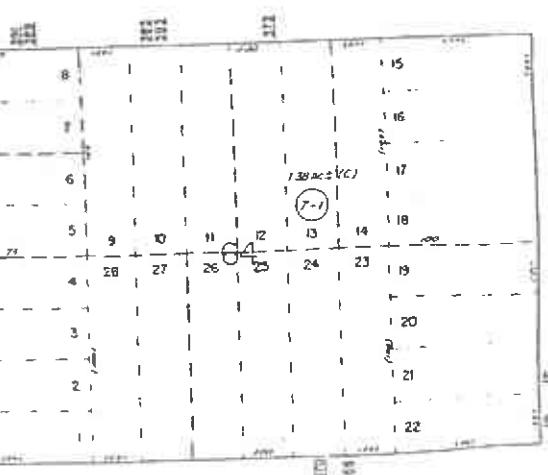
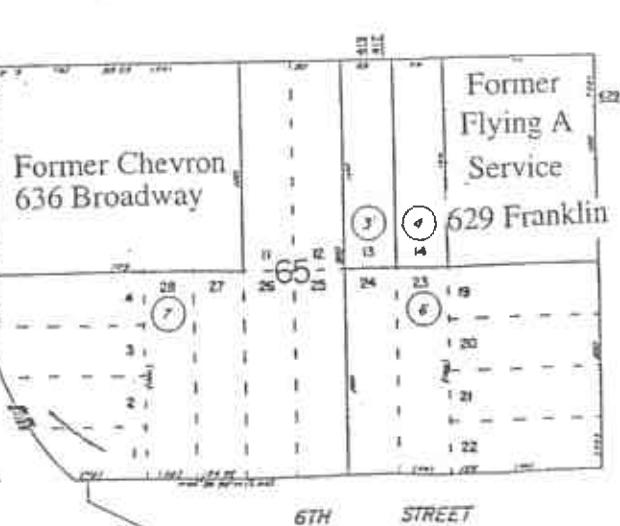
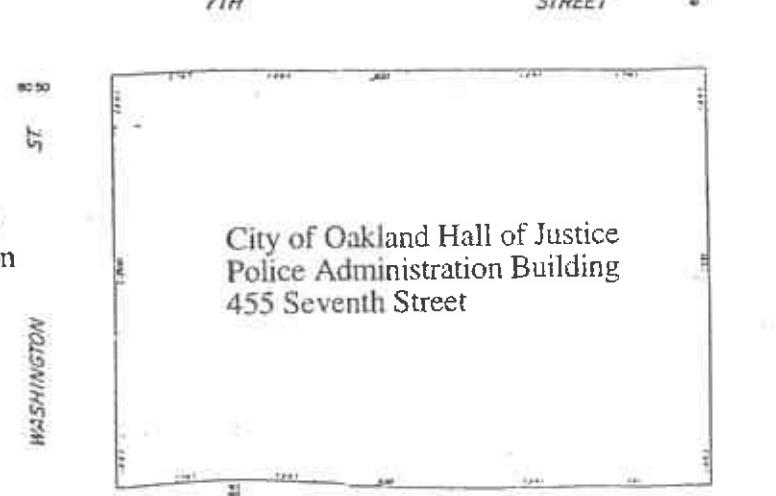
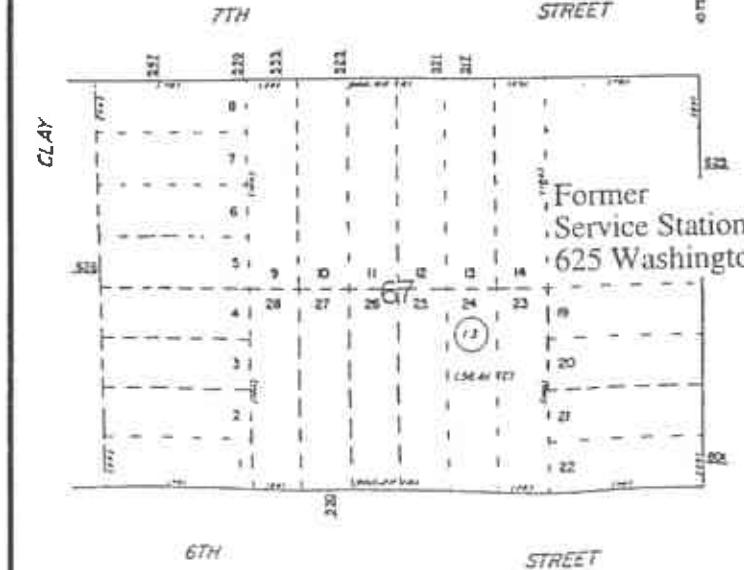
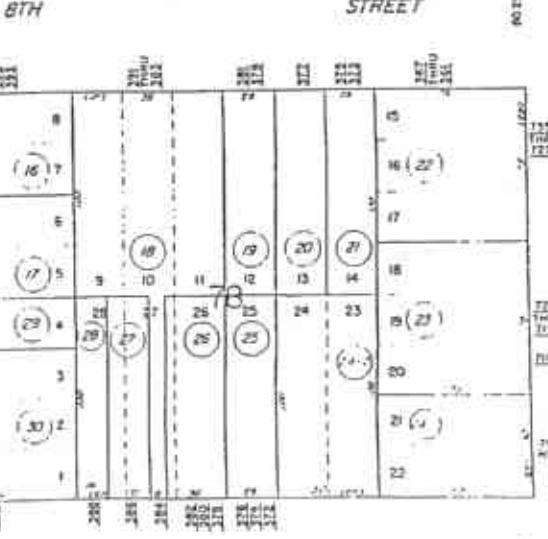
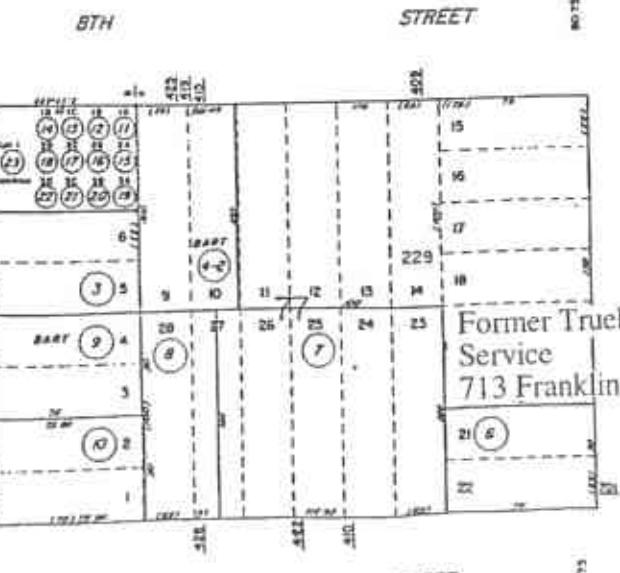
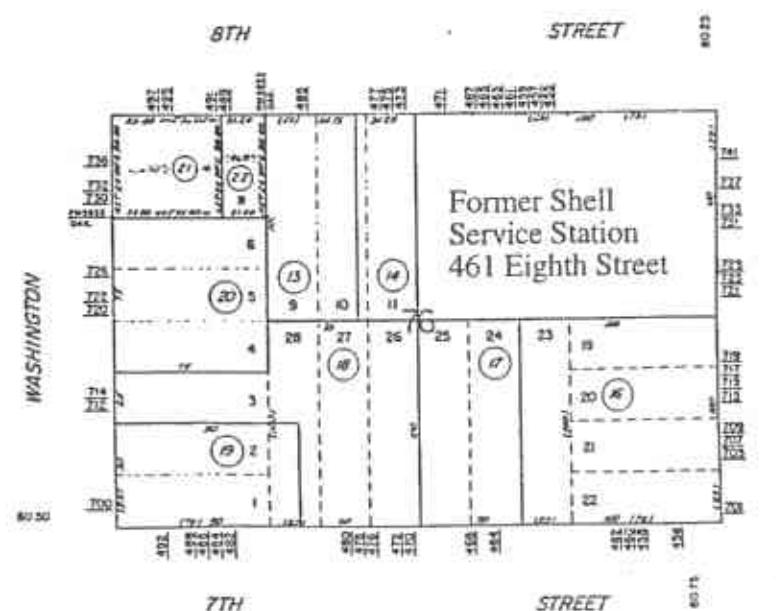
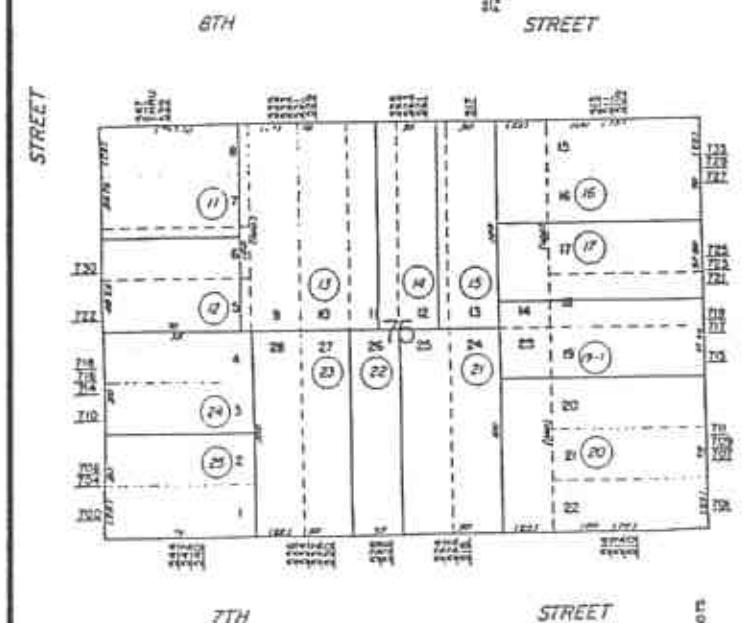
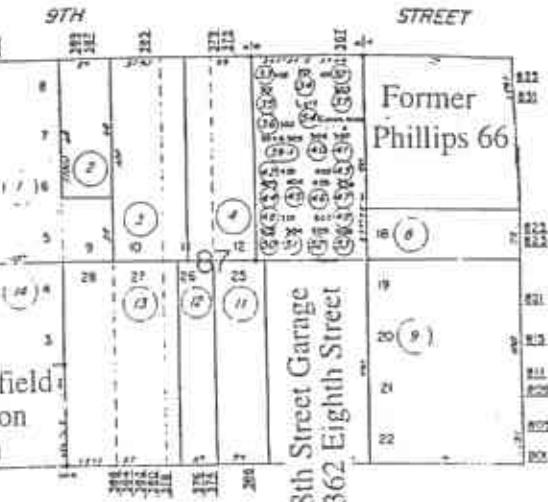
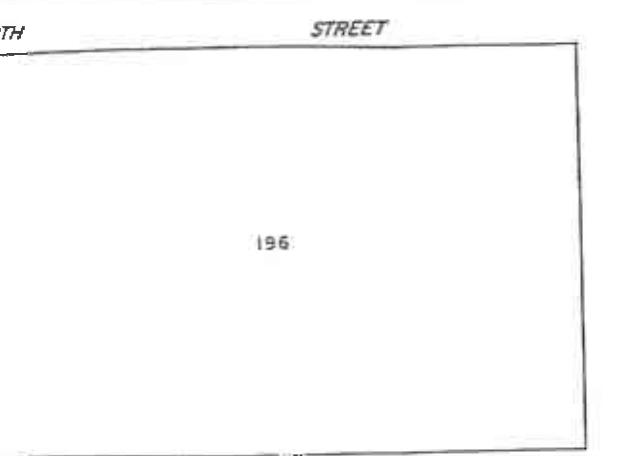
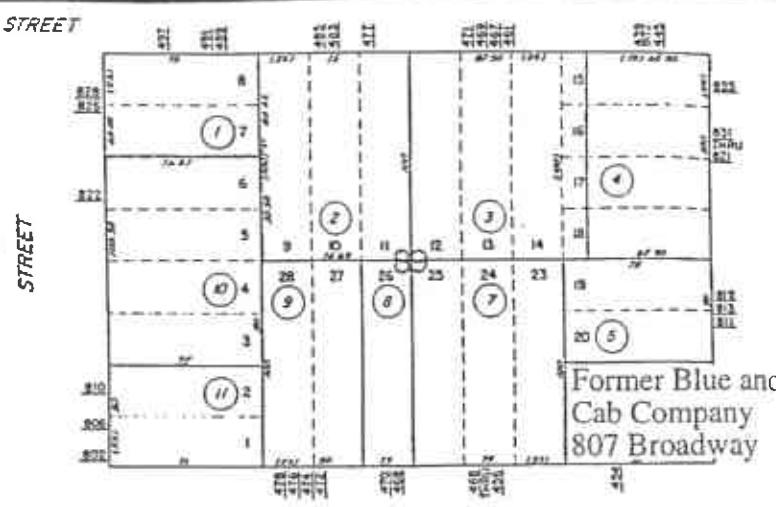
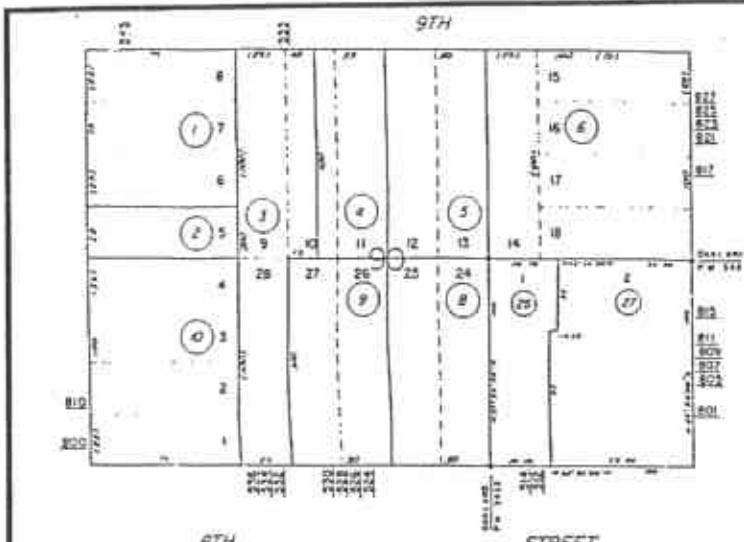
TPPH, benzene analyzed by EPA Method 8015/8020

MTBE analyzed by EPA Method 8260 in bold font, all other MTBE analyzed by EPA Method 8020

Purging performed by Blaine Technologies of San Jose, California

If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.

* = Well inaccessible



NIMITZ

FREWAY(R-7)

Approximate UST Location
Oakland Police Motorpool

PLATE
1

POTENTIAL OFF-SITE SOURCE AREAS
Former Shell Service Station
461 8th Street
Oakland, California

Drawn by: MED

Date: 5-Aug-96

Approved By: *[Signature]*

Date: 8-12-96

enviros[®]
96216



BAY AREA RAPID TRANSIT DISTRICT
800 Madison Street
Oakland, California 94607
Telephone (415) 465-4100

November 25, 1981

JOHN GLENN
PRESIDENT
ROBERT S. ALLEN
VICE PRESIDENT
KEITH BERNARD
GENERAL MANAGER

Mr. Raymond G. Newsome, District Engineer
Shell Oil Company
2401 Crow Canyon Road
P.O. Box 250
San Ramon, California 94583

Subject: BART KE Track - Gas Leak
7th & Broadway, Oakland

Dear Mr. Newsome:

DIRECTORS

BARCLAY SIMPSON
1ST DISTRICT

NELLO BIANCO
2ND DISTRICT

ARTHUR J. SHARTSIS
3RD DISTRICT

MARGARET K. PRYOR
4TH DISTRICT

ROBERT S. ALLEN
5TH DISTRICT

JOHN GLENN
6TH DISTRICT

WILFRED T. USSERY
7TH DISTRICT

EUGENE GARFINKLE
8TH DISTRICT

JOHN H. KIRKWOOD
9TH DISTRICT

This letter is to advise you that the first phase of the KE Track construction is now completed and we would very much like to put this new facility into service on December 15, 1981. It is important we meet this target date as this new facility will greatly enhance our revenue operation capabilities.

As you are aware, we have had serious gas intrusion problems in our subway at Engineering Station 915 + 64 since January, 1979. Your company took action to eliminate this problem by drilling seven test holes during the period of August 25, 1981 to September 10, 1981. During this period, the gas intrusion subsided. With the recent rains, however, gas intrusion has once again been noted in the vicinity of Engineering Station 915 + 64.

We have now reached a point in time where this condition will hamper our revenue operation due to the safety factor involved. I was under the impression the reason test holes were drilled was to give you a location where the gas could be pumped up from the water table eliminating the problem.

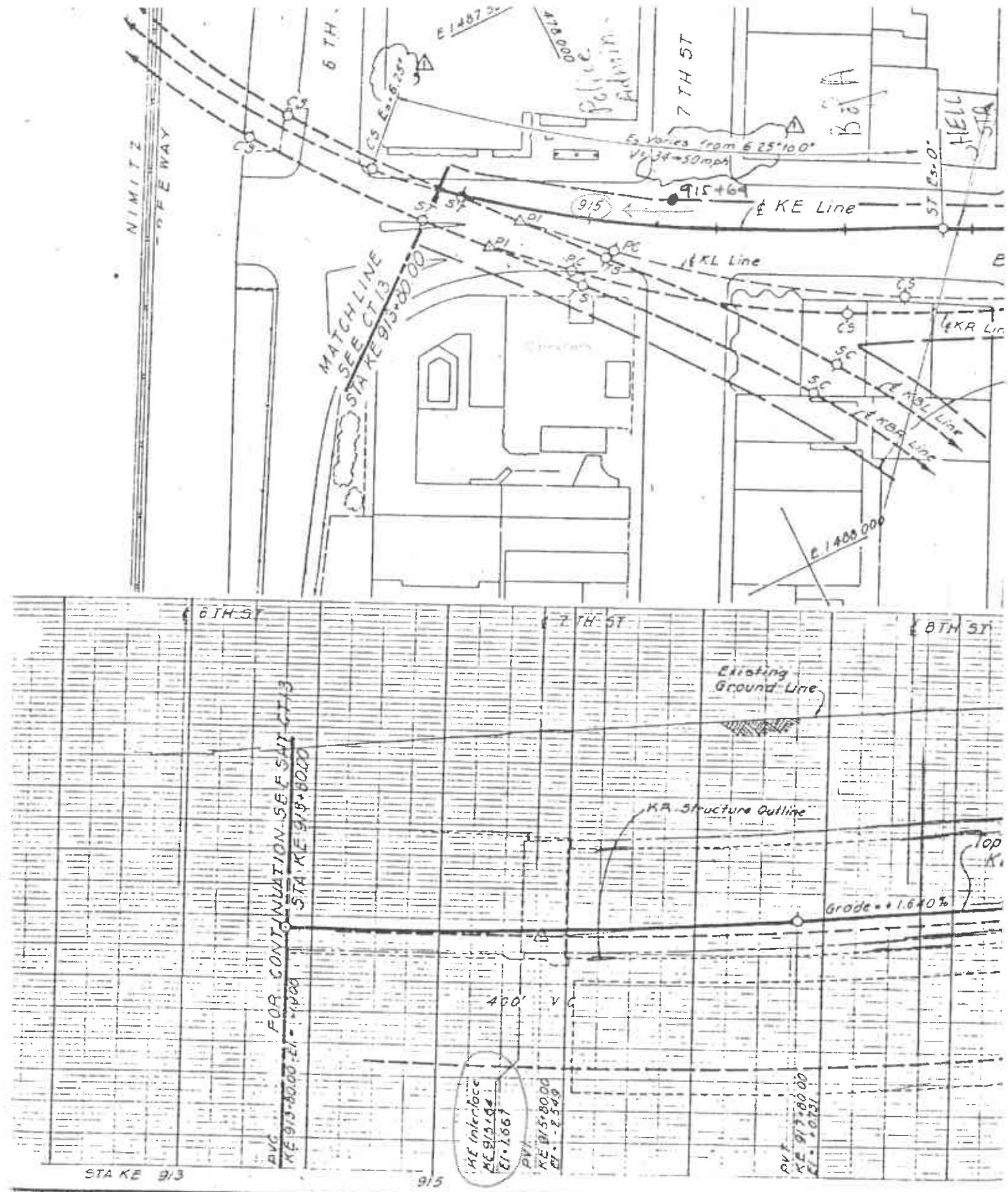
I appreciate the cooperation you have given us in the past and I am certain you will handle the problems we are now confronted with in the same manner.

If you have any questions regarding this matter, please feel free to contact me.

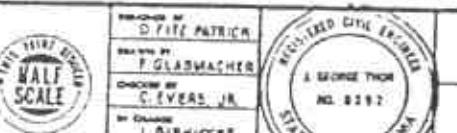
Very truly yours,

V. P. Mahon

V. P. Mahon, Department Manager
Power & Way Maintenance



After Superatev Added "V" & "U" Value:



SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT
ENTEL CORPORATION PARSONS BRINCKERHOFF, TUDOR, BECHER,
THOMAS
SAN FRANCISCO GENERAL ENGINEERING CONSULTANTS

OAKLAND DOWNTOWN
E LINE PLAN & PROFILE
KE 913+80 TO 927+39

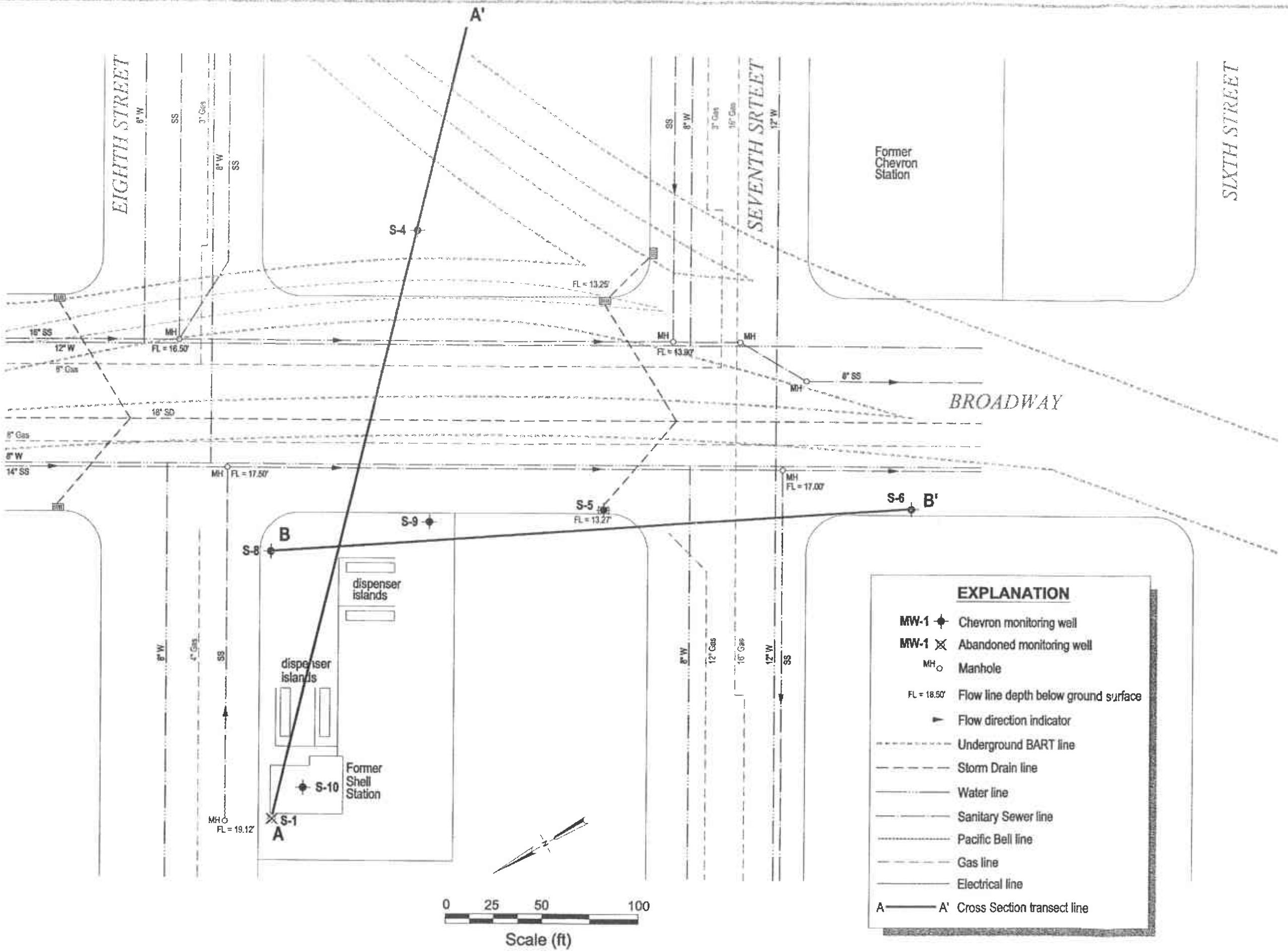
LINE HORIZ: 1° = 50'
VERT 1° = 10'
CONTINUOUS - INCLINOMETER
K0061-K006
SHEET NO. - 87 | PAGE - 1
CTI4-1 | 27

**Underground Utility Locations and
Underground BART Lines**



C A M B R I A

FIGURE 2
Former Shell-branded Station
461 Eighth Street
Oakland, California

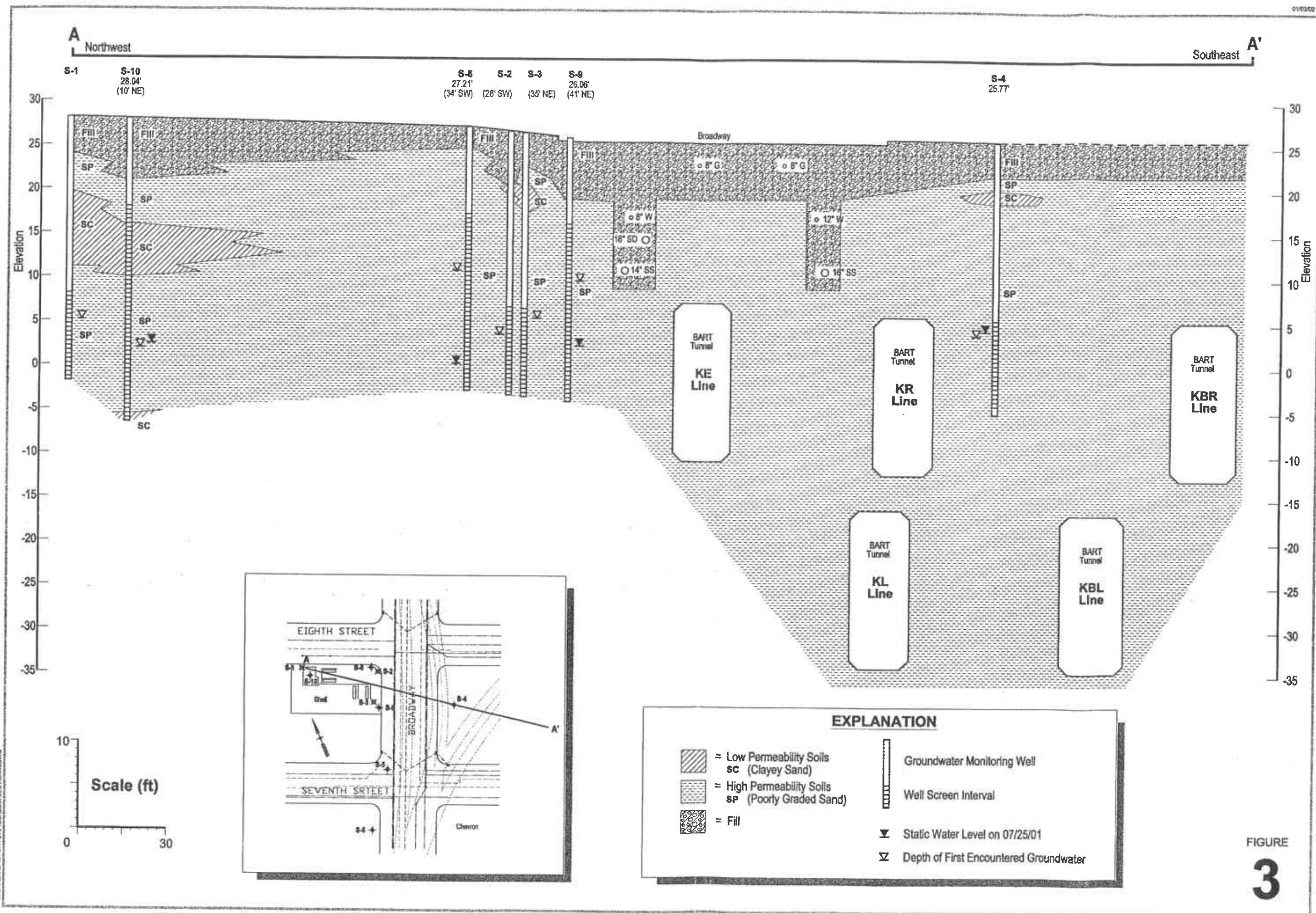


Geologic Cross Section A-A'

C
CAMBRIA

Former Shell Service Station
461 Eighth Street
Oakland, California

**FIGURE
3**



Geologic Cross Section B-B'



Former Shell Service Station
461 Eighth Street
Oakland, California

FIGURE
4

