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April 20, 2005

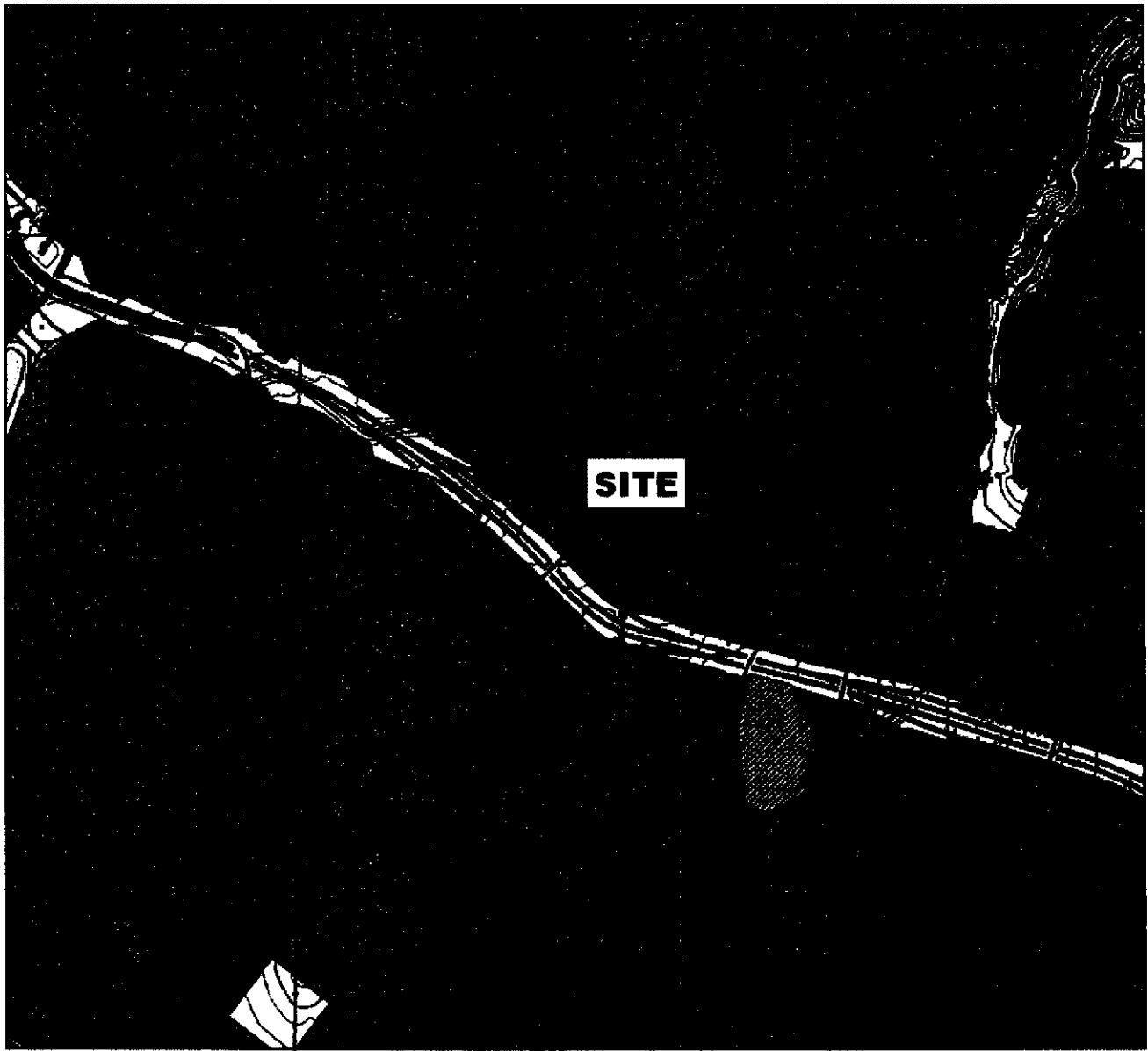
Subject:  
3635 13th Avenue  
Oakland, California  
Former John's Mobile  
Fuel Leak Case No. RO0000159

~~SECRET~~

1- SOURCE AREA  
2- Chemical contamination

Attachments:  
Figures  
Tables  
Well / Boring Logs

Hydroponics



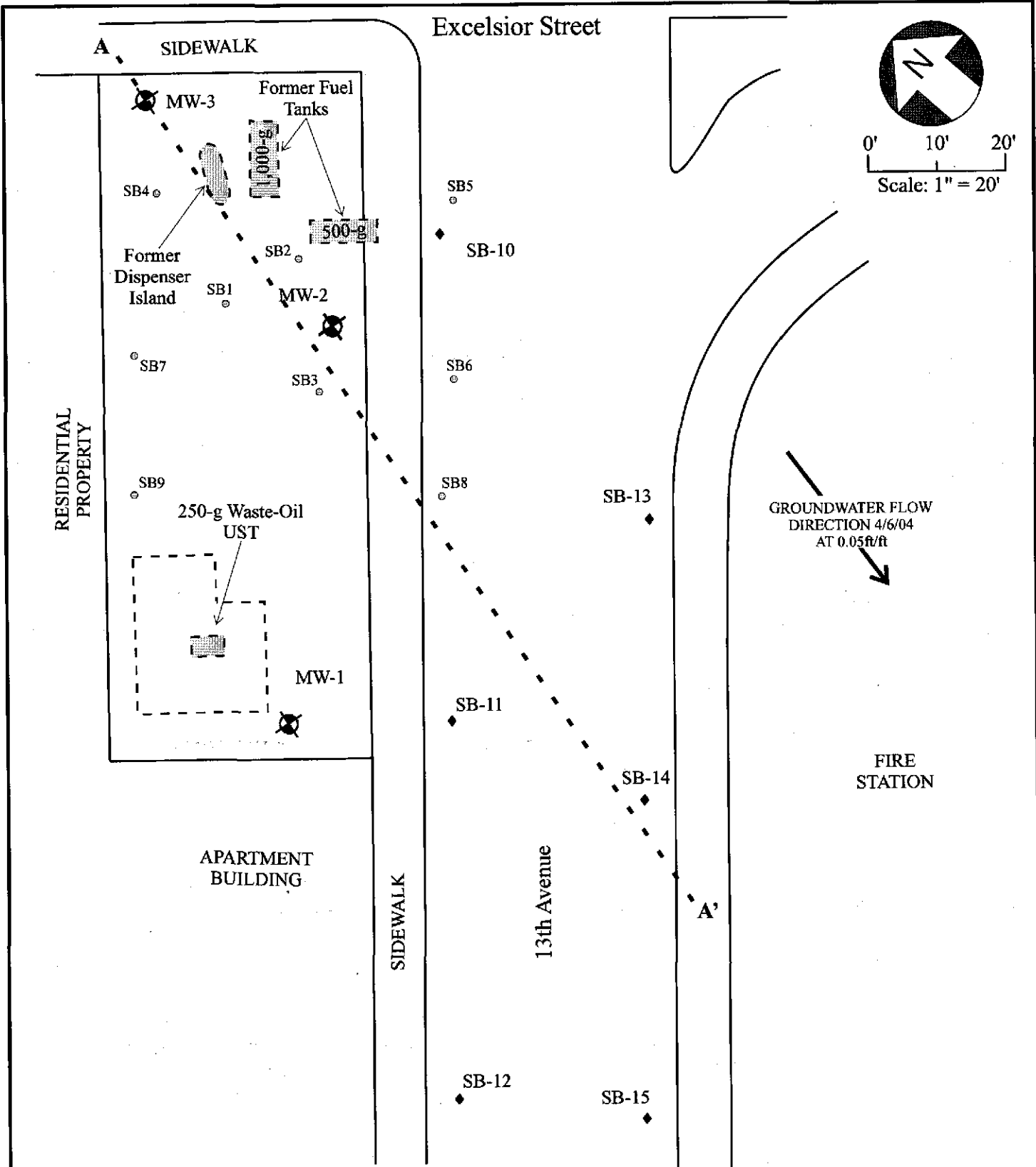
0 1000 FEET 0 500 1000 METERS  
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**AEI CONSULTANTS**

**SITE LOCATION MAP**

3635 13<sup>th</sup> AVENUE  
OAKLAND, CALIFORNIA

**FIGURE 1**  
PROJECT NO. 8499



**AEI CONSULTANTS**  
 2500 CAMINO DIABLO, # 200 WALNUT CREEK, CA

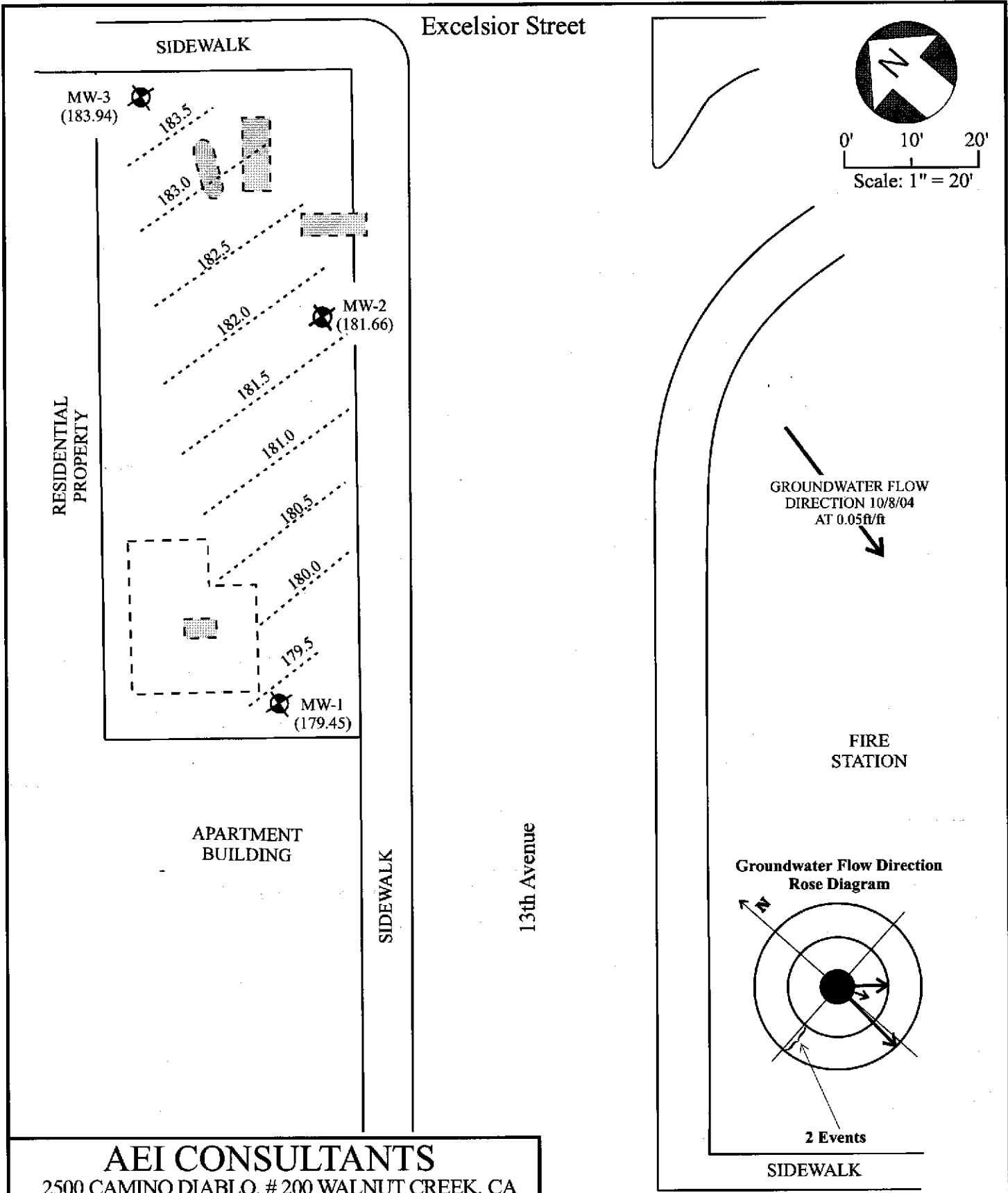
**SITE PLAN**

3635 13th Avenue  
 Oakland, California

**FIGURE 2**  
 AEI Project # 8499

**LEGEND (REV. 6/04)**

- ◆ Monitoring Well
- Soil Boring 11/97 & 1/98
- ◆ Soil Boring 8/21 & 10/9-10 2003



**AEI CONSULTANTS**  
 2500 CAMINO DIABLO, # 200 WALNUT CREEK, CA

**WATER TABLE CONTOURS 10/8/04**

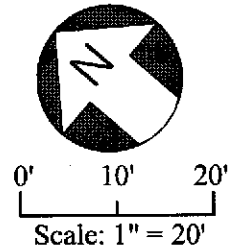
3635 13th Avenue  
 Oakland, California

**FIGURE 3**  
 AEI Project # 8499

| LEGEND |   | (REV. 10/04) |
|--------|---|--------------|
|        | Monitoring Well, with water table elevation in ft above msl (10/8/04) |              |
|        | Water table contours in ft above msl<br>Interval = 0.5 ft             |              |

Excelsior Street

SIDEWALK



MW-3  
 TPH-g - 450  
 TPH-d - 76  
 B - 21

SB4



SB2

SB-1  
 TPH-g - 63,000  
 TPH-d - 27,000  
 B - 2,600

MW-2  
 TPH-g - 6,900  
 TPH-d - 890  
 B - 1,500

SB-5  
 TPH-g - 12,000  
 TPH-d - 28,000  
 B - 200

SB-10  
 TPH-g - 3500  
 TPH-d - 1400  
 B - 110

SB-6  
 TPH-g - 2,200  
 TPH-d - na  
 B - 330

SB-7  
 TPH-g - 36,000  
 TPH-d - 200,000  
 B - 2,200

SB-3  
 TPH-g - 11,000  
 TPH-d - 790  
 B - 1,700

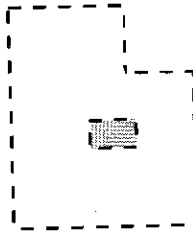
SB-8  
 TPH-g - 6,200  
 TPH-d - 1,200  
 B - 430

SB-13  
 TPH-g - 270  
 TPH-d - 1200  
 B - <0.5

GROUNDWATER FLOW  
 DIRECTION 4/6/04  
 AT 0.05ft/r

RESIDENTIAL PROPERTY

SB-9  
 TPH-g - 160  
 TPH-d - 210  
 B - 6.2



MW-1  
 TPH-g - 260  
 TPH-d - 120  
 B - 3.0

SB-11  
 TPH-g - 3800  
 TPH-d - 2400  
 B - 140

SB-14

SIDEWALK

APARTMENT BUILDING

FIRE STATION

SB-12  
 TPH-g - 680  
 TPH-d - 420  
 B - <0.5

SB-15  
 TPH-g - 1600  
 TPH-d - 1900  
 B - <0.5

SIDEWALK

# AEI CONSULTANTS

2500 CAMINO DIABLO, # 200 WALNUT CREEK, CA

## GROUNDWATER SAMPLE ANALYTICAL DATA

3635 13th Avenue  
Oakland, California

FIGURE 4  
AEI Project # 8499

### LEGEND

(REV. 4/05)

◆ Monitoring Well (data from 10/8/04 event)

Boring data from 8/97, 1/98, 8/03, & 10/03  
All data in µg/l See Tables 1 & 3 for details

Excelsior Street

SIDEWALK



0' 10' 20'  
Scale: 1" = 20'

RESIDENTIAL  
PROPERTY

SB-4  
10' - <1 / <1 / <0.005

SB-2  
10' - 1.3 / <1 / 0.061

SB-1  
10' - 8.2 / 15 / 0.17

SB-7  
15' - 7.9 / 2.3 / <0.005

SB-3  
5' - 1.6 / - / 0.048  
10' - 590 / 160 / 8.6  
15' - 1000 / - / 8.3  
20' - <1 / - / 0.006  
25' - <1 / - / <0.005

SB-9  
10' - <1 / <1 / <0.005

MW-1  
TPH-g - 260  
TPH-d - 120  
B - 3.0

APARTMENT  
BUILDING

SIDEWALK

SB-5  
15' - 2.0 / 4.9 / 0.08

SB-10  
12' - 100 / 38 / 0.39  
19' - 66 / 6.3 / <0.005

SB-6  
15' - 2.2 / <1 / 0.058

SB-8  
10' - 33 / 11 / 0.25

SB-11  
8' - 1.8 / 1.1 / 0.10  
12' - 1.3 / 2.1 / 0.05

SB-14  
16' - 74 / 98 / <0.050  
23' - <1 / <1 / <0.005

SB-12  
8' - <1 / <1 / <0.005  
12' - <1 / <1 / <0.005

SB-15  
15' - 660 / 100 / <0.20  
19' - <1 / <1 / <0.005

SB-13  
20' - <1 / <1 / <0.005

GROUNDWATER FLOW  
DIRECTION 4/6/04  
AT 0.05ft/ft

FIRE  
STATION

SIDEWALK

**AEI CONSULTANTS**

2500 CAMINO DIABLO, # 200 WALNUT CREEK, CA

**SOIL SAMPLE  
ANALYTICAL DATA**

3635 13th Avenue  
Oakland, California

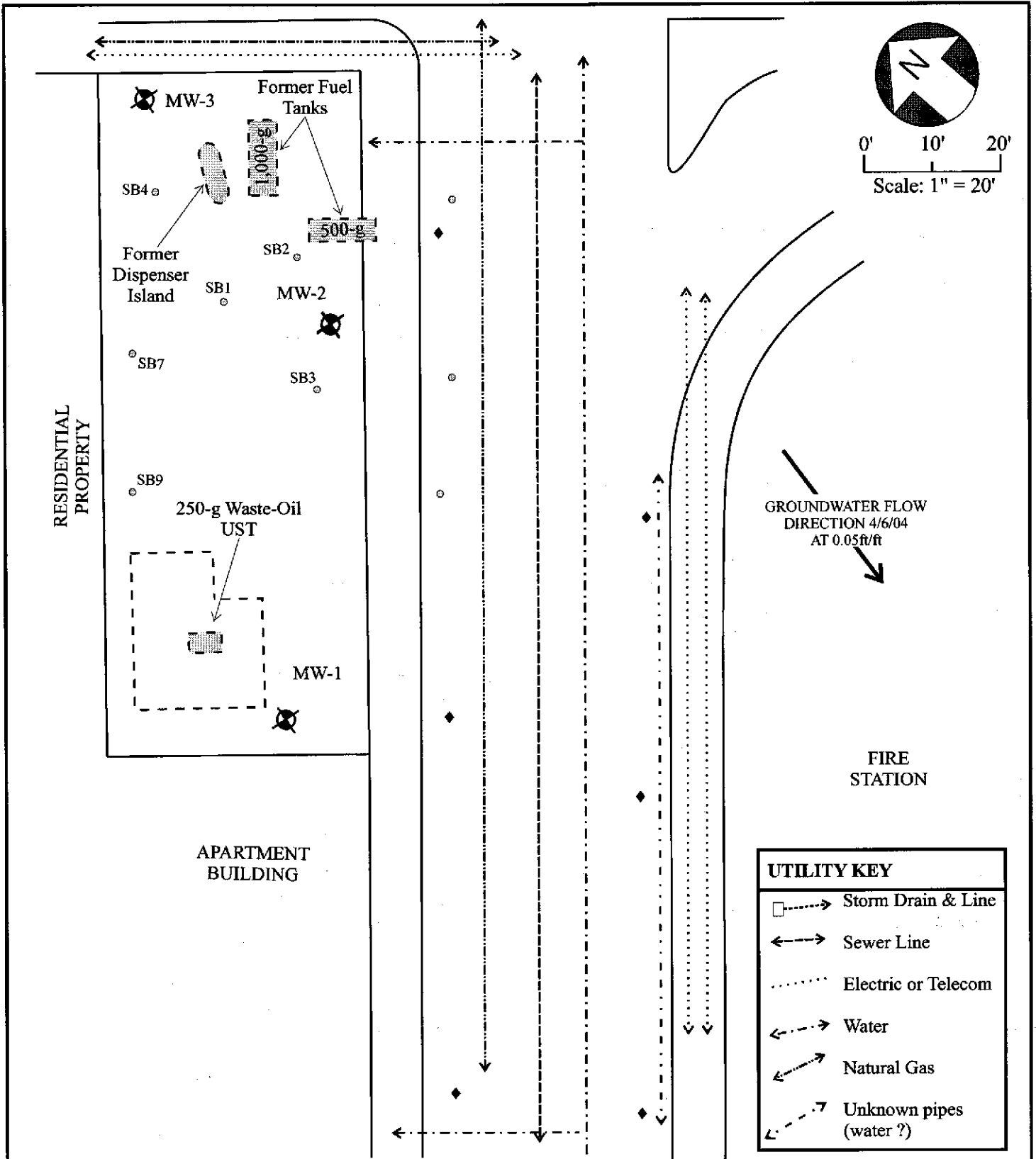
**FIGURE 5**  
AEI Project # 8499

LEGEND

(REV. 4/05)

Data presented as: TPH-g / TPH-d / Benzene

All in mg/kg. Refer to Table 4 for details



**AEI CONSULTANTS**  
 2500 CAMINO DIABLO, # 200 WALNUT CREEK, CA

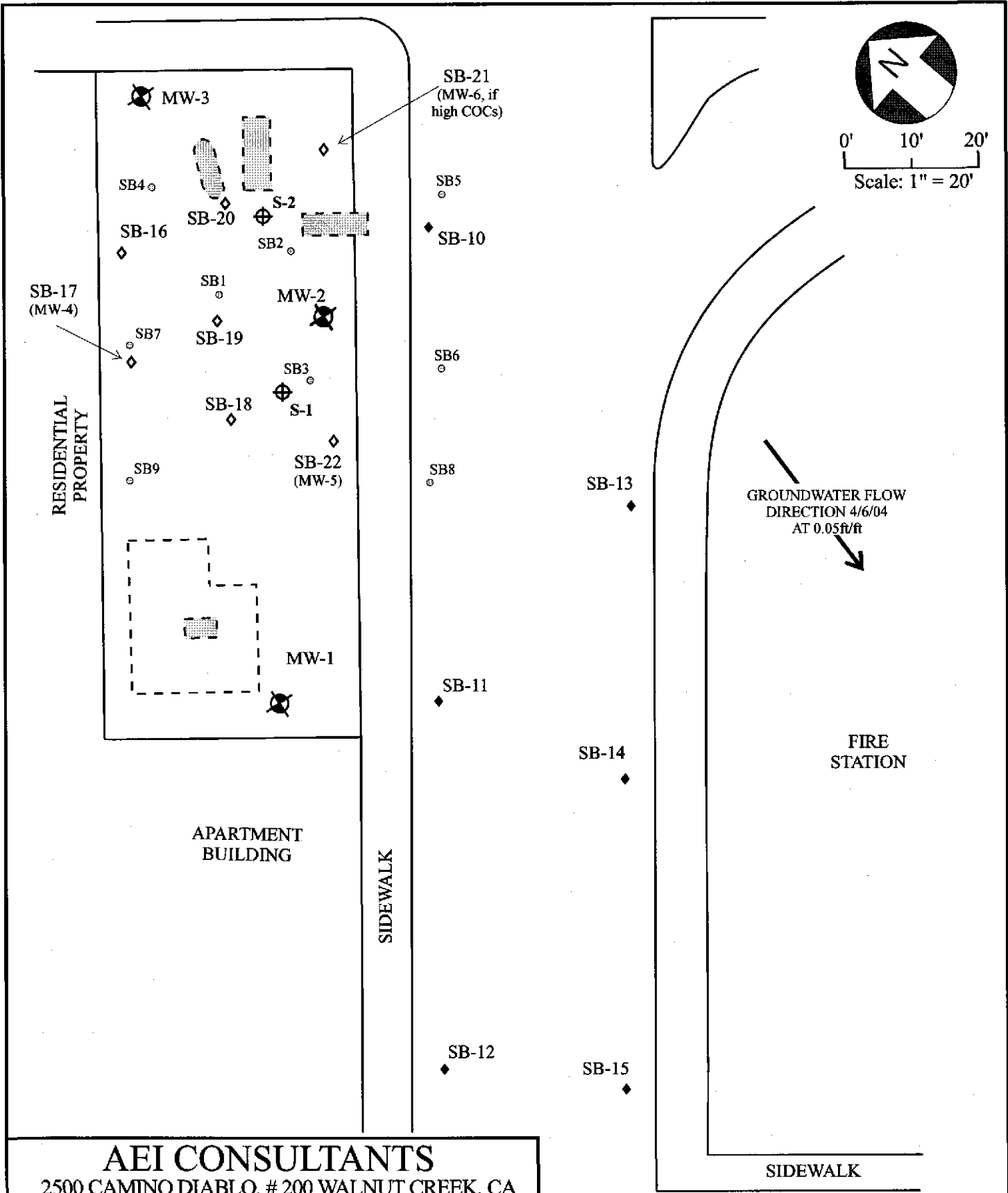
**UTILITY MAP**

3635 13th Avenue  
 Oakland, California

**FIGURE 6**  
 AEI Project # 8499

| UTILITY KEY |                        |
|-------------|------------------------|
|             | Storm Drain & Line     |
|             | Sewer Line             |
|             | Electric or Telecom    |
|             | Water                  |
|             | Natural Gas            |
|             | Unknown pipes (water?) |

| LEGEND |                                 | (REV. 6/04) |
|--------|---------------------------------|-------------|
|        | Monitoring Well                 |             |
|        | Soil Boring 11/97 & 1/98        |             |
|        | Soil Boring 8/21 & 10/9-10 2003 |             |



**AEI CONSULTANTS**  
 2500 CAMINO DIABLO, # 200 WALNUT CREEK, CA

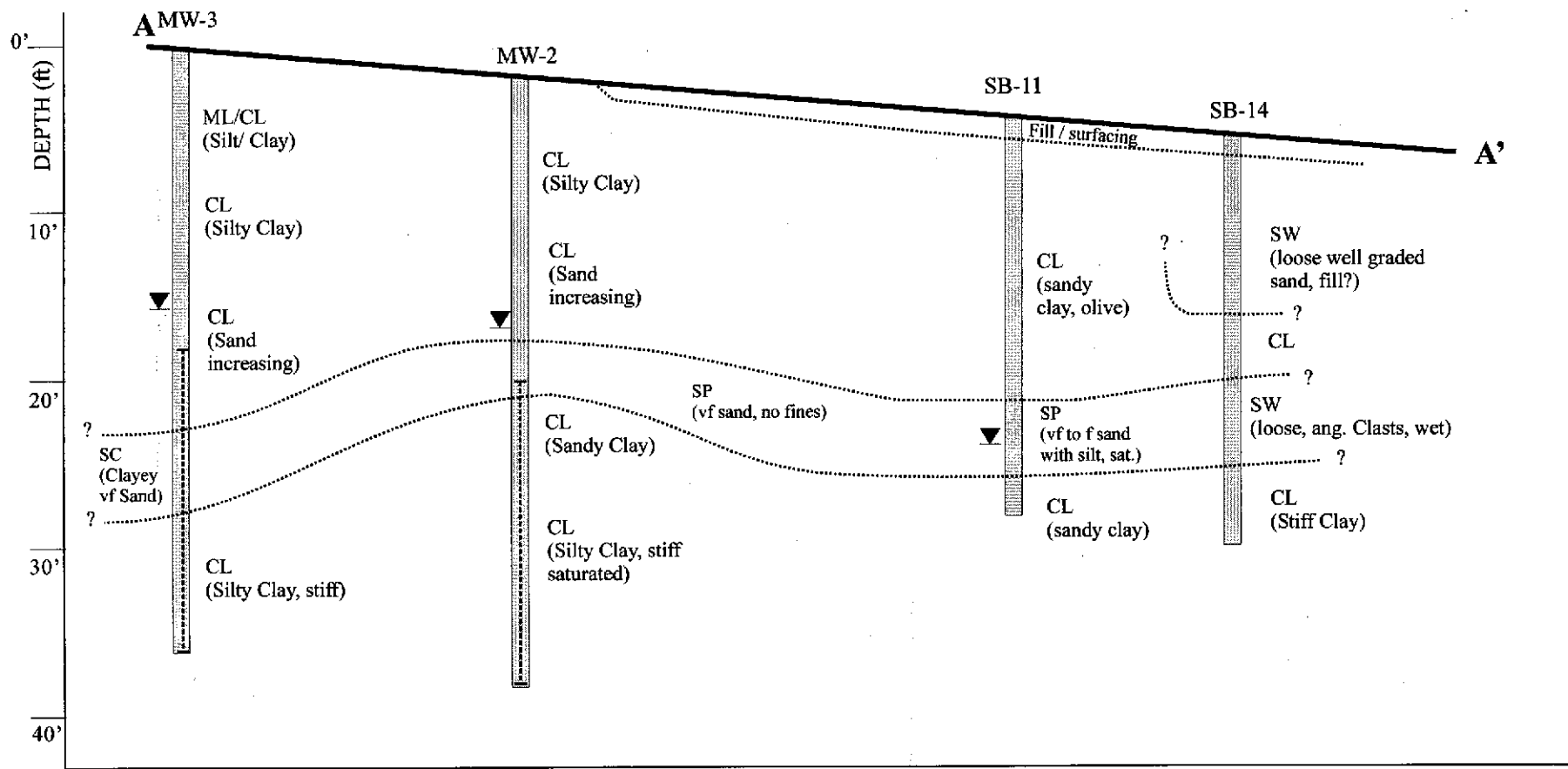
**PROPOSED BORING AND WELL LOCATIONS**

3635 13th Avenue  
 Oakland, California

**FIGURE 7**  
 AEI Project # 8499

| LEGEND |                  | (REV. 6/04) |                                   |
|--------|------------------|-------------|-----------------------------------|
| ⊕      | Monitoring Well  | ◇           | Proposed Boring / monitoring well |
| ⊕ & ◇  | Previous Borings | ⊕           | Tentative sparge well             |





- WELL SCREEN INTERVAL
- APPROXIMATE SOIL TYPE BOUNDARY
- WATER LEVEL MEASURED (most recent)

VERTICAL SCALE: 1 in = ~ 10 ft  
 HORIZONTAL SCALE: 1 in = ~ 20 ft

- Soil Types
- SP - Poorly graded sand
  - SW - Well graded sand
  - SM - Silty sand
  - SC - Clayey sand
  - SG - Gravelly sand
  - CL - Clay, silty clay, sandy clay

April '05 (draft)

|   |  |
|---|--|
| <b>AEI CONSULTANTS</b><br>2500 CAMINO DIABLO, # 200, WALNUT CREEK, CA |  |
| <b>CROSS SECTION A-A'</b>   |  |
| 3635 13th Avenue<br>Oakland, California                               | <b>FIGURE 8</b><br>AEI PROJECT NO 8499 |

**Table 1**  
**Groundwater Monitoring Data**

| Well ID              | Date               | Well Elevation | Depth to Water | Water Table Elevation | TPH-g               | TPH-d  | TOG                | MTBE   | Benzene | Toluene | E-benzene | Xylenes                   |
|----------------------|--------------------|----------------|----------------|-----------------------|---------------------|--------|--------------------|--------|---------|---------|-----------|---------------------------|
|                      |                    |                |                |                       | (µg/l)<br>EPA 8015M | (µg/l) | (mg/l)<br>EPA 5520 | (µg/l) | (µg/l)  | (µg/l)  | (µg/l)    | (µg/l)<br>EPA 8020 / 8021 |
| MW - 1<br>23.5' / 2" | 11/22/1994         | 194.75         | 10.92          | 183.83                | 210                 | <50    | <0.5               | -      | <0.5    | <0.5    | <0.5      | 2.3                       |
|                      | 2/23/1995          | 194.75         | 10.58          | 184.17                | 140                 | <50    | 1.2                | -      | <0.5    | <0.5    | 0.6       | 1.5                       |
|                      | 5/24/1995          | 194.75         | 10.94          | 183.81                | <50                 | <50    | <0.5               | -      | <0.5    | <0.5    | <0.5      | <0.5                      |
|                      | 8/18/1995          | 194.75         | 14.52          | 180.23                | 2800                | <50    | <0.5               | -      | 25      | 6.2     | 22        | 30                        |
|                      | 2/7/1996           | 194.75         | 4.43           | 190.32                | <50                 | <50    | <0.5               | -      | <0.5    | <0.5    | <0.5      | <0.5                      |
|                      | 9/6/1996           | 194.75         | 13.60          | 181.15                | <50                 | <50    | <5.0               | <5.0   | <0.5    | <0.5    | <0.5      | <0.5                      |
|                      | 6/19/1997          | 194.75         | 13.07          | 181.68                | 630                 | 400    | <5.0               | 15     | 25      | 9.7     | 100       | 14                        |
|                      | 1/24/2002          | 194.75         | 9.53           | 185.22                | 60                  | <50    | -                  | <5.0   | 3.3     | 2.8     | 2.0       | 6.0                       |
|                      | 7/15/2003          | 194.75         | 12.85          | 181.90                | 87                  | <50    | -                  | <5.0   | 15      | 4.9     | 3.3       | 9.2                       |
|                      | 10/10/2003         | 194.75         | 14.58          | 180.17                | 81                  | 110    | -                  | <5.0   | <0.5    | 0.62    | 0.57      | 0.5                       |
|                      | 4/6/2004           | 194.75         | 10.92          | 183.83                | <50                 | <50    | -                  | <5.0   | <0.5    | <0.5    | <0.5      | <0.5                      |
|                      | 7/9/2004           | 194.75         | 14.34          | 180.41                | 130                 | 80     | -                  | <35    | <0.5    | <0.5    | 2.8       | 0.78                      |
|                      | 10/8/2004          | 194.75         | 15.30          | 179.45                | 260                 | 120    | -                  | 24     | 3.0     | 2.9     | 8.3       | 10                        |
|                      | MW - 2<br>36' / 2" | 11/22/1994     | 196.44         | 12.54                 | 183.90              | 11000  | <50                | <0.5   | -       | 35      | 21        | 7.2                       |
| 2/23/1995            |                    | 196.44         | 12.35          | 184.09                | 4000                | <50    | 1.6                | -      | <0.5    | <0.5    | 2.5       | 5.7                       |
| 5/24/1995            |                    | 196.44         | 12.11          | 184.33                | 8600                | <50    | <0.5               | -      | 95      | 37      | 37        | 70                        |
| 8/18/1995            |                    | 196.44         | 16.25          | 180.19                | 7200                | <50    | <0.5               | -      | 43      | 21      | 21        | 71                        |
| 2/7/1996             |                    | 196.44         | 9.34           | 187.10                | 11000               | <50    | 0.6                | -      | 17      | 9.3     | 9.3       | 25                        |
| 9/6/1996             |                    | 196.44         | 15.22          | 181.22                | 15000               | 1900   | <5.0               | ND     | 4300    | 920     | 460       | 1600                      |
| 6/19/1997            |                    | 196.44         | 13.33          | 183.11                | 26000               | 2900   | <5.0               | <200   | 5300    | 1500    | 910       | 3200                      |
| 1/24/2002            |                    | 196.44         | 9.72           | 186.72                | 34000               | 5300   | -                  | <200   | 3100    | 1100    | 1100      | 2900                      |
| 7/15/2003            |                    | 196.44         | 12.42          | 184.02                | 18000               | 6600   | -                  | <1000  | 2300    | 310     | 690       | 1600                      |
| 10/10/2003           |                    | 196.44         | 13.79          | 182.65                | 19000               | 1800   | -                  | <500   | 2700    | 460     | 850       | 1800                      |
| 4/6/2004             |                    | 196.44         | 10.55          | 185.89                | 6900                | 1300   | -                  | <200   | 1100    | 100     | 380       | 780                       |
| 7/9/2004             |                    | 196.44         | 13.78          | 182.66                | 17000               | 4400   | -                  | <450   | 2800    | 240     | 710       | 1300                      |
| 10/8/2004            |                    | 196.44         | 14.78          | 181.66                | 6900                | 890    | -                  | <150   | 1500    | 240     | 340       | 670                       |
| MW - 3<br>35.5' / 2" |                    | 11/22/1994     | 198.93         | 11.53                 | 187.40              | 200    | <50                | 3      | -       | <0.5    | <0.5      | <0.5                      |
|                      | 2/23/1995          | 198.93         | 11.89          | 187.04                | 1500                | <50    | 0.9                | -      | 6.6     | 6.4     | 4.2       | 13                        |
|                      | 5/24/1995          | 198.93         | 12.71          | 186.22                | 710                 | <50    | <0.5               | -      | 2.5     | 3.2     | 3.1       | 16                        |
|                      | 8/18/1995          | 198.93         | 16.14          | 182.79                | 310                 | <50    | <0.5               | -      | 3.1     | 2.1     | 2.2       | 11                        |
|                      | 2/7/1996           | 198.93         | 6.22           | 192.71                | 400                 | <50    | 2.2                | -      | 1.4     | 2.5     | 2.2       | 7                         |
|                      | 9/6/1996           | 198.93         | 13.51          | 185.42                | <50                 | <50    | <5.0               | <5.0   | <0.5    | <0.5    | <0.5      | <0.5                      |
|                      | 6/19/1997          | 198.93         | 12.46          | 186.47                | <50                 | <50    | <5.0               | <5.0   | <0.5    | <0.5    | <0.5      | <0.5                      |
|                      | 1/24/2002          | 198.93         | 10.08          | 188.85                | 58                  | <50    | -                  | <5.0   | 4       | 2.7     | 2.3       | 6.7                       |
|                      | 7/15/2003          | 198.93         | 12.45          | 186.48                | <50                 | <50    | -                  | <5.0   | <0.5    | <0.5    | <0.5      | <0.5                      |
|                      | 10/10/2003         | 198.93         | 14.00          | 184.93                | 350                 | 75     | -                  | <5.0   | 14      | 16      | 23        | 60                        |
|                      | 4/6/2004           | 198.93         | 10.78          | 188.15                | <50                 | <50    | -                  | <5.0   | <0.5    | 1.7     | <0.5      | 1.7                       |
|                      | 7/9/2004           | 198.93         | 14.14          | 184.79                | 260                 | <50    | -                  | <5.0   | 12      | 13      | 14        | 36                        |
|                      | 10/8/2004          | 198.93         | 14.99          | 183.94                | 450                 | 76     | -                  | <5.0   | 21      | 22      | 30        | 86                        |

Well Elevation in feet above mean sea level (msl)  
 Depth to water in feet below the tops of the well casings  
 Water Table Elevations in feet above msl  
 TPH-g - Total petroleum hydrocarbons (TPH) as gasoline

TOG - Total oil and grease  
 MTBE - Methyl tertiary butyl ether  
 E-benzene: Ethyl-benzene  
 TPH-d - TPH as diesel

mg/l - milligrams per liter  
 µg/l - micrograms per liter  
 - = sample not analyzed by this method  
 ND = non detect (detection limit not known)

**Table 2**  
**Fuel Oxygenate Analyses**

| Well ID | Date      | TAME            | TBA    | EDB    | 1,2-DCA | DIPE   | Ethanol | ETBE   | Methanol | MTBE   |
|---------|-----------|-----------------|--------|--------|---------|--------|---------|--------|----------|--------|
|         |           | (µg/l)          | (µg/l) | (µg/l) | (µg/l)  | (µg/l) | (µg/l)  | (µg/l) | (µg/l)   | (µg/l) |
|         |           | EPA method 8260 |        |        |         |        |         |        |          |        |
| MW - 1  | 4/6/2004  | <0.5            | <5.0   | <0.5   | <0.5    | <0.5   | <50     | <0.5   | <500     | <0.5   |
|         | 7/9/2004  | -               | -      | -      | -       | -      | -       | -      | -        | -      |
|         | 10/8/2004 | -               | -      | -      | -       | -      | -       | -      | -        | -      |
| MW - 2  | 4/6/2004  | <5.0            | 110    | <5.0   | <5.0    | <5.0   | <500    | <5.0   | <5000    | 87     |
|         | 7/9/2004  | -               | 98     | -      | -       | -      | -       | -      | -        | 120    |
|         | 10/8/2004 | -               | 230    | -      | -       | -      | -       | -      | -        | 84     |
| MW-3    | 4/6/2004  | <0.5            | <5.0   | <0.5   | <0.5    | <0.5   | <50     | <0.5   | <500     | <0.5   |
|         | 7/9/2004  | -               | -      | -      | -       | -      | -       | -      | -        | -      |
|         | 10/8/2004 | -               | -      | -      | -       | -      | -       | -      | -        | -      |

TAME: tert amyle methyl ether  
TBA: t-butyl alcohol  
EDB: 1,2-Dibromoethane  
1,2-DCA: 1,2-Dichloroethane  
DIPE: Diisopropyl ether

ETBE: Ethyl tert-butyl ether  
MTBE: Methyl tert-butyl ether  
µg/l - micrograms per liter  
- = sample not analyzed by this method  
ND = non detect

**Table 3**  
**Groundwater Sample Analytical Results: Soil Borings**

| Sample ID | Date       | TPH-g                | TPH-d   | MTBE  | Benzene | Toluene | E-benzene | Xylenes |
|-----------|------------|----------------------|---------|-------|---------|---------|-----------|---------|
|           |            | (µg/l)<br>(EPA 8015) | (µg/l)  |       |         |         |           |         |
| SB1       | 8/97-1/98  | 63,000               | 27,000  | <200  | 2,600   | 1,100   | 1,700     | 3,600   |
| SB3       | 8/97-1/98  | 11,000               | 790     | <100  | 1,700   | 840     | 330       | 1,100   |
| SB5       | 8/97-1/98  | 12,000               | 28,000  | <330  | 200     | 14      | 280       | 28      |
| SB6       | 8/97-1/98  | 2,200                | -       | <28   | 330     | 4.7     | 49        | 14      |
| SB7       | 8/97-1/98  | 36,000               | 200,000 | <1100 | 2,200   | 550     | 850       | 1,700   |
| SB8       | 8/97-1/98  | 6,200                | 1,200   | <92   | 430     | 22      | 150       | 170     |
| SB9       | 8/97-1/98  | 160                  | 210     | 22    | 6.2     | 8.1     | 4.2       | 17      |
| SB-10W    | 8/21/2003  | 3,500                | 1,400   | <25   | 110     | 2.9     | 120       | 410     |
| SB-11W    | 8/21/2003  | 3,800                | 2,400   | <50   | 140     | 9.5     | 23        | 23      |
| SB-12 W   | 10/9/2003  | 680                  | 420     | <5.0  | <0.5    | 2.3     | <0.5      | 3.5     |
| SB-13 W   | 10/10/2003 | 270                  | 1,200   | <5.0  | <0.5    | <0.5    | <0.5      | 2.0     |
| SB-15 W   | 10/10/2003 | 1,600                | 1,900   | <5.0  | <0.5    | 3.0     | 25.0      | 8.8     |
| MDL       |            | 50                   | 50      | 5     | 0.5     | 0.5     | 0.5       | 0.5     |

MTBE - Methyl tertiary butyl ether  
 mg/l - milligrams per liter  
 µg/l - micrograms per liter  
 - = sample not analyzed by this method

TPH-g - Total petroleum hydrocarbons (TPH) as gasoline  
 TPH-d - TPH as diesel  
 MDL - method detection limit with no sample dilution  
 E-benzene: Ethyl-benzene

**Table 4**  
**Soil Sample Analytical Data**

| Sample ID | Date       | TPH-g    | TPH-d | MTBE  | Benzene | Toluene         | E-benzene | Xylenes |
|-----------|------------|----------|-------|-------|---------|-----------------|-----------|---------|
|           |            | mg/kg    | mg/kg |       |         |                 |           |         |
|           |            | EPA 8015 |       |       |         | EPA 8020 / 8021 |           |         |
| SB1-10'   | 8/97-1/98  | 8.2      | 15    | <2.0  | 0.17    | 0.031           | 0.097     | 0.069   |
| SB2-10'   | 8/97-1/98  | 1.3      | <1.0  | <0.05 | 0.061   | 0.016           | 0.03      | 0.014   |
| SB3-5'    | 8/97-1/98  | 1.6      | -     | <0.05 | 0.048   | 0.044           | 0.016     | 0.046   |
| SB3-10'   | 8/97-1/98  | 590      | 160   | <6.0  | 8.6     | 15              | 10        | 48      |
| SB3-15'   | 8/97-1/98  | 1,000    | -     | <10   | 8.3     | 8.8             | 15        | 52      |
| SB3-20'   | 8/97-1/98  | <1.0     | -     | <0.05 | 0.006   | 0.009           | <0.005    | 0.017   |
| SB3-25'   | 8/97-1/98  | <1.0     | -     | <0.05 | <0.005  | <0.005          | <0.005    | <0.005  |
| SB4-10'   | 8/97-1/98  | <1.0     | <1.0  | <0.05 | <0.005  | <0.005          | <0.005    | <0.005  |
| SB5-15'   | 8/97-1/98  | 2.0      | 4.9   | <0.05 | 0.08    | <0.005          | 0.045     | 0.012   |
| SB6-15'   | 8/97-1/98  | 2.2      | <1.0  | <0.05 | 0.058   | 0.008           | 0.007     | 0.073   |
| SB7-15'   | 8/97-1/98  | 7.9      | 2.3   | <0.05 | <0.005  | 0.016           | <0.005    | 0.073   |
| SB8-10'   | 8/97-1/98  | 33       | 11    | <0.23 | 0.25    | 0.089           | 0.30      | 0.29    |
| SB9-10'   | 8/97-1/98  | <1.0     | <1.0  | <0.05 | <0.005  | <0.005          | <0.005    | <0.005  |
| SB-10 12' | 8/21/2003  | 100      | 38    | <1.0  | 0.39    | <0.10           | 0.88      | 1.4     |
| SB-10 19' | 8/21/2003  | 66       | 6.3   | <0.05 | <0.005  | 0.075           | 0.047     | 0.13    |
| SB-11 8'  | 8/21/2003  | 1.8      | 1.1   | <0.05 | 0.10    | 0.012           | <0.005    | <0.005  |
| SB-11 12' | 8/21/2003  | 1.3      | 2.1   | <0.05 | 0.05    | <0.005          | <0.005    | <0.005  |
| SB-11 19' | 8/21/2003  | 150      | 27    | <0.50 | 0.13    | 0.11            | 0.25      | 0.18    |
| SB-12 12' | 10/9/2003  | <1.0     | <1.0  | <0.05 | <0.005  | <0.005          | <0.005    | <0.005  |
| SB-12 18' | 10/9/2003  | <1.0     | <1.0  | <0.05 | <0.005  | <0.005          | <0.005    | <0.005  |
| SB-13 20' | 10/10/2003 | <1.0     | <1.0  | <0.05 | <0.005  | <0.005          | <0.005    | <0.005  |
| SB-14 16' | 10/10/2003 | 74       | 98    | <0.50 | <0.050  | <0.050          | <0.050    | 0.12    |
| SB-14 23' | 10/10/2003 | <1.0     | <1.0  | <0.05 | <0.005  | <0.005          | <0.005    | <0.005  |
| SB-15 15' | 10/10/2003 | 660      | 100   | <2.0  | <0.20   | 5.6             | 1.3       | 1.9     |
| SB-15 19' | 10/10/2003 | <1.0     | <1.0  | <0.05 | <0.005  | <0.005          | <0.005    | <0.005  |
| MDL       |            | 1.0      | 1.0   | 0.05  | 0.005   | 0.005           | 0.005     | 0.005   |

MTBE - Methyl tertiary butyl ether  
mg/kg - milligrams per kilogram  
MDL - method detection limit with no sample dilution  
- = sample not analyzed by this method

TPH-g - Total petroleum hydrocarbons (TPH) as gasoline  
TPH-d - TPH as diesel  
E-benzene: Ethyl-benzene

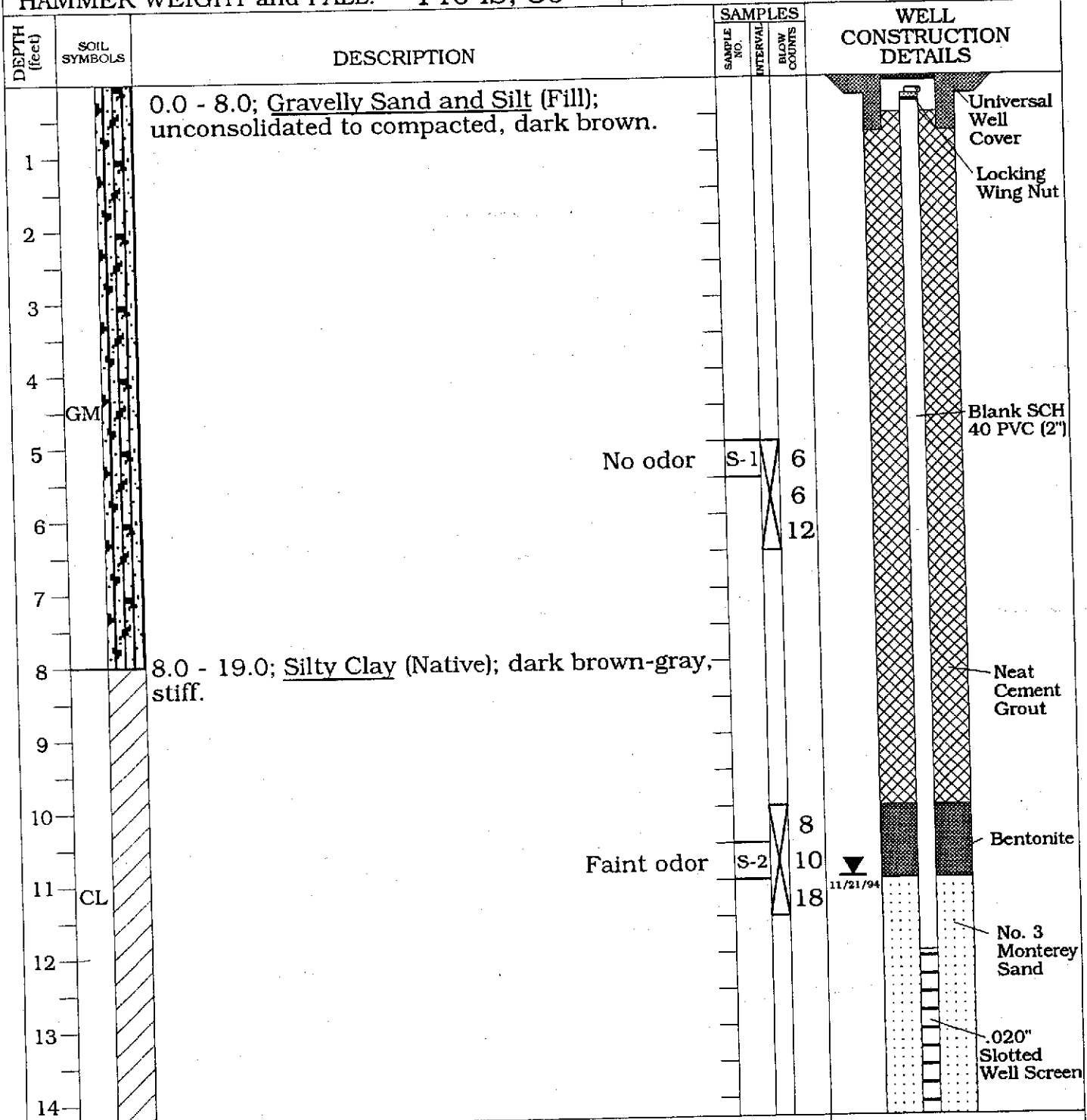
**Table 5  
Groundwater Flow Summary**

| <b>Monitoring Episode<br/>Date</b> | <b>Average Depth to<br/>Water</b> | <b>Average Water<br/>Table Elevation</b> | <b>Elevation Change<br/>from previous (ft)</b> | <b>Flow Direction<br/>(gradient ft/ft)</b> |
|------------------------------------|-----------------------------------|--|--|--|
| 11/22/1994                         | 11.66                             | 185.04                                   | -  | -  |
| 2/23/1995                          | 11.61                             | 185.10                                   | 0.06   | -  |
| 5/24/1995                          | 11.92                             | 184.79                                   | -0.31  | -  |
| 8/18/1995                          | 15.64                             | 181.07                                   | -3.72  | -  |
| 2/7/1996                           | 6.66                              | 190.04                                   | 8.97   | SE (0.32)                                  |
| 9/6/1996                           | 14.11                             | 182.60                                   | -7.45  | SE (0.18)                                  |
| 6/19/1997                          | 12.95                             | 183.75                                   | 1.16   | SSE (0.08)                                 |
| 1/24/2002                          | 9.78                              | 186.93                                   | 3.18   | S (0.05)                                   |
| 7/15/2003                          | 12.57                             | 184.13                                   | -2.80  | S (0.06)                                   |
| 10/10/2003                         | 14.12                             | 182.58                                   | -1.55  | S (0.05)                                   |
| 4/6/2004                           | 10.75                             | 185.96                                   | 3.37   | S (0.05)                                   |

Elevations in feet above mean sea level  
- not available

## **WELL / BORING LOGS**

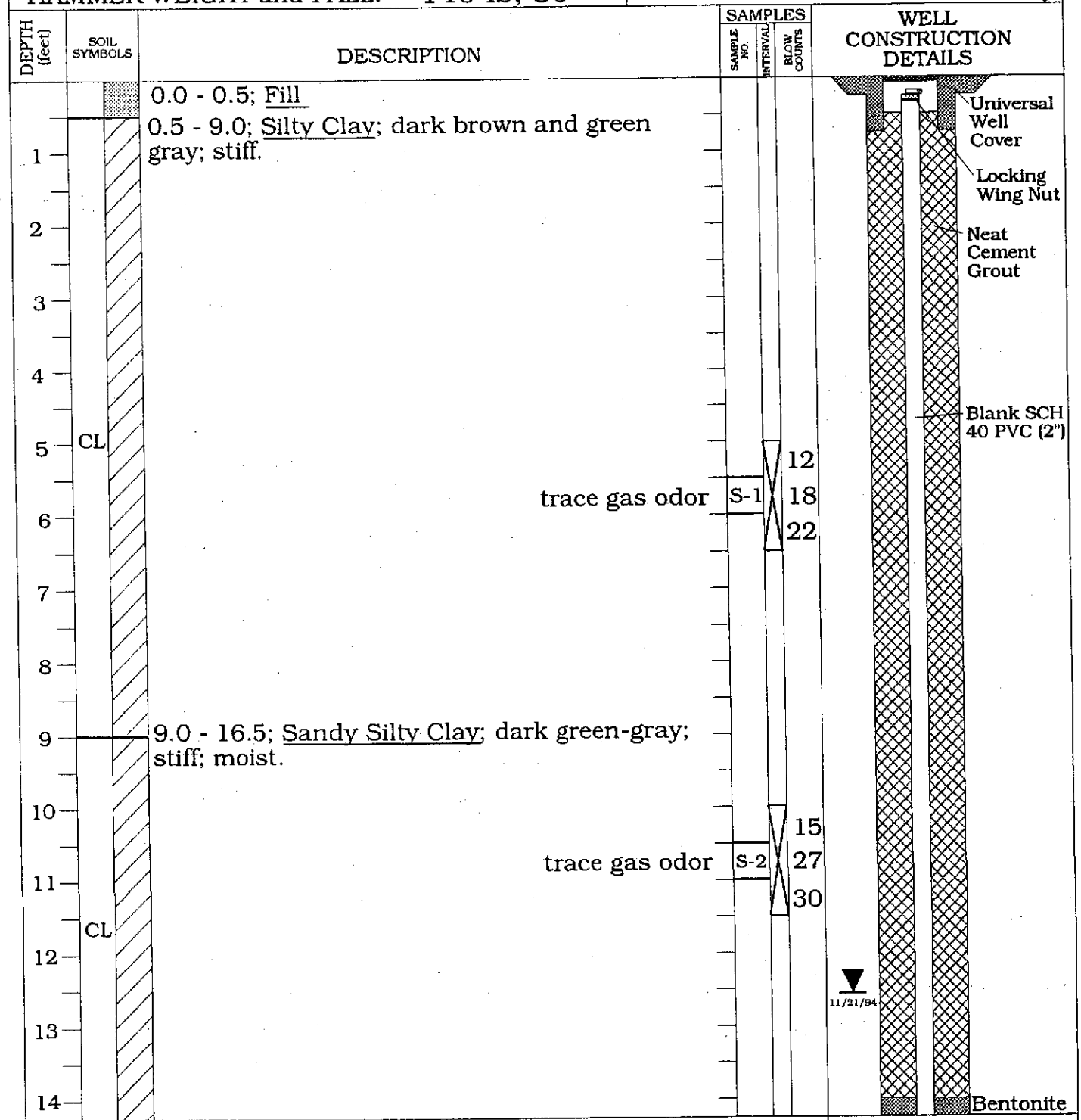
|   |   |                           |
|---|---|---------------------------|
| <b>PROJECT:</b> Williamson #1031                  | <b>LOG OF WELL NUMBER:</b> MW-1         |                           |
| <b>BORING LOC.:</b> SW corner of property         | <b>ELEVATION, TOC:</b> 194.75'          |                           |
| <b>DRILLING CONTRACTOR:</b> West Hazmat Drilling  | <b>START DATE:</b> 3/24/94              | <b>END DATE:</b> 3/24/94  |
| <b>DRILLING METHOD:</b> Hollow Stem Auger         | <b>TOTAL DEPTH:</b> 25'                 | <b>SCREEN INT:</b> 12-25' |
| <b>DRILLING EQUIPMENT:</b> Mobile B-57            | <b>DEPTH TO WATER:</b> 10.92'           | <b>CASING:</b> 2" PVC     |
| <b>SAMPLING METHOD:</b> drive sampler w/ 2" liner | <b>LOGGED BY:</b> J. Wiegand 12/24'     |                           |
| <b>HAMMER WEIGHT and FALL:</b> 140 lb, 30"        | <b>RESPONSIBLE PROFESSIONAL:</b> G. Roy |                           |





| PROJECT: Williamson #1031 |              | LOG OF BOREHOLE: MW-1   |            |             |                                       |
|---------------------------|--------------|---|------------|-------------|---------------------------------------|
| DEPTH (feet)              | SOIL SYMBOLS | DESCRIPTION   | SAMPLES    |             | WELL CONSTRUCTION DETAILS             |
|                           |              |   | SAMPLE NO. | BLOW COUNTS |                                       |
| 15                        | CL           | 8.0 - 19.0; <u>Silty Clay</u> (cont.)                         | S-3        | 10          |                                       |
| 16                        |              | trace gas odor  |            | 15          |                                       |
| 17                        |              |   |            | 20          |                                       |
| 19                        | SM           | 19.0 - 21.0: <u>Silty Sand</u> ; brown-gray; very dense; wet. | S-4        | 18          |                                       |
| 20                        |              |   |            | 30          |                                       |
| 21                        | CL           | 21.0 - 25.0: <u>Silty Clay</u> ; light brown; stiff; moist.   | S-5        | 35          |                                       |
| 22                        |              |   |            |             |                                       |
| 23                        |              |   |            |             |                                       |
| 24                        | CL           | Grades to very hard.  | S-6        | 35          |                                       |
| 25                        |              |   |            | 50          |                                       |
| 25                        |              | Bottom of hole at 25.0'                                       |            |             | Depth to water<br>10.92' on 11/21/94. |
| 26                        |              |   |            |             |                                       |
| 27                        |              |   |            |             |                                       |
| 28                        |              |   |            |             |                                       |
| 29                        |              |   |            |             |                                       |
| 30                        |              |   |            |             |                                       |
| 31                        |              |   |            |             |                                       |

|   |   |                           |
|---|---|---------------------------|
| <b>PROJECT:</b> Williamson #1031                  | <b>LOG OF WELL NUMBER:</b> MW-2         |                           |
| <b>BORING LOC.:</b> south, middle portion of lot  | <b>ELEVATION, TOC:</b> 196.44'          |                           |
| <b>DRILLING CONTRACTOR:</b> West Hazmat Drilling  | <b>START DATE:</b> 3/24/94              | <b>END DATE:</b> 3/24/94  |
| <b>DRILLING METHOD:</b> Hollow Stem Auger         | <b>TOTAL DEPTH:</b> 36'                 | <b>SCREEN INT:</b> 16-36' |
| <b>DRILLING EQUIPMENT:</b> Mobile B-57            | <b>DEPTH TO WATER:</b> 12.54'           | <b>CASING:</b> 2" PVC     |
| <b>SAMPLING METHOD:</b> drive sampler w/ 2" liner | <b>LOGGED BY:</b> J. Wiegand            |                           |
| <b>HAMMER WEIGHT and FALL:</b> 140 lb, 30"        | <b>RESPONSIBLE PROFESSIONAL:</b> G. Roy |                           |



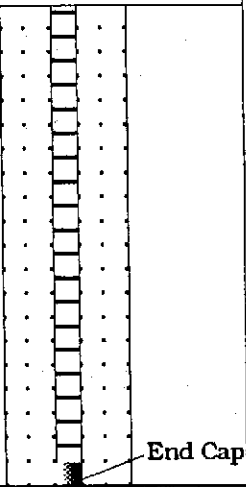
PROJECT: Williamson #1031

LOG OF BOREHOLE: MW-2

| DEPTH (feet) | SOIL SYMBOLS | DESCRIPTION   | SAMPLES    |             | WELL CONSTRUCTION DETAILS  |
|--------------|--------------|---|------------|-------------|--|
|              |              |   | SAMPLE NO. | BLOW COUNTS |  |
| 15           | CL           | 9.0 - 16.5; Sandy Silty Clay (cont.)                    |            |             | <p>Bentonite</p> <p>No. 3 Monterey Sand</p> <p>.020" Slotted Well Screen</p> |
| 16           |              | trace gas odor  | S-3        |             |  |
| 17           |              | 16.5 - 19.0; Sand; dark green-gray; very fine; dense.   |            |             |  |
| 18           | SW           |   |            |             |  |
| 19           |              | 19.0 - 23.0; very fine Sandy Clay; brown; stiff; moist. |            |             |  |
| 20           |              |   |            | 23          |  |
| 21           | CL           | trace gas odor  | S-3        | 32          |  |
| 22           |              |   |            | 35          |  |
| 23           |              | 23.0 - 36.0; Silty Clay; brown; stiff; saturated.       |            |             |  |
| 24           |              |   |            |             |  |
| 25           |              |   |            | 18          |  |
| 26           |              | no odor   | S-5        | 25          |  |
| 27           |              |   |            | 27          |  |
| 28           | CL           |   |            |             |  |
| 29           |              |   |            | 15          |  |
| 30           |              | no odor   | S-6        | 20          |  |
| 31           |              |   |            | 25          |  |

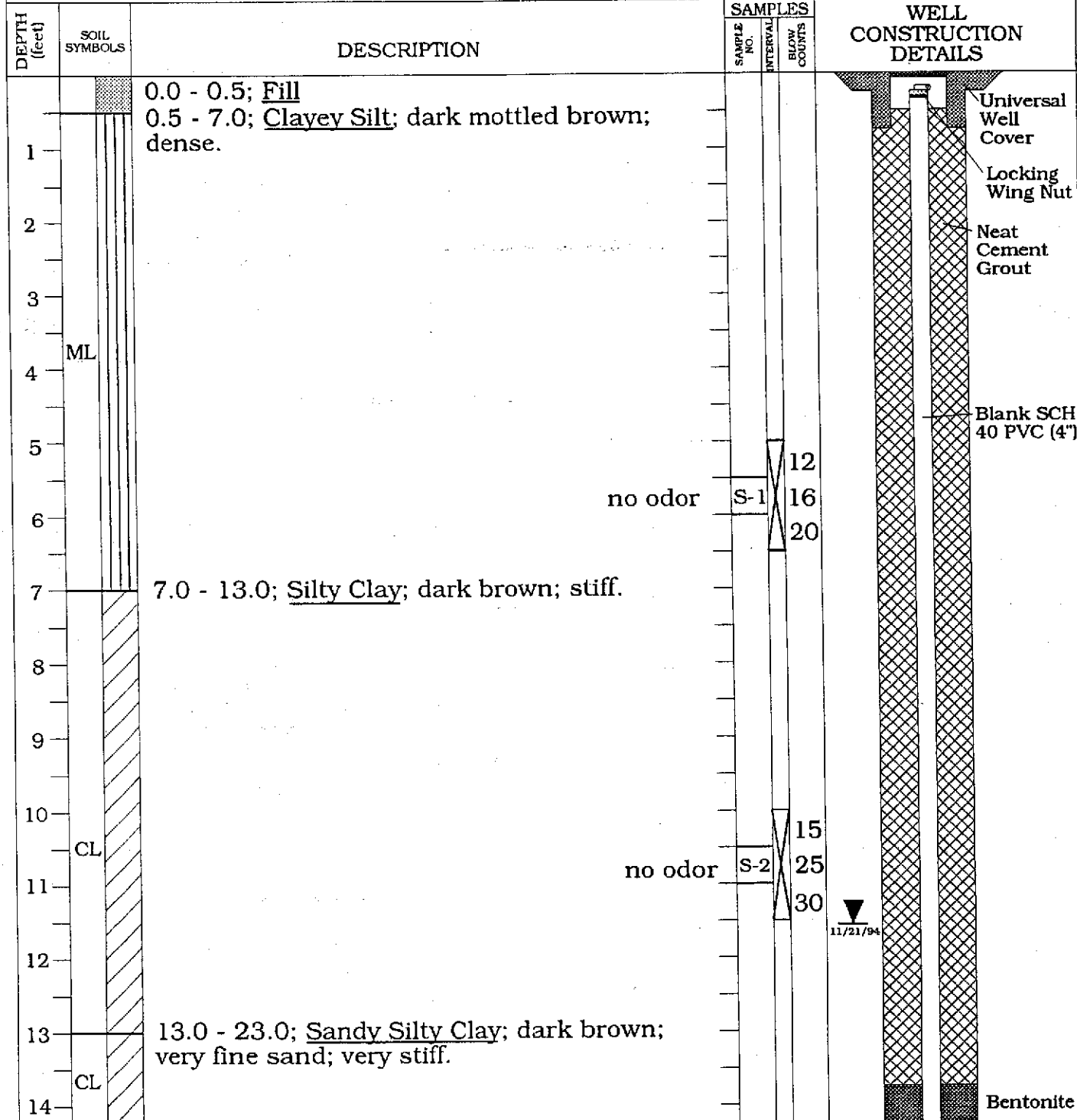
PROJECT: Williamson #1031

LOG OF BOREHOLE: MW-2

| DEPTH (feet) | SOIL SYMBOLS | DESCRIPTION                            | SAMPLES    |             | WELL CONSTRUCTION DETAILS  |
|--------------|--------------|--|------------|-------------|--|
|              |              |  | SAMPLE NO. | BLOW COUNTS |  |
| 32           | CL           | 23.0 - 36.0; <u>Silty Clay</u> (cont.) |            |             | <br>End Cap |
| 33           |              |  |            |             |  |
| 34           |              |  |            |             |  |
| 35           |              |  |            |             |  |
| 36           |              |  |            |             |  |
| 37           |              | Bottom of hole at 36.0'                |            |             | Depth to water<br>12.54' on 11/21/94.  |
| 38           |              |  |            |             |  |
| 39           |              |  |            |             |  |
| 40           |              |  |            |             |  |
| 41           |              |  |            |             |  |
| 42           |              |  |            |             |  |
| 43           |              |  |            |             |  |
| 44           |              |  |            |             |  |
| 45           |              |  |            |             |  |
| 46           |              |  |            |             |  |
| 47           |              |  |            |             |  |
| 48           |              |  |            |             |  |

no odor S-7 17 20 37

|   |   |                             |
|---|---|-----------------------------|
| <b>PROJECT:</b> Williamson #1031                  | <b>LOG OF WELL NUMBER:</b> MW-3         |                             |
| <b>BORING LOC.:</b> NE corner of property         | <b>ELEVATION, TOC:</b> 198.93'          |                             |
| <b>DRILLING CONTRACTOR:</b> West Hazmat Drilling  | <b>START DATE:</b> 3/24/94              | <b>END DATE:</b> 3/24/94    |
| <b>DRILLING METHOD:</b> Hollow Stem Auger         | <b>TOTAL DEPTH:</b> 36.5'               | <b>SCREEN INT:</b> 15.5-36' |
| <b>DRILLING EQUIPMENT:</b> Mobile B-57            | <b>DEPTH TO WATER:</b> 11.53'           | <b>CASING:</b> 2" PVC       |
| <b>SAMPLING METHOD:</b> drive sampler w/ 2" liner | <b>LOGGED BY:</b> J. Wiegand            |                             |
| <b>HAMMER WEIGHT and FALL:</b> 140 lb, 30"        | <b>RESPONSIBLE PROFESSIONAL:</b> G. Roy |                             |




PROJECT: Williamson #1031

LOG OF BOREHOLE: MW-3

| DEPTH (feet) | SOIL SYMBOLS | DESCRIPTION   | SAMPLES    |             | WELL CONSTRUCTION DETAILS |    |
|--------------|--------------|---|------------|-------------|---------------------------|----|
|              |              |   | SAMPLE NO. | BLOW COUNTS |                           |    |
| 15           | CL           | 13.0 - 23.0; <u>Sandy Silty Clay</u> (cont.)                              | S-3        | 15          | Bentonite                 |    |
| 16           |              |   |            | 22          |                           |    |
| 17           |              |   |            | 25          |                           |    |
| 18           | CL           |   | no odor    | S-4         | No. 3 Monterey Sand       |    |
| 19           |              |   |            |             |                           | 17 |
| 20           |              |   |            |             |                           | 20 |
| 21           |              |   |            |             |                           | 24 |
| 22           | SC           | 23.0 - 28.0; <u>Clayey Sand</u> ; dark brown; very fine sand; very dense. | no odor    | S-5         | .020" Slotted Well Screen |    |
| 23           |              |   |            |             |                           | 20 |
| 24           |              |   |            |             |                           | 35 |
| 25           | CL           | 28.0 - 36.5; <u>Silty Clay</u> ; dark brown; stiff.                       | no odor    | S-6         |                           |    |
| 26           |              |   |            |             |                           | 38 |
| 27           | CL           |   | no odor    |             |                           |    |
| 28           |              |   |            |             |                           | 20 |
| 29           |              |   |            |             |                           | 25 |
| 30           |              |   |            |             |                           |    |
| 31           |              |   |            |             |                           |    |

PROJECT: Williamson #1031

LOG OF BOREHOLE: MW-3

| DEPTH (feet) | SOIL SYMBOLS | DESCRIPTION                            | SAMPLES    |             | WELL CONSTRUCTION DETAILS   |
|--------------|--------------|--|------------|-------------|---|
|              |              |  | SAMPLE NO. | BLOW COUNTS |   |
| 32           | CL           | 28.0 - 36.5; <u>Silty Clay</u> (cont.) |            | 30          |  |
| 33           |              |  |            |             |   |
| 34           |              |  |            |             |   |
| 35           |              |  |            |             |   |
| 36           |              |  |            |             |   |
|              |              | Bottom of hole at 36.5'                | no odor    | S-7         | 20<br>27<br>32  |
| 37           |              |  |            |             | Depth to water<br>11.53' on 11/21/94  |
| 38           |              |  |            |             |   |
| 39           |              |  |            |             |   |
| 40           |              |  |            |             |   |
| 41           |              |  |            |             |   |
| 42           |              |  |            |             |   |
| 43           |              |  |            |             |   |
| 44           |              |  |            |             |   |
| 45           |              |  |            |             |   |
| 46           |              |  |            |             |   |
| 47           |              |  |            |             |   |
| 48           |              |  |            |             |   |

Project No: 6906

Sheet: 1 of 1

Project Name: Williamson

**Log of Borehole: SB-10**

Client: J. Williamson

Location: 3635 13th Ave., Oakland

| Depth | USCS   |       | Subsurface Description  | Sample Data  |      |         |           | Remarks  |
|-------|--------|-------|---|--------------|------|---------|-----------|--|
|       | Symbol | Label |   | Sample Label | Type | Blow/ft | Well Data |  |
| 0     |        |       | Ground Surface  |              |      |         |           | Start at 10am<br>Hand auger 0-4'                               |
|       |        |       | <b>ASPHALT ROAD</b><br>Asphalt and gravel                                 |              |      |         |           |  |
| 2     |        | SC    | <b>SAND</b><br>Clayey sand, hard, dry, olive color                        |              |      |         |           |  |
| 4     |        |       |   |              |      |         |           |  |
| 6     |        |       |   | SB-10 5'     | C    | -       |           |  |
| 8     |        |       |   |              |      |         |           |  |
| 10    |        |       |   |              |      |         |           |  |
| 12    |        | CL    | <b>CLAY</b><br>Clay, sandy clay, tan with olive streaks                   |              |      |         |           | Strong hydrocarbon (HC) odor<br>Liner jam 12-16' - no recovery |
| 14    |        |       |   |              |      |         |           |  |
| 16    |        |       |   | SB-10 12'    | C    | -       |           |  |
| 18    |        | GW    | <b>GRAVEL</b><br>Angular gravel, dry                                      |              |      |         |           | Strong HC odor   |
| 20    |        |       |   |              |      |         |           |  |
| 22    |        | SC    | <b>SAND</b><br>Very fine to fine sand with clay, damp, sand wet below 20' |              |      |         |           | PVC w/ 5' screen to 24'  |
| 24    |        |       |   | SB-10 19'    | C    | -       |           |  |
| 26    |        | CL    | <b>CLAY</b><br>Tan clay with minor sand, hard                             |              |      |         |           |  |
| 28    |        |       |   |              |      |         |           |  |
| 30    |        |       | End of Borehole   |              |      |         |           |  |

Drill Date: 8/21/03

Reviewed by: LMS

AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(925) 283-6000

Drill Method: Direct Push

Logged by: PJM

Total Depth (ft): 24

Depth to Water (ft): 19



Project No: 6906

Sheet: 1 of 1

Project Name: Williamson

**Log of Borehole: SB-11**

Client: J. Williamson

Location: 3635 13th Ave., Oakland

| Depth | USCS   |       | Subsurface Description  | Sample Data  |      |         |           | Remarks                            |
|-------|--------|-------|---|--------------|------|---------|-----------|------------------------------------|
|       | Symbol | Label |   | Sample Label | Type | Blow/ft | Well Data |                                    |
| 0     |        |       | Ground Surface  |              |      |         |           | Start at 8:15am<br>Hand auger 0-5' |
| 2     |        |       | <b>ASPHALT ROAD</b><br>Asphalt and concrete with aggregate fill               |              |      |         |           |                                    |
| 4     |        | CL    | <b>CLAY</b><br>Clay, moderately plastic, grey to black                        |              |      |         |           | Strong hydrocarbon (HC) odor       |
| 6     |        |       | <b>CLAY</b><br>Clay with fine sand, olive color                               |              |      |         |           |                                    |
| 8     |        | CL    |   | SB-11 8'     | C    | -       |           |                                    |
| 10    |        |       | Sand increasing with depth<br>Damp but not saturated                          |              |      |         |           |                                    |
| 12    |        |       |   | SB-11 12'    | C    | -       |           | Strong HC odor                     |
| 14    |        |       |   |              |      |         |           | Water level @ 2 hr                 |
| 16    |        | CL    | <b>CLAY</b><br>Brown - tan clay, hard   |              |      |         |           |                                    |
| 18    |        |       |   |              |      |         |           | PVC w/ 5' screen to 24'            |
| 20    |        | SM    | <b>SAND</b><br>Very fine to fine sand with minor silt, olive color, saturated | SB-11 19'    | C    | -       |           |                                    |
| 22    |        | CL    | <b>CLAY</b><br>Clay with sand, orange - tan                                   |              |      |         |           |                                    |
| 24    |        |       | End of Borehole   |              |      |         |           |                                    |
| 26    |        |       |   |              |      |         |           |                                    |
| 28    |        |       |   |              |      |         |           |                                    |
| 30    |        |       |   |              |      |         |           |                                    |

Drill Date: 8/21/03

Reviewed by: LMS

AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(925) 283-6000

Drill Method: Direct Push

Logged by: PJM

Total Depth (ft): 24

Depth to Water (ft): 17.2

Project No: 6906

Sheet: 1 of 1

Project Name: Williamson

**Log of Borehole: SB-12**

Client: J. Williamson

Location: 3635 13th Ave., Oakland

| Depth | USCS   |       | Subsurface Description  | Sample Data  |      |         |           | Remarks                              |
|-------|--------|-------|---|--------------|------|---------|-----------|--------------------------------------|
|       | Symbol | Label |   | Sample Label | Type | Blow/ft | Well Data |                                      |
| 0     |        |       | Ground Surface  |              |      |         |           | Start at 1:35pm<br>Water knife to 5' |
| 0-2   |        |       | <b>ASPHALT ROAD</b><br>Asphalt and concrete with aggregate fill                               |              |      |         |           |                                      |
| 2-10  |        | CL    | <b>SAND</b><br>Fine to coarse sand, minor clay, damp<br><br>Coarsens with depth               |              |      |         |           | Moderate HC(diesel ?) odor           |
| 10-12 |        |       | <b>CLAY</b><br>Clay with angular gravel (to 2 cm), hard, tan - color change at 11.0' to olive | SB-12 12'    | C    | -       |           |                                      |
| 12-16 |        | CL    | Sandy clay, no gravel   |              |      |         |           | Strong HC odor                       |
| 16-20 |        |       | <b>SAND</b><br>Fine to medium sand with silt and clay, damp, hard                             | SB-12 18'    | C    | -       |           |                                      |
| 20-22 |        | SM    |   |              |      |         |           | PVC w/ 5' screen to 24'              |
| 22-24 |        | CL    | <b>SAND</b><br>Very fine sand with minor silt and clay, olive color, saturated                |              |      |         |           |                                      |
| 24-26 |        |       | <b>CLAY</b><br>Clay with sand, tan - hard   |              |      |         |           |                                      |
| 26-30 |        |       | End of Borehole   |              |      |         |           |                                      |

Drill Date: 10/9/03

Reviewed by: LMS

AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(925) 283-6000

Drill Method: Direct Push

Logged by: PJM

Total Depth (ft): 24

Depth to Water (ft): 19.5

Project No: 6906






Sheet: 1 of 1

Project Name: Williamson

**Log of Borehole: SB-13**

Client: J. Williamson

Location: 3635 13th Ave., Oakland

| Depth | USCS  |       | Subsurface Description   | Sample Data  |      |         |                         | Remarks                            |
|-------|---|-------|--|--------------|------|---------|-------------------------|------------------------------------|
|       | Symbol  | Label |  | Sample Label | Type | Blow/ft | Well Data               |                                    |
| 0     |   |       | Ground Surface   |              |      |         |                         | Start at 10am<br>Water knife to 5' |
| 2     |    |       | <b>ASPHALT ROAD</b><br>Asphalt and concrete with aggregate fill              |              |      |         |                         |                                    |
| 4     |    | SC    | <b>SAND</b><br>Clayey sand, slightly damp                                    |              |      |         |                         |                                    |
| 6     |   |       |  |              |      |         |                         |                                    |
| 8     |   |       |  |              |      |         |                         |                                    |
| 10    |   | CL    | <b>CLAY</b><br>Stiff clay with low sand                                      |              |      |         |                         |                                    |
| 12    |   |       |  | SB-13 11'    | C    | -       |                         |                                    |
| 14    |   |       | Sand increases with depth  |              |      |         | ≠ No HC odor            |                                    |
| 16    |   |       |  | SB-13 16'    | C    | -       |                         |                                    |
| 18    |  | SC    | <b>SAND</b><br>Very fine to fine sand with clay, damp, olive colored streaks |              |      |         |                         |                                    |
| 20    |   | SW    | V. fine to med sand, saturated   | SB-13 20'    | C    | -       | Slight HC odor          |                                    |
| 22    |  | CL    | <b>CLAY</b><br>Clay with sand, tan - hard                                    |              |      |         |                         |                                    |
| 24    |   |       | End of Borehole  |              |      |         | PVC w/ 5' screen to 24' |                                    |
| 26    |   |       |  |              |      |         |                         |                                    |
| 28    |   |       |  |              |      |         |                         |                                    |
| 30    |   |       |  |              |      |         |                         |                                    |

Drill Date: 10/10/03  
 Drill Method: Direct Push  
 Total Depth (ft): 24  
 Depth to Water (ft): 15.2

Reviewed by: LMS  
 Logged by: PJM

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 2500 Camino Diablo, Suite 200  
 Walnut Creek, CA 94597  
 (925) 283-6000

Project No: 6906














Sheet: 1 of 1

Project Name: Williamson

**Log of Borehole: SB-14**

Client: J. Williamson

Location: 3635 13th Ave., Oakland

| Depth | USCS  |       | Subsurface Description  | Sample Data  |      |           |           | Remarks                              |   |
|-------|---|-------|---|--------------|------|-----------|-----------|--------------------------------------|---|
|       | Symbol  | Label |   | Sample Label | Type | Blow/ft   | Well Data |                                      |   |
| 0     |    |       | Ground Surface<br><b>Concrete</b>   |              |      |           |           | Start at 9:30am<br>Water knife to 6' |   |
| 2     |    | SW    | <b>SAND</b><br>Loose well graded sand with few fines  |              |      |           |           |                                      |   |
| 4     |    |       |   |              |      |           |           |                                      |   |
| 6     |    |       |   |              |      |           |           |                                      |   |
| 8     |    |       |   |              |      |           |           |                                      |   |
| 10    |    |       |   |              |      |           |           |                                      |   |
| 12    |  | CL    | <b>CLAY</b><br>Moderately plastic clay with minor fine sand, tan with olive streaking             | SB-14 12'    | C    | -         |           |                                      | Color change to lt. olive @ 14'<br><br>Moderate HC odor below 16' |
| 14    |  |       |   |              |      |           |           |                                      |   |
| 16    |  | SW    | <b>SAND</b><br>Loose well graded sand, angular to sub-angular clasts<br><br>wet but not saturated | SB-14 16'    | C    | -         |           |                                      |   |
| 18    |  |       |   |              |      |           |           |                                      |   |
| 20    |  |       |   |              |      |           |           |                                      |   |
| 22    |  | CL    | <b>CLAY</b><br>Stiff clay with minor sand, tan  |              |      |           |           | PVC w/ 10' screen to 25.5'           |   |
| 24    |  |       |   |              |      | SB-14 23' | C         |                                      |   |
| 26    |   |       | End of Borehole   |              |      |           |           | Liner jam - no recovery 24-26'       |   |
| 28    |   |       |   |              |      |           |           |                                      |   |
| 30    |   |       |   |              |      |           |           |                                      |   |

Drill Date: 10/10/03

Reviewed by: LMS

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Drill Method: Direct Push

Logged by: PJM

Total Depth (ft): 26

Depth to Water (ft): Dry

Project No: 6906














Sheet: 1 of 1

Project Name: Williamson

**Log of Borehole: SB-15**

Client: J. Williamson

Location: 3635 13th Ave., Oakland

| Depth | USCS  |       | Subsurface Description   | Sample Data  |      |         |                                  | Remarks                              |
|-------|---|-------|--|--------------|------|---------|----------------------------------|--------------------------------------|
|       | Symbol  | Label |  | Sample Label | Type | Blow/ft | Well Data                        |                                      |
| 0     |    |       | Ground Surface   |              |      |         |                                  | Start at 8:30am<br>Water knife to 7' |
|       |   |       | Concrete   |              |      |         |                                  |                                      |
| 2     |    |       | <b>SAND</b><br>Sand with gravel and clay, pipe present at 2' and at 5' |              |      |         |                                  |                                      |
| 4     |    |       |  |              |      |         |                                  |                                      |
| 6     |    | SW    |  |              |      |         |                                  |                                      |
| 8     |    |       |  |              |      |         |                                  |                                      |
| 10    |    |       | Fine to coarse sand, sm gravel   |              |      |         |                                  |                                      |
| 12    |    |       |  |              |      |         |                                  |                                      |
| 14    |    |       |  |              |      |         | Color change to lt. olive @13.5' |                                      |
| 16    |    | SC    | <b>SAND</b><br>Very fine to fine sand with clay                        | SB-15 15'    | C    | -       |                                  |                                      |
| 18    |   |       |  |              |      |         |                                  |                                      |
| 20    |  |       |  | SB-15 19'    | C    | -       |                                  | No HC odor                           |
| 22    |  | CL    | <b>CLAY</b><br>Stiff clay with minor sand                              |              |      |         |                                  | PVC w/ 5' screen to 27'              |
| 24    |  |       |  |              |      |         |                                  | Liner jam - no recovery 24-27'       |
| 26    |   |       |  |              |      |         |                                  |                                      |
| 28    |   |       | End of Borehole  |              |      |         |                                  |                                      |
| 30    |   |       |  |              |      |         |                                  |                                      |

Drill Date: 10/10/03

Reviewed by: LMS

AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(925) 283-6000

Drill Method: Direct Push

Logged by: PJM

Total Depth (ft): 27

Depth to Water (ft): 24.8