

April 8, 2002

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

**RE: EQUILON ENTERPRISES LLC / Equiva Services LLC dba SHELL OIL PRODUCTS US**

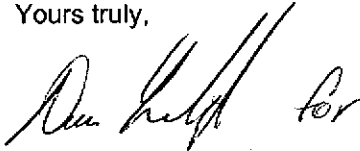
Dear Sir or Madam:

The Shell purchase of Texaco's interest in Equilon Enterprises LLC and Equiva Services LLC has been approved by government authorities and was completed in early February.

Please be advised that effective March 1, 2002, Equilon Enterprises LLC and Equiva Services LLC will begin doing business as (DBA) "Shell Oil Products US." Since Equilon Enterprises LLC will remain the owner and/or the responsible Party of remediation activities at 540 Hegenberger Road, Oakland, California, no changes are needed or requested for permits.

If you have any questions please contact Ms. Karen Petryna at 559.645.9306.

Yours truly,



Karen Petryna  
Sr. Environmental Engineer

# C A M B R I A

April 8, 2002

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

ROZUB

Reed  
4/2/02

Re: **Fourth Quarter 2001 Monitoring Report**  
Shell-branded Service Station  
540 Hegenberger Road  
Oakland, California  
Incident #98995752  
Cambria Project #244-0414-002



Dear Mr. Chan:

Effective March 1, 2002, Equiva Services LLC and Equilon Enterprises LLC are now doing business as (dba) Shell Oil Products US (Shell). On behalf of Shell, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

## FOURTH QUARTER 2001 ACTIVITIES

**Groundwater Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged water levels, sampled the monitoring wells, calculated groundwater elevations, and compiled the analytical data. The adjacent Arco station located at 566 Hegenberger Road was sampled concurrently. Cambria prepared a vicinity map, which includes previously submitted well survey information, (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A. Data provided to Cambria for the Arco site is presented as Attachment B. It appears that the Arco wells are surveyed to project datum, not mean sea level. Therefore, their water level data was not used in contouring.

Oakland, CA  
San Ramon, CA  
Sonoma, CA


**Cambria  
Environmental  
Technology, Inc.**

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

**Interim Remedial Action:** From July 1999 through June 2000, groundwater extraction (GWE) was performed at the site to extract dissolved-phase hydrocarbons and methyl tert-butyl ether (MTBE) in groundwater. From June through December 2000, dual-phase vacuum extraction (DVE) was performed at the site to enhance GWE and to extract vapor-phase hydrocarbon and MTBE from the soil. DVE was discontinued after the December 2000 event, and monthly DVE events were resumed in May 2001. Beginning in October 2001, the extraction method was changed from DVE to GWE without vacuum enhancement due to low vapor mass removal rates.

Wells MW-1 and MW-3 and tank backfill well BW-D have been used for extraction. Hydrocarbon mass removal data for liquid and vapor phase are presented in Tables 1 and 2, respectively. Mass removal and MTBE concentrations vs. time are plotted on graphs presented in Figures 3 and 4.

### ANTICIPATED FIRST QUARTER 2002 ACTIVITIES



**Groundwater Monitoring:** Blaine will gauge water levels, sample the monitoring wells using the non-purging method, and tabulate the data. The sampling event will take place concurrently with sampling at the Arco station located at 566 Hegenberger Road, north of the site. Arco and Shell will exchange water level and analytical data on these events. Cambria will prepare a report documenting those activities.

**Subsurface Investigation Work Plan:** We submitted a *Subsurface Investigation Work Plan* dated February 27, 2002 in response to Alameda County Health Care Services Agency (ACHCSA) correspondence dated January 4, 2002. This work plan proposes installation of one groundwater monitoring well. We are presently awaiting ACHCSA approval of this work plan.

**Surface Water and Storm Drain Sampling:** As proposed in our work plan, storm drain and canal points will be included in the future quarterly sampling events to monitor the condition of the nearest receptor.

**Interim Remedial Action:** Monthly extraction events will continue and will be reported in the first quarter report. Extraction from the tank backfill well will be switched from well BW-D to well BW-B, due to higher historic MTBE concentrations observed in this well.

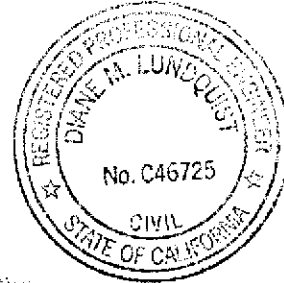
**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Diane Lundquist at (510) 420-3334 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**



Diane Lundquist, P.E.  
Principal Engineer



- Figures:
- 1 - Vicinity/Area Well Survey Map
  - 2 - Groundwater Elevation Contour Map
  - 3 - GWE/DVE Effect on MTBE Concentration – MW-1
  - 4 - GWE/DVE Effect on MTBE Concentration – MW-3

- Tables:
- 1 - Groundwater Extraction - Mass Removal Data
  - 2 - Vapor Extraction - Mass Removal Data

- Attachments:
- A - Blaine Groundwater Monitoring Report and Field Notes
  - B - Arco Groundwater Data

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, California 91510-7869

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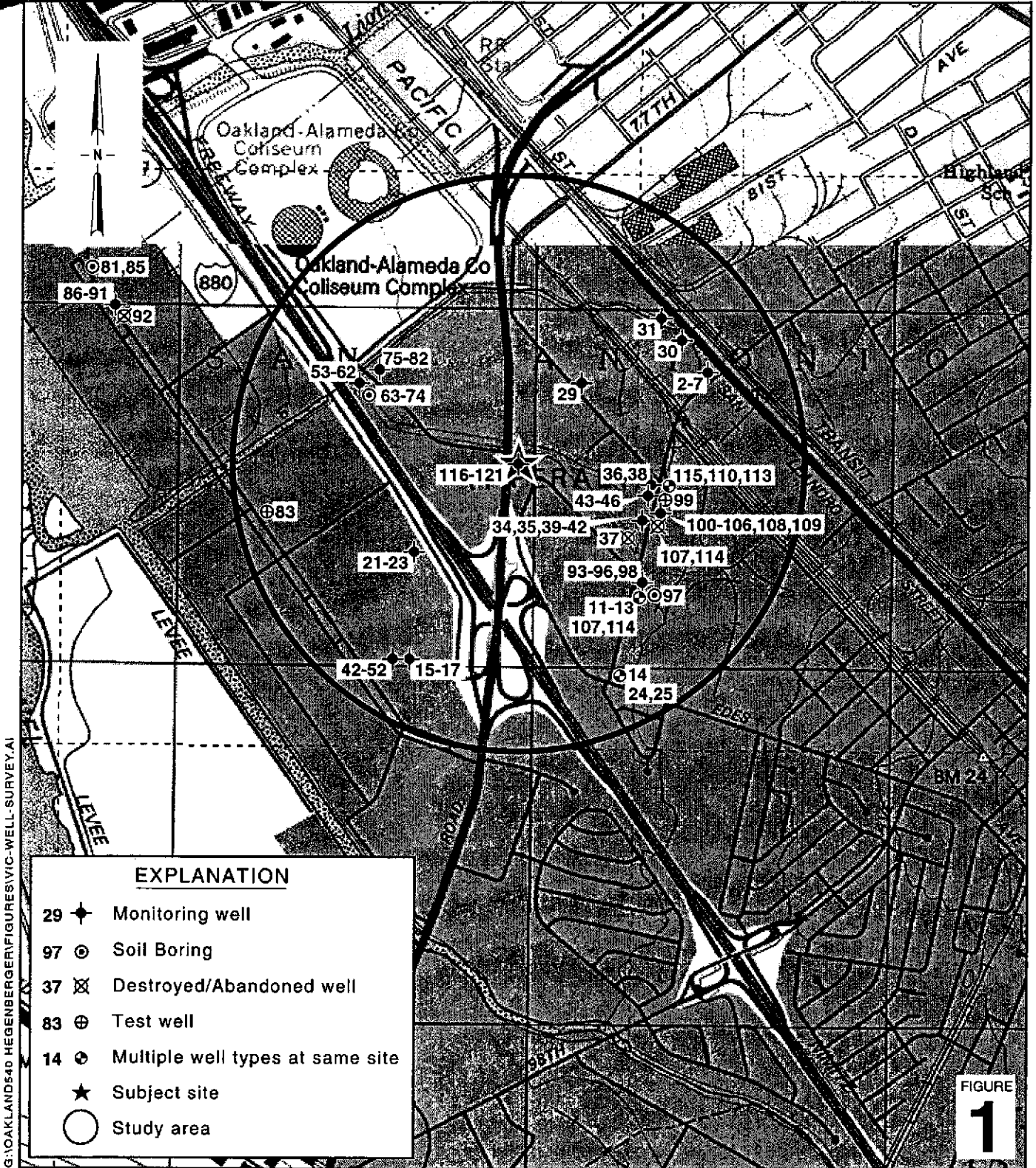


FIGURE 1

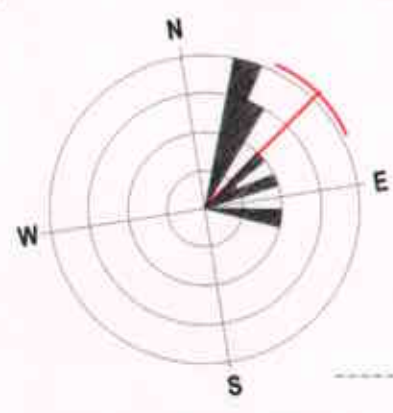
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SCALE 1:1/4 MILES

**Shell-branded Service Station**  
540 Hegenberger Road  
Oakland, California  
Incident #98995752

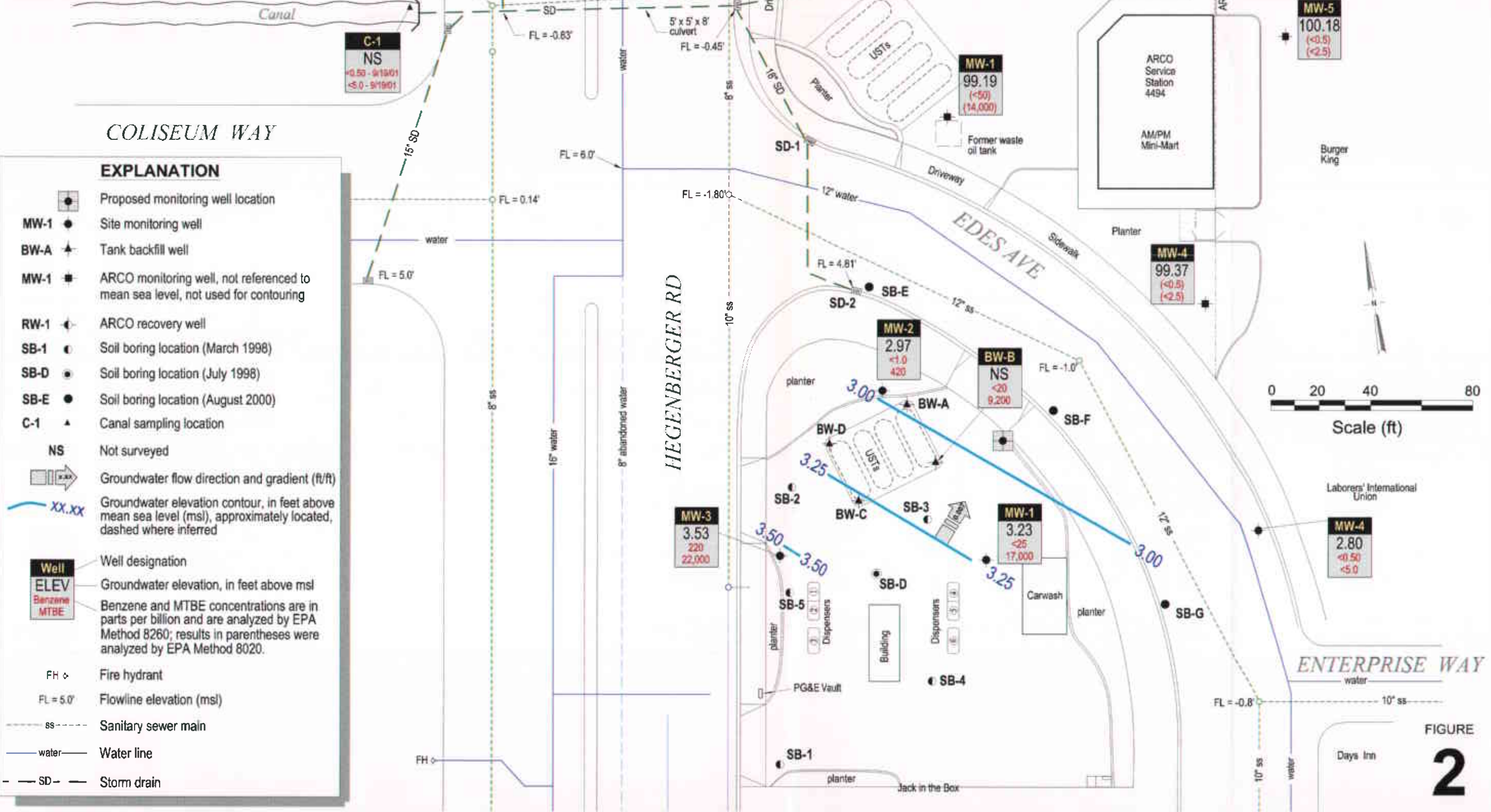


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**Vicinity / Area Well Survey Map**  
(1/2-Mile Radius)



Groundwater Gradient Direction  
August 1998 through December 2001  
(fourteen events)



COLISEUM WAY

HEGENBERGER RD

EDES AVE

ENTERPRISE WAY

**EXPLANATION**

- Proposed monitoring well location
  - MW-1** Site monitoring well
  - BW-A** Tank backfill well
  - MW-1** ARCO monitoring well, not referenced to mean sea level, not used for contouring
  - RW-1** ARCO recovery well
  - SB-1** Soil boring location (March 1998)
  - SB-D** Soil boring location (July 1998)
  - SB-E** Soil boring location (August 2000)
  - C-1** Canal sampling location
  - NS** Not surveyed
  - Groundwater flow direction and gradient (ft/ft)
  - Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred
- | Well | ELEV   | Benzene | MTBE   |
|------|--------|---------|--------|
| MW-1 | 97.73  | <0.5    | 440    |
| MW-3 | 97.51  | <0.5    | 3.0    |
| MW-6 | 100.39 | <0.5    | <2.5   |
| MW-5 | 100.18 | <0.5    | <2.5   |
| MW-1 | 99.19  | <50     | 14,000 |
| MW-4 | 99.37  | <0.5    | <2.5   |
| MW-2 | 2.97   | <1.0    | 420    |
| BW-B | NS     | <20     | 9,200  |
| MW-3 | 3.53   | 220     | 22,000 |
| MW-1 | 3.23   | <25     | 17,000 |
| MW-4 | 2.80   | <0.50   | <5.0   |
- FH** Fire hydrant
  - FL = 5.0'** Flowline elevation (msl)
  - ss** Sanitary sewer main
  - water** Water line
  - SD** Storm drain

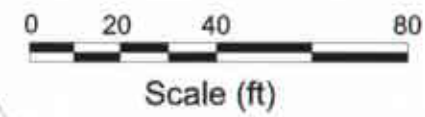


FIGURE  
**2**

**Groundwater Elevation  
Contour Map**

December 31, 2001



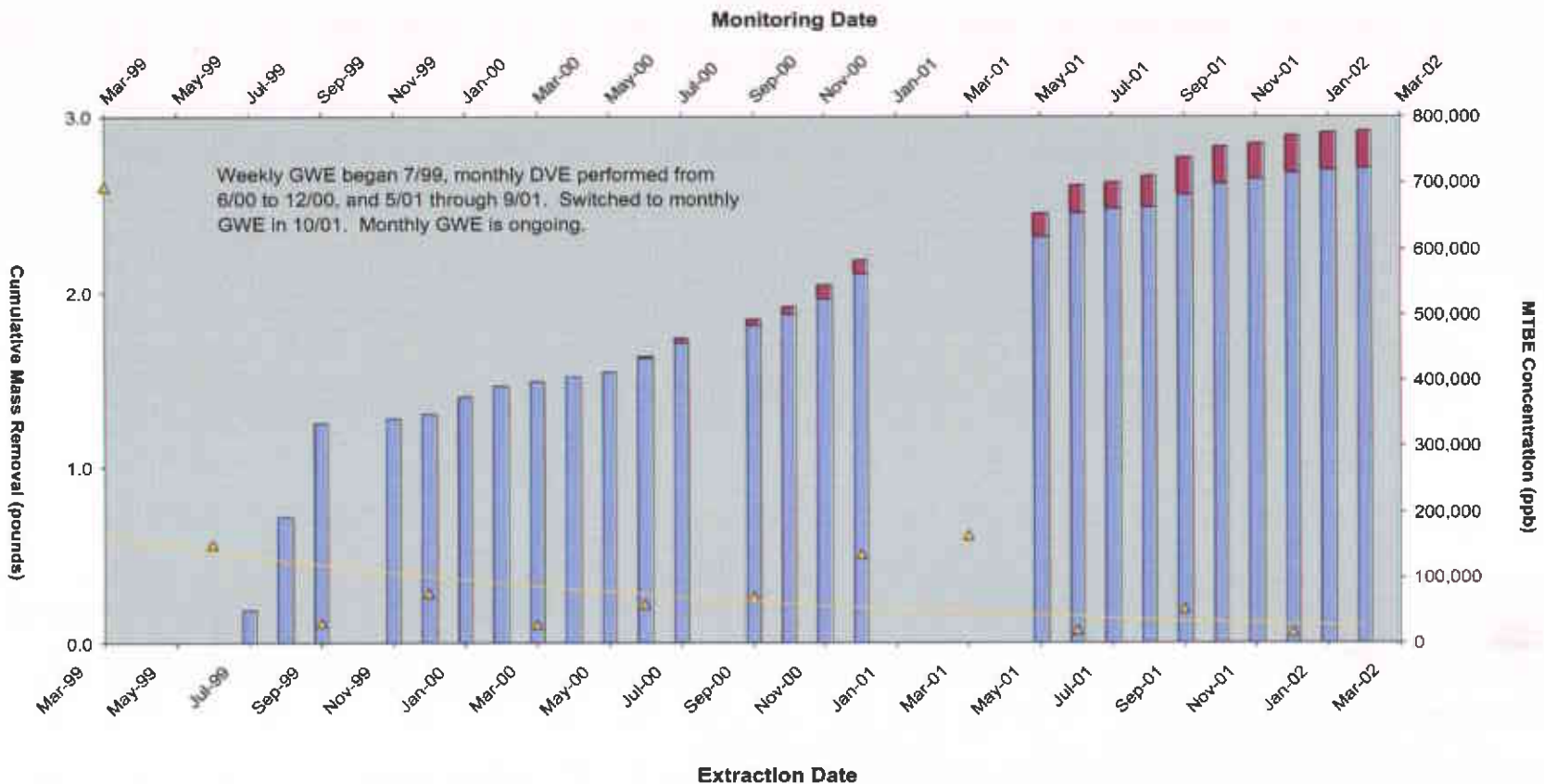
C A M B R I A

**Shell-branded Service Station**

540 Hegenberger Road  
Oakland, California  
Incident #98995752



### GWE/DVE effect on MTBE concentration 540 Hegenberger, Oakland - MW-1



| Date     | DTW-ft |
|----------|--------|
| 3/29/99  | 8.32   |
| 6/22/99  | 9.05   |
| 9/30/99  | 8.35   |
| 12/10/99 | 8.86   |
| 3/2/00   | 8.83   |
| 6/8/00   | 7.78   |
| 9/5/00   | 7.84   |
| 12/15/00 | 7.65   |
| 3/9/01   | 6.44   |
| 6/27/01  | 8.46   |
| 9/19/01  | 8.10   |
| 12/31/01 | 7.31   |

**EXPLANATION**

- (GWE) Cumulative MTBE liquid mass removed
- (DVE) Cumulative MTBE mass removed
- △ MTBE Concentration
- Expon. (MTBE Concentration)

**3** FIGURE

**Shell-branded Service Station**

540 Hegenberger Road

Oakland, California

Incident #98995752

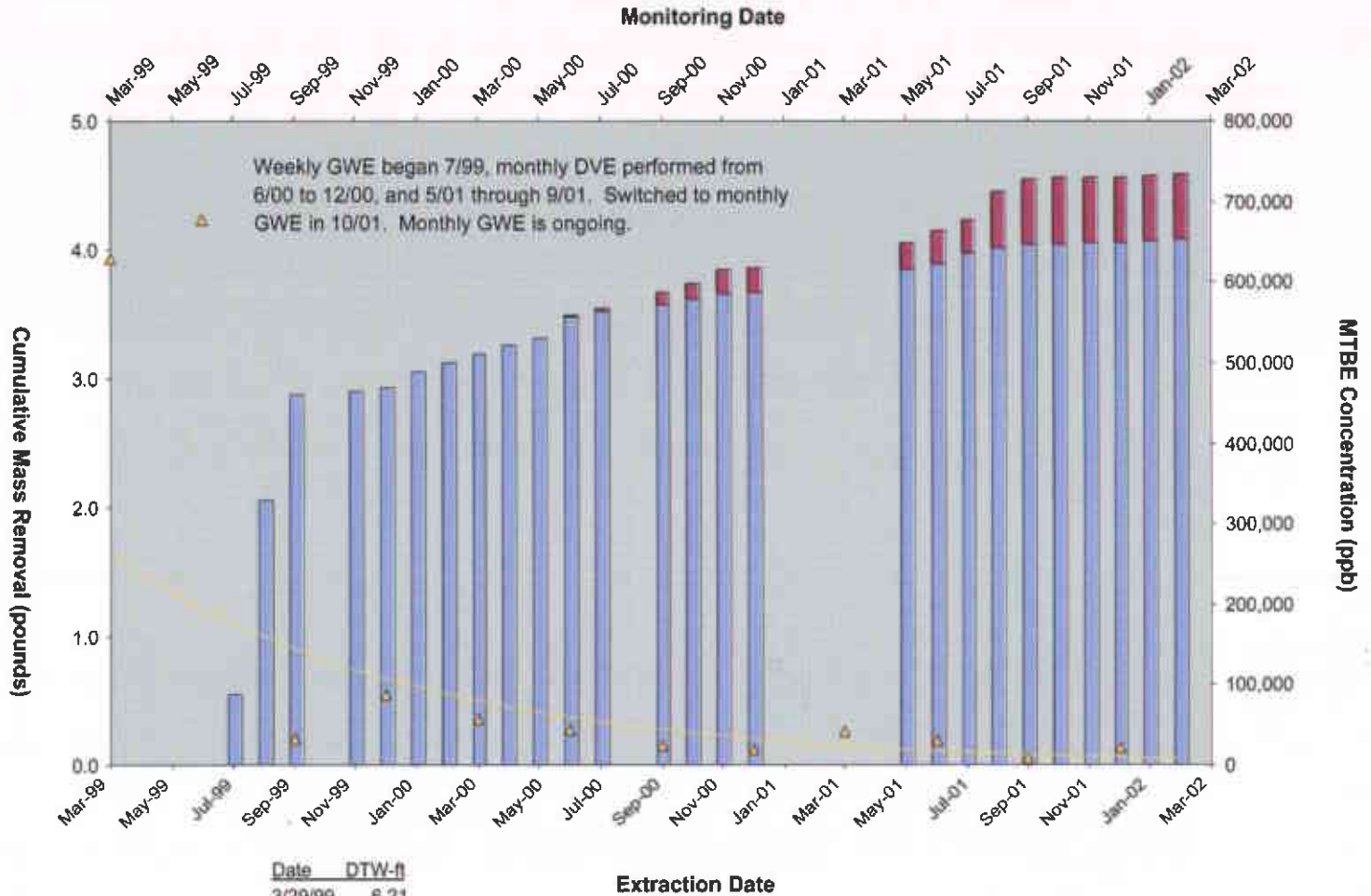


C A M B R I A

**GWE/DVE Effect on MTBE**

Well MW-1

### GWE/DVE effect on MTBE concentration 540 Hegenberger, Oakland - MW-3



| Date     | DTW-ft |
|----------|--------|
| 3/29/99  | 6.21   |
| 6/22/99  | 7.00   |
| 9/30/99  | 6.84   |
| 12/10/99 | 7.28   |
| 3/2/00   | 5.87   |
| 6/8/00   | 5.32   |
| 9/5/00   | 5.60   |
| 12/15/00 | 6.27   |
| 3/9/01   | 5.71   |
| 6/27/01  | 6.88   |
| 9/19/01  | 6.70   |
| 12/31/01 | 5.92   |

Extraction Date

**EXPLANATION**

- (GWE) Cumulative MTBE liquid mass removed
- (DVE) Cumulative MTBE mass removed
- MTBE Concentration
- Expon (MTBE Concentration)

**4** FIGURE

Shell-branded Service Station

540 Hegenberger Road

Oakland, California

Incident #98995752



C A M B R I A

GWE/DVE Effect on MTBE

Well MW-3



**Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California**

| Date Purged | Well ID | Volume Pumped (gal) | Cumulative Volume Pumped (gal) | Date Sampled | TPPH                     |                       |                               | Benzene                     |                          |                                  | MTBE                     |                       |                               |
|-------------|---------|---------------------|--------------------------------|--------------|--------------------------|-----------------------|-------------------------------|-----------------------------|--------------------------|----------------------------------|--------------------------|-----------------------|-------------------------------|
|             |         |                     |                                |              | 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) |
| 07/29/99    | BW-A    | 400                 | 400                            | 06/22/99     | 318                      | 0.00106               | 0.00106                       | <0.50                       | 0.00000                  | 0.00000                          | 4,470                    | 0.01492               | 0.01492                       |
| 08/04/99    | BW-A    | 2,000               | 2,400                          | 06/22/99     | 318                      | 0.00531               | 0.00637                       | <0.50                       | 0.00000                  | 0.00001                          | 4,470                    | 0.07460               | 0.08952                       |
| 08/11/99    | BW-A    | 2,437               | 4,837                          | 06/22/99     | 318                      | 0.00647               | 0.01284                       | <0.50                       | 0.00001                  | 0.00001                          | 4,470                    | 0.09090               | 0.18042                       |
| 08/20/99    | BW-A    | 1,213               | 6,050                          | 06/22/99     | 318                      | 0.00322               | 0.01605                       | <0.50                       | 0.00000                  | 0.00001                          | 4,470                    | 0.04524               | 0.22566                       |
| 08/30/99    | BW-A    | 2,673               | 8,723                          | 06/22/99     | 318                      | 0.00709               | 0.02315                       | <0.50                       | 0.00001                  | 0.00002                          | 4,470                    | 0.09970               | 0.32536                       |
| 09/03/99*   | BW-A    | 325                 | 9,048                          | 06/22/99     | 318                      | 0.00086               | 0.02401                       | <0.50                       | 0.00000                  | 0.00002                          | 4,470                    | 0.01212               | 0.33748                       |
| 09/10/99*   | BW-A    | 425                 | 9,148                          | 06/22/99     | 318                      | 0.00113               | 0.02514                       | <0.50                       | 0.00000                  | 0.00002                          | 4,470                    | 0.01585               | 0.35334                       |
| 09/23/99    | BW-A    | 615                 | 9,763                          | 06/22/99     | 318                      | 0.00163               | 0.02677                       | <0.50                       | 0.00000                  | 0.00002                          | 4,470                    | 0.02294               | 0.37628                       |
| 09/29/99    | BW-A    | 800                 | 10,563                         | 06/22/99     | 318                      | 0.00212               | 0.02889                       | <0.50                       | 0.00000                  | 0.00002                          | 4,470                    | 0.02984               | 0.40611                       |
| 11/05/99    | BW-A    | 675                 | 11,238                         | 06/22/99     | 318                      | 0.00179               | 0.03068                       | <0.50                       | 0.00000                  | 0.00002                          | 4,470                    | 0.02518               | 0.43129                       |
| 07/29/99    | BW-B    | 1,000               | 1,000                          | 06/22/99     | <250                     | 0.00104               | 0.00104                       | 2.5                         | 0.00002                  | 0.00002                          | 8,600                    | 0.07176               | 0.07176                       |
| 08/04/99    | BW-B    | 800                 | 1,800                          | 06/22/99     | <250                     | 0.00083               | 0.00188                       | 2.5                         | 0.00002                  | 0.00106                          | 8,600                    | 0.05741               | 0.12917                       |
| 08/11/99    | BW-B    | 2,213               | 4,013                          | 06/22/99     | <250                     | 0.00231               | 0.00419                       | 2.5                         | 0.00005                  | 0.00192                          | 8,600                    | 0.15881               | 0.28798                       |
| 08/20/99    | BW-B    | 1,213               | 5,226                          | 06/22/99     | <250                     | 0.00127               | 0.00545                       | 2.5                         | 0.00003                  | 0.00421                          | 8,600                    | 0.08705               | 0.37503                       |
| 08/30/99    | BW-B    | 877                 | 6,103                          | 06/22/99     | <250                     | 0.00091               | 0.00637                       | 2.5                         | 0.00002                  | 0.00547                          | 8,600                    | 0.06293               | 0.43796                       |
| 09/03/99*   | BW-B    | 325                 | 6,428                          | 06/22/99     | <250                     | 0.00034               | 0.00670                       | 2.5                         | 0.00001                  | 0.00637                          | 8,600                    | 0.02332               | 0.46128                       |
| 09/10/99*   | BW-B    | 425                 | 6,853                          | 06/22/99     | <250                     | 0.00044               | 0.00715                       | 2.5                         | 0.00001                  | 0.00671                          | 8,600                    | 0.03050               | 0.49178                       |
| 09/23/99    | BW-B    | 750                 | 7,603                          | 06/22/99     | <250                     | 0.00078               | 0.00793                       | 2.5                         | 0.00002                  | 0.00716                          | 8,600                    | 0.05382               | 0.54560                       |
| 09/29/99    | BW-B    | 600                 | 8,203                          | 06/22/99     | <250                     | 0.00063               | 0.00856                       | 2.5                         | 0.00001                  | 0.00794                          | 8,600                    | 0.04306               | 0.58866                       |
| 11/05/99    | BW-B    | 650                 | 8,853                          | 06/22/99     | <250                     | 0.00068               | 0.00923                       | 2.5                         | 0.00001                  | 0.00857                          | 8,600                    | 0.04664               | 0.63530                       |
| 07/29/99    | BW-C    | 300                 | 300                            | 06/22/99     | <50                      | 0.00006               | 0.00006                       | <0.50                       | 0.00000                  | 0.00000                          | 11,000                   | 0.02754               | 0.02754                       |
| 08/04/99    | BW-C    | 700                 | 1,000                          | 06/22/99     | <50                      | 0.00015               | 0.00021                       | <0.50                       | 0.00000                  | 0.00000                          | 11,000                   | 0.06425               | 0.09179                       |
| 08/11/99    | BW-C    | 0                   | 1,000                          | 06/22/99     | <50                      | 0.00000               | 0.00021                       | <0.50                       | 0.00000                  | 0.00000                          | 11,000                   | 0.00000               | 0.09179                       |
| 08/20/99    | BW-C    | 1,013               | 2,013                          | 06/22/99     | <50                      | 0.00021               | 0.00042                       | <0.50                       | 0.00000                  | 0.00000                          | 11,000                   | 0.09298               | 0.18477                       |
| 08/30/99    | BW-C    | 375                 | 2,388                          | 06/22/99     | <50                      | 0.00008               | 0.00050                       | <0.50                       | 0.00000                  | 0.00000                          | 11,000                   | 0.03442               | 0.21919                       |
| 09/03/99*   | BW-C    | 325                 | 2,713                          | 06/22/99     | <50                      | 0.00007               | 0.00057                       | <0.50                       | 0.00000                  | 0.00001                          | 11,000                   | 0.02983               | 0.24902                       |
| 09/10/99*   | BW-C    | 425                 | 3,138                          | 06/22/99     | <50                      | 0.00009               | 0.00065                       | <0.50                       | 0.00000                  | 0.00001                          | 11,000                   | 0.03901               | 0.28803                       |

**Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California**

| Date Purged | Well ID | Volume Pumped (gal) | Cumulative Volume Pumped (gal) | Date Sampled | TPPH                     |                       |                       | Benzene                     |                          |                          | MTBE                     |                       |                       |
|-------------|---------|---------------------|--------------------------------|--------------|--------------------------|-----------------------|-----------------------|-----------------------------|--------------------------|--------------------------|--------------------------|-----------------------|-----------------------|
|             |         |                     |                                |              | TPPH Concentration (ppb) | TPPH Removed (pounds) | TPPH To Date (pounds) | Benzene Concentration (ppb) | Benzene Removed (pounds) | Benzene To Date (pounds) | MTBE Concentration (ppb) | MTBE Removed (pounds) | MTBE To Date (pounds) |
| 09/23/99    | BW-C    | 750                 | 3,888                          | 06/22/99     | <50                      | 0.00016               | 0.00081               | <0.50                       | 0.00000                  | 0.00001                  | 11,000                   | 0.06884               | 0.35687               |
| 09/29/99    | BW-C    | 700                 | 4,588                          | 06/22/99     | <50                      | 0.00015               | 0.00096               | <0.50                       | 0.00000                  | 0.00001                  | 11,000                   | 0.06425               | 0.42112               |
| 11/05/99    | BW-C    | 550                 | 5,138                          | 06/22/99     | <50                      | 0.00011               | 0.00107               | <0.50                       | 0.00000                  | 0.00001                  | 11,000                   | 0.05048               | 0.47161               |
| 06/06/00    | BW-C    | 926                 | 6,064                          | 06/22/99     | <50                      | 0.00019               | 0.00127               | <0.50                       | 0.00000                  | 0.00001                  | 11,000                   | 0.08500               | 0.55660               |
| 09/07/00    | BW-C    | 1,000               | 7,064                          | 06/22/99     | <50                      | 0.00021               | 0.00147               | <0.50                       | 0.00000                  | 0.00001                  | 11,000                   | 0.09179               | 0.64839               |
| 07/29/99    | BW-D    | 1,500               | 1,500                          | 06/22/99     | <50                      | 0.00031               | 0.00031               | <0.500                      | 0.00000                  | 0.00000                  | 2,190                    | 0.02741               | 0.02741               |
| 08/04/99    | BW-D    | 250                 | 1,750                          | 06/22/99     | <50                      | 0.00005               | 0.00037               | <0.500                      | 0.00000                  | 0.00000                  | 2,190                    | 0.00457               | 0.03198               |
| 08/11/99    | BW-D    | 0                   | 1,750                          | 06/22/99     | <50                      | 0.00000               | 0.00037               | <0.500                      | 0.00000                  | 0.00000                  | 2,190                    | 0.00000               | 0.03198               |
| 08/20/99    | BW-D    | 1,213               | 2,963                          | 06/22/99     | <50                      | 0.00025               | 0.00062               | <0.500                      | 0.00000                  | 0.00001                  | 2,190                    | 0.02217               | 0.05415               |
| 08/30/99    | BW-D    | 280                 | 3,243                          | 06/22/99     | <50                      | 0.00006               | 0.00068               | <0.500                      | 0.00000                  | 0.00001                  | 2,190                    | 0.00512               | 0.05926               |
| 09/03/99*   | BW-D    | 325                 | 3,568                          | 06/22/99     | <50                      | 0.00007               | 0.00074               | <0.500                      | 0.00000                  | 0.00001                  | 2,190                    | 0.00594               | 0.06520               |
| 09/10/99*   | BW-D    | 425                 | 3,993                          | 06/22/99     | <50                      | 0.00009               | 0.00083               | <0.500                      | 0.00000                  | 0.00001                  | 2,190                    | 0.00777               | 0.07297               |
| 09/23/99    | BW-D    | 750                 | 4,743                          | 06/22/99     | <50                      | 0.00016               | 0.00099               | <0.500                      | 0.00000                  | 0.00001                  | 2,190                    | 0.01371               | 0.08667               |
| 09/29/99    | BW-D    | 700                 | 5,443                          | 06/22/99     | <50                      | 0.00015               | 0.00114               | <0.500                      | 0.00000                  | 0.00001                  | 2,190                    | 0.01279               | 0.09947               |
| 11/05/99    | BW-D    | 625                 | 6,068                          | 06/22/99     | <50                      | 0.00013               | 0.00127               | <0.500                      | 0.00000                  | 0.00001                  | 2,190                    | 0.01142               | 0.11089               |
| 10/22/01    | BW-D    | 2,100               | 8,168                          | 06/22/99     | <50                      | 0.00044               | 0.00170               | <0.500                      | 0.00000                  | 0.00002                  | 2,190                    | 0.03838               | 0.14926               |
| 11/06/01    | BW-D    | 2,600               | 10,768                         | 06/22/99     | <50                      | 0.00054               | 0.00225               | <0.500                      | 0.00001                  | 0.00002                  | 2,190                    | 0.04751               | 0.19678               |
| 07/29/99    | MW-1    | 150                 | 150                            | 06/22/99     | 20,000                   | 0.02503               | 0.02503               | 100                         | 0.00013                  | 0.00013                  | 150,000                  | 0.18775               | 0.18775               |
| 08/04/99    | MW-1    | 150                 | 300                            | 06/22/99     | 20,000                   | 0.02503               | 0.05007               | 100                         | 0.00013                  | 0.00025                  | 150,000                  | 0.18775               | 0.37550               |
| 08/11/99    | MW-1    | 15                  | 315                            | 06/22/99     | 20,000                   | 0.00250               | 0.05257               | 100                         | 0.00001                  | 0.00026                  | 150,000                  | 0.01877               | 0.39427               |
| 08/20/99    | MW-1    | 44                  | 359                            | 06/22/99     | 20,000                   | 0.00734               | 0.05991               | 100                         | 0.00004                  | 0.00030                  | 150,000                  | 0.05507               | 0.44934               |
| 08/30/99    | MW-1    | 218                 | 577                            | 06/22/99     | 20,000                   | 0.03638               | 0.09629               | 100                         | 0.00018                  | 0.00048                  | 150,000                  | 0.27286               | 0.72220               |
| 09/03/99*   | MW-1    | 125                 | 702                            | 06/22/99     | 20,000                   | 0.02086               | 0.11715               | 100                         | 0.00010                  | 0.00059                  | 150,000                  | 0.15646               | 0.87866               |
| 09/10/99*   | MW-1    | 75                  | 777                            | 06/22/99     | 20,000                   | 0.01252               | 0.12967               | 100                         | 0.00006                  | 0.00065                  | 150,000                  | 0.09387               | 0.97253               |
| 09/23/99    | MW-1    | 175                 | 952                            | 06/22/99     | 20,000                   | 0.02921               | 0.15888               | 100                         | 0.00015                  | 0.00079                  | 150,000                  | 0.21904               | 1.19157               |
| 09/29/99    | MW-1    | 50                  | 1,002                          | 06/22/99     | 20,000                   | 0.00834               | 0.16722               | 100                         | 0.00004                  | 0.00084                  | 150,000                  | 0.06258               | 1.25416               |
| 11/05/99    | MW-1    | 50                  | 1,052                          | 09/30/99     | <2,500                   | 0.00052               | 0.16774               | <25.0                       | 0.00001                  | 0.00084                  | 30,900                   | 0.01289               | 1.26705               |

**Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California**

| Date Purged | Well ID | Volume Pumped (gal) | Cumulative Volume Pumped (gal) | Date Sampled | TPPH                     |                       |                       | Benzene                     |                          |                          | MTBE                     |                       |                       |
|-------------|---------|---------------------|--------------------------------|--------------|--------------------------|-----------------------|-----------------------|-----------------------------|--------------------------|--------------------------|--------------------------|-----------------------|-----------------------|
|             |         |                     |                                |              | TPPH Concentration (ppb) | TPPH Removed (pounds) | TPPH To Date (pounds) | Benzene Concentration (ppb) | Benzene Removed (pounds) | Benzene To Date (pounds) | MTBE Concentration (ppb) | MTBE Removed (pounds) | MTBE To Date (pounds) |
| 11/19/99    | MW-1    | 22.5                | 1,075                          | 09/30/99     | <2,500                   | 0.00023               | 0.16798               | <25.0                       | 0.00000                  | 0.00084                  | 30,900                   | 0.00580               | 1.27285               |
| 11/24/99    | MW-1    | 25                  | 1,100                          | 09/30/99     | <2,500                   | 0.00026               | 0.16824               | <25.0                       | 0.00000                  | 0.00085                  | 30,900                   | 0.00645               | 1.27930               |
| 12/02/99    | MW-1    | 25                  | 1,125                          | 09/30/99     | <2,500                   | 0.00026               | 0.16850               | <25.0                       | 0.00000                  | 0.00085                  | 30,900                   | 0.00645               | 1.28574               |
| 12/17/99    | MW-1    | 25                  | 1,150                          | 12/10/99     | <50.0                    | 0.00001               | 0.16850               | 29.7                        | 0.00001                  | 0.00086                  | 76,300                   | 0.01592               | 1.30166               |
| 01/03/00    | MW-1    | 40                  | 1,190                          | 12/10/99     | <50.0                    | 0.00001               | 0.16851               | 29.7                        | 0.00001                  | 0.00086                  | 76,300                   | 0.02547               | 1.32713               |
| 01/07/00    | MW-1    | 0                   | 1,190                          | 12/10/99     | <50.0                    | 0.00000               | 0.16851               | 29.7                        | 0.00000                  | 0.00086                  | 76,300                   | 0.00000               | 1.32713               |
| 01/13/00    | MW-1    | 45                  | 1,235                          | 12/10/99     | <50.0                    | 0.00001               | 0.16852               | 29.7                        | 0.00001                  | 0.00088                  | 76,300                   | 0.02865               | 1.35578               |
| 01/12/00    | MW-1    | 35                  | 1,270                          | 12/10/99     | <50.0                    | 0.00001               | 0.16853               | 29.7                        | 0.00001                  | 0.00088                  | 76,300                   | 0.02228               | 1.37806               |
| 01/25/00    | MW-1    | 35                  | 1,305                          | 12/10/99     | <50.0                    | 0.00001               | 0.16854               | 29.7                        | 0.00001                  | 0.00089                  | 76,300                   | 0.02228               | 1.40034               |
| 02/01/00    | MW-1    | 22                  | 1,327                          | 12/10/99     | <50.0                    | 0.00000               | 0.16854               | 29.7                        | 0.00001                  | 0.00090                  | 76,300                   | 0.01401               | 1.41435               |
| 02/11/00    | MW-1    | 28                  | 1,355                          | 12/10/99     | <50.0                    | 0.00001               | 0.16855               | 29.7                        | 0.00001                  | 0.00091                  | 76,300                   | 0.01783               | 1.43218               |
| 02/15/00    | MW-1    | 25                  | 1,380                          | 12/10/99     | <50.0                    | 0.00001               | 0.16855               | 29.7                        | 0.00001                  | 0.00091                  | 76,300                   | 0.01592               | 1.44809               |
| 02/23/00    | MW-1    | 20                  | 1,400                          | 12/10/99     | <50.0                    | 0.00000               | 0.16856               | 29.7                        | 0.00000                  | 0.00092                  | 76,300                   | 0.01273               | 1.46083               |
| 03/02/00    | MW-1    | 7.5                 | 1,407                          | 03/02/00     | <2,500                   | 0.00008               | 0.16863               | <25.0                       | 0.00000                  | 0.00092                  | 27,600                   | 0.00173               | 1.46255               |
| 03/10/00    | MW-1    | 40                  | 1,447                          | 03/02/00     | <2,500                   | 0.00042               | 0.16905               | <25.0                       | 0.00000                  | 0.00092                  | 27,600                   | 0.00921               | 1.47177               |
| 03/15/00    | MW-1    | 25                  | 1,472                          | 03/02/00     | <2,500                   | 0.00026               | 0.16931               | <25.0                       | 0.00000                  | 0.00092                  | 27,600                   | 0.00576               | 1.47752               |
| 03/21/00    | MW-1    | 25                  | 1,497                          | 03/02/00     | <2,500                   | 0.00026               | 0.16957               | <25.0                       | 0.00000                  | 0.00093                  | 27,600                   | 0.00576               | 1.48328               |
| 03/27/00    | MW-1    | 30                  | 1,527                          | 03/02/00     | <2,500                   | 0.00031               | 0.16989               | <25.0                       | 0.00000                  | 0.00093                  | 27,600                   | 0.00691               | 1.49019               |
| 04/07/00    | MW-1    | 45                  | 1,572                          | 03/02/00     | <2,500                   | 0.00047               | 0.17036               | <25.0                       | 0.00000                  | 0.00094                  | 27,600                   | 0.01036               | 1.50056               |
| 04/13/00    | MW-1    | 30                  | 1,602                          | 03/02/00     | <2,500                   | 0.00031               | 0.17067               | <25.0                       | 0.00000                  | 0.00094                  | 27,600                   | 0.00691               | 1.50746               |
| 04/20/00    | MW-1    | 25                  | 1,627                          | 03/02/00     | <2,500                   | 0.00026               | 0.17093               | <25.0                       | 0.00000                  | 0.00094                  | 27,600                   | 0.00576               | 1.51322               |
| 04/26/00    | MW-1    | 25                  | 1,652                          | 03/02/00     | <2,500                   | 0.00026               | 0.17119               | <25.0                       | 0.00000                  | 0.00094                  | 27,600                   | 0.00576               | 1.51898               |
| 05/04/00    | MW-1    | 28                  | 1,680                          | 03/02/00     | <2,500                   | 0.00029               | 0.17148               | <25.0                       | 0.00000                  | 0.00095                  | 27,600                   | 0.00645               | 1.52543               |
| 05/09/00    | MW-1    | 45                  | 1,725                          | 03/02/00     | <2,500                   | 0.00047               | 0.17195               | <25.0                       | 0.00000                  | 0.00095                  | 27,600                   | 0.01036               | 1.53579               |
| 05/17/00    | MW-1    | 27                  | 1,752                          | 03/02/00     | <2,500                   | 0.00028               | 0.17223               | <25.0                       | 0.00000                  | 0.00095                  | 27,600                   | 0.00622               | 1.54201               |
| 05/22/00    | MW-1    | 25                  | 1,777                          | 03/02/00     | <2,500                   | 0.00026               | 0.17249               | <25.0                       | 0.00000                  | 0.00096                  | 27,600                   | 0.00576               | 1.54777               |
| 06/01/00    | MW-1    | 25                  | 1,802                          | 03/02/00     | <2,500                   | 0.00026               | 0.17275               | <25.0                       | 0.00000                  | 0.00096                  | 27,600                   | 0.00576               | 1.55353               |
| 06/06/00    | MW-1    | 175                 | 1,977                          | 03/02/00     | <2,500                   | 0.00183               | 0.17458               | <25.0                       | 0.00002                  | 0.00098                  | 27,600                   | 0.04030               | 1.59383               |
| 06/08/00    | MW-1    | 43                  | 2,020                          | 03/02/00     | <2,500                   | 0.00045               | 0.17503               | <25.0                       | 0.00000                  | 0.00098                  | 27,600                   | 0.00990               | 1.60373               |

**Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California**

| Date Purged | Well ID | Volume Pumped (gal) | Cumulative Volume Pumped (gal) | Date Sampled | TPPH                     |                       |                       | Benzene                     |                          |                          | MTBE                     |                       |                       |
|-------------|---------|---------------------|--------------------------------|--------------|--------------------------|-----------------------|-----------------------|-----------------------------|--------------------------|--------------------------|--------------------------|-----------------------|-----------------------|
|             |         |                     |                                |              | TPPH Concentration (ppb) | TPPH Removed (pounds) | TPPH To Date (pounds) | Benzene Concentration (ppb) | Benzene Removed (pounds) | Benzene To Date (pounds) | MTBE Concentration (ppb) | MTBE Removed (pounds) | MTBE To Date (pounds) |
| 06/15/00    | MW-1    | 29                  | 2,049                          | 06/08/00     | <2,000                   | 0.00024               | 0.17527               | <20.0                       | 0.00000                  | 0.00098                  | 67,600                   | 0.01636               | 1.62009               |
| 07/10/00    | MW-1    | 169                 | 2,218                          | 06/08/00     | <2,000                   | 0.00141               | 0.17668               | <20.0                       | 0.00001                  | 0.00100                  | 67,600                   | 0.09533               | 1.71542               |
| 09/07/00    | MW-1    | 100                 | 2,318                          | 09/05/00     | <10,000                  | 0.00417               | 0.18085               | 411                         | 0.00034                  | 0.00134                  | 115,000                  | 0.09596               | 1.81138               |
| 10/23/00*   | MW-1    | 100                 | 2,418                          | 09/05/00     | <10,000                  | 0.00417               | 0.18502               | 411                         | 0.00034                  | 0.00168                  | 71,100                   | 0.05933               | 1.87071               |
| 11/30/00    | MW-1    | 160                 | 2,578                          | 09/05/00     | <10,000                  | 0.00668               | 0.19170               | 411                         | 0.00055                  | 0.00223                  | 71,100                   | 0.09493               | 1.96563               |
| 12/21/00    | MW-1    | 125                 | 2,703                          | 12/15/00     | 35,600                   | 0.03713               | 0.22883               | 1,310                       | 0.00137                  | 0.00360                  | 136,000                  | 0.14185               | 2.10749               |
| 05/16/01    | MW-1    | 150                 | 2,853                          | 03/09/01     | <10,000                  | 0.00626               | 0.23509               | 1,390                       | 0.00174                  | 0.00534                  | 164,000                  | 0.20527               | 2.31276               |
| 06/19/01    | MW-1    | 100                 | 2,953                          | 03/09/01     | <10,000                  | 0.00417               | 0.23926               | 1,390                       | 0.00116                  | 0.00650                  | 164,000                  | 0.13685               | 2.44961               |
| 07/24/01    | MW-1    | 150                 | 3,103                          | 06/27/01     | <5,000                   | 0.00313               | 0.24239               | <50                         | 0.00003                  | 0.00653                  | 19,000                   | 0.02378               | 2.47339               |
| 08/17/01    | MW-1    | 100                 | 3,203                          | 06/27/01     | <5,000                   | 0.00209               | 0.24448               | <50                         | 0.00002                  | 0.00655                  | 19,000                   | 0.01585               | 2.48924               |
| 09/25/01    | MW-1    | 150                 | 3,353                          | 09/19/01     | <5,000                   | 0.00313               | 0.24761               | <50                         | 0.00003                  | 0.00658                  | 52,000                   | 0.06509               | 2.55433               |
| 10/22/01    | MW-1    | 150                 | 3,503                          | 09/19/01     | <5,000                   | 0.00313               | 0.25074               | <50                         | 0.00003                  | 0.00661                  | 52,000                   | 0.06509               | 2.61941               |
| 11/06/01    | MW-1    | 50                  | 3,553                          | 09/19/01     | <5,000                   | 0.00104               | 0.25178               | <50                         | 0.00001                  | 0.00662                  | 52,000                   | 0.02170               | 2.64111               |
| 12/04/01    | MW-1    | 100                 | 3,653                          | 09/19/01     | <5,000                   | 0.00209               | 0.25387               | <50                         | 0.00002                  | 0.00664                  | 52,000                   | 0.04339               | 2.68450               |
| 01/28/02    | MW-1    | 125                 | 3,778                          | 12/31/01     | <5,000                   | 0.00261               | 0.25647               | <25                         | 0.00001                  | 0.00666                  | 17,000                   | 0.01773               | 2.70223               |
| 02/18/02    | MW-1    | 50                  | 3,828                          | 12/31/01     | <5,000                   | 0.00104               | 0.25752               | <25                         | 0.00001                  | 0.00666                  | 17,000                   | 0.00709               | 2.70932               |
| 07/29/99    | MW-3    | 100                 | 100                            | 06/22/99     | 58,000                   | 0.04840               | 0.04840               | 6,600                       | 0.00551                  | 0.00551                  | 653,000                  | 0.54489               | 0.54489               |
| 08/04/99    | MW-3    | 100                 | 200                            | 06/22/99     | 58,000                   | 0.04840               | 0.09679               | 6,600                       | 0.00551                  | 0.01101                  | 653,000                  | 0.54489               | 1.08977               |
| 08/11/99    | MW-3    | 45                  | 245                            | 06/22/99     | 58,000                   | 0.02178               | 0.11857               | 6,600                       | 0.00248                  | 0.01349                  | 653,000                  | 0.24520               | 1.33497               |
| 08/20/99    | MW-3    | 55                  | 300                            | 06/22/99     | 58,000                   | 0.02662               | 0.14519               | 6,600                       | 0.00303                  | 0.01652                  | 653,000                  | 0.29969               | 1.63466               |
| 08/30/99    | MW-3    | 77                  | 377                            | 06/22/99     | 58,000                   | 0.03727               | 0.18246               | 6,600                       | 0.00424                  | 0.02076                  | 653,000                  | 0.41956               | 2.05422               |
| 09/03/99*   | MW-3    | 50                  | 427                            | 06/22/99     | 58,000                   | 0.02420               | 0.20666               | 6,600                       | 0.00275                  | 0.02352                  | 653,000                  | 0.27244               | 2.32667               |
| 09/10/99*   | MW-3    | 40                  | 467                            | 06/22/99     | 58,000                   | 0.01936               | 0.22602               | 6,600                       | 0.00220                  | 0.02572                  | 653,000                  | 0.21795               | 2.54462               |
| 09/23/99    | MW-3    | 10                  | 477                            | 06/22/99     | 58,000                   | 0.00484               | 0.23085               | 6,600                       | 0.00055                  | 0.02627                  | 653,000                  | 0.05449               | 2.59911               |
| 09/29/99    | MW-3    | 50                  | 527                            | 06/22/99     | 58,000                   | 0.02420               | 0.25505               | 6,600                       | 0.00275                  | 0.02902                  | 653,000                  | 0.27244               | 2.87155               |
| 11/05/99    | MW-3    | 50                  | 577                            | 09/30/99     | 4,360                    | 0.00182               | 0.25687               | 121                         | 0.00005                  | 0.02907                  | 35,600                   | 0.01485               | 2.88640               |
| 11/19/99    | MW-3    | 22.5                | 600                            | 09/30/99     | 4,360                    | 0.00082               | 0.25769               | 121                         | 0.00002                  | 0.02910                  | 35,600                   | 0.00668               | 2.89309               |
| 11/24/99    | MW-3    | 28                  | 628                            | 09/30/99     | 4,360                    | 0.00102               | 0.25871               | 121                         | 0.00003                  | 0.02912                  | 35,600                   | 0.00832               | 2.90141               |

**Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California**

| Date Purged | Well ID | Volume Pumped (gal) | Cumulative Volume Pumped (gal) | Date Sampled | TPPH                     |                       |                       | Benzene                     |                          |                          | MTBE                     |                       |                       |
|-------------|---------|---------------------|--------------------------------|--------------|--------------------------|-----------------------|-----------------------|-----------------------------|--------------------------|--------------------------|--------------------------|-----------------------|-----------------------|
|             |         |                     |                                |              | TPPH Concentration (ppb) | TPPH Removed (pounds) | TPPH To Date (pounds) | Benzene Concentration (ppb) | Benzene Removed (pounds) | Benzene To Date (pounds) | MTBE Concentration (ppb) | MTBE Removed (pounds) | MTBE To Date (pounds) |
| 12/02/99    | MW-3    | 25                  | 653                            | 09/30/99     | 4,360                    | 0.00091               | 0.25962               | 121                         | 0.00003                  | 0.02915                  | 35,600                   | 0.00743               | 2.90883               |
| 12/17/99    | MW-3    | 35                  | 688                            | 12/10/99     | 4,220                    | 0.00123               | 0.26085               | 973                         | 0.00028                  | 0.02943                  | 88,200                   | 0.02576               | 2.93459               |
| 01/03/00    | MW-3    | 40                  | 728                            | 12/10/99     | 4,220                    | 0.00141               | 0.26226               | 973                         | 0.00032                  | 0.02976                  | 88,200                   | 0.02944               | 2.96403               |
| 01/07/00    | MW-3    | 0                   | 728                            | 12/10/99     | 4,220                    | 0.00000               | 0.26226               | 973                         | 0.00000                  | 0.02976                  | 88,200                   | 0.00000               | 2.96403               |
| 01/13/00    | MW-3    | 45                  | 773                            | 12/10/99     | 4,220                    | 0.00158               | 0.26385               | 973                         | 0.00037                  | 0.03012                  | 88,200                   | 0.03312               | 2.99715               |
| 01/21/00    | MW-3    | 35                  | 808                            | 12/10/99     | 4,220                    | 0.00123               | 0.26508               | 973                         | 0.00028                  | 0.03041                  | 88,200                   | 0.02576               | 3.02291               |
| 01/25/00    | MW-3    | 38                  | 846                            | 12/10/99     | 4,220                    | 0.00134               | 0.26642               | 973                         | 0.00031                  | 0.03072                  | 88,200                   | 0.02797               | 3.05088               |
| 02/01/00    | MW-3    | 23                  | 869                            | 12/10/99     | 4,220                    | 0.00081               | 0.26723               | 973                         | 0.00019                  | 0.03090                  | 88,200                   | 0.01693               | 3.06780               |
| 02/11/00    | MW-3    | 22                  | 891                            | 12/10/99     | 4,220                    | 0.00077               | 0.26800               | 973                         | 0.00018                  | 0.03108                  | 88,200                   | 0.01619               | 3.08399               |
| 02/15/00    | MW-3    | 22                  | 913                            | 12/10/99     | 4,220                    | 0.00077               | 0.26877               | 973                         | 0.00018                  | 0.03126                  | 88,200                   | 0.01619               | 3.10019               |
| 02/23/00    | MW-3    | 30                  | 943                            | 12/10/99     | 4,220                    | 0.00106               | 0.26983               | 973                         | 0.00024                  | 0.03150                  | 88,200                   | 0.02208               | 3.12226               |
| 03/02/00    | MW-3    | 7                   | 950                            | 03/02/00     | 65,300                   | 0.00381               | 0.27365               | 5,210                       | 0.00030                  | 0.03181                  | 59,800                   | 0.00349               | 3.12576               |
| 03/10/00    | MW-3    | 42                  | 992                            | 03/02/00     | 65,300                   | 0.02289               | 0.29653               | 5,210                       | 0.00183                  | 0.03363                  | 59,800                   | 0.02096               | 3.14672               |
| 03/15/00    | MW-3    | 20                  | 1,012                          | 03/02/00     | 65,300                   | 0.01090               | 0.30743               | 5,210                       | 0.00087                  | 0.03450                  | 59,800                   | 0.00998               | 3.15670               |
| 03/21/00    | MW-3    | 25                  | 1,037                          | 03/02/00     | 65,300                   | 0.01362               | 0.32105               | 5,210                       | 0.00109                  | 0.03559                  | 59,800                   | 0.01247               | 3.16917               |
| 03/27/00    | MW-3    | 40                  | 1,077                          | 03/02/00     | 65,300                   | 0.02180               | 0.34285               | 5,210                       | 0.00174                  | 0.03733                  | 59,800                   | 0.01996               | 3.18913               |
| 04/07/00    | MW-3    | 45                  | 1,122                          | 03/02/00     | 65,300                   | 0.02452               | 0.36737               | 5,210                       | 0.00196                  | 0.03929                  | 59,800                   | 0.02245               | 3.21158               |
| 04/13/00    | MW-3    | 30                  | 1,152                          | 03/02/00     | 65,300                   | 0.01635               | 0.38371               | 5,210                       | 0.00130                  | 0.04059                  | 59,800                   | 0.01497               | 3.22655               |
| 04/20/00    | MW-3    | 25                  | 1,177                          | 03/02/00     | 65,300                   | 0.01362               | 0.39733               | 5,210                       | 0.00109                  | 0.04168                  | 59,800                   | 0.01247               | 3.23903               |
| 04/26/00    | MW-3    | 30                  | 1,207                          | 03/02/00     | 65,300                   | 0.01635               | 0.41368               | 5,210                       | 0.00130                  | 0.04298                  | 59,800                   | 0.01497               | 3.25400               |
| 05/04/00    | MW-3    | 26                  | 1,233                          | 03/02/00     | 65,300                   | 0.01417               | 0.42785               | 5,210                       | 0.00113                  | 0.04411                  | 59,800                   | 0.01297               | 3.26697               |
| 05/09/00    | MW-3    | 45                  | 1,278                          | 03/02/00     | 65,300                   | 0.02452               | 0.45237               | 5,210                       | 0.00196                  | 0.04607                  | 59,800                   | 0.02245               | 3.28943               |
| 05/17/00    | MW-3    | 27                  | 1,305                          | 03/02/00     | 65,300                   | 0.01471               | 0.46708               | 5,210                       | 0.00117                  | 0.04724                  | 59,800                   | 0.01347               | 3.30290               |
| 05/22/00    | MW-3    | 25                  | 1,330                          | 03/02/00     | 65,300                   | 0.01362               | 0.48070               | 5,210                       | 0.00109                  | 0.04833                  | 59,800                   | 0.01247               | 3.31537               |
| 06/01/00    | MW-3    | 25                  | 1,355                          | 03/02/00     | 65,300                   | 0.01362               | 0.49432               | 5,210                       | 0.00109                  | 0.04942                  | 59,800                   | 0.01247               | 3.32785               |
| 06/06/00    | MW-3    | 240                 | 1,595                          | 03/02/00     | 65,300                   | 0.13077               | 0.62510               | 5,210                       | 0.01043                  | 0.05985                  | 59,800                   | 0.11976               | 3.44761               |
| 06/08/00    | MW-3    | 42                  | 1,637                          | 03/02/00     | 65,300                   | 0.02289               | 0.64798               | 5,210                       | 0.00183                  | 0.06168                  | 59,800                   | 0.02096               | 3.46857               |
| 06/15/00    | MW-3    | 29                  | 1,666                          | 06/08/00     | 72,700                   | 0.01759               | 0.66557               | 3,570                       | 0.00086                  | 0.06254                  | 44,400                   | 0.01074               | 3.47931               |
| 07/10/00    | MW-3    | 101                 | 1,767                          | 06/08/00     | 72,700                   | 0.06127               | 0.72684               | 3,570                       | 0.00301                  | 0.06555                  | 44,400                   | 0.03742               | 3.51673               |



**Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California**

| Date Purged                     | Well ID | Volume Pumped (gal) | Cumulative Volume Pumped (gal) | Date Sampled | TPPH                          |                       |                               | Benzene                     |                          |                                  | MTBE                     |                       |                               |
|---------------------------------|---------|---------------------|--------------------------------|--------------|-------------------------------|-----------------------|-------------------------------|-----------------------------|--------------------------|----------------------------------|--------------------------|-----------------------|-------------------------------|
|                                 |         |                     |                                |              | 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) |
| 09/07/00                        | MW-3    | 265                 | 2,032                          | 09/05/00     | 26,100                        | 0.05771               | 0.78456                       | 959                         | 0.00212                  | 0.06767                          | 24,000                   | 0.05307               | 3.56980                       |
| 10/23/00*                       | MW-3    | 250                 | 2,282                          | 09/05/00     | 26,100                        | 0.05445               | 0.83901                       | 959                         | 0.00200                  | 0.06967                          | 24,000                   | 0.05007               | 3.61987                       |
| 11/30/00                        | MW-3    | 210                 | 2,492                          | 09/05/00     | 26,100                        | 0.04574               | 0.88474                       | 959                         | 0.00168                  | 0.07135                          | 24,000                   | 0.04206               | 3.66192                       |
| 12/21/00                        | MW-3    | 150                 | 2,642                          | 12/15/00     | 5,190                         | 0.00650               | 0.89124                       | 438                         | 0.00055                  | 0.07190                          | 11,800                   | 0.01477               | 3.67669                       |
| 05/16/01                        | MW-3    | 500                 | 3,142                          | 03/09/01     | 5,880                         | 0.02453               | 0.91577                       | 472                         | 0.00197                  | 0.07387                          | 41,800                   | 0.17440               | 3.85109                       |
| 06/19/01                        | MW-3    | 100                 | 3,242                          | 03/09/01     | 5,880                         | 0.00491               | 0.92068                       | 472                         | 0.00039                  | 0.07426                          | 41,800                   | 0.03488               | 3.88597                       |
| 07/24/01                        | MW-3    | 350                 | 3,592                          | 06/27/01     | 9,100                         | 0.02658               | 0.94725                       | 330                         | 0.00096                  | 0.07522                          | 31,000                   | 0.09054               | 3.97650                       |
| 08/17/01                        | MW-3    | 150                 | 3,742                          | 06/27/01     | 9,100                         | 0.01139               | 0.95864                       | 330                         | 0.00041                  | 0.07467                          | 31,000                   | 0.03880               | 4.01530                       |
| 09/25/01                        | MW-3    | 300                 | 4,042                          | 09/19/01     | 790                           | 0.00198               | 0.96062                       | 14                          | 0.00004                  | 0.07526                          | 8,100                    | 0.02028               | 4.03558                       |
| 10/22/01                        | MW-3    | 150                 | 4,192                          | 09/19/01     | 790                           | 0.00099               | 0.96161                       | 14                          | 0.00002                  | 0.07469                          | 8,100                    | 0.01014               | 4.04572                       |
| 11/06/01                        | MW-3    | 50                  | 4,242                          | 09/19/01     | 790                           | 0.00033               | 0.96194                       | 14                          | 0.00001                  | 0.07527                          | 8,100                    | 0.00338               | 4.04910                       |
| 12/04/01                        | MW-3    | 150                 | 4,392                          | 09/19/01     | 790                           | 0.00099               | 0.96293                       | 14                          | 0.00002                  | 0.07471                          | 8,100                    | 0.01014               | 4.05924                       |
| 01/28/02                        | MW-3    | 50                  | 4,442                          | 12/31/01     | <5,000                        | 0.00104               | 0.96397                       | 220                         | 0.00009                  | 0.07536                          | 22,000                   | 0.00918               | 4.06842                       |
| 02/18/02                        | MW-3    | 49                  | 4,491                          | 12/31/01     | <5,000                        | 0.00102               | 0.96499                       | 220                         | 0.00009                  | 0.07480                          | 22,000                   | 0.00900               | 4.07741                       |
| 10/22/01                        | BW-D**  | 2,100               | 2,100                          | 06/27/01     | <5,000                        | 0.04381               | 0.04381                       | <50                         | 0.00044                  | 0.07515                          | 40,000                   | 0.70093               | 0.70093                       |
| 11/06/01                        | BW-D**  | 2,600               | 4,700                          | 06/27/01     | <5,000                        | 0.05424               | 0.09805                       | <50                         | 0.00054                  | 0.00054                          | 40,000                   | 0.86781               | 1.56874                       |
| 12/04/01                        | BW-D**  | 1,500               | 6,200                          | 06/27/01     | <5,000                        | 0.03129               | 0.12934                       | <50                         | 0.00031                  | 0.07546                          | 40,000                   | 0.50066               | 2.06940                       |
| 01/28/02                        | BW-D**  | 2,520               | 8,720                          | 12/31/01     | <2,000                        | 0.02103               | 0.15037                       | <20                         | 0.00021                  | 0.00075                          | 9,200                    | 0.19346               | 2.26286                       |
| 02/18/02                        | BW-D**  | 2,451               | 11,171                         | 12/31/01     | <2,000                        | 0.02045               | 0.17082                       | <20                         | 0.00020                  | 0.07566                          | 9,200                    | 0.18816               | 2.45101                       |
| <b>Total Gallons Extracted:</b> |         | <b>57,738</b>       |                                |              | <b>Total Pounds Removed:</b>  |                       |                               | <b>1.43696</b>              |                          |                                  | <b>11.14951</b>          |                       |                               |
|                                 |         |                     |                                |              | <b>Total Gallons Removed:</b> |                       |                               | <b>0.23557</b>              |                          |                                  | <b>1.79831</b>           |                       |                               |

**Abbreviations & Notes:**

TPPH = Total purgeable hydrocarbons as gasoline

MtBE = Methyl tert-butyl ether

ppb = Parts per billion

gal = Gallon

**Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California**

| Date Purged | Well ID | Volume Pumped (gal) | Cumulative Volume Pumped (gal) | Date Sampled | TPPH                     |                       |                               | Benzene                     |                          |                                  | MTBE                     |                       |                               |
|-------------|---------|---------------------|--------------------------------|--------------|--------------------------|-----------------------|-------------------------------|-----------------------------|--------------------------|----------------------------------|--------------------------|-----------------------|-------------------------------|
|             |         |                     |                                |              | 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) |

\* = Groundwater extracted per well estimated; subcontractor did not report individual well volumes

\*\* = Concentrations for tank backfill well BW-D taken from nearest sampled tank backfill well, BW-B.

Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10<sup>6</sup>µg) 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

Concentrations based on most recent groundwater monitoring results

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

Groundwater extracted by vacuum trucks provided by Onyx. Water disposed of at a Martinez Refinery.

**Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California**

| Date                         | Well ID | Interval Hours of Operation (hours) | System Flow Rate (CFM) | Hydrocarbon Concentrations |         |        | TPHg                       |                             | Benzene                       |                                | MTBE                       |                             |                          |  |  |
|------------------------------|---------|-------------------------------------|------------------------|----------------------------|---------|--------|----------------------------|-----------------------------|-------------------------------|--------------------------------|----------------------------|-----------------------------|--------------------------|--|--|
|                              |         |                                     |                        | TPHg                       | Benzene | MTBE   | TPHg Removal Rate (#/hour) | Cumulative TPHg Removed (#) | Benzene Removal Rate (#/hour) | Cumulative Benzene Removed (#) | MTBE Removal Rate (#/hour) | Cumulative MTBE Removed (#) |                          |  |  |
|                              |         |                                     |                        |                            |         |        |                            |                             |                               |                                |                            |                             |                          |  |  |
|                              |         |                                     |                        |                            |         |        |                            |                             |                               |                                |                            |                             | (Concentrations in ppmv) |  |  |
| 06/06/00                     | MW-1    | 3.00                                | 12.76                  | 4.4                        | 0.192   | 20.7   | 0.001                      | 0.002                       | 0.000                         | 0.000                          | 0.004                      | 0.011                       |                          |  |  |
| 07/10/00                     | MW-1    | 3.00                                | 11                     | <28                        | <0.31   | 30     | 0.002                      | 0.008                       | 0.000                         | 0.000                          | 0.005                      | 0.024                       |                          |  |  |
| 09/07/00                     | MW-1    | 2.00                                | 2.4                    | 25.4                       | 2.51    | 138    | 0.001                      | 0.010                       | 0.000                         | 0.000                          | 0.005                      | 0.033                       |                          |  |  |
| 10/23/00                     | MW-1    | 4.00                                | 0.7                    | 1,650                      | 61.6    | 392    | 0.015                      | 0.072                       | 0.001                         | 0.002                          | 0.004                      | 0.048                       |                          |  |  |
| 11/30/00                     | MW-1    | 4.00                                | 7.0                    | 561                        | <1.57   | 62.8   | 0.052                      | 0.282                       | 0.000                         | 0.003                          | 0.006                      | 0.073                       |                          |  |  |
| 12/21/00                     | MW-1    | 3.60                                | 2.1                    | <2.838                     | <0.031  | <0.277 | 0.000                      | 0.282                       | 0.000                         | 0.003                          | 0.000                      | 0.073                       |                          |  |  |
| 05/16/01                     | MW-1    | 4.00                                | 28.4                   | 400                        | 0.26    | 44     | 0.152                      | 0.889                       | 0.000                         | 0.003                          | 0.017                      | 0.141                       |                          |  |  |
| 06/19/01                     | MW-1    | 3.83                                | 5.8                    | 350                        | <0.40   | 52     | 0.027                      | 0.993                       | 0.000                         | 0.003                          | 0.004                      | 0.157                       |                          |  |  |
| 07/24/01                     | MW-1    | 4.00                                | 10.3                   | <5.0                       | <0.050  | <0.10  | 0.000                      | 0.995                       | 0.000                         | 0.003                          | 0.000                      | 0.157                       |                          |  |  |
| 08/17/01                     | MW-1    | 4.00                                | 15.1                   | 1,900                      | 7.3     | 51     | 0.384                      | 2.529                       | 0.001                         | 0.008                          | 0.011                      | 0.199                       |                          |  |  |
| 09/25/01                     | MW-1    | 4.00                                | 5.8                    | 160                        | <0.10   | 37     | 0.012                      | 2.578                       | 0.000                         | 0.008                          | 0.003                      | 0.211                       |                          |  |  |
| 06/06/00                     | MW-3    | 3.50                                | 9.35                   | 1,371                      | 27.6    | 32     | 0.171                      | 0.600                       | 0.003                         | 0.011                          | 0.004                      | 0.014                       |                          |  |  |
| 07/10/00                     | MW-3    | 2.00                                | 11                     | 564                        | 8.9     | 76     | 0.083                      | 0.766                       | 0.001                         | 0.013                          | 0.011                      | 0.037                       |                          |  |  |
| 09/07/00                     | MW-3    | 4.00                                | 4.7                    | 2,832                      | 109     | 244    | 0.178                      | 1.477                       | 0.006                         | 0.038                          | 0.016                      | 0.100                       |                          |  |  |
| 10/23/00                     | MW-3    | 4.00                                | 1.4                    | 3,040                      | 45.6    | 323    | 0.057                      | 1.705                       | 0.001                         | 0.041                          | 0.006                      | 0.125                       |                          |  |  |
| 11/30/00                     | MW-3    | 2.00                                | 2.5                    | 23,800                     | 59.9    | 974    | 0.795                      | 3.296                       | 0.002                         | 0.045                          | 0.033                      | 0.191                       |                          |  |  |
| 12/21/00                     | MW-3    | 4.50                                | 3.0                    | <2.838                     | <0.031  | <0.277 | 0.000                      | 3.296                       | 0.000                         | 0.045                          | 0.000                      | 0.191                       |                          |  |  |
| 05/16/01                     | MW-3    | 4.25                                | 0.9                    | 21,000                     | 64      | 270    | 0.253                      | 4.370                       | 0.001                         | 0.048                          | 0.003                      | 0.205                       |                          |  |  |
| 06/19/01                     | MW-3    | 5.83                                | 2.4                    | 14,000                     | 62      | 300    | 0.449                      | 6.988                       | 0.002                         | 0.058                          | 0.010                      | 0.263                       |                          |  |  |
| 07/24/01                     | MW-3    | 4.00                                | 5.3                    | <5.0                       | 0.10    | 0.80   | 0.000                      | 6.989                       | 0.000                         | 0.058                          | 0.000                      | 0.263                       |                          |  |  |
| 08/17/01                     | MW-3    | 4.00                                | 11.0                   | 11,000                     | 53      | 290    | 1.618                      | 13.459                      | 0.007                         | 0.087                          | 0.044                      | 0.438                       |                          |  |  |
| 09/25/01                     | MW-3    | 4.00                                | 3.2                    | 19,000                     | 79      | 410    | 0.813                      | 16.710                      | 0.003                         | 0.099                          | 0.018                      | 0.509                       |                          |  |  |
| <b>Total Pounds Removed:</b> |         |                                     |                        |                            |         |        | <b>TPHg =</b>              | <b>19.289</b>               | <b>Benzene =</b>              | <b>0.107</b>                   | <b>MTBE =</b>              | <b>0.720</b>                |                          |  |  |

**Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California**

**Abbreviations and Notes:**

CFM = Cubic feet per minute

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12) by modified EPA Method 8015 in 1 liter tedlar bag samples

ppmv = Parts per million by volume

# = Pounds

TPHG, Benzene, and MTBE analyzed by EPA Method 8015/8020 in 1 liter tedlar bag samples

TPHg / Benzene / MTBE removal rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.

(Rate = Concentration (ppmv) x system flow rate (cfm) x (1lb-mole/386ft<sup>3</sup>) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE)  
x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

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

**ATTACHMENT A**  
**Blaine Groundwater Monitoring Report**  
**and Field Notes**



**BLAINE**  
TECH SERVICES INC.



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January 22, 2002

Karen Petryna  
Equiva Services LLC  
P.O. Box 7869  
Burbank, CA 91510-7869

Fourth Quarter 2001 Groundwater Monitoring at  
Shell-branded Service Station  
540 Hegenberger Road  
Oakland, CA

Monitoring performed on December 31, 2001

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Groundwater Monitoring Report 011231-CW-1

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

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

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

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart  
Project Coordinator

LG/jt

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

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

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**540 Hegenberger Road**  
**Oakland, CA**  
**WIC #204-5508-5900**

| Well ID     | Date       | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | GW<br>Elevation<br>(MSL) | DO<br>Reading<br>(ppm) |
|-------------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|------------------------|
| MW-1 (a)    | 08/26/1998 | 2,700          | 28          | 55          | 59          | 39          | 33,000                 | NA                     | 10.54        | 7.91                       | 2.63                     | 1.8                    |
| MW-1 (b)    | 08/26/1998 | <1,000         | 22          | <10         | <10         | <10         | 17,000                 | NA                     | 10.54        | 7.91                       | 2.63                     | 2.2                    |
| MW-1        | 12/28/1998 | <5,000         | <50.0       | <50.0       | <50.0       | <50.0       | 153,000                | 33,000                 | 10.54        | 8.75                       | 1.79                     | 1.9                    |
| MW-1        | 03/29/1999 | <2,000         | <20.0       | <20.0       | <20.0       | <20.0       | 693,000                | NA                     | 10.54        | 8.32                       | 2.22                     | 2.0                    |
| MW-1        | 06/22/1999 | 20,000         | <200        | <200        | <200        | <200        | 150,000                | NA                     | 10.54        | 9.05                       | 1.49                     | 1.7                    |
| MW-1        | 09/30/1999 | <2,500         | <25.0       | <25.0       | <25.0       | <25.0       | 30,900                 | NA                     | 10.54        | 8.35                       | 2.19                     | 2.6                    |
| MW-1        | 11/19/1999 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 10.54        | 9.58                       | 0.96                     | NA                     |
| MW-1        | 11/24/1999 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 10.54        | 9.65                       | 0.89                     | NA                     |
| MW-1        | 12/02/1999 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 10.54        | 9.55                       | 0.99                     | NA                     |
| MW-1        | 12/10/1999 | <50.0          | 29.7        | <20.0       | <20.0       | <20.0       | 76,300                 | NA                     | 10.54        | 8.86                       | 1.68                     | 1.2                    |
| MW-1        | 03/02/2000 | <2,500         | <25.0       | <25.0       | <25.0       | <25.0       | 27,600                 | NA                     | 10.54        | 8.83                       | 1.71                     | 3.2                    |
| MW-1        | 06/08/2000 | <2,000         | <20.0       | <20.0       | <20.0       | <20.0       | 59,000                 | 67,600                 | 10.54        | 7.78                       | 2.76                     | 1.9                    |
| MW-1        | 09/05/2000 | <10,000        | 411         | <100        | <100        | <100        | 71,100                 | 115,000e               | 10.54        | 7.84                       | 2.70                     | NA                     |
| MW-1        | 12/15/2000 | 35,600         | 1,310       | <50.0       | <50.0       | <50.0       | 136,000                | f                      | 10.54        | 7.65                       | 2.89                     | NA                     |
| MW-1        | 03/09/2001 | <10,000        | 1,390       | <100        | <100        | <100        | 89,600                 | 164,000                | 10.54        | 6.44                       | 4.10                     | NA                     |
| MW-1        | 06/27/2001 | <5,000         | <50         | <50         | <50         | <50         | NA                     | 19,000                 | 10.54        | 8.46                       | 2.08                     | NA                     |
| MW-1        | 09/19/2001 | <5,000         | <50         | <50         | <50         | <50         | NA                     | 52,000                 | 10.54        | 8.10                       | 2.44                     | NA                     |
| MW-1        | 12/31/2001 | <5,000         | <25         | <25         | <25         | <25         | NA                     | 17,000                 | 10.54        | 7.31                       | 3.23                     | NA                     |
| MW-2 (a)    | 08/26/1998 | <250           | 3.2         | <2.5        | <2.5        | <2.5        | 4,000                  | NA                     | 9.21         | 7.18                       | 2.03                     | 2.4                    |
| MW-2 (b)    | 08/26/1998 | <250           | 3.1         | <2.5        | <2.5        | <2.5        | 4,800                  | NA                     | 9.21         | 7.18                       | 2.03                     | 2.7                    |
| MW-2 (D)(b) | 08/26/1998 | <250           | 4.8         | <2.5        | <2.5        | 6.0         | 3,300                  | NA                     | 9.21         | 7.18                       | 2.03                     | 2.7                    |
| MW-2        | 12/28/1998 | <50.0          | <0.500      | <0.500      | <0.500      | <0.500      | 28.8                   | NA                     | 9.21         | 7.34                       | 1.87                     | 2.1                    |
| MW-2        | 03/29/1999 | 235            | <0.500      | <0.500      | <0.500      | 3.4         | 101                    | NA                     | 9.21         | 6.85                       | 2.36                     | 2.0                    |
| MW-2        | 06/22/1999 | <50            | <0.50       | <0.50       | <0.50       | <0.50       | <2.5                   | NA                     | 9.21         | 7.10                       | 2.11                     | 1.9                    |
| MW-2        | 09/30/1999 | <50.0          | <0.500      | <0.500      | <0.500      | <0.500      | 1,700                  | NA                     | 9.21         | 8.06                       | 1.15                     | 1.0                    |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**540 Hegenberger Road**  
**Oakland, CA**  
**WIC #204-5508-5900**

| Well ID  | Date       | TPPH<br>(ug/L) | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | GW<br>Elevation<br>(MSL) | DO<br>Reading<br>(ppm) |
|----------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|------------------------|
| MW-2     | 12/10/1999 | <50.0          | <0.500      | <0.500      | <0.500      | <0.500      | <2.50                  | NA                     | 9.21         | 8.61                       | 0.60                     | 1.4                    |
| MW-2     | 03/02/2000 | <500           | 11.5        | <5.00       | <5.00       | <5.00       | 5,280                  | NA                     | 9.21         | 6.33                       | 2.88                     | 0.4                    |
| MW-2     | 06/08/2000 | <50.0          | 0.670       | <0.500      | <0.500      | <0.500      | 3,160                  | NA                     | 9.21         | 6.87                       | 2.34                     | 1.6                    |
| MW-2     | 09/05/2000 | <1,000         | <10.0       | <10.0       | <10.0       | <10.0       | 9,600                  | NA                     | 9.21         | 6.79                       | 2.42                     | NA                     |
| MW-2     | 12/15/2000 | <200           | <2.00       | <2.00       | <2.00       | <2.00       | 6,320                  | NA                     | 9.21         | 6.76                       | 2.45                     | NA                     |
| MW-2     | 03/09/2001 | <500           | <5.00       | <5.00       | <5.00       | <5.00       | 17,200                 | NA                     | 9.21         | 6.28                       | 2.93                     | NA                     |
| MW-2     | 06/27/2001 | <100           | 1.4         | <1.0        | <1.0        | <2.0        | NA                     | 470                    | 9.21         | 7.12                       | 2.09                     | NA                     |
| MW-2     | 09/19/2001 | <50            | <0.50       | <0.50       | <0.50       | <0.50       | NA                     | 330                    | 9.21         | 7.17                       | 2.04                     | NA                     |
| MW-2     | 12/31/2001 | <100           | <1.0        | <1.0        | <1.0        | <1.0        | NA                     | 420                    | 9.21         | 6.24                       | 2.97                     | NA                     |
| MW-3 (a) | 08/26/1998 | 2,300          | 180         | 330         | <0.50       | 420         | 44,000                 | NA                     | 9.45         | 6.52                       | 2.93                     | 1.8                    |
| MW-3 (b) | 08/26/1998 | <50            | <0.50       | <0.50       | <0.50       | <0.50       | 52,000                 | 75,000                 | 9.45         | 6.52                       | 2.93                     | 2.3                    |
| MW-3     | 12/28/1998 | <5,00          | 139         | <50.0       | <50.0       | <50.0       | 15,100                 | NA                     | 9.45         | 6.73                       | 2.72                     | 1.7                    |
| MW-3     | 03/29/1999 | 52,500         | 5,500       | 6,900       | 1,360       | 6,250       | 508,000                | 630,000 (c)            | 9.45         | 6.21                       | 3.24                     | 2.1                    |
| MW-3     | 06/22/1999 | 58,000         | 6,600       | 9,850       | 1,640       | 6,950       | 677,000                | 653,000                | 9.45         | 7.00                       | 2.45                     | 1.3                    |
| MW-3     | 09/30/1999 | 4,360          | 121         | 122         | 36.1        | 647         | 33,700                 | 35,600                 | 9.45         | 6.84                       | 2.61                     | 0.6                    |
| MW-3     | 11/19/1999 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 9.45         | 7.93                       | 1.52                     | NA                     |
| MW-3     | 11/24/1999 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 9.45         | 8.25                       | 1.20                     | NA                     |
| MW-3     | 12/02/1999 | NA             | NA          | NA          | NA          | NA          | NA                     | NA                     | 9.45         | 7.55                       | 1.90                     | NA                     |
| MW-3     | 12/10/1999 | 4,220          | 973         | 26.3        | 273         | 584         | 88,200                 | NA                     | 9.45         | 7.28                       | 2.17                     | 2.5                    |
| MW-3     | 03/02/2000 | 65,300         | 5,210       | 10,300      | 2,650       | 15,100      | 56,800                 | 59,800e                | 9.45         | 5.87                       | 3.58                     | d                      |
| MW-3     | 06/08/2000 | 72,700         | 3,570       | 10,200      | 2,100       | 13,400      | 44,400                 | NA                     | 9.45         | 5.32                       | 4.13                     | 1.1                    |
| MW-3     | 09/05/2000 | 26,100         | 959         | 2,910       | 1,090       | 5,640       | 24,000                 | NA                     | 9.45         | 5.60                       | 3.85                     | NA                     |
| MW-3     | 12/15/2000 | 5,190          | 438         | 8.39        | 483         | 530         | 19,100                 | 11,800f                | 9.45         | 6.27                       | 3.18                     | NA                     |
| MW-3     | 03/09/2001 | 5,880          | 472         | 42.2        | 392         | 1,290       | 41,800                 | NA                     | 9.45         | 5.71                       | 3.74                     | NA                     |
| MW-3     | 06/27/2001 | 9,100          | 330         | 79          | 140         | 1,600       | NA                     | 31,000                 | 9.45         | 6.88                       | 2.57                     | NA                     |
| MW-3     | 09/19/2001 | 790            | 14          | 18          | 17          | 67          | NA                     | 8,100                  | 9.45         | 6.70                       | 2.75                     | NA                     |

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**540 Hegenberger Road**  
**Oakland, CA**  
**WIC #204-5508-5900**

| Well ID | Date       | TPPH<br>(ug/L)   | B<br>(ug/L) | T<br>(ug/L) | E<br>(ug/L) | X<br>(ug/L) | MTBE<br>8020<br>(ug/L) | MTBE<br>8260<br>(ug/L) | TOC<br>(MSL) | Depth to<br>Water<br>(ft.) | GW<br>Elevation<br>(MSL) | DO<br>Reading<br>(ppm) |
|---------|------------|------------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|------------------------|
| MW-3    | 12/31/2001 | <5,000           | 220         | <50         | 86          | <50         | NA                     | 22,000                 | 9.45         | 5.92                       | 3.53                     | NA                     |
| MW-4    | 09/25/2000 | NA               | NA          | NA          | NA          | NA          | NA                     | NA                     | 9.88         | 7.64                       | 2.24                     | NA                     |
| MW-4    | 12/15/2000 | <50.0            | <0.500      | <0.500      | <0.500      | <0.500      | <2.50                  | NA                     | 9.88         | 7.55                       | 2.33                     | NA                     |
| MW-4    | 03/09/2001 | <50.0            | <0.500      | 0.730       | <0.500      | 0.529       | 3.16                   | NA                     | 9.88         | 7.04                       | 2.84                     | NA                     |
| MW-4    | 06/27/2001 | <50              | <0.50       | <0.50       | <0.50       | <0.50       | NA                     | <5.0                   | 9.88         | 7.76                       | 2.12                     | NA                     |
| MW-4    | 09/19/2001 | <50              | <0.50       | <0.50       | <0.50       | <0.50       | NA                     | <5.0                   | 9.88         | 7.69                       | 2.19                     | NA                     |
| MW-4    | 12/31/2001 | <50              | <0.50       | <0.50       | <0.50       | <0.50       | NA                     | <5.0                   | 9.88         | 7.08                       | 2.80                     | NA                     |
| C-1     | 09/19/2001 | <50              | <0.50       | <0.50       | <0.50       | <0.50       | NA                     | <5.0                   | NA           | 1.44                       | NA                       | NA                     |
| SD-1    | 09/19/2001 | Unable to sample |             | NA          | NA          | NA          | NA                     | NA                     | NA           | NA                         | NA                       | NA                     |
| SD-2    | 09/19/2001 | Unable to sample |             | NA          | NA          | NA          | NA                     | NA                     | NA           | NA                         | NA                       | NA                     |
| BW-A    | 06/22/1999 | 318              | <0.50       | <0.50       | 0.590       | 1.48        | 4,470                  | NA                     | NA           | 4.71                       | NA                       | 1.1                    |
| BW-B    | 06/22/1999 | <250             | <2.5        | <2.5        | <2.5        | <2.5        | 8,600                  | NA                     | NA           | 5.90                       | NA                       | 1.2                    |
| BW-B    | 06/27/2001 | <5,000           | <50         | <50         | <50         | <50         | NA                     | 40,000                 | NA           | 5.83                       | NA                       | NA                     |
| BW-B    | 12/31/2001 | <2,000           | <20         | <20         | <20         | <20         | NA                     | 9,200                  | NA           | 4.19                       | NA                       | NA                     |
| BW-C    | 06/22/1999 | <50              | <0.50       | <0.50       | <0.50       | 0.98        | 11,000                 | NA                     | NA           | 5.91                       | NA                       | 1.6                    |
| BW-D    | 06/22/1999 | <50.0            | <0.500      | <0.500      | <0.500      | <0.500      | 2,190                  | NA                     | NA           | 4.78                       | NA                       | 1.4                    |



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**540 Hegenberger Road**  
**Oakland, CA**  
**WIC #204-5508-5900**

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

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 27, 2001, analyzed by EPA Method 8015.

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 27, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ppm = Parts per million

ug/L = Parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

Notes:

a = pre-purge

b = post purge

c = Lab confirmed MTBE by mistake. MTBE value at MW-1 should have been confirmed instead.

d = DO reading not taken.

e = Sample was analyzed outside of the EPA recommended holding time.

f = The second highest MTBE hit was mistakenly confirmed. MTBE for MW-1 should have been confirmed.

Site surveyed September 21, 2000 by Virgil Chavez Land Surveying of Vallejo, California.

C-1 is a canal sample location.

SD-1 and SD-2 are storm drains.



Report Number : 24135

Date : 1/11/2002

Nick Sudano  
Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Subject : 5 Water Samples  
Project Name : 540 Hegenberger Road, Oakland  
Project Number : 011231-CW-1  
P.O. Number : 98995752

Dear Mr. Sudano,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Report Number : 24135

Date : 1/11/2002

Subject : 5 Water Samples  
Project Name : 540 Hegenberger Road, Oakland  
Project Number : 011231-CW-1  
P.O. Number : 98995752

## Case Narrative

The Method Blank associated with samples MW-1, MW-2, MW-3, and BW-B contained 0.65 ug/L Toluene. Since Toluene was not detected above the reporting limit in the samples, or was reported at a concentration greater than 5 times this value, no data were flagged.

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800



Report Number : 24135

Date : 1/11/2002

Project Name : 540 Hegenberger Road, Oakland

Project Number : 011231-CW-1

Sample : MW-1

Matrix : Water

Lab Number : 24135-01

Sample Date :12/31/2001

| Parameter                   | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene                     | < 25           | 25                     | ug/L       | EPA 8260B       | 1/5/2002      |
| Toluene                     | < 25           | 25                     | ug/L       | EPA 8260B       | 1/5/2002      |
| Ethylbenzene                | < 25           | 25                     | ug/L       | EPA 8260B       | 1/5/2002      |
| Total Xylenes               | < 25           | 25                     | ug/L       | EPA 8260B       | 1/5/2002      |
| Methyl-t-butyl ether (MTBE) | 17000          | 250                    | ug/L       | EPA 8260B       | 1/5/2002      |
| TPH as Gasoline             | < 5000         | 5000                   | ug/L       | EPA 8260B       | 1/5/2002      |
| Toluene - d8 (Surr)         | 98.0           |                        | % Recovery | EPA 8260B       | 1/5/2002      |
| 4-Bromofluorobenzene (Surr) | 93.4           |                        | % Recovery | EPA 8260B       | 1/5/2002      |

Sample : MW-2

Matrix : Water

Lab Number : 24135-02

Sample Date :12/31/2001

| Parameter                   | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene                     | < 1.0          | 1.0                    | ug/L       | EPA 8260B       | 1/6/2002      |
| Toluene                     | < 1.0          | 1.0                    | ug/L       | EPA 8260B       | 1/6/2002      |
| Ethylbenzene                | < 1.0          | 1.0                    | ug/L       | EPA 8260B       | 1/6/2002      |
| Total Xylenes               | < 1.0          | 1.0                    | ug/L       | EPA 8260B       | 1/6/2002      |
| Methyl-t-butyl ether (MTBE) | 420            | 10                     | ug/L       | EPA 8260B       | 1/6/2002      |
| TPH as Gasoline             | < 100          | 100                    | ug/L       | EPA 8260B       | 1/6/2002      |
| Toluene - d8 (Surr)         | 99.0           |                        | % Recovery | EPA 8260B       | 1/6/2002      |
| 4-Bromofluorobenzene (Surr) | 103            |                        | % Recovery | EPA 8260B       | 1/6/2002      |

Approved By:  Joel Kiff



Report Number : 24135

Date : 1/11/2002

Project Name : 540 Hegenberger Road, Oakland

Project Number : 011231-CW-1

Sample : MW-3

Matrix : Water

Lab Number : 24135-03

Sample Date :12/31/2001

| Parameter                          | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|---------------|
| <b>Benzene</b>                     | 220            | 50                     | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>Toluene</b>                     | < 50           | 50                     | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>Ethylbenzene</b>                | 86             | 50                     | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>Total Xylenes</b>               | < 50           | 50                     | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>Methyl-t-butyl ether (MTBE)</b> | 22000          | 500                    | ug/L       | EPA 8260B       | 1/8/2002      |
| <b>TPH as Gasoline</b>             | < 5000         | 5000                   | ug/L       | EPA 8260B       | 1/5/2002      |
| Toluene - d8 (Surr)                | 97.7           |                        | % Recovery | EPA 8260B       | 1/5/2002      |
| 4-Bromofluorobenzene (Surr)        | 95.2           |                        | % Recovery | EPA 8260B       | 1/5/2002      |

Sample : MW-4

Matrix : Water

Lab Number : 24135-04

Sample Date :12/31/2001

| Parameter                          | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|---------------|
| <b>Benzene</b>                     | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>Toluene</b>                     | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>Ethylbenzene</b>                | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>Total Xylenes</b>               | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>Methyl-t-butyl ether (MTBE)</b> | < 5.0          | 5.0                    | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>TPH as Gasoline</b>             | < 50           | 50                     | ug/L       | EPA 8260B       | 1/5/2002      |
| Toluene - d8 (Surr)                | 99.2           |                        | % Recovery | EPA 8260B       | 1/5/2002      |
| 4-Bromofluorobenzene (Surr)        | 103            |                        | % Recovery | EPA 8260B       | 1/5/2002      |

Approved By:  Joel Kiff





Report Number : 24135

Date : 1/11/2002

Project Name : 540 Hegenberger Road, Oakland

Project Number : 011231-CW-1

Sample : BW-B

Matrix : Water

Lab Number : 24135-05

Sample Date :12/31/2001

| Parameter                          | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|---------------|
| <b>Benzene</b>                     | < 20           | 20                     | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>Toluene</b>                     | < 20           | 20                     | ug/L       | EPA 8260B       | 1/8/2002      |
| <b>Ethylbenzene</b>                | < 20           | 20                     | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>Total Xylenes</b>               | < 20           | 20                     | ug/L       | EPA 8260B       | 1/5/2002      |
| <b>Methyl-t-butyl ether (MTBE)</b> | 9200           | 20                     | ug/L       | EPA 8260B       | 1/11/2002     |
| <b>TPH as Gasoline</b>             | < 2000         | 2000                   | ug/L       | EPA 8260B       | 1/5/2002      |
| Toluene - d8 (Surr)                | 99.3           |                        | % Recovery | EPA 8260B       | 1/5/2002      |
| 4-Bromofluorobenzene (Surr)        | 93.7           |                        | % Recovery | EPA 8260B       | 1/5/2002      |

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 24135

Date : 1/11/2002

**QC Report : Method Blank Data**

Project Name : **540 Hegenberger Road, Oakland**

Project Number : **011231-CW-1**

| <u>Parameter</u>            | <u>Measured Value</u> | <u>Method Reporting Limit</u> | <u>Units</u> | <u>Analysis Method</u> | <u>Date Analyzed</u> |
|-----------------------------|-----------------------|-------------------------------|--------------|------------------------|----------------------|
| Benzene                     | < 0.50                | 0.50                          | ug/L         | EPA 8260B              | 1/7/2002             |
| Toluene                     | 0.65                  | 0.50                          | ug/L         | EPA 8260B              | 1/7/2002             |
| Ethylbenzene                | < 0.50                | 0.50                          | ug/L         | EPA 8260B              | 1/7/2002             |
| Total Xylenes               | < 0.50                | 0.50                          | ug/L         | EPA 8260B              | 1/7/2002             |
| Methyl-t-butyl ether (MTBE) | < 0.50                | 0.50                          | ug/L         | EPA 8260B              | 1/7/2002             |
| TPH as Gasoline             | < 50                  | 50                            | ug/L         | EPA 8260B              | 1/7/2002             |
| Toluene - d8 (Surr)         | 99.9                  |                               | %            | EPA 8260B              | 1/7/2002             |
| 4-Bromofluorobenzene (Surr) | 113                   |                               | %            | EPA 8260B              | 1/7/2002             |
| Benzene                     | < 0.50                | 0.50                          | ug/L         | EPA 8260B              | 1/4/2002             |
| Toluene                     | < 0.50                | 0.50                          | ug/L         | EPA 8260B              | 1/4/2002             |
| Ethylbenzene                | < 0.50                | 0.50                          | ug/L         | EPA 8260B              | 1/4/2002             |
| Total Xylenes               | < 0.50                | 0.50                          | ug/L         | EPA 8260B              | 1/4/2002             |
| Methyl-t-butyl ether (MTBE) | < 0.50                | 0.50                          | ug/L         | EPA 8260B              | 1/4/2002             |
| TPH as Gasoline             | < 50                  | 50                            | ug/L         | EPA 8260B              | 1/4/2002             |
| Toluene - d8 (Surr)         | 99.6                  |                               | %            | EPA 8260B              | 1/4/2002             |
| 4-Bromofluorobenzene (Surr) | 102                   |                               | %            | EPA 8260B              | 1/4/2002             |

| <u>Parameter</u> | <u>Measured Value</u> | <u>Method Reporting Limit</u> | <u>Units</u> | <u>Analysis Method</u> | <u>Date Analyzed</u> |
|------------------|-----------------------|-------------------------------|--------------|------------------------|----------------------|
|------------------|-----------------------|-------------------------------|--------------|------------------------|----------------------|

Approved By:  \_\_\_\_\_  
Joel Kiff

KIFF ANALYTICAL, LLC  
720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 24135

Date : 1/11/2002

**QC Report : Matrix Spike/ Matrix Spike Duplicate**


Project Name : **540 Hegenberger Road,**

Project Number : **011231-CW-1**

| Parameter            | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|----------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Benzene              | 24134-01      | 0.66         | 39.0        | 39.0             | 38.6                | 38.9                          | ug/L  | EPA 8260B       | 1/7/2002      | 97.4                         | 98.0                                   | 0.639                  | 70-130                             | 25                           |
| Toluene              | 24134-01      | 4.7          | 39.0        | 39.0             | 42.3                | 42.0                          | ug/L  | EPA 8260B       | 1/7/2002      | 96.4                         | 95.6                                   | 0.807                  | 70-130                             | 25                           |
| Tert-Butanol         | 24134-01      | 5.5          | 195         | 195              | 173                 | 172                           | ug/L  | EPA 8260B       | 1/7/2002      | 86.0                         | 85.4                                   | 0.718                  | 70-130                             | 25                           |
| Methyl-t-Butyl Ether | 24134-01      | <0.50        | 39.0        | 39.0             | 40.6                | 40.1                          | ug/L  | EPA 8260B       | 1/7/2002      | 104                          | 103                                    | 1.11                   | 70-130                             | 25                           |
| Benzene              | 24137-04      | <0.50        | 40.0        | 40.0             | 37.6                | 37.4                          | ug/L  | EPA 8260B       | 1/4/2002      | 94.0                         | 93.4                                   | 0.587                  | 70-130                             | 25                           |
| Toluene              | 24137-04      | <0.50        | 40.0        | 40.0             | 37.8                | 37.9                          | ug/L  | EPA 8260B       | 1/4/2002      | 94.4                         | 94.6                                   | 0.212                  | 70-130                             | 25                           |
| Tert-Butanol         | 24137-04      | <5.0         | 200         | 200              | 173                 | 177                           | ug/L  | EPA 8260B       | 1/4/2002      | 86.6                         | 88.4                                   | 2.02                   | 70-130                             | 25                           |
| Methyl-t-Butyl Ether | 24137-04      | 6.0          | 40.0        | 40.0             | 45.4                | 45.7                          | ug/L  | EPA 8260B       | 1/4/2002      | 98.4                         | 99.3                                   | 0.936                  | 70-130                             | 25                           |

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

Report Number : 24135

Date : 1/11/2002

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **540 Hegenberger Road,**

Project Number : **011231-CW-1**

| Parameter            | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|----------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Benzene              | 20.0        | ug/L  | EPA 8260B       | 1/7/2002      | 97.9               | 70-130                   |
| Toluene              | 20.0        | ug/L  | EPA 8260B       | 1/7/2002      | 98.9               | 70-130                   |
| Tert-Butanol         | 100         | ug/L  | EPA 8260B       | 1/7/2002      | 88.6               | 70-130                   |
| Methyl-t-Butyl Ether | 20.0        | ug/L  | EPA 8260B       | 1/7/2002      | 105                | 70-130                   |
| Benzene              | 40.0        | ug/L  | EPA 8260B       | 1/4/2002      | 96.5               | 70-130                   |
| Toluene              | 40.0        | ug/L  | EPA 8260B       | 1/4/2002      | 97.5               | 70-130                   |
| Tert-Butanol         | 200         | ug/L  | EPA 8260B       | 1/4/2002      | 87.9               | 70-130                   |
| Methyl-t-Butyl Ether | 40.0        | ug/L  | EPA 8260B       | 1/4/2002      | 100                | 70-130                   |

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:

  
Joel Kiff

LAB: Kiff

# EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary):  
Address:  
City, State, Zip:

Equiva Project Manager to be invoiced:  
**Karen Petryna**  
*24135*

INCIDENT NUMBER (S&E ONLY)  
9 8 9 9 5 7 5 2  
SAR or CRMT NUMBER (TS/CRMT)

DATE: 12-31-01  
PAGE: 1 of 1

|  |                             |  |   |  |  |
|--|-----------------------------|--|---|--|--|
| SAMPLING COMPANY:<br><b>Blaine Tech Services</b>                   |                             | LOG CODE:<br><b>BTSS</b>   | SITE ADDRESS (Street and City):<br><b>540 Hegenberger Road, Oakland</b> |  | GLOBAL ID NO.:<br><b>T0600102123</b>     |
| ADDRESS:<br><b>1680 Rogers Avenue, San Jose, CA 95112</b>          |                             | EDF DELIVERABLE TO (Responsible Party or Designee):<br><b>Anni Kreml</b> |   | PHONE NO.:<br><b>510-420-3335</b>                  | E-MAIL:<br><b>akreml@cambria-env.com</b> |
| PROJECT CONTACT (Hardcopy or PDF Report to):<br><b>Nick Sudano</b> |                             | SAMPLER NAME(S) (Print):<br><i>Chris Wagner</i>                          |   | CONSULTANT PROJECT NO.:<br><b>BTS # 01231-CW-1</b> |  |
| TELEPHONE:<br><b>408-573-0555</b>                                  | FAK:<br><b>408-573-7771</b> | E-MAIL:<br><b>nsudano@blainetech.com</b>                                 | LAB USE ONLY  |  |  |

TURNAROUND TIME (BUSINESS DAYS):  
 10 DAYS  5 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT  UST AGENCY:

CC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: \_\_\_\_\_ TEMPERATURE ON RECEIPT C: \_\_\_\_\_

## REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING |                 | MATRIX | NO. OF CONT. | TPH - Gas, Purgeable | BTEX | MTBE (8021B - 5ppb RL) | MTBE (8260B - 0.5ppb RL) | Oxygenates (5) by (8260B) | Ethanol (8260B) | Methanol | 1,2-DCA (8260B) | EDB (8260B) | TPH - Diesel, Extractable (8015m) | MTBE (8260B) Confirmation, See Note | FIELD NOTES:<br>Container/Preservative or PID Readings or Laboratory Notes |
|--------------|-----------------------------|----------|-----------------|--------|--------------|----------------------|------|------------------------|--------------------------|---------------------------|-----------------|----------|-----------------|-------------|-----------------------------------|-------------------------------------|--|
|              |                             | DATE     | TIME            |        |              |                      |      |                        |                          |                           |                 |          |                 |             |                                   |                                     |  |
|              | MW-1                        | 12/31    | 1106            | W      | 3            | X                    | X    | X                      |                          |                           |                 |          |                 |             |                                   |                                     | -01  |
|              | MW-2                        |          | 952             |        |              | X                    | X    | X                      |                          |                           |                 |          |                 |             |                                   |                                     | -02  |
|              | MW-3                        |          | 1027            |        |              | X                    | X    | X                      |                          |                           |                 |          |                 |             |                                   |                                     | -03  |
|              | MW-4                        |          | <del>1027</del> |        |              | X                    | X    | X                      |                          |                           |                 |          |                 |             |                                   |                                     | -04  |
|              | BW-B                        |          | <del>1027</del> |        |              | X                    | X    | X                      |                          |                           |                 |          |                 |             |                                   |                                     | -05  |

|  |  |                        |                      |
|--|--|------------------------|----------------------|
| Retrieved by: (Signature)<br><i>Chris Wagner</i> <b>CHRIS WAGNER</b> | Received by: (Signature)<br>_____                                      | Date:                  | Time:                |
| Retrieved by: (Signature)<br>_____                                   | Received by: (Signature)<br>_____                                      | Date:                  | Time:                |
| Retrieved by: (Signature)<br>_____                                   | Received by: (Signature)<br><i>John C. Kiff</i> <b>Kiff Analytical</b> | Date:<br><b>010202</b> | Time:<br><b>1149</b> |

\* Write with final report, Green to File, Yellow and Pink to Client.

D&O Graphic (714) 858-6702

## WELL GAUGING DATA

Project # 011231-CW-1 Date 12-31-01 Client Equiva

Site 590 Heganberger Rd. Oakland

| Well ID | Well Size (in.) | Sheen / Odor             | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB of TOC |
|---------|-----------------|--------------------------|----------------------------------|--------------------------------------|------------------------------------|----------------------|----------------------------|--------------------------|
| MW-1    | 2               | gauged w/stinger in well |                                  |                                      |                                    | 7.31                 | 23.63                      | ↓                        |
| MW-2    | 2               |                          |                                  |                                      |                                    | 6.24                 | 19.57                      |                          |
| MW-3    | 2               | gauged w/stinger in well |                                  |                                      |                                    | 5.92                 | 19.44                      |                          |
| MW-4    | 4               |                          |                                  |                                      |                                    | 7.08                 | 18.53                      |                          |
| BW-B    | 4               | gauged w/stinger in well |                                  |                                      |                                    | 4.19                 | 11.74                      |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |
|         |                 |                          |                                  |                                      |                                    |                      |                            |                          |

## WELL MONITORING DATA SHEET

|                                     |   |
|-------------------------------------|---|
| Project #: 011231-CW-1              | Client: Equival   |
| Sampler: Chris W.                   | Start Date: 12-31-01  |
| Well I.D.: MW-1                     | Well Diameter: (2) 3 4 6 8  |
| Total Well Depth: 23.63             | Depth to Water: 7.31  |
| Before:                      After: | Before:                      After:                                       |
| Depth to Free Product:              | Thickness of Free Product (feet):   |
| Referenced to: (PVC) Grade          | D.O. Meter (if req'd):                      YSI                      HACH |

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other \_\_\_\_\_

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: \_\_\_\_\_

|               |           |                   |   |                   |       |
|---------------|-----------|-------------------|---|-------------------|-------|
| 2.6           | (Gals.) X | 3                 | = | 7.8               | Gals. |
| 1 Case Volume |           | Specified Volumes |   | Calculated Volume |       |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | (0.16)     | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

| Time | Temp (°F) | pH  | Cond. | Turbidity | Gals. Removed | Observations      |
|------|-----------|-----|-------|-----------|---------------|-------------------|
| 1049 | 65.5      | 7.9 | 3449  | >200      | 2.6           | green/cloudy/odor |
| 1054 | 60.0      | 7.7 | 5907  | >200      | 5.2           | "                 |
| 1059 | 64.3      | 7.7 | 7054  | >200      | 7.8           | "                 |
|      |           |     |       |           |               |                   |
|      |           |     |       |           |               |                   |

Did well dewater? Yes  No  Gallons actually evacuated: 7.8

Sampling Time: 1106                      Sampling Date: 12-31-01

Sample I.D.: MW-1                      Laboratory: Kiff

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

Equipment Blank I.D.: @                      Duplicate I.D.:

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

|                  |            |      |             |      |
|------------------|------------|------|-------------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| ORP (if req'd):  | Pre-purge: | mV   | Post-purge: | mV   |

## WELL MONITORING DATA SHEET

|                                     |   |
|-------------------------------------|---|
| Project #: 01231-CW-1               | Client: Equiva  |
| Sampler: Chris W.                   | Start Date: 12-31-01  |
| Well I.D.: MW-2                     | Well Diameter: <u>2</u> 3 4 6 8   |
| Total Well Depth: 19.57             | Depth to Water: 6.24  |
| Before:                      After: | Before:                      After:                                       |
| Depth to Free Product:              | Thickness of Free Product (feet):   |
| Referenced to: <u>PVC</u> Grade     | D.O. Meter (if req'd):                      YSI                      HACH |

|  |  |
|--|--|
| Purge Method: <input checked="" type="checkbox"/> Bailer<br><input type="checkbox"/> Disposable Bailer<br><input type="checkbox"/> Middleburg<br><input type="checkbox"/> Electric Submersible | Sampling Method: <input checked="" type="checkbox"/> Bailer<br><input type="checkbox"/> Waterra<br><input type="checkbox"/> Disposable Bailer<br><input type="checkbox"/> Peristaltic<br><input type="checkbox"/> Extraction Port<br><input type="checkbox"/> Extraction Pump<br><input type="checkbox"/> Dedicated Tubing<br>Other: _____ |
|--|--|

|           |                   |                   |
|-----------|-------------------|-------------------|
| 2.1       | 3                 | = 6.3             |
| (Gals.) X | Specified Volumes | Calculated Volume |

| Well Diameter | Multiplier  | Well Diameter | Multiplier                  |
|---------------|-------------|---------------|-----------------------------|
| 1"            | 0.04        | 4"            | 0.65                        |
| 2"            | <u>0.16</u> | 6"            | 1.47                        |
| 3"            | 0.37        | Other         | radius <sup>2</sup> * 0.163 |

| Time | Temp (°F) | pH  | Cond. | Turbidity | Gals. Removed | Observations |
|------|-----------|-----|-------|-----------|---------------|--------------|
| 935  | 65.9      | 8.0 | 844   | 84        | 2.1           | 1.           |
| 940  | 66.9      | 7.3 | 919   | >200      | 4.2           | cloudy       |
| 945  | 67.6      | 7.3 | 877   | >200      | 6.3           | "            |
|      |           |     |       |           |               |              |
|      |           |     |       |           |               |              |

Did well dewater? Yes  No  Gallons actually evacuated: 6.3

Sampling Time: 952                      Sampling Date: 12-31-01

Sample I.D.: MW-2                      Laboratory: Kiff

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

Equipment Blank I.D.: @ \_\_\_\_\_ Time Duplicate I.D.:

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

|                  |            |      |             |      |
|------------------|------------|------|-------------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| ORP (if req'd):  | Pre-purge: | mV   | Post-purge: | mV   |



## WELL MONITORING DATA SHEET

|                                     |   |
|-------------------------------------|---|
| Project #: 011231-CW-1              | Client: Equival   |
| Sampler: Chris W.                   | Start Date: 12-31-01  |
| Well I.D.: MW-3                     | Well Diameter: (2) 3 4 6 8  |
| Total Well Depth: 19.46             | Depth to Water: 5.92  |
| Before:                      After: | Before:                      After:                                       |
| Depth to Free Product:              | Thickness of Free Product (feet):   |
| Referenced to: (PVC) Grade          | D.O. Meter (if req'd):                      YSI                      HACH |

Purge Method:                      Sampling Method: X Bailer

Bailer                      Waterra                      Disposable Bailer  
 Disposable Bailer                      Peristaltic                      Extraction Port  
 Middleburg                      Extraction Pump                      Dedicated Tubing  
 Electric Submersible                      Other: \_\_\_\_\_

|               |           |                   |   |                   |       |
|---------------|-----------|-------------------|---|-------------------|-------|
| 2.1           | (Gals.) X | 3                 | = | 6.3               | Gals. |
| 1 Case Volume |           | Specified Volumes |   | Calculated Volume |       |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | (0.16)     | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

| Time | Temp (°F) | pH  | Cond. | Turbidity | Gals. Removed | Observations      |
|------|-----------|-----|-------|-----------|---------------|-------------------|
| 1010 | 67.6      | 7.3 | 3267  | >200      | 2.1           | cloudy/green/odor |
| 1015 | 67.9      | 7.4 | 4374  | >260      | 4.2           | "                 |
| 1020 | 68.4      | 7.4 | 6210  | >200      | 6.3           | "                 |
|      |           |     |       |           |               |                   |
|      |           |     |       |           |               |                   |

Did well dewater? Yes  No  Gallons actually evacuated: 6.3

Sampling Time: 1027                      Sampling Date: 12-31-01

Sample I.D.: MW-3                      Laboratory: Kiff

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: \_\_\_\_\_

Equipment Blank I.D.: @ \_\_\_\_\_ Time Duplicate I.D.: \_\_\_\_\_

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

|                  |            |      |             |      |
|------------------|------------|------|-------------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| ORP (if req'd):  | Pre-purge: | mV   | Post-purge: | mV   |

## WELL MONITORING DATA SHEET

|                                 |   |
|---------------------------------|---|
| Project #: <u>011231-020-1</u>  | Client: <u>Equiva</u>                   |
| Sampler: <u>Chris W.</u>        | Start Date: <u>12-31-07</u>             |
| Well I.D.: <u>MW-4</u>          | Well Diameter: 2 3 <u>(4)</u> 6 8       |
| Total Well Depth: <u>18.53</u>  | Depth to Water: <u>7.08</u>             |
| Before: _____ After: _____      | Before: _____ After: _____              |
| Depth to Free Product: _____    | Thickness of Free Product (feet): _____ |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH         |

Purge Method:

- Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible
- Waterra  
 Peristaltic  
 Extraction Pump  
 Other \_\_\_\_\_

Sampling Method:  Bailer

- Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: \_\_\_\_\_

|               |           |                   |   |                   |       |
|---------------|-----------|-------------------|---|-------------------|-------|
| 7.5           | (Gals.) X | 3                 | = | 22.5              | Gals. |
| 1 Case Volume |           | Specified Volumes |   | Calculated Volume |       |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | <u>0.65</u>                 |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

| Time | Temp (°F) | pH  | Cond. | Turbidity | Gals. Removed | Observations |
|------|-----------|-----|-------|-----------|---------------|--------------|
| 0907 | 62.8      | 8.5 | 2587  | >200      | 7.5           | cloudy       |
| 0909 | 65.8      | 7.7 | 5097  | >200      | 15.0          | "            |
| 0911 | 67.3      | 7.7 | 5132  | >200      | 22.5          | "            |
|      |           |     |       |           |               |              |
|      |           |     |       |           |               |              |

Did well dewater? Yes  No  Gallons actually evacuated: 22.5

Sampling Time: 0918 Sampling Date: 12-31-07

Sample I.D.: MW-4 Laboratory: Kiff

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

Equipment Blank I.D.: \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D.: \_\_\_\_\_

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

|                  |            |      |             |      |
|------------------|------------|------|-------------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| ORP (if req'd):  | Pre-purge: | mV   | Post-purge: | mV   |

## WELL MONITORING DATA SHEET

|                                       |   |
|---------------------------------------|---|
| Project #: <u>011231-CW-1</u>         | Client: <u>Equiva</u>                   |
| Sampler: <u>Chris W.</u>              | Start Date: <u>12-31-01</u>             |
| Well I.D.: <u>BW-B</u>                | Well Diameter: 2 3 <u>4</u> 6 8         |
| Total Well Depth: <u>11.74</u>        | Depth to Water: <u>4.19</u>             |
| Before: _____ After: _____            | Before: _____ After: _____              |
| Depth to Free Product: _____          | Thickness of Free Product (feet): _____ |
| Referenced to: <u>PVC</u> Grade _____ | D.O. Meter (if req'd): YSI HACH         |

Purge Method:

- Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible  
 Waterra  
 Peristaltic  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method:

- Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: \_\_\_\_\_

|                      |                   |   |                   |
|----------------------|-------------------|---|-------------------|
| <u>4.9</u> (Gals.) X | <u>3</u>          | = | <u>14.7</u> Gals. |
| 1 Case Volume        | Specified Volumes |   | Calculated Volume |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | <u>0.65</u>                 |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

| Time | Temp (°F) | pH  | Cond. | Turbidity | Gals. Removed | Observations |
|------|-----------|-----|-------|-----------|---------------|--------------|
| 1135 | 66.4      | 7.8 | 2153  | 2200      | 4.9           | cloudy       |
| 1136 | 67.5      | 7.5 | 1225  | 171       | 9.8           | clear        |
| 1137 | 67.8      | 7.4 | 1369  | 86        | 14.7          |              |
|      |           |     |       |           |               |              |
|      |           |     |       |           |               |              |

Did well dewater? Yes  No  Gallons actually evacuated: 14.7

Sampling Time: 1146 Sampling Date: 12-31-01

Sample I.D.: BW-B Laboratory: Kiff

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

Equipment Blank I.D.: \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D.: \_\_\_\_\_

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

|                  |            |      |             |      |
|------------------|------------|------|-------------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| ORP (if req'd):  | Pre-purge: | mV   | Post-purge: | mV   |

**ATTACHMENT B**  
**Arco Groundwater Data**

TABLE 1

## GROUNDWATER ANALYTICAL DATA

ARCO Service Station 4494  
566 Hegenberger Road at Edes Avenue  
Oakland, California

| Well Number | Date Sampled | Top of Riser Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH as Gasoline (µg/L) | MTBE (µg/L)                |
|-------------|--------------|-----------------------------|---------------------------|----------------------------|----------------|----------------|----------------------|----------------------|------------------------|----------------------------|
| MW-1        | 06/20/00     | 106.10                      | 7.02                      | 99.08                      | <10            | <10            | <10                  | <20                  | <1,000                 | 14,000/15,000 <sup>a</sup> |
|             | 09/28/00     |                             | 7.07                      | 99.03                      | <5.0           | <5.0           | <5.0                 | <5.0                 | <500                   | 13000/18,800 <sup>a</sup>  |
|             | 12/17/00     |                             | 6.95                      | 99.15                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | 10,600                     |
|             | 03/28/01     |                             | 6.88                      | 99.22                      | <5.0           | <5.0           | <5.0                 | <5.0                 | <500                   | 16,900                     |
|             | 06/21/01     |                             | 7.18                      | 98.92                      | <10            | <10            | <10                  | <10                  | <1,000                 | 3,400                      |
|             | 09/23/01     |                             | 7.11                      | 98.99                      | <10            | <10            | <10                  | <10                  | <1,000                 | 2200/1800 <sup>a</sup>     |
|             | 12/31/01     |                             | 6.91                      | 99.19                      | <50            | <50            | <50                  | <50                  | <5,000                 | 14,000                     |
| MW-3        | 06/20/00     | 106.29                      | 9.18                      | 97.11                      | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | 27/27 <sup>a</sup>         |
|             | 09/28/00     |                             | 9.33                      | 96.96                      | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | 4.3/<2.0 <sup>a</sup>      |
|             | 12/17/00     |                             | 9.31                      | 96.98                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                       |
|             | 03/28/01     |                             | 9.23                      | 97.06                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | 7.42                       |
|             | 06/21/01     |                             | 9.58                      | 96.71                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                       |
|             | 09/23/01     |                             | 9.76                      | 96.53                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                       |
|             | 12/31/01     |                             | 8.78                      | 97.51                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                       |
| MW-4        | 06/20/00     | 107.40                      | 8.49                      | 98.91                      | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | <10                        |
|             | 09/28/00     |                             | 8.70                      | 98.70                      | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | <2.5                       |
|             | 12/17/00     |                             | 8.53                      | 98.87                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                       |
|             | 03/28/01     |                             | 8.59                      | 98.81                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                       |
|             | 06/21/01     |                             | 8.79                      | 98.61                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                       |
|             | 09/23/01     |                             | 8.67                      | 98.73                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                       |
|             | 12/31/01     |                             | 8.03                      | 99.37                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                       |

TABLE 1

## GROUNDWATER ANALYTICAL DATA

ARCO Service Station 4494  
566 Hegenberger Road at Edes Avenue  
Oakland, California

| Well Number | Date Sampled | Top of Riser Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH as Gasoline (µg/L) | MTBE (µg/L)          |
|-------------|--------------|-----------------------------|---------------------------|----------------------------|----------------|----------------|----------------------|----------------------|------------------------|----------------------|
| MW-5        | 06/20/00     | 105.19                      | 7.65                      | 97.54                      | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | <10                  |
|             | 09/28/00     |                             | 6.82                      | 98.37                      | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | <2.5                 |
|             | 12/17/00     |                             | 6.5                       | 98.69                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                 |
|             | 03/28/01     |                             | 6.34                      | 98.85                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                 |
|             | 06/21/01     |                             | 7.88                      | 97.31                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                 |
|             | 09/23/01     |                             | 6.98                      | 98.21                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                 |
|             | 12/31/01     |                             | 5.01                      | 100.18                     | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                 |
| MW-6        | 06/20/00     | 105.07                      | 6.24                      | 98.83                      | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | <10                  |
|             | 09/28/00     |                             | 6.45                      | 98.62                      | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | <2.5                 |
|             | 12/17/00     |                             | 6.26                      | 98.81                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                 |
|             | 03/28/01     |                             | 6.10                      | 98.97                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                 |
|             | 06/21/01     |                             | 7.68                      | 97.39                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                 |
|             | 09/23/01     |                             | 6.72                      | 98.35                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                 |
|             | 12/23/01     |                             | 4.68                      | 100.39                     | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5                 |
| MW-7        | 06/20/00     | 105.52                      | 8.65                      | 96.87                      | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | 13/13 <sup>a</sup>   |
|             | 09/28/00     |                             | 8.75                      | 96.77                      | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | 136/261 <sup>a</sup> |
|             | 12/17/00     |                             | 8.62                      | 96.90                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | 27.1                 |
|             | 03/28/01     |                             | 8.66                      | 96.86                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | 51.5                 |
|             | 06/21/01     |                             | 8.84                      | 96.68                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | 53                   |
|             | 09/23/01     |                             | 8.75                      | 96.77                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | 35/21 <sup>a</sup>   |
|             | 12/23/01     |                             | 7.79                      | 97.73                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | 440                  |

TABLE 1

## GROUNDWATER ANALYTICAL DATA

ARCO Service Station 4494  
566 Hegenberger Road at Edes Avenue  
Oakland, California

| Well Number | Date Sampled | Top of Riser Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH as Gasoline (µg/L) | MTBE (µg/L) |
|-------------|--------------|-----------------------------|---------------------------|----------------------------|----------------|----------------|----------------------|----------------------|------------------------|-------------|
| RW-1        | 06/20/00     | NE                          | 8.21                      |                            | <0.5           | 1.1            | <0.5                 | <1.0                 | <50                    | <10         |
|             | 09/28/00     |                             | 8.28                      | NC                         | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | <2.5        |
|             | 12/17/00     |                             | 8.29                      | NC                         | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5        |
|             | 03/28/01     |                             | 8.16                      | NC                         | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5        |
|             | 06/21/01     |                             | 9.37                      | NC                         | 5.1            | <0.5           | 1.1                  | 3.2                  | 160                    | <2.5        |
|             | 09/23/01     |                             | 8.75                      | NC                         | <0.5           | <0.5           | <0.5                 | <0.5                 | 57                     | <2.5        |
|             | 12/31/01     |                             | 6.8                       | NC                         | 3.1            | <0.5           | 6.4                  | 4.7                  | 520                    | <2.5        |

<sup>a</sup> Analyzed by EPA Method 8260

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted

µg/L = Micrograms per liter

NC = Not calculated

NE = Not surveyed/No elevation

TABLE 2

## GROUNDWATER FLOW DIRECTION AND GRADIENT

ARCO Service Station No. 4494  
566 Hegenberger Road at Edes Avenue  
Oakland, California

| Date Measured | Average<br>Flow Direction | Average<br>Hydraulic Gradient |
|---------------|---------------------------|-------------------------------|
| 06/20/00      | North-Northeast           | 0.015                         |
| 09/28/00      | North                     | 0.018                         |
| 12/17/00      | North-Northwest           | 0.013                         |
| 03/28/01      | Northwest                 | 0.011                         |
| 06/21/01      | North                     | 0.017                         |
| 09/23/01      | North                     | 0.020                         |
| 12/31/01      | North-Northwest           | 0.023                         |

Note: Please refer to Appendix B for Historical Groundwater Elevation and Analytical Data  
Tables developed by IT Corporation