



Shell Oil Products US

343

May 1, 2003

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

Alameda County
MAY 06 2003
Environmental Health

Subject: **Former Shell Service Station**
 461 8th Street
 Oakland, California

Dear Mr. Chan:

Attached for your review and comment is a copy of the *First Quarter 2003 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

C A M B R I A

May 1, 2003

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

Re: **First Quarter 2003 Monitoring Report**
Former Shell Service Station
461 8th Street
Oakland, California
Incident #97093399
Cambria Project #245-1501-002



Dear Mr. Chan:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

FIRST QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled all site wells, checked the wells for separate-phase hydrocarbon (SPH), calculated groundwater elevations, and compiled the analytical data. No SPH has been detected since January 1998. Cambria prepared a vicinity map which includes previously submitted well survey information (Figure 1) and a groundwater elevation map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is presented as Attachment A.

Oxygenate Sampling: As requested in a May 6, 2002 Alameda County Health Care Services Agency (ACHCSA) letter and stated in our June 7, 2002 *Agency Response and Work Plan Addendum*, groundwater samples collected from wells S-5, S-6 and S-8 during the fourth quarter 2002 and the first quarter 2003 monitoring events were additionally analyzed for tertiary amyl methyl ether (TAME), ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary butyl alcohol (TBA), ethylene dibromide (EDB) and 1,2-dichloroethane (1,2-DCA or EDC) by EPA Method 8260. Analytical results are summarized on Table 1. None of the additional analytes were detected. Cambria will discontinue the additional analysis in the second quarter 2003.

Cambria
Environmental
Technology, Inc.

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

Suspension of Over-Purging: As noted in our October 3, 2002 *Third Quarter 2002 Monitoring Report*, Cambria recommended suspension of over-purging from wells S-5 and S-6 to determine equilibrium groundwater conditions in groundwater and to possibly collect an SPH sample. This recommendation was approved by the ACHCSA during an August 7, 2002 telephone conversation. Over-purging was not performed during the fourth quarter 2002 or the first quarter 2003 monitoring events, and no SPH were detected in wells S-5 and S-6. Cumulative groundwater purge volume and estimated mass removal data are presented in Table 2. The cumulative estimated mass of total petroleum hydrocarbons as gasoline and benzene removed to date is 2.22 pounds and 0.50 pounds, respectively.



ANTICIPATED SECOND QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine will gauge all site wells, sample selected site wells, and tabulate the data. Cambria will prepare a monitoring report.

Oxygenate Sampling: As noted above, wells S-5, S-6 and S-8 were additionally analyzed during the fourth quarter 2002 and the first quarter 2003 monitoring events for TAME, ETBE, DIPE, TBA, EDB and 1,2-DCA. None of the additional analytes were detected. Based on this, Cambria does not recommend further monitoring for the additional analytes. As noted in our June 7, 2002 *Agency Response and Work Plan Addendum*, grab groundwater samples collected from borings installed during the upcoming site investigation will, however, be analyzed for the additional analytes.

Reinitiation of Over-Purging: During the second quarter 2003 monitoring event, wells S-5 and S-6 will be checked for SPH. If SPH are present, a sample will be collected. Over-purging of wells S-5 and S-6 will be reinitiated during the second quarter 2003 monitoring event following gauging and possible SPH sample collection.

Subsurface Investigation Status: Per Cambria's April 30, 2002 *Agency Response and Investigation Work Plan* and June 7, 2002 *Work Plan Addendum*, Cambria recommends both onsite and offsite investigation to determine the source of contamination detected in wells S-5 and S-6. The scope of work for this investigation was approved in a June 11, 2002 ACHCSA letter. As noted in a September 26, 2002 electronic-mail correspondence to Barney Chan of the ACHCSA, we have amended several boring and well installation locations. The amended locations are shown on Figure 2, included herein.

C A M B R I A

Mr. Barney Chan
May 1, 2003

As noted in Cambria's December 4, 2002 *Investigation Status Report*, we are in the process of obtaining an updated access agreement for the former Shell-branded service station property. Cambria will notify the ACHCSA when the access agreement has been secured.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.



Sincerely,
Cambria Environmental Technology, Inc

Jacquelyn L. Jones
Project Geologist

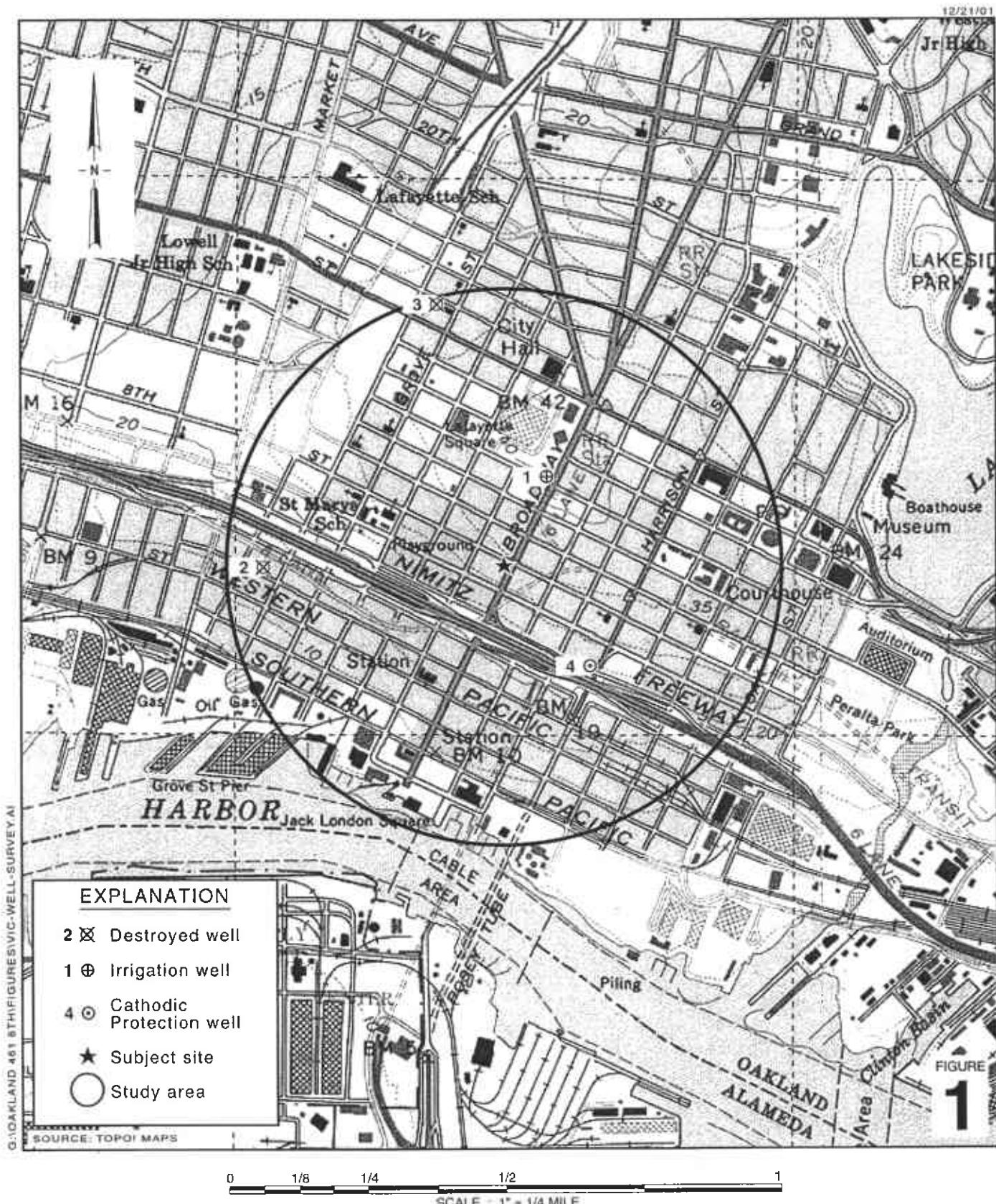
Matthew W. Derby
Senior Project Engineer

Figures: 1 - Vicinity/Area Well Survey Map
 2 - Groundwater Elevation Contour Map

Tables: 1 - Groundwater Analytical Data - Oxygenates Groundwater
 2 - Extraction - Estimated Mass Removal Data

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869
 Lhea Goldberg, Hanson, Bridgett, Marcus, Vlahos, & Rudy, 333 Market Street, Suite
 2300, San Francisco, CA 94105-2173
 Wells Fargo Bank National Association, Tr. (Property Owners), c/o Pacific Property,
 364 Bush Street, San Francisco, CA 94104-2805
 R. Casteel & Co., P.O. Box 6839, Moraga, CA 94570
 Leroy Griffin, City of Oakland Fire Prevention Bureau, 250 Frank Ogawa Plaza, 3rd
 Floor, Suite 3341, Oakland, CA 94612



Former Shell Service Station

461 Eighth Street
Oakland, California
Incident #97093399



C A M B R I A

Vicinity / Area Well Survey Map

1/2 Mile Radius

Groundwater Elevation Contour Map

January 2, 2003

C A M B R I A

Former Shell Service Station

461 Eighth Street
Oakland, California
Incident #97093399

**FIGURE
2**

05/01/03

EXPLANATION

| | |
|---|---|
| | Proposed monitoring well location |
| | Proposed soil boring location |
| S-4 ● | Monitoring well |
| S-1 ☒ | Abandoned monitoring well |
| → | Groundwater flow direction |
| XX.XX | Groundwater elevation contour, in feet above mean sea level (msl), approximately located |
| Well ELEV Benzene MTBE | Well designation Groundwater elevation, in feet above msl Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260. |

Approximate Groundwater Gradient (ft/ft)
(1Q03)

0 25 50 100
Scale (ft)

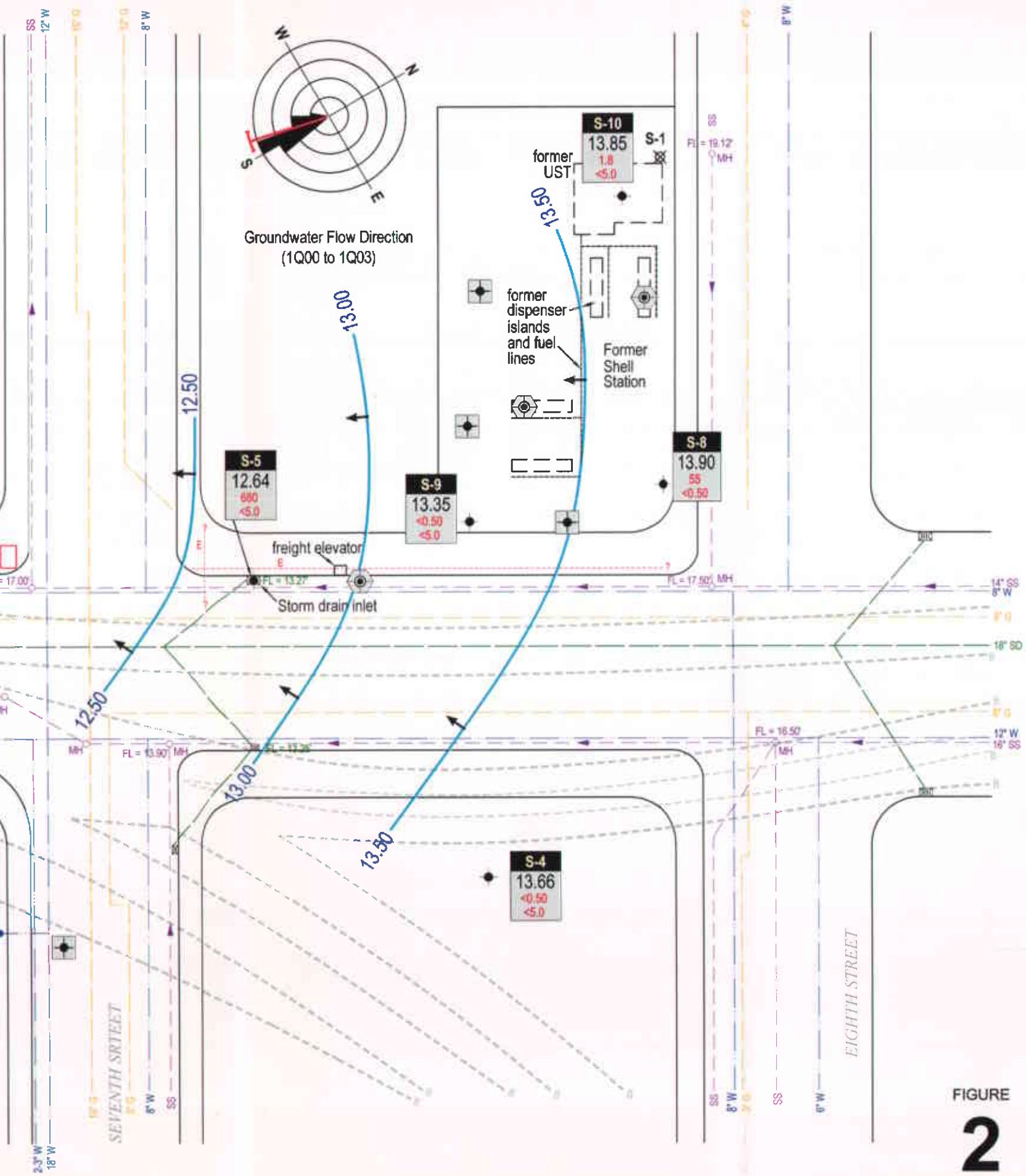


Table 1. Groundwater Analytical Data - Oxygenates - Former Shell Service Station, Incident #97093399, 461 8th Street, Oakland,, California

| Sample ID | Date Sampled | MTBE | DIPE | ETBE | TAME (Concentrations in ppb) | TBA | 1,2-DCA | EDB |
|-----------|--------------|-------|------|------|---------------------------------|--------|---------|------|
| S-5 | 10/17/02 | <10 | <10 | <10 | <10 | <100 | <10 | <10 |
| | 01/02/03 | <5.0 | <5.0 | <5.0 | <5.0 | <50 | <5.0 | <5.0 |
| S-6 | 10/15/02 | <100 | <100 | <100 | <100 | <1,000 | <100 | <100 |
| | 01/02/03 | <50 | <50 | <50 | <50 | <500 | <50 | <50 |
| S-8 | 10/15/02 | <0.50 | <2.0 | <2.0 | <2.0 | <50 | <2.0 | <2.0 |
| | 01/02/03 | <0.50 | <2.0 | <2.0 | <2.0 | <50 | <2.0 | <2.0 |

Abbreviations:

MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260

ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260

TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260

TBA = Tert-butyl alcohol, analyzed by EPA Method 8260

1,2-DCA = 1,2-dichloroethane, analyzed by EPA Method 8260

EDB = 1,2-dibromomethane or ethylene dibromide, analyzed by EPA Method 8260

ppb = Parts per billion

Table 2: Groundwater Extraction - Estimated Mass Removal Data - Former Shell Service Station, Incident #97093399, 461 Eighth Street, Oakland, California

| Date Purged | Well ID | Cumulative | | | TPPH | | | Benzene | | | MTBE | | |
|-------------|---------|---------------------|---------------------|--------------|--------------------------|-----------------------|-----------------------|-----------------------------|--------------------------|--------------------------|--------------------------|-----------------------|-----------------------|
| | | Volume Pumped (gal) | Volume Pumped (gal) | Date Sampled | TPPH Concentration (ppb) | TPPH Removed (pounds) | TPPH To Date (pounds) | Benzene Concentration (ppb) | Benzene Removed (pounds) | Benzene To Date (pounds) | MTBE Concentration (ppb) | MTBE Removed (pounds) | MTBE To Date (pounds) |
| 05/13/93 | S-5 | 0 | 0 | 07/31/90 | 53,000 | 0.00000 | 0.00000 | 14,000 | 0.00000 | 0.00000 | NA | 0.00000 | 0.00000 |
| 07/22/93 | S-5 | 200 | 200 | 07/31/90 | 53,000 | 0.08845 | 0.08845 | 14,000 | 0.02336 | 0.02336 | NA | 0.00000 | 0.00000 |
| 10/20/93 | S-5 | 200 | 400 | 07/31/90 | 53,000 | 0.08845 | 0.17690 | 14,000 | 0.02336 | 0.04673 | NA | 0.00000 | 0.00000 |
| 01/25/94 | S-5 | 150 | 550 | 07/31/90 | 53,000 | 0.06634 | 0.24324 | 14,000 | 0.01752 | 0.06425 | NA | 0.00000 | 0.00000 |
| 04/25/94 | S-5 | 36 | 586 | 07/31/90 | 53,000 | 0.01592 | 0.25916 | 14,000 | 0.00421 | 0.06846 | NA | 0.00000 | 0.00000 |
| 05/26/94 | S-5 | 130 | 716 | 07/31/90 | 53,000 | 0.05749 | 0.31665 | 14,000 | 0.01519 | 0.08364 | NA | 0.00000 | 0.00000 |
| 06/16/94 | S-5 | 50 | 766 | 07/31/90 | 53,000 | 0.02211 | 0.33876 | 14,000 | 0.00584 | 0.08948 | NA | 0.00000 | 0.00000 |
| 07/21/94 | S-5 | 50 | 816 | 07/31/90 | 53,000 | 0.02211 | 0.36088 | 14,000 | 0.00584 | 0.09533 | NA | 0.00000 | 0.00000 |
| 08/25/94 | S-5 | 80 | 896 | 07/31/90 | 53,000 | 0.03538 | 0.39626 | 14,000 | 0.00935 | 0.10467 | NA | 0.00000 | 0.00000 |
| 09/22/94 | S-5 | 45 | 941 | 07/31/90 | 53,000 | 0.01990 | 0.41616 | 14,000 | 0.00526 | 0.10993 | NA | 0.00000 | 0.00000 |
| 10/24/94 | S-5 | 40 | 981 | 07/31/90 | 53,000 | 0.01769 | 0.43385 | 14,000 | 0.00467 | 0.11460 | NA | 0.00000 | 0.00000 |
| 11/29/94 | S-5 | 85 | 1,066 | 07/31/90 | 53,000 | 0.03759 | 0.47144 | 14,000 | 0.00993 | 0.12453 | NA | 0.00000 | 0.00000 |
| 12/22/94 | S-5 | 0 | 1,066 | 07/31/90 | 53,000 | 0.00000 | 0.47144 | 14,000 | 0.00000 | 0.12453 | NA | 0.00000 | 0.00000 |
| 01/03/95 | S-5 | 40 | 1,106 | 07/31/90 | 53,000 | 0.01769 | 0.48913 | 14,000 | 0.00467 | 0.12920 | NA | 0.00000 | 0.00000 |
| 02/22/95 | S-5 | 60 | 1,166 | 07/31/90 | 53,000 | 0.02654 | 0.51566 | 14,000 | 0.00701 | 0.13621 | NA | 0.00000 | 0.00000 |
| 03/31/95 | S-5 | 40 | 1,206 | 07/31/90 | 53,000 | 0.01769 | 0.53335 | 14,000 | 0.00467 | 0.14089 | NA | 0.00000 | 0.00000 |
| 04/20/95 | S-5 | 60 | 1,266 | 07/31/90 | 53,000 | 0.02654 | 0.55989 | 14,000 | 0.00701 | 0.14790 | NA | 0.00000 | 0.00000 |
| 05/26/95 | S-5 | 50 | 1,316 | 07/31/90 | 53,000 | 0.02211 | 0.58200 | 14,000 | 0.00584 | 0.15374 | NA | 0.00000 | 0.00000 |
| 06/30/95 | S-5 | 60 | 1,376 | 07/31/90 | 53,000 | 0.02654 | 0.60854 | 14,000 | 0.00701 | 0.16075 | NA | 0.00000 | 0.00000 |
| 10/04/95 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 01/03/96 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 04/11/96 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 07/11/96 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 10/02/96 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 01/22/97 | S-5 | 0 | 1,376 | 07/31/90 | 53,000 | 0.00000 | 0.60854 | 14,000 | 0.00000 | 0.16075 | NA | 0.00000 | 0.00000 |
| 07/21/97 | S-5 | 75 | 1,451 | 07/31/90 | 53,000 | 0.03317 | 0.64171 | 14,000 | 0.00876 | 0.16951 | NA | 0.00000 | 0.00000 |
| 10/29/97 | S-5 | 60 | 1,511 | 07/31/90 | 53,000 | 0.02654 | 0.66824 | 14,000 | 0.00701 | 0.17652 | NA | 0.00000 | 0.00000 |
| 01/22/98 | S-5 | 60 | 1,571 | 07/31/90 | 53,000 | 0.02654 | 0.69478 | 14,000 | 0.00701 | 0.18353 | NA | 0.00000 | 0.00000 |
| 05/01/98 | S-5 | 50 | 1,621 | 07/31/90 | 53,000 | 0.02211 | 0.71689 | 14,000 | 0.00584 | 0.18937 | NA | 0.00000 | 0.00000 |

CAMBRIA

Table 2: Groundwater Extraction - Estimated Mass Removal Data - Former Shell Service Station, Incident #97093399, 461 Eighth Street, Oakland, California

| Date Purged | Well ID | Cumulative | | | <u>TPPH</u> | | | <u>Benzene</u> | | | <u>MTBE</u> | | |
|-------------|---------|---------------|---------------|--------------|--------------------|--------------|--------------|-----------------------|-----------------|-----------------|--------------------|--------------|--------------|
| | | Volume Pumped | Volume Pumped | Date Sampled | TPPH Concentration | TPPH Removed | TPPH To Date | Benzene Concentration | Benzene Removed | Benzene To Date | MTBE Concentration | MTBE Removed | MTBE To Date |
| | | (gal) | (gal) | | (ppb) | (pounds) | (pounds) | (ppb) | (pounds) | (pounds) | (ppb) | (pounds) | (pounds) |
| 07/08/98 | S-5 | 100 | 1,721 | 07/31/90 | 53,000 | 0.04423 | 0.76111 | 14,000 | 0.01168 | 0.20105 | NA | 0.00000 | 0.00000 |
| 10/26/98 | S-5 | 100 | 1,821 | 07/31/90 | 53,000 | 0.04423 | 0.80534 | 14,000 | 0.01168 | 0.21273 | NA | 0.00000 | 0.00000 |
| 01/28/99 | S-5 | 100 | 1,921 | 01/28/99 | 51,000 | 0.04256 | 0.84790 | 13,000 | 0.01085 | 0.22358 | 2,400 | 0.00200 | 0.00200 |
| 04/23/99 | S-5 | 100 | 2,021 | 04/23/99 | 65,600 | 0.05474 | 0.90263 | 2,540 | 0.00212 | 0.22570 | <1,000 | 0.00042 | 0.00242 |
| 07/29/99 | S-5 | 0 | 2,021 | 07/29/99 | 61,400 | 0.00000 | 0.90263 | 3,320 | 0.00000 | 0.22570 | <1,000 | 0.00000 | 0.00242 |
| 11/01/99 | S-5 | 100 | 2,121 | 11/01/99 | 48,200 | 0.04022 | 0.94285 | 2,700 | 0.00225 | 0.22795 | <40.0 | 0.00002 | 0.00244 |
| 01/07/00 | S-5 | 100 | 2,221 | 01/07/00 | 39,000 | 0.03254 | 0.97540 | 3,900 | 0.00325 | 0.23121 | 1,500 | 0.00125 | 0.00369 |
| 04/11/00 | S-5 | 100 | 2,321 | 04/11/00 | 29,300 | 0.02445 | 0.99985 | 1,680 | 0.00140 | 0.23261 | <250 | 0.00010 | 0.00379 |
| 07/19/00 | S-5 | 100 | 2,421 | 07/19/00 | 6,420 | 0.00536 | 1.00520 | 2,110 | 0.00176 | 0.23437 | 253 | 0.00021 | 0.00400 |
| 10/12/00 | S-5 | 100 | 2,521 | 10/12/00 | 41,500 | 0.03463 | 1.03983 | 2,940 | 0.00245 | 0.23682 | <66.7 | 0.00003 | 0.00403 |
| 01/09/01 | S-5 | 100 | 2,621 | 01/09/01 | 142,000 | 0.11849 | 1.15832 | 7,030 | 0.00587 | 0.24269 | 779 | 0.00065 | 0.00468 |
| 04/13/01 | S-5 | 100 | 2,721 | 04/13/01 | 59,800 | 0.04990 | 1.20822 | 4,810 | 0.00401 | 0.24670 | <10.0 | 0.00000 | 0.00469 |
| 07/25/01 | S-5 | 50 | 2,771 | 07/25/01 | 71,000 | 0.02962 | 1.23784 | 2,900 | 0.00121 | 0.24791 | <250 | 0.00005 | 0.00474 |
| 08/13/01 | S-5 | 50 | 2,821 | 07/25/01 | 71,000 | 0.02962 | 1.26747 | 2,900 | 0.00121 | 0.24912 | <250 | 0.00005 | 0.00479 |
| 11/01/01 | S-5* | 0 | 2,821 | 07/25/01 | 71,000 | 0.00000 | 1.26747 | 2,900 | 0.00000 | 0.24912 | <250 | 0.00000 | 0.00479 |
| 01/17/02 | S-5 | 100 | 2,921 | 01/17/02 | 58,000 | 0.04840 | 1.31586 | 460 | 0.00038 | 0.24950 | <200 | 0.00008 | 0.00487 |
| 05/08/02 | S-5 | 100 | 3,021 | 05/08/02 | 60,000 | 0.05007 | 1.36593 | 650 | 0.00054 | 0.25005 | <100 | 0.00004 | 0.00492 |
| 05/13/93 | S-6 | 0 | 0 | 05/13/93 | 58,000 | 0.00000 | 0.00000 | 21,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 07/22/93 | S-6 | 0 | 0 | 07/22/93 | 70,000 | 0.00000 | 0.00000 | 31,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 10/20/93 | S-6 | 0 | 0 | 10/20/93 | 48,000 | 0.00000 | 0.00000 | 28,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 01/25/94 | S-6 | 0 | 0 | 01/25/94 | 70,000 | 0.00000 | 0.00000 | 23,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 04/25/94 | S-6 | 0 | 0 | 04/25/94 | 61,000 | 0.00000 | 0.00000 | 23,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 05/26/94 | S-6 | NA | 0 | 04/25/94 | 61,000 | 0.00000 | 0.00000 | 23,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 06/16/94 | S-6 | NA | 0 | 04/25/94 | 61,000 | 0.00000 | 0.00000 | 23,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 07/21/94 | S-6 | NA | 0 | 07/21/94 | 44,000 | 0.00000 | 0.00000 | 8,200 | 0.00000 | 0.00000 | NA | NA | NA |
| 08/25/94 | S-6 | NA | 0 | 07/21/94 | 44,000 | 0.00000 | 0.00000 | 8,200 | 0.00000 | 0.00000 | NA | NA | NA |
| 09/22/94 | S-6 | NA | 0 | 07/21/94 | 44,000 | 0.00000 | 0.00000 | 8,200 | 0.00000 | 0.00000 | NA | NA | NA |
| 10/24/94 | S-6 | 0 | 0 | 10/24/94 | 2,936 | 0.00000 | 0.00000 | 1,184 | 0.00000 | 0.00000 | NA | NA | NA |

Table 2: Groundwater Extraction - Estimated Mass Removal Data - Former Shell Service Station, Incident #97093399, 461 Eighth Street, Oakland, California

| Date Purged | Well ID | Cumulative | | | <u>TPPH</u> | | | <u>Benzene</u> | | | <u>MTBE</u> | | |
|-------------|---------|---------------------|---------------------|--------------|--------------------------|-----------------------|-------------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|-----------------------|-----------------------|
| | | Volume Pumped (gal) | Volume Pumped (gal) | Date Sampled | TPPH Concentration (ppb) | TPPH Removed (pounds) | TPPH Removed To Date (pounds) | Benzene Concentration (ppb) | Benzene Removed (pounds) | Benzene To Date (pounds) | MTBE Concentration (ppb) | MTBE Removed (pounds) | MTBE To Date (pounds) |
| 11/29/94 | S-6 | NA | 0 | 10/24/94 | 2,936 | 0.00000 | 0.00000 | 1,184 | 0.00000 | 0.00000 | NA | NA | NA |
| 12/22/94 | S-6 | 0 | 0 | 12/22/94 | 32,000 | 0.00000 | 0.00000 | 7,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 01/03/95 | S-6 | NA | 0 | 12/22/94 | 32,000 | 0.00000 | 0.00000 | 7,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 02/22/95 | S-6 | NA | 0 | 12/22/94 | 32,000 | 0.00000 | 0.00000 | 7,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 03/31/95 | S-6 | NA | 0 | 12/22/94 | 32,000 | 0.00000 | 0.00000 | 7,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 04/20/95 | S-6 | 0 | 0 | 04/20/95 | 56,000 | 0.00000 | 0.00000 | 15,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 05/26/95 | S-6 | NA | 0 | 04/20/95 | 56,000 | 0.00000 | 0.00000 | 15,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 06/30/95 | S-6 | NA | 0 | 04/20/95 | 56,000 | 0.00000 | 0.00000 | 15,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 10/04/95 | S-6 | 0 | 0 | 10/04/95 | 49,000 | 0.00000 | 0.00000 | 8,400 | 0.00000 | 0.00000 | NA | NA | NA |
| 01/03/96 | S-6 | 0 | 0 | 01/03/96 | 52,000 | 0.00000 | 0.00000 | 9,100 | 0.00000 | 0.00000 | NA | NA | NA |
| 04/11/96 | S-6 | 0 | 0 | 04/11/96 | 59,000 | 0.00000 | 0.00000 | 11,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 07/11/96 | S-6 | 0 | 0 | 07/11/96 | 72,000 | 0.00000 | 0.00000 | 18,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 10/02/96 | S-6 | 0 | 0 | 10/02/96 | 57,000 | 0.00000 | 0.00000 | 11,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 01/22/97 | S-6 | 0 | 0 | 01/22/97 | 67,000 | 0.00000 | 0.00000 | 15,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 07/21/97 | S-6 | 0 | 0 | 07/21/97 | 61,000 | 0.00000 | 0.00000 | 15,000 | 0.00000 | 0.00000 | NA | NA | NA |
| 10/29/97 | S-6 | 40 | 40 | 07/21/97 | 61,000 | 0.02036 | 0.02036 | 15,000 | 0.00501 | 0.00501 | NA | NA | NA |
| 01/22/98 | S-6 | 60 | 100 | 01/22/98 | 46,000 | 0.02303 | 0.04339 | 14,000 | 0.00701 | 0.01202 | NA | NA | NA |
| 05/01/98 | S-6 | 200 | 300 | 01/22/98 | 46,000 | 0.07677 | 0.12016 | 14,000 | 0.02336 | 0.03538 | NA | NA | NA |
| 07/08/98 | S-6 | 150 | 450 | 07/08/98 | 74,000 | 0.09262 | 0.21278 | 26,000 | 0.03254 | 0.06792 | NA | NA | NA |
| 10/26/98 | S-6 | 100 | 550 | 07/08/98 | 74,000 | 0.06175 | 0.27453 | 26,000 | 0.02170 | 0.08962 | NA | NA | NA |
| 01/28/99 | S-6 | 150 | 700 | 01/28/99 | 120,000 | 0.15020 | 0.42473 | 9,000 | 0.01126 | 0.10088 | 3,700 | 0.00463 | 0.00463 |
| 04/23/99 | S-6 | 150 | 850 | 04/23/99 | 58,500 | 0.07322 | 0.49795 | 15,900 | 0.01990 | 0.12078 | <2,500 | 0.00156 | 0.00620 |
| 07/29/99 | S-6 | 0 | 850 | 07/29/99 | 36,200 | 0.00000 | 0.49795 | 10,300 | 0.00000 | 0.12078 | <1,000 | 0.00000 | 0.00620 |
| 11/01/99 | S-6 | 150 | 1,000 | 11/01/99 | 36,000 | 0.04506 | 0.54301 | 11,700 | 0.01464 | 0.13543 | <40.0 | 0.00003 | 0.00622 |
| 01/07/00 | S-6 | 0 | 1,000 | 01/07/00 | 36,000 | 0.00000 | 0.54301 | 7,600 | 0.00000 | 0.13543 | <1,000 | 0.00000 | 0.00622 |
| 04/11/00 | S-6 | 150 | 1,150 | 04/11/00 | 14,600 | 0.01827 | 0.56128 | 7,540 | 0.00944 | 0.14487 | 621 | 0.00078 | 0.00700 |
| 07/19/00 | S-6 | 150 | 1,300 | 07/19/00 | 2,590 | 0.00324 | 0.56452 | 629 | 0.00079 | 0.14565 | 72.7 | 0.00009 | 0.00709 |
| 10/28/00 | S-6 | 45 | 1,345 | 10/12/00 | 32,900 | 0.01235 | 0.57688 | 14,200 | 0.00533 | 0.15099 | <100 | 0.00002 | 0.00711 |
| 02/05/01 | S-6 | 150 | 1,495 | 01/09/01 | 27,600 | 0.03455 | 0.61142 | 11,200 | 0.01402 | 0.16500 | 1,430 | 0.00179 | 0.00890 |

CAMBRIA

Table 2: Groundwater Extraction - Estimated Mass Removal Data - Former Shell Service Station, Incident #97093399, 461 Eighth Street, Oakland, California

| Date Purged | Well ID | Cumulative | | | TPPH | | | Benzene | | | MTBE | | |
|---------------------------------|---------|---------------------|---------------------|--------------|-------------------------------|-----------------------|-----------------------|-----------------------------|--------------------------|--------------------------|--------------------------|-----------------------|-----------------------|
| | | Volume Pumped (gal) | Volume Pumped (gal) | Date Sampled | TPPH Concentration (ppb) | TPPH Removed (pounds) | TPPH To Date (pounds) | Benzene Concentration (ppb) | Benzene Removed (pounds) | Benzene To Date (pounds) | MTBE Concentration (ppb) | MTBE Removed (pounds) | MTBE To Date (pounds) |
| 04/06/01 | S-6 | 150 | 1,645 | 04/06/01 | 16,900 | 0.02115 | 0.63258 | 7,800 | 0.00976 | 0.17477 | <20 | 0.00001 | 0.00891 |
| 07/25/01 | S-6 | 150 | 1,795 | 07/25/01 | 29,000 | 0.03630 | 0.66888 | 9,800 | 0.01227 | 0.18703 | <250 | 0.00016 | 0.00907 |
| 11/01/01 | S-6 | 150 | 1,945 | 11/01/01 | 41,000 | 0.05132 | 0.72019 | 15,000 | 0.01877 | 0.20581 | <500 | 0.00031 | 0.00938 |
| 01/17/02 | S-6 | 150 | 2,095 | 01/17/02 | 38,000 | 0.04756 | 0.76776 | 11,000 | 0.01377 | 0.21958 | <500 | 0.00031 | 0.00969 |
| 05/08/02 | S-6 | 150 | 2,245 | 05/08/02 | 72,000 | 0.09012 | 0.85787 | 21,000 | 0.02628 | 0.24586 | <1,000 | 0.00063 | 0.01032 |
| Total Gallons Extracted: | | 5,266 | | | Total Pounds Removed: | | 2,223.80 | | | 0.49591 | | | 0.01523 |
| | | | | | Total Gallons Removed: | | 0.36456 | | | 0.06793 | | | 0.00246 |

Abbreviations and Notes:

TPPH = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

ppb = Parts per billion

gal = Gallon

NA = Not available/not analyzed

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

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

TPPH, benzene analyzed by EPA Method 8015/8020

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

Purging performed by Blaine Technologies of San Jose, California

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

* = Well inaccessible

ATTACHMENT A

**Blaine Groundwater Monitoring Report
and Field Notes**

BLAINE
TECH SERVICES



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
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www.blainetech.com

January 28, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

First Quarter 2003 Groundwater Monitoring at
Former Shell Service Station
461 8th Street
Oakland, CA

Monitoring performed on January 2, 2003

Groundwater Monitoring Report 030102-SS-4

This report covers the routine monitoring of groundwater wells at this Former Shell 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. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

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

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

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. 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.
5900 Hollis Street, Suite A
Oakland, CA 94608

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

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

| | | | | | | | | | | | | |
|-----|------------|-------------------|------|------|------|------|------|----|-------------|-------|-------|----|
| S-4 | 10/26/1988 | 130 | 3.8 | 13 | 4.0 | 30 | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 02/14/1989 | <50 | 0.5 | <1 | <1 | 3.0 | NA | NA | 93.51 (TOC) | 12.82 | 80.69 | NA |
| S-4 | 05/01/1989 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 16.48 | 77.03 | NA |
| S-4 | 07/27/1989 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.84 | 77.67 | NA |
| S-4 | 10/05/1989 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.98 | 77.53 | NA |
| S-4 | 01/09/1990 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.86 | 77.65 | NA |
| S-4 | 04/30/1990 | <50 | <0.5 | <0.5 | <0.5 | <1 | NA | NA | 93.51 (TOC) | 14.48 | 79.03 | NA |
| S-4 | 07/31/1990 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 10/30/1990 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 05/06/1991 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.23 | 78.28 | NA |
| S-4 | 06/27/1991 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 93.51 (TOC) | 13.54 | 79.97 | NA |
| S-4 | 09/24/1991 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.85 | 77.66 | NA |
| S-4 | 11/07/1991 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 15.60 | 77.91 | NA |
| S-4 | 02/13/1992 | <50 | <0.5 | <0.5 | <0.5 | 3.0 | NA | NA | 93.51 (TOC) | 14.27 | 79.24 | NA |
| S-4 | 05/11/1992 | Well dry | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 12/03/1992 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 05/13/1993 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 14.81 | 78.70 | NA |
| S-4 | 07/22/1993 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 14.42 | 79.09 | NA |
| S-4 | 10/20/1993 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | NA | NA | NA |
| S-4 | 01/25/1994 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 14.60 | 78.91 | NA |
| S-4 | 04/25/1994 | Well inaccessible | NA | NA | NA | NA | NA | NA | 93.51 (TOC) | 14.39 | 79.12 | NA |
| S-4 | 07/21/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 93.51 (TOC) | 22.29 | 71.22 | NA |
| S-4 | 10/24/1994 | <500 | <0.3 | <0.3 | <0.3 | <0.6 | NA | NA | 93.51 (TOC) | 22.72 | 70.79 | NA |
| S-4 | 12/22/1994 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 25.77* | 22.25 | 3.52 | NA |
| S-4 | 04/20/1995 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 25.77 | 21.16 | 4.61 | NA |
| S-4 | 10/04/1995 | <50 | 1.2 | 0.7 | <0.5 | <0.5 | NA | NA | 25.77 | 22.25 | 3.52 | NA |
| S-4 | 01/03/1996 | <50 | 0.6 | <0.5 | <0.5 | 1.7 | NA | NA | 25.77 | 23.28 | 2.49 | NA |
| S-4 | 04/11/1996 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | NA | 25.77 | 21.58 | 4.19 | NA |

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) | |
|---------|--------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|----|
| S-4 | 07/11/1996 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 21.60 | 4.17 | NA | |
| S-4 | 10/02/1996 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.6 | NA | 25.77 | 22.46 | 3.31 | NA | |
| S-4 | 01/22/1997 | <50 | 0.73 | <0.50 | <0.50 | 0.63 | <2.5 | NA | 25.77 | 20.06 | 5.71 | NA | |
| S-4 | 07/21/1997 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 22.10 | 3.67 | NA | |
| S-4 | 01/22/1998 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 20.50 | 5.27 | NA | |
| S-4 | 07/08/1998 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 20.86 | 4.91 | NA | |
| S-4 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 21.41 | 4.36 | NA | |
| S-4 | 01/28/1999 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 22.34 | 3.43 | NA | |
| S-4 | 04/23/1999 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 21.43 | 4.34 | NA | |
| S-4 | 07/29/1999 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | NA | 25.77 | 21.45 | 4.32 | NA | |
| S-4 | 11/01/1999 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 22.08 | 3.69 | NA | |
| S-4 | 01/07/2000 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 25.77 | 22.29 | 3.48 | NA | |
| S-4 | 04/11/2000 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 21.11 | 4.66 | NA | |
| S-4 | 07/19/2000 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | NA | 25.77 | 21.19 | 4.58 | NA | |
| S-4 | 10/12/2000 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 22.22 | 3.55 | NA | |
| S-4 | 01/09/2001 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | NA | 25.77 | 22.17 | 3.60 | NA | |
| S-4 | 04/06/2001 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 21.50 | 4.27 | NA | |
| S-4 | 07/25/2001 | <50 | 2.0 | 0.52 | <0.50 | 1.0 | NA | <5.0 | 25.77 | 21.50 | 4.27 | NA | |
| S-4 | 11/01/2001 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 21.95 | 3.82 | NA | |
| S-4 | 01/17/2002 d | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 25.77 | 21.13 | 4.64 | NA | |
| S-4 | 05/08/2002 | NA | NA | NA | NA | NA | NA | NA | 25.77 | 21.35 | 4.42 | NA | |
| S-4 | 07/18/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 34.41 | 21.19 | 13.22 | NA | |
| S-4 | 10/15/2002 | NA | NA | NA | NA | NA | NA | NA | 34.41 | 21.42 | 12.99 | NA | |
| S-4 | 01/02/2003 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 34.41 | 20.75 | 13.66 | NA |
| S-5 | 04/16/1987 | 130000 | 15000 | 16000 | NA | 14000a | NA | NA | 99.36 (TOC) | NA | NA | NA | |
| S-5 | 10/26/1988 | 110000 | 20000 | 25000 | 2300 | 10000 | NA | NA | 99.36 (TOC) | NA | NA | NA | |
| S-5 | 02/14/1989 | 94000 | 16000 | 21000 | 1800 | 10000 | NA | NA | 99.36 (TOC) | 19.87 | 79.49 | NA | |

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) |
|---------|------------|-------------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
| S-5 | 05/01/1989 | 120000 | 29000 | 35000 | 3100 | 15000 | NA | NA | 99.36 (TOC) | 21.23 | 78.13 | NA |
| S-5 | 07/27/1989 | 110000 | 20000 | 29000 | 2400 | 14000 | NA | NA | 99.36 (TOC) | 20.41 | 78.95 | NA |
| S-5 | 10/05/1989 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 20.43 | 78.94 | 0.01 |
| S-5 | 01/09/1990 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.16 | 78.21 | 0.01 |
| S-5 | 04/30/1990 | 100000 | 13000 | 22000 | 2100 | 11000 | NA | NA | 99.36 (TOC) | 20.96 | 78.40 | NA |
| S-5 | 07/31/1990 | 53000 | 8300 | 14000 | 1200 | 7400 | NA | NA | 99.36 (TOC) | 20.88 | 78.48 | NA |
| S-5 | 10/30/1990 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.96 | 77.42 | 0.03 |
| S-5 | 05/06/1991 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 23.00 | 76.46 | 0.13 |
| S-5 | 06/27/1991 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 20.53 | 78.85 | 0.03 |
| S-5 | 09/24/1991 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.40 | 78.01 | 0.06 |
| S-5 | 11/07/1991 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.33 | 78.23 | 0.25 |
| S-5 | 02/13/1992 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.52 | 77.09 | 0.31 |
| S-5 | 05/11/1992 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.46 | 77.36 | 0.58 |
| S-5 | 12/03/1992 | Well inaccessible | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | NA | NA | NA |
| S-5 | 05/13/1993 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.22 | 77.36 | 0.27 |
| S-5 | 07/22/1993 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.68 | 77.88 | 0.25 |
| S-5 | 10/20/1993 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 20.51 | 79.03 | 0.23 |
| S-5 | 01/25/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.93 | 77.57 | 0.18 |
| S-5 | 04/25/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.97 | 77.67 | 0.35 |
| S-5 | 05/26/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 20.84 | 78.80 | 0.35 |
| S-5 | 06/10/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 21.01 | 78.61 | 0.32 |
| S-5 | 07/21/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.18 | 77.56 | 0.47 |
| S-5 | 08/25/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.01 | 77.70 | 0.44 |
| S-5 | 09/22/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.00 | 77.48 | 0.15 |
| S-5 | 10/24/1994 | NA | NA | NA | NA | NA | NA | NA | 99.36 (TOC) | 22.28 | 77.53 | 0.56 |
| S-5 | 12/22/1994 | NA | NA | NA | NA | NA | NA | NA | 22.94* | 22.88 | 0.85 | 0.99 |
| S-5 | 04/20/1995 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 21.66 | 1.54 | 0.33 |
| S-5 | 10/04/1995 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 22.18 | 0.76 | NA |

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) |
|---------|--------------|-------------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
| S-5 | 01/03/1996 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 22.80 | 0.80 | 0.83 |
| S-5 | 04/11/1996 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 21.15 | 2.33 | 0.67 |
| S-5 | 07/11/1996 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 22.62 | 1.04 | 0.90 |
| S-5 | 10/02/1996 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 23.07 | 0.38 | 0.64 |
| S-5 | 01/22/1997 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 20.83 | 2.24 | 0.16 |
| S-5 | 07/21/1997 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 21.16 | 1.82 | 0.05 |
| S-5 | 01/22/1998 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 20.04 | 2.93 | 0.04 |
| S-5 | 07/08/1998 | 220 | 14 | 40 | 5.8 | 34 | 3.3 | NA | 22.94 | 18.61 | 4.33 | NA |
| S-5 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 17.31 | 5.63 | NA |
| S-5 | 01/28/1999 | 51000 | 13000 | 1200 | 1200 | 2400 | 2400 | NA | 22.94 | 20.11 | 2.83 | NA |
| S-5 | 04/23/1999 | 65600 | 2540 | 7300 | 1790 | 9840 | <1000 | NA | 22.94 | 19.21 | 3.73 | NA |
| S-5 | 07/29/1999 | 61400 | 3320 | 6980 | 1520 | 7700 | <1000 | NA | 22.94 | 14.77 | 8.17 | NA |
| S-5 | 11/01/1999 | 48200 | 2700 | 5740 | 1290 | 7850 | <500 | <40.0 | 22.94 | 15.56 | 7.38 | NA |
| S-5 | 01/07/2000 | 39000 | 3900 | 8500 | 790 | 8300 | 1500 | NA | 22.94 | 15.82 | 7.12 | NA |
| S-5 | 04/11/2000 | 29300 | 1680 | 5060 | 1130 | 6220 | <250 | NA | 22.94 | 18.19 | 4.75 | NA |
| S-5 | 07/19/2000 | 6420 | 2110 | 207 | 252 | 681 | 355 | 253b | 22.94 | 19.01 | 3.93 | NA |
| S-5 | 10/12/2000 | 41500 | 2940 | 4940 | 1520 | 7770 | <250 | <66.7 | 22.94 | 19.62 | 3.32 | NA |
| S-5 | 01/09/2001 | 142000 | 7030 | 9550 | 2340 | 12600 | 779 | NA | 22.94 | 19.94 | 3.00 | NA |
| S-5 | 04/06/2001 | Well inaccessible | NA | NA | NA | NA | NA | NA | 22.94 | NA | NA | NA |
| S-5 | 04/13/2001 | 59800 | 4810 | 10800 | 1950 | 10100 | 842 | <10.0 | 22.94 | 14.72 | 8.22 | NA |
| S-5 | 07/25/2001 | 71000 | 2900 | 6800 | 1700 | 9100 | NA | <250 | 22.94 | 14.91 | 8.03 | NA |
| S-5 | 08/13/2001 | NA | NA | NA | NA | NA | NA | NA | 22.94 | 19.43 | 3.51 | NA |
| S-5 | 11/01/2001 | Unable to locate | NA | NA | NA | NA | NA | NA | 22.94 | NA | NA | NA |
| S-5 | 01/17/2002 d | 58000 | 460 | 3300 | 1900 | 8400 | NA | <200 | c | 14.27 | NA | NA |
| S-5 | 05/08/2002 d | 60000 | 650 | 2700 | 1800 | 8800 | NA | <100 | 22.94 | 18.40 | 4.54 | NA |
| S-5 | 07/18/2002 | 53000 | 240 | 1200 | 1500 | 6400 | NA | <100 | 27.36 | 14.25 | 13.11 | NA |
| S-5 | 10/15/2002 | Well inaccessible | NA | NA | NA | NA | NA | NA | 27.36 | NA | NA | NA |
| S-5 | 10/17/2002 | 42000 | 420 | 1100 | 1200 | 5500 | NA | <10 | 27.36 | 14.90 | 12.46 | NA |

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

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

| | | | | | | | | | | | | |
|-----|------------|-------|-----|------|-----|------|----|------|-------|-------|-------|----|
| S-5 | 01/02/2003 | 26000 | 680 | 1500 | 780 | 3800 | NA | <5.0 | 27.36 | 14.72 | 12.64 | NA |
|-----|------------|-------|-----|------|-----|------|----|------|-------|-------|-------|----|

| | | | | | | | | | | | | |
|---------|------------|--------|-------|-------|------|-------|----|----|--------------|-------|-------|-------|
| S-6 | 04/16/1987 | 81000 | 16000 | 9000 | NA | 6400a | NA | NA | 100.58 (TOC) | NA | NA | NA |
| S-6 | 10/26/1988 | 110000 | 29000 | 18000 | 2500 | 8200 | NA | NA | 100.58 (TOC) | NA | NA | NA |
| S-6 | 02/14/1989 | 54000 | 18000 | 4500 | 1400 | 4000 | NA | NA | 100.58 (TOC) | 20.87 | 79.71 | NA |
| S-6 | 05/01/1989 | 93000 | 43000 | 9900 | 3000 | 8000 | NA | NA | 100.58 (TOC) | 20.49 | 80.09 | NA |
| S-6 | 07/27/1989 | 52000 | 20000 | 3200 | 1700 | 5500 | NA | NA | 100.58 (TOC) | 21.01 | 79.57 | NA |
| S-6 | 10/05/1989 | 55000 | 20000 | 2900 | 1600 | 5500 | NA | NA | 100.58 (TOC) | 21.24 | 79.34 | NA |
| S-6 | 01/09/1990 | 76000 | 35000 | 9100 | 2300 | 8600 | NA | NA | 100.58 (TOC) | 22.62 | 77.96 | SHEEN |
| S-6 | 04/30/1990 | 39000 | 13000 | 2300 | 900 | 2800 | NA | NA | 100.58 (TOC) | 22.10 | 78.48 | NA |
| S-6 | 07/31/1990 | 48000 | 20000 | 4600 | 1500 | 4900 | NA | NA | 100.58 (TOC) | 22.00 | 78.58 | NA |
| S-6 | 10/30/1990 | 27000 | 7400 | 900 | 600 | 1400 | NA | NA | 100.58 (TOC) | 22.14 | 78.44 | NA |
| S-6 | 05/06/1991 | 35000 | 3900 | 2700 | 2300 | 3500 | NA | NA | 100.58 (TOC) | 22.40 | 78.18 | NA |
| S-6 | 06/27/1991 | 51000 | 19000 | 5600 | 1700 | 6300 | NA | NA | 100.58 (TOC) | 21.21 | 79.37 | NA |
| S-6 | 09/24/1991 | 42000 | 14000 | 4300 | 1200 | 4000 | NA | NA | 100.58 (TOC) | 22.26 | 78.32 | NA |
| S-6 | 11/07/1991 | 39000 | 11000 | 2000 | 800 | 2300 | NA | NA | 100.58 (TOC) | 22.35 | 78.23 | NA |
| S-6 | 02/13/1992 | 64000 | 21000 | 6200 | 1600 | 5100 | NA | NA | 100.58 (TOC) | 22.28 | 78.30 | NA |
| S-6 | 05/11/1992 | 57000 | 22000 | 7600 | 2200 | 7700 | NA | NA | 100.58 (TOC) | 22.10 | 78.48 | NA |
| S-6 | 12/03/1992 | 110000 | 26000 | 9400 | 2100 | 8700 | NA | NA | 100.58 (TOC) | 22.14 | 78.44 | NA |
| S-6 | 05/13/1993 | 58000 | 21000 | 6800 | 2500 | 9800 | NA | NA | 100.58 (TOC) | 22.16 | 78.42 | NA |
| S-6 | 07/22/1993 | 70000 | 31000 | 14000 | 3000 | 13000 | NA | NA | 100.58 (TOC) | 21.64 | 78.94 | NA |
| S-6 | 10/20/1993 | 48000 | 28000 | 9800 | 3200 | 12000 | NA | NA | 100.58 (TOC) | 21.62 | 78.96 | NA |
| S-6 | 01/25/1994 | 70000 | 23000 | 7500 | 2500 | 8000 | NA | NA | 100.58 (TOC) | 21.80 | 78.78 | NA |
| S-6 | 04/25/1994 | 61000 | 16000 | 4000 | 1800 | 5100 | NA | NA | 100.58 (TOC) | 21.68 | 78.90 | NA |
| S-6 | 07/21/1994 | 44000 | 8200 | 3600 | 1400 | 3900 | NA | NA | 100.58 (TOC) | 21.78 | 78.80 | NA |
| S-6 (D) | 07/21/1994 | 32000 | 7800 | 3400 | 1300 | 3700 | NA | NA | 22.08 | NA | NA | NA |
| S-6 | 10/24/1994 | 2936 | 1184 | 440.6 | 163 | 648.4 | NA | NA | 100.58 (TOC) | 22.06 | 78.52 | NA |
| S-6 (D) | 10/24/1994 | 2968 | 770.8 | 325.3 | 144 | 622 | NA | NA | 22.08 | NA | NA | NA |

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Former Shell Service Station
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| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) |
|---------|------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
| S-6 | 12/22/1994 | 32000 | 7000 | 2900 | 790 | 2400 | NA | NA | 22.08* | 21.91 | 0.17 | NA |
| S-6 (D) | 12/22/1994 | 32000 | 8000 | 3800 | 1100 | 3400 | NA | NA | 22.08 | NA | NA | NA |
| S-6 | 04/20/1995 | 56000 | 15000 | 3800 | 1900 | 4900 | NA | NA | 22.08 | 21.38 | 0.70 | NA |
| S-6 (D) | 04/20/1995 | 49000 | 13000 | 3500 | 1800 | 4700 | NA | NA | 22.08 | NA | NA | NA |
| S-6 | 10/04/1995 | 49000 | 8400 | 4700 | 1800 | 4800 | NA | NA | 22.08 | 21.80 | 0.28 | NA |
| S-6 (D) | 10/04/1995 | 41000 | 8400 | 4100 | 1400 | 4400 | NA | NA | 22.08 | NA | NA | NA |
| S-6 | 01/03/1996 | 52000 | 9100 | 7100 | 1800 | 5800 | NA | NA | 22.08 | 21.70 | 0.38 | NA |
| S-6 | 04/11/1996 | 59000 | 11000 | 7100 | 2100 | 6400 | <500 | NA | 22.08 | 21.62 | 0.46 | NA |
| S-6 (D) | 04/11/1996 | 59000 | 11000 | 6800 | 1900 | 6400 | <500 | NA | 22.08 | NA | NA | NA |
| S-6 | 07/11/1996 | 72000 | 18000 | 6600 | 2500 | 8400 | <1000 | NA | 22.08 | 21.65 | 2.78 | NA |
| S-6 | 10/02/1996 | 57000 | 11000 | 6500 | 1500 | 5100 | <500 | NA | 22.08 | 21.80 | 2.63 | NA |
| S-6 | 01/22/1997 | 67000 | 15000 | 5000 | 1800 | 5400 | <1000 | NA | 22.08 | 19.95 | 2.13 | NA |
| S-6 (D) | 01/22/1997 | 63000 | 15000 | 4800 | 1800 | 5200 | <1000 | NA | 22.08 | NA | NA | NA |
| S-6 | 07/21/1997 | 61000 | 15000 | 2100 | 1100 | 3500 | 1900 | NA | 22.08 | 20.61 | 1.47 | NA |
| S-6 | 01/22/1998 | 46000 | 14000 | 3200 | 1300 | 3400 | <500 | NA | 22.08 | 19.82 | 2.26 | NA |
| S-6 | 07/08/1998 | 74000 | 26000 | 7500 | 2200 | 6200 | <1000 | NA | 22.08 | 18.20 | 3.88 | NA |
| S-6 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 22.08 | 18.81 | 3.27 | NA |
| S-6 | 01/28/1999 | 120000 | 9000 | 14000 | 2700 | 14000 | 3700 | NA | 22.08 | 19.73 | 2.35 | NA |
| S-6 | 04/23/1999 | 58500 | 15900 | 1360 | 1640 | 3030 | <2500 | NA | 22.08 | 17.58 | 4.50 | NA |
| S-6 | 07/29/1999 | 36200 | 10300 | 760 | 930 | 1360 | <1000 | NA | 22.08 | 21.35 | 0.73 | NA |
| S-6 | 11/01/1999 | 36000 | 11700 | 767 | 865 | 1670 | <1250 | <40.0 | 22.08 | 19.23 | 2.85 | NA |
| S-6 | 01/07/2000 | 36000 | 7600 | 4600 | 840 | 3600 | <1000 | NA | 22.08 | 19.53 | 2.55 | NA |
| S-6 | 04/11/2000 | 14600 | 7540 | 205 | 306 | 609 | 621 | NA | 22.08 | 18.16 | 3.92 | NA |
| S-6 | 07/19/2000 | 2590 | 629 | 63.9 | 99.6 | 267 | 124 | 72.7b | 22.08 | 18.40 | 3.68 | NA |
| S-6 | 10/12/2000 | 32900 | 14200 | 966 | 1060 | 1790 | <500 | <100 | 22.08 | 19.52 | 2.56 | NA |
| S-6 | 01/09/2001 | 27600 | 11200 | 675 | 666 | 1580 | 1430 | <10.0b | 22.08 | 19.69 | 2.39 | NA |
| S-6 | 02/05/2001 | NA | NA | NA | NA | NA | NA | NA | 22.08 | 19.20 | 2.88 | NA |
| S-6 | 04/06/2001 | 16900 | 7800 | 343 | 172 | 966 | 809 | <20.0 | 22.08 | 18.25 | 3.83 | NA |

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

| | | | | | | | | | | | | |
|-----|--------------|-------|-------|------|------|------|----|-------|-------|-------|-------|----|
| S-6 | 07/25/2001 | 29000 | 9800 | 1700 | 1000 | 1800 | NA | <250 | 22.08 | 18.27 | 3.81 | NA |
| S-6 | 11/01/2001 | 41000 | 15000 | 2400 | 1100 | 2500 | NA | <500 | 22.08 | 19.30 | 2.78 | NA |
| S-6 | 01/17/2002 d | 38000 | 11000 | 1700 | 990 | 2200 | NA | <500 | 22.08 | 18.51 | 3.57 | NA |
| S-6 | 05/08/2002 | 72000 | 21000 | 4400 | 2200 | 5300 | NA | <1000 | 22.08 | 18.30 | 3.78 | NA |
| S-6 | 07/18/2002 | 71000 | 17000 | 4300 | 1700 | 4800 | NA | <1000 | 30.56 | 18.19 | 12.37 | NA |
| S-6 | 10/15/2002 | 55000 | 16000 | 4600 | 1500 | 4600 | NA | <100 | 30.56 | 18.77 | 11.79 | NA |
| S-6 | 01/02/2003 | 75000 | 21000 | 5000 | 2400 | 6400 | NA | <50 | 30.56 | 18.60 | 11.96 | NA |

| | | | | | | | | | | | | |
|---------|------------|------|------|-------|-------|------|-------|------|-------|-------|------|----|
| S-8 | 12/22/1994 | 600 | 120 | 32 | 5.2 | 34 | NA | NA | 27.21 | 24.87 | 2.34 | NA |
| S-8 | 04/20/1995 | 460 | 180 | 23 | 5.2 | 21 | NA | NA | 27.21 | 23.90 | 3.31 | NA |
| S-8 | 10/04/1995 | 830 | 210 | 38 | 11 | 42 | NA | NA | 27.21 | 24.48 | 2.73 | NA |
| S-8 | 01/03/1996 | 350 | 61 | 12 | 2.5 | 12 | NA | NA | 27.21 | 24.62 | 2.59 | NA |
| S-8 (D) | 01/03/1996 | 340 | 54 | 12 | 2.4 | 12 | NA | NA | 27.21 | NA | NA | NA |
| S-8 | 04/11/1996 | 570 | 140 | 37 | 12 | 47 | <6.2 | NA | 27.21 | 24.32 | 2.89 | NA |
| S-8 | 07/11/1996 | 980 | 98 | 32 | 9.1 | 160 | <12 | NA | 27.21 | 24.10 | 3.11 | NA |
| S-8 | 10/02/1996 | 280 | 62 | 13 | 3.3 | 25 | 15 | NA | 27.21 | 25.38 | 1.83 | NA |
| S-8 (D) | 10/02/1996 | 490 | 110 | 24 | 7.0 | 45 | 22 | <2.0 | 27.21 | NA | NA | NA |
| S-8 | 01/22/1997 | 400 | 90 | 13 | 4.9 | 25 | 12 | NA | 27.21 | 23.91 | 3.30 | NA |
| S-8 | 07/21/1997 | 2900 | 380 | 110 | 26 | 260 | 85 | NA | 27.21 | 23.62 | 3.59 | NA |
| S-8 (D) | 07/21/1997 | 3200 | 420 | 120 | 32 | 300 | 130 | NA | 27.21 | NA | NA | NA |
| S-8 | 01/22/1998 | 3800 | 790 | 140 | 42 | 330 | 160 | NA | 27.21 | 23.52 | 3.69 | NA |
| S-8 (D) | 01/22/1998 | 3500 | 780 | 120 | 33 | 300 | 160 | NA | 27.21 | NA | NA | NA |
| S-8 | 07/08/1998 | 3600 | 1800 | <25 | <25 | <25 | <125 | NA | 27.21 | 21.52 | 5.69 | NA |
| S-8 (D) | 07/08/1998 | 4000 | 1800 | <25 | <25 | 31 | <125 | NA | 27.21 | NA | NA | NA |
| S-8 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 27.21 | 22.01 | 5.20 | NA |
| S-8 | 01/28/1999 | 2000 | 630 | 6.2 | 24 | 51 | 43 | NA | 27.21 | 23.03 | 4.18 | NA |
| S-8 | 04/23/1999 | 1050 | 408 | <5.00 | <5.00 | 6.65 | <50.0 | NA | 27.21 | 22.15 | 5.06 | NA |
| S-8 | 07/29/1999 | 955 | 344 | <2.50 | 6.90 | 16.2 | <25.0 | NA | 27.21 | 21.95 | 5.26 | NA |

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| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) |
|---------|--------------|-------------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
| S-8 | 11/01/1999 | 1800 | 550 | 6.45 | 15 | 40.4 | <50.0 | NA | 27.21 | 22.55 | 4.66 | NA |
| S-8 | 01/07/2000 | 1300 | 600 | 11 | 29 | 48 | <13 | NA | 27.21 | 22.87 | 4.34 | NA |
| S-8 | 04/11/2000 | 342 | 101 | 4.42 | 4.24 | 14.7 | 21.4 | NA | 27.21 | 21.86 | 5.35 | NA |
| S-8 | 07/19/2000 | 579 | 228 | 6.37 | 6.45 | 25.0 | <12.5 | NA | 27.21 | 21.93 | 5.28 | NA |
| S-8 | 10/12/2000 | 947 | 340 | 8.64 | 3.26 | 38.3 | <12.5 | <2.00 | 27.21 | 22.92 | 4.29 | NA |
| S-8 | 01/09/2001 | 1090 | 394 | <10.0 | <10.0 | 33.3 | 57.6 | NA | 27.21 | 23.19 | 4.02 | NA |
| S-8 | 04/06/2001 | 671 | 182 | 12.5 | 16.4 | 47.1 | 42.5 | NA | 27.21 | 22.46 | 4.75 | NA |
| S-8 | 07/25/2001 | 500 | 70 | 6.7 | 11 | 23 | NA | <5.0 | 27.21 | 22.50 | 4.71 | NA |
| S-8 | 11/01/2001 | 1900 | 250 | 28 | 39 | 180 | NA | <5.0 | 27.21 | 22.44 | 4.77 | NA |
| S-8 | 01/17/2002 d | 830 | 140 | 11 | 12 | 89 | NA | <5.0 | 27.21 | 21.82 | 5.39 | NA |
| S-8 | 05/08/2002 d | 210 | 34 | 1.7 | 4.1 | 15 | NA | <5.0 | 27.21 | 21.35 | 5.86 | NA |
| S-8 | 07/18/2002 | 650 | 68 | 2.8 | 9.7 | 42 | NA | <5.0 | 35.85 | 21.53 | 14.32 | NA |
| S-8 | 10/15/2002 | 1000 | 160 | 4.2 | 7.7 | 74 | NA | <0.50 | 35.85 | 21.97 | 13.88 | NA |
| S-8 | 01/02/2003 | 440 | 55 | 1.8 | 2.9 | 31 | NA | <0.50 | 35.85 | 21.95 | 13.90 | NA |
| S-9 | 12/22/1994 | 2600 | 400 | 150 | 42 | 310 | NA | NA | 26.06 | 24.37 | 1.69 | NA |
| S-9 | 04/20/1995 | 1900 | 400 | 130 | 51 | 200 | NA | NA | 26.06 | 23.49 | 2.57 | NA |
| S-9 | 10/04/1995 | 3200 | 590 | 260 | 68 | 280 | NA | NA | 26.06 | 24.01 | 2.05 | NA |
| S-9 | 01/03/1996 | Well inaccessible | | NA | NA | NA | NA | NA | 26.06 | NA | NA | NA |
| S-9 | 04/11/1996 | 2100 | 440 | 1500 | 42 | 210 | <25 | NA | 26.06 | 23.61 | 2.45 | NA |
| S-9 | 07/11/1996 | 5200 | 940 | 450 | 120 | 520 | <50 | NA | 26.06 | 23.78 | 2.28 | NA |
| S-9 (D) | 07/11/1996 | 4800 | 890 | 430 | 110 | 500 | <50 | NA | 26.06 | NA | NA | NA |
| S-9 | 10/02/1996 | 3000 | 680 | 220 | 56 | 270 | <62 | NA | 26.06 | 24.31 | 1.75 | NA |
| S-9 | 01/22/1997 | 1500 | 230 | 71 | 36 | 130 | <12 | NA | 26.06 | 23.08 | 2.98 | NA |
| S-9 | 07/21/1997 | 3400 | 590 | 57 | 19 | 210 | 96 | NA | 26.06 | 22.83 | 3.23 | NA |
| S-9 | 01/22/1998 | 2600 | 300 | 46 | <10 | 270 | 62 | NA | 26.06 | 21.96 | 4.10 | NA |
| S-9 | 07/08/1998 | 820 | 150 | 6.2 | 8 | 57 | <10 | NA | 26.06 | 20.85 | 5.21 | NA |
| S-9 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 21.39 | 4.67 | NA |

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

| | | | | | | | | | | | | | |
|-----|--------------|-------------------|-------|--------|--------|--------|-------|------|-------|-------|-------|-------|----|
| S-9 | 01/28/1999 | <50 | 1.0 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 26.06 | 22.32 | 3.74 | NA | |
| S-9 | 04/23/1999 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 21.41 | 4.65 | NA | |
| S-9 | 07/29/1999 | 117 | 7.77 | 0.817 | 0.683 | 5.05 | <5.00 | NA | 26.06 | 21.25 | 4.81 | NA | |
| S-9 | 11/01/1999 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 21.92 | 4.14 | NA | |
| S-9 | 01/07/2000 | <50 | 1.2 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 26.06 | 22.11 | 3.95 | NA | |
| S-9 | 04/11/2000 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 21.14 | 4.92 | NA | |
| S-9 | 07/19/2000 | Well inaccessible | NA | NA | NA | NA | NA | NA | 26.06 | NA | NA | NA | |
| S-9 | 10/12/2000 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 22.24 | 3.82 | NA | |
| S-9 | 01/09/2001 | <50.0 | 1.45 | <0.500 | <0.500 | <0.500 | <2.50 | NA | 26.06 | 22.52 | 3.54 | NA | |
| S-9 | 04/06/2001 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 23.61 | 2.45 | NA | |
| S-9 | 07/25/2001 | Well inaccessible | NA | NA | NA | NA | NA | NA | 26.06 | NA | NA | NA | |
| S-9 | 08/13/2001 | Well inaccessible | NA | NA | NA | NA | NA | NA | 26.06 | NA | NA | NA | |
| S-9 | 11/01/2001 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 21.78 | 4.28 | NA | |
| S-9 | 01/17/2002 d | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 26.06 | 21.15 | 4.91 | NA | |
| S-9 | 05/08/2002 | NA | NA | NA | NA | NA | NA | NA | 26.06 | 20.56 | 5.50 | NA | |
| S-9 | 07/18/2002 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 34.70 | 20.88 | 13.82 | NA | |
| S-9 | 10/15/2002 | NA | NA | NA | NA | NA | NA | NA | 34.70 | 21.41 | 13.29 | NA | |
| S-9 | 01/02/2003 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NA | <5.0 | 34.70 | 21.35 | 13.35 | NA |

| | | | | | | | | | | | | |
|------|------------|------|-----|------|-----|----|------|----|-------|-------|------|----|
| S-10 | 12/22/1994 | 420 | 27 | 8.0 | 18 | 45 | NA | NA | 28.04 | 25.84 | 2.20 | NA |
| S-10 | 04/20/1995 | 820 | 49 | 3.7 | 97 | 52 | NA | NA | 28.04 | 24.92 | 3.12 | NA |
| S-10 | 10/04/1995 | 240 | 6.5 | 1.1 | 16 | 12 | NA | NA | 28.04 | 25.47 | 2.57 | NA |
| S-10 | 01/03/1996 | 1100 | 27 | 4.9 | 110 | 70 | NA | NA | 28.04 | 25.60 | 2.44 | NA |
| S-10 | 04/11/1996 | 530 | 19 | 1.6 | 82 | 52 | <5.0 | NA | 28.04 | 25.27 | 2.77 | NA |
| S-10 | 07/11/1996 | 570 | 16 | 3.2 | 53 | 53 | <2.5 | NA | 28.04 | 25.46 | 2.58 | NA |
| S-10 | 10/02/1996 | 270 | 8.2 | 0.77 | 24 | 23 | 3.3 | NA | 28.04 | 25.81 | 2.23 | NA |
| S-10 | 01/22/1997 | 160 | 4.8 | 0.73 | 16 | 11 | <2.5 | NA | 28.04 | 24.74 | 3.30 | NA |
| S-10 | 07/21/1997 | 530 | 5.7 | 0.70 | 29 | 69 | <2.5 | NA | 28.04 | 24.50 | 3.54 | NA |

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| Well ID | Date | TPPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | SPH Thickness (ft.) |
|---------|--------------|----------------|-------------|-------------|-------------|-------------|------------------------|------------------------|--------------|----------------------------|--------------------------|---------------------------|
| S-10 | 01/22/1998 | 1500 | 15 | <5.0 | 88 | 130 | <25 | NA | 28.04 | 24.44 | 3.60 | NA |
| S-10 | 07/08/1998 | 530 | 4.8 | 1.1 | 47 | 51 | <2.5 | NA | 28.04 | 22.36 | 5.68 | NA |
| S-10 | 10/26/1998 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 22.81 | 5.23 | NA |
| S-10 | 01/28/1999 | 630 | 4.6 | 0.98 | <0.50 | 59 | <2.5 | NA | 28.04 | 23.82 | 4.22 | NA |
| S-10 | 04/23/1999 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 22.96 | 5.08 | NA |
| S-10 | 07/29/1999 | 728 | 3.40 | <1.00 | 41.8 | 38.0 | <10.0 | NA | 28.04 | 22.63 | 5.41 | NA |
| S-10 | 11/01/1999 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 23.02 | 5.02 | NA |
| S-10 | 01/07/2000 | 870 | 8.5 | 1.3 | 110 | 110 | <2.5 | NA | 28.04 | 23.33 | 4.71 | NA |
| S-10 | 04/11/2000 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 22.64 | 5.40 | NA |
| S-10 | 07/19/2000 | 612 | 3.75 | <0.500 | 41.6 | 43.6 | <2.50 | NA | 28.04 | 23.04 | 5.00 | NA |
| S-10 | 10/12/2000 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 23.92 | 4.12 | NA |
| S-10 | 01/09/2001 | 647 | 7.62 | 1.01 | 66.2 | 42.4 | <2.50 | NA | 28.04 | 24.13 | 3.91 | NA |
| S-10 | 04/06/2001 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 25.37 | 2.67 | NA |
| S-10 | 07/25/2001 | 340 | 1.5 | <0.50 | 42 | 19 | NA | <5.0 | 28.04 | 25.35 | 2.69 | NA |
| S-10 | 11/01/2001 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 23.22 | 4.82 | NA |
| S-10 | 01/17/2002 d | 1100 | 3.5 | <0.50 | 55 | 46 | NA | <5.0 | 28.04 | 22.72 | 5.32 | NA |
| S-10 | 05/08/2002 | NA | NA | NA | NA | NA | NA | NA | 28.04 | 22.35 | 5.69 | NA |
| S-10 | 07/18/2002 | 750 | 1.8 | <0.50 | 42 | 26 | NA | <5.0 | 36.35 | 22.05 | 14.30 | NA |
| S-10 | 10/15/2002 | NA | NA | NA | NA | NA | NA | NA | 36.35 | 22.51 | 13.84 | NA |
| S-10 | 01/02/2003 | 440 | 1.8 | <0.50 | 14 | 24 | NA | <5.0 | 36.35 | 22.50 | 13.85 | NA |

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

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

Abbreviations:

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

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

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

TOB = Top of Wellbox Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

Notes:

a = Ethylbenzene and xylenes combined.

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

c = Depth to water measured from Top of Casing; elevation unknown.

d = Grab sampled.

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

Beginning July 18, 2002, well elevations taken from Top of Casing.

Site surveyed March 5, 2002, by Virgil Chavez Land Surveying of Vallejo, California.



Report Number : 30725

Date : 1/8/2003

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 6 Water Samples
Project Name : 461 8th Street, Oakland
Project Number : 030102-SS4
P.O. Number : 97093399

Dear Mr. Gearhart,

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,

A handwritten signature in black ink that reads "Joel Kiff". Below the signature, the name "Joel Kiff" is printed in a smaller, black, sans-serif font.



Report Number : 30725

Date : 1/8/2003

Project Name : 461 8th Street, Oakland

Project Number : 030102-SS4

Sample : S-4

Matrix : Water

Lab Number : 30725-01

Sample Date : 1/2/2003

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Methyl-t-butyl ether (MTBE) | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/5/2003 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene - d8 (Surr) | 99.0 | | % Recovery | EPA 8260B | 1/5/2003 |
| 4-Bromofluorobenzene (Surr) | 98.6 | | % Recovery | EPA 8260B | 1/5/2003 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 30725

Date : 1/8/2003

Project Name : 461 8th Street, Oakland

Project Number : 030102-SS4

Sample : S-5

Matrix : Water

Lab Number : 30725-02

Sample Date : 1/2/2003

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-------------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 680 | 5.0 | ug/L | EPA 8260B | 1/6/2003 |
| Toluene | 1500 | 5.0 | ug/L | EPA 8260B | 1/6/2003 |
| Ethylbenzene | 780 | 5.0 | ug/L | EPA 8260B | 1/6/2003 |
| Total Xylenes | 3800 | 5.0 | ug/L | EPA 8260B | 1/6/2003 |
| Methyl-t-butyl ether (MTBE) | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/6/2003 |
| Diisopropyl ether (DIPE) | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/6/2003 |
| Ethyl-t-butyl ether (ETBE) | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/6/2003 |
| Tert-amyl methyl ether (TAME) | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/6/2003 |
| Tert-Butanol | < 50 | 50 | ug/L | EPA 8260B | 1/6/2003 |
| TPH as Gasoline | 26000 | 500 | ug/L | EPA 8260B | 1/6/2003 |
| 1,2-Dichloroethane | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/6/2003 |
| 1,2-Dibromoethane | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/6/2003 |
| Toluene - d8 (Surr) | 96.3 | | % Recovery | EPA 8260B | 1/6/2003 |
| 4-Bromofluorobenzene (Surr) | 102 | | % Recovery | EPA 8260B | 1/6/2003 |
| Dibromofluoromethane (Surr) | 96.6 | | % Recovery | EPA 8260B | 1/6/2003 |
| 1,2-Dichloroethane-d4 (Surr) | 95.8 | | % Recovery | EPA 8260B | 1/6/2003 |

Approved By: Joel Kiff



Report Number : 30725

Date : 1/8/2003

Project Name : 461 8th Street, Oakland

Project Number : 030102-SS4

Sample : S-6

Matrix : Water

Lab Number : 30725-03

Sample Date : 1/2/2003

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-------------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 21000 | 200 | ug/L | EPA 8260B | 1/6/2003 |
| Toluene | 5000 | 50 | ug/L | EPA 8260B | 1/6/2003 |
| Ethylbenzene | 2400 | 50 | ug/L | EPA 8260B | 1/6/2003 |
| Total Xylenes | 6400 | 50 | ug/L | EPA 8260B | 1/6/2003 |
| Methyl-t-butyl ether (MTBE) | < 50 | 50 | ug/L | EPA 8260B | 1/6/2003 |
| Diisopropyl ether (DIPE) | < 50 | 50 | ug/L | EPA 8260B | 1/6/2003 |
| Ethyl-t-butyl ether (ETBE) | < 50 | 50 | ug/L | EPA 8260B | 1/6/2003 |
| Tert-amyl methyl ether (TAME) | < 50 | 50 | ug/L | EPA 8260B | 1/6/2003 |
| Tert-Butanol | < 500 | 500 | ug/L | EPA 8260B | 1/6/2003 |
| TPH as Gasoline | 75000 | 5000 | ug/L | EPA 8260B | 1/6/2003 |
| 1,2-Dichloroethane | < 50 | 50 | ug/L | EPA 8260B | 1/6/2003 |
| 1,2-Dibromoethane | < 50 | 50 | ug/L | EPA 8260B | 1/6/2003 |
| Toluene - d8 (Surr) | 99.1 | | % Recovery | EPA 8260B | 1/6/2003 |
| 4-Bromofluorobenzene (Surr) | 101 | | % Recovery | EPA 8260B | 1/6/2003 |
| Dibromofluoromethane (Surr) | 98.7 | | % Recovery | EPA 8260B | 1/6/2003 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | % Recovery | EPA 8260B | 1/6/2003 |

Approved By: Joel Kiff



Report Number : 30725

Date : 1/8/2003

Project Name : 461 8th Street, Oakland

Project Number : 030102-SS4

Sample : S-8

Matrix : Water

Lab Number : 30725-04

Sample Date : 1/2/2003

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-------------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 55 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene | 1.8 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Ethylbenzene | 2.9 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Total Xylenes | 31 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Diisopropyl ether (DIPE) | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Ethyl-t-butyl ether (ETBE) | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Tert-amyl methyl ether (TAME) | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Tert-Butanol | < 50 | 50 | ug/L | EPA 8260B | 1/5/2003 |
| TPH as Gasoline | 440 | 50 | ug/L | EPA 8260B | 1/5/2003 |
| 1,2-Dichloroethane | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| 1,2-Dibromoethane | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene - d8 (Surr) | 88.8 | | % Recovery | EPA 8260B | 1/5/2003 |
| 4-Bromofluorobenzene (Surr) | 96.0 | | % Recovery | EPA 8260B | 1/5/2003 |
| Dibromofluoromethane (Surr) | 105 | | % Recovery | EPA 8260B | 1/5/2003 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | % Recovery | EPA 8260B | 1/5/2003 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 30725

Date : 1/8/2003

Project Name : 461 8th Street, Oakland

Project Number : 030102-SS4

Sample : S-9

Matrix : Water

Lab Number : 30725-05

Sample Date : 1/2/2003

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|----------------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Methyl-t-butyl ether (MTBE) | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/5/2003 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene - d8 (Surrogate) | 93.2 | | % Recovery | EPA 8260B | 1/5/2003 |
| 4-Bromofluorobenzene (Surrogate) | 91.9 | | % Recovery | EPA 8260B | 1/5/2003 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 30725

Date : 1/8/2003

Project Name : 461 8th Street, Oakland

Project Number : 030102-SS4

Sample : S-10

Matrix : Water

Lab Number : 30725-06

Sample Date : 1/2/2003

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 1.8 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Ethylbenzene | 14 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Total Xylenes | 24 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Methyl-t-butyl ether (MTBE) | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/5/2003 |
| TPH as Gasoline | 440 | 50 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene - d8 (Surr) | 101 | | % Recovery | EPA 8260B | 1/5/2003 |
| 4-Bromofluorobenzene (Surr) | 100 | | % Recovery | EPA 8260B | 1/5/2003 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 30725

Date : 1/8/2003

QC Report: Method Blank Data

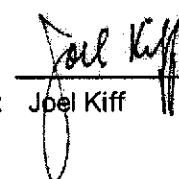
Project Name : 461 8th Street, Oakland

Project Number : 030102-SS4

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-------------------------------|----------------|------------------------|-------|-----------------|---------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Diisopropyl ether (DIPE) | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Ethyl-t-butyl ether (ETBE) | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Tert-amyl methyl ether (TAME) | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Tert-Butanol | < 50 | 50 | ug/L | EPA 8260B | 1/5/2003 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 1/5/2003 |
| 1,2-Dichloroethane | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| 1,2-Dibromoethane | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene - d8 (Sur) | 91.3 | | % | EPA 8260B | 1/5/2003 |
| 4-Bromofluorobenzene (Sur) | 116 | | % | EPA 8260B | 1/5/2003 |
| Dibromofluoromethane (Sur) | 103 | | % | EPA 8260B | 1/5/2003 |
| 1,2-Dichloroethane-d4 (Sur) | 112 | | % | EPA 8260B | 1/5/2003 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/4/2003 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/4/2003 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/4/2003 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/4/2003 |
| Methyl-t-butyl ether (MTBE) | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/4/2003 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 1/4/2003 |
| Toluene - d8 (Sur) | 99.4 | | % | EPA 8260B | 1/4/2003 |
| 4-Bromofluorobenzene (Sur) | 99.0 | | % | EPA 8260B | 1/4/2003 |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-------------------------------|----------------|------------------------|-------|-----------------|---------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/5/2003 |
| Diisopropyl ether (DIPE) | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Ethyl-t-butyl ether (ETBE) | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Tert-amyl methyl ether (TAME) | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Tert-Butanol | < 50 | 50 | ug/L | EPA 8260B | 1/5/2003 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 1/5/2003 |
| 1,2-Dichloroethane | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| 1,2-Dibromoethane | < 2.0 | 2.0 | ug/L | EPA 8260B | 1/5/2003 |
| Toluene - d8 (Sur) | 94.9 | | % | EPA 8260B | 1/5/2003 |
| 4-Bromofluorobenzene (Sur) | 92.5 | | % | EPA 8260B | 1/5/2003 |
| Dibromofluoromethane (Sur) | 110 | | % | EPA 8260B | 1/5/2003 |
| 1,2-Dichloroethane-d4 (Sur) | 106 | | % | EPA 8260B | 1/5/2003 |

Approved By: Joel Kiff



KIFF ANALYTICAL, LLC

2795 2nd St Suite 300 Davis, CA 95616 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 461 8th Street, Oakland

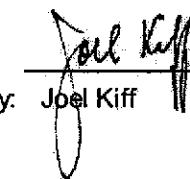
Project Number : 030102-SS4

| 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 | 30691-01 | 1.1 | 39.9 | 39.8 | 43.9 | 43.3 | ug/L | EPA 8260B | 1/5/03 | 107 | 106 | 1.27 | 70-130 | 25 |
| Toluene | 30691-01 | <0.50 | 39.9 | 39.8 | 37.4 | 37.2 | ug/L | EPA 8260B | 1/5/03 | 93.8 | 93.5 | 0.320 | 70-130 | 25 |
| Tert-Butanol | 30691-01 | <5.0 | 200 | 199 | 185 | 181 | ug/L | EPA 8260B | 1/5/03 | 92.5 | 90.8 | 1.87 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 30691-01 | 1.4 | 39.9 | 39.8 | 42.1 | 42.0 | ug/L | EPA 8260B | 1/5/03 | 102 | 102 | 0.116 | 70-130 | 25 |
| Benzene | 30717-02 | <0.50 | 40.0 | 40.0 | 42.2 | 41.8 | ug/L | EPA 8260B | 1/4/03 | 105 | 104 | 0.977 | 70-130 | 25 |
| Toluene | 30717-02 | <0.50 | 40.0 | 40.0 | 39.5 | 39.0 | ug/L | EPA 8260B | 1/4/03 | 98.8 | 97.6 | 1.25 | 70-130 | 25 |
| Tert-Butanol | 30717-02 | <5.0 | 200 | 200 | 200 | 202 | ug/L | EPA 8260B | 1/4/03 | 100 | 101 | 0.792 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 30717-02 | <0.50 | 40.0 | 40.0 | 37.2 | 37.4 | ug/L | EPA 8260B | 1/4/03 | 93.1 | 93.4 | 0.268 | 70-130 | 25 |
| Benzene | 30716-01 | <0.50 | 40.0 | 40.0 | 39.8 | 39.0 | ug/L | EPA 8260B | 1/5/03 | 99.6 | 97.4 | 2.21 | 70-130 | 25 |
| Toluene | 30716-01 | <0.50 | 40.0 | 40.0 | 38.4 | 37.3 | ug/L | EPA 8260B | 1/5/03 | 95.9 | 93.2 | 2.88 | 70-130 | 25 |
| Tert-Butanol | 30716-01 | <5.0 | 200 | 200 | 183 | 190 | ug/L | EPA 8260B | 1/5/03 | 91.5 | 94.9 | 3.64 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 30716-01 | <0.50 | 40.0 | 40.0 | 37.6 | 37.2 | ug/L | EPA 8260B | 1/5/03 | 94.0 | 93.0 | 0.989 | 70-130 | 25 |

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



Project Name : 461 8th Street, Oakland

Project Number : 030102-SS4

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|----------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Benzene | 20.0 | ug/L | EPA 8260B | 1/5/03 | 102 | 70-130 |
| Toluene | 20.0 | ug/L | EPA 8260B | 1/5/03 | 90.2 | 70-130 |
| Tert-Butanol | 100 | ug/L | EPA 8260B | 1/5/03 | 90.1 | 70-130 |
| Methyl-t-Butyl Ether | 20.0 | ug/L | EPA 8260B | 1/5/03 | 101 | 70-130 |
| | | | | | | |
| Benzene | 40.0 | ug/L | EPA 8260B | 1/4/03 | 98.4 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 1/4/03 | 98.8 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 1/4/03 | 99.5 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 1/4/03 | 87.6 | 70-130 |
| | | | | | | |
| Benzene | 40.0 | ug/L | EPA 8260B | 1/5/03 | 98.4 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 1/5/03 | 94.8 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 1/5/03 | 91.8 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 1/5/03 | 92.6 | 70-130 |



SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be Invoiced:

| |
|---|
| <input checked="" type="checkbox"/> SCIENCE & ENGINEERING |
| <input type="checkbox"/> TECHNICAL SERVICES |
| <input type="checkbox"/> CRMT HOUSTON |

Karen Petryna

30725

INCIDENT NUMBER (S&E ONLY)

9 7 0 9 3 3 9 9

SAP or CRMT NUMBER (TS/CRMT)

DATE: 1/2/03

PAGE: 1 of 1

SAMPLING COMPANY:

Blaine Tech Services

LOG CODE:

BTSS

ADDRESS:

1680 Rogers Avenue, San Jose, CA 95112

PROJECT CONTACT (Handcopy or PDF Report to):

Leon Gearhart

TELEPHONE:

408-573-0555

FAX:

408-573-7771

E-MAIL:

lgearhart@blainetech.com

TURNAROUND TIME (BUSINESS DAYS):

10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED

SITE ADDRESS (Street and City):

461 8th Street, Oakland

GLOBAL ID NO.:

T0600101263

E-MAIL:

ShellOaklandEDF@cambria-env.com

CONSULTANT PROJECT NO.:

BTS # 030102-554

LAB USE ONLY

Swanson SWK

REQUESTED ANALYSIS

FIELD NOTES:

Container/Preservative
or PID Readings
or Laboratory Notes

LAB
USE
ONLY

Field Sample Identification

SAMPLING

MATRIX

NO. OF
CONT.

DATE

TIME

TPH - Gas, Purgeable

BTX

MTBE (0.021B - 5ppb RL)

MTBE (0.260B - 0.5ppb RL)

Oxygenates (5) by (0.260B)

Ethanol (0.260B)

Merchand

1,2-DCA (0.260B)

EDB (0.260B)

TPH - Diesel, Extractable (0.015m)

TEMPERATURE ON RECEIPT C°

S-4
1/2/03 1245 SW 3 X X X

-01

S-5
1325 1 3 X X X

-02

S-6
1340 3 X X X

-03

S-8
1305 3 X X X

-04

S-9
1315 3 X X X

-05

S-10
1255 3 X X X

-06

Relinquished by: (Signature)

Received by: (Signature)

Date:

Time:

Relinquished by: (Signature)

Received by: (Signature)

Date:

Time:

Relinquished by: (Signature)

Received by: (Signature)

Date:

Time:

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

010303

1050

10/16/00 Revision

WELL GAUGING DATA

Project # 030102554 Date 12/03 Client Shear

Site 461 8th St. OAKLAND CA.

| 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 or TOE | |
|---------|-----------------|--------------|----------------------------------|--------------------------------------|------------------------------------|----------------------|----------------------------|--------------------------|---------------------|
| S-4 | 4 | | | | | 20.75 | 28.90 | | |
| S-5 | 4 | | | | | 19.72 | 38.61 | | broken cap |
| S-6 | 4 | | | | | 18.60 | 36.42 | | |
| S-8 | 4 | | | | | 21.95 | 29.25 | | broken cap from box |
| S-9 | 4 | | | | | 21.35 | 29.89 | | No lock |
| S-10 | 4 | | | | | 22.50 | 36.40 | | broken cap from box |
| | | | | | | | | | |
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SHELL WELL MONITORING DATA SHEET

| | | | | | | | | |
|--|------------|-------|-----------------------------------|---------------------|------|---|---|---|
| BTS #: | 030102-554 | | Site: | 461 8th ST. OAKLAND | | | | |
| Sampler: | Soil | | Date: | 1/2/03 | | | | |
| Well I.D.: | S-4 | | Well Diameter: | 2 | 3 | 4 | 6 | 8 |
| Total Well Depth (TD): | 28.90 | | Depth to Water (DTW): | 20.75 | | | | |
| Depth to Free Product: | | | Thickness of Free Product (feet): | | | | | |
| Referenced to: | PVC | Grade | D.O. Meter (if req'd): | YSI | HACH | | | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: | | | | | | | | |

| | | | | |
|---------------|----------------------|-----------------|------------------|-------------------|
| Purge Method: | Bailer | Warter | Sampling Method: | Bailer |
| | Disposable Bailer | Peristaltic | | Disposable Bailer |
| | Middleburg | Extraction Pump | | Extraction Port |
| | Electric Submersible | Other _____ | | Dedicated Tubing |

NO PURGE

| 1 Case Volume | (Gals.) X | Specified Volumes | = | Gals. | 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 ² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations |
|------|-----------|-----|---------------------|---------------------|---------------|--------------|
| 1245 | 66.0 | 7.4 | 483 | 31 | — | CLEAR |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: 1/2/03 Sampling Time: 1245 Depth to Water: 20.75

Sample I.D.: S-4 Laboratory: Kiff SPL Other: _____

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

EB I.D. (if applicable): @ _____ Duplicate I.D. (if applicable): _____

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

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

SHELL WELL MONITORING DATA SHEET

| | | | | | | | | | |
|--|------------|-------|--|-----------------------------------|---------------------|------|---|---|---|
| BTS #: | 030102-554 | | | Site: | 461 8th ST. OAKLAND | | | | |
| Sampler: | Soil | | | Date: | 1/2/03 | | | | |
| Well I.D.: | S-5 | | | Well Diameter: | 2 | 3 | 4 | 6 | 8 |
| Total Well Depth (TD): | 38.6 | | | Depth to Water (DTW): | 14.72 | | | | |
| Depth to Free Product: | | | | Thickness of Free Product (feet): | | | | | |
| Referenced to: | (PVC) | Grade | | D.O. Meter (if req'd): | YSI | HACH | | | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: | | | | | | | | | |

Purge Method: Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible

Waterfall
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other: _____

~~NO DOWSE~~
 (Gals.) X _____ = _____ 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 ² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations |
|------|-----------|-----|------------------|------------------|---------------|--------------------|
| 1325 | 67.3 | 6.5 | 640 | 29 | — | CLEAR (GAS ON TOP) |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: 1/2/03 Sampling Time: 1325 Depth to Water: 14.72

Sample I.D.: S-5 Laboratory: Kiff SPL Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXYS + 1,2-DCA, EDB by 8260

EB I.D. (if applicable): @ _____ Duplicate I.D. (if applicable): _____

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

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

O.R.P. (if req'd): Pre-purge: mV Post-purge: mV

SHELL WELL MONITORING DATA SHEET

| | | | |
|--|--------------------------------------|----------------------------|------|
| BTS #: 030102-554 | Site: 461 8th ST. ATKLAND | | |
| Sampler: Scott | Date: 1/21/03 | | |
| Well I.D.: S-6 | Well Diameter: 2 3 <u>4</u> 6 8 | | |
| Total Well Depth (TD): 36.42 | Depth to Water (DTW): 18.60 | | |
| Depth to Free Product: | Thickness of Free Product (feet): | | |
| Referenced to: PVC | Grade | D.O. Meter (if req'd): YSI | HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: | | | |

Purge Method: Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible
 Waterjet
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other _____

| NO PURGE | | | | Other: | |
|---------------|-----------|-------------------|---|-------------------|-------|
| 1 Case Volume | (Gals.) X | Specified Volumes | = | Calculated Volume | Gals. |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Time | Temp (°F) | pH | Cond. (mS or μ S) | Turbidity (NTUs) | Gals. Removed | Observations |
|------|-----------|-----|-----------------------|------------------|---------------|----------------|
| 1340 | 67.0 | 6.5 | 1043 | 30 | — | CLEAR/gas odor |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 1/21/03 Sampling Time: 1340 Depth to Water: 18.60

Sample I.D.: S-6 Laboratory: Kiff SPL Other:

Analyzed for: TPH-G BTEX MTBE TPH-D Other: oxy's, 1,2-dca, DDB by 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

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

SHELL WELL MONITORING DATA SHEET

| | | | | | | | | |
|--|------------|-------|-----------------------------------|---------------------|------|---|---|---|
| BTS #: | 030102-554 | | Site: | 461 8th ST. OAKLAND | | | | |
| Sampler: | Soil | | Date: | 1/2/03 | | | | |
| Well I.D.: | 5-8 | | Well Diameter: | 2 | 3 | 4 | 6 | 8 |
| Total Well Depth (TD): | 29.25 | | Depth to Water (DTW): | 21.95 | | | | |
| Depth to Free Product: | | | Thickness of Free Product (feet): | | | | | |
| Referenced to: | PVC | Grade | D.O. Meter (if req'd): | YSI | HACH | | | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: | | | | | | | | |

| Purge Method: | Bailer | Water | Sampling Method: | Bailer | | | | | | | | | | | | | | | | |
|--|----------------------|------------------|-----------------------------|-------------------|---------------|------------|---------------|------------|----|------|----|------|----|------|----|------|----|------|-------|-----------------------------|
| | Disposable Bailer | Peristaltic | | Disposable Bailer | | | | | | | | | | | | | | | | |
| | Middleburg | Extraction Pump | | Extraction Port | | | | | | | | | | | | | | | | |
| | Electric Submersible | Other _____ | | Dedicated Tubing | | | | | | | | | | | | | | | | |
| | | | Other: _____ | | | | | | | | | | | | | | | | | |
| <i>No Purge</i> | | <i>(Gals.) X</i> | <i>=</i> | <i>Gals.</i> | | | | | | | | | | | | | | | | |
| 1 Case Volume | Specified Volumes | | Calculated Volume | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table> | | | | | Well Diameter | Multiplier | Well Diameter | Multiplier | 1" | 0.04 | 4" | 0.65 | 2" | 0.16 | 6" | 1.47 | 3" | 0.37 | Other | radius ² * 0.163 |
| Well Diameter | Multiplier | Well Diameter | Multiplier | | | | | | | | | | | | | | | | | |
| 1" | 0.04 | 4" | 0.65 | | | | | | | | | | | | | | | | | |
| 2" | 0.16 | 6" | 1.47 | | | | | | | | | | | | | | | | | |
| 3" | 0.37 | Other | radius ² * 0.163 | | | | | | | | | | | | | | | | | |

| Time | Temp (°F) | pH | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations |
|------|-----------|-----|---------------------|---------------------|---------------|--------------|
| 1305 | 68.3 | 6.7 | 627 | 20 | — | CLEAR |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 1/2/03 Sampling Time: 1305 Depth to Water: 21.95

Sample I.D.: 5-8 Laboratory: Kiff SPL Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxy's, 1,2-DCA, EDB By 9260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

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

O.R.P. (if req'd): Pre-purge: mV Post-purge: mV

SHELL WELL MONITORING DATA SHEET

| | | | | | | | |
|--|------------|-------|--|-----------------------------------|---------------------|------|---------|
| BTS #: | 030102-554 | | | Site: | 461 8th St. Oakland | | |
| Sampler: | Soest | | | Date: | 1/2/03 | | |
| Well I.D.: | S-9 | | | Well Diameter: | 2 | 3 | (4) 6 8 |
| Total Well Depth (TD): | 29.89 | | | Depth to Water (DTW): | 21.35 | | |
| Depth to Free Product: | | | | Thickness of Free Product (feet): | | | |
| Referenced to: | PVC | Grade | | D.O. Meter (if req'd): | YSI | HACH | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: | | | | | | | |

Purge Method: Bailei
 Disposable Bailei
 Middleburg
 Electric Submersible

Watera
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailei
 Disposable Bailei
 Extraction Port
 Dedicated Tubing

Other: _____

| NO Purge | | | | Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|-------------------|-------------------|-------|---------------|------------|---------------|-----------------------------|
| (Gals.) X | X | = | Gals. | 1" | 0.04 | 4" | 0.65 |
| 1 Case Volume | Specified Volumes | Calculated Volume | | 2" | 0.16 | 6" | 1.47 |
| | | | | 3" | 0.37 | Other | radius ² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations |
|------|-----------|-----|---------------------|---------------------|---------------|--------------|
| 1315 | 66.2 | 6.5 | 435 | 17 | — | clear |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: 1/2/03 Sampling Time: 1315 Depth to Water: 21.35

Sample I.D.: S-9 Laboratory: Kiff SPL Other: _____

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

EB I.D. (if applicable): @ _____ Duplicate I.D. (if applicable): _____

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

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

O.R.P. (if req'd): Pre-purge: mV Post-purge: mV

SHELL WELL MONITORING DATA SHEET

| | | | | | | | |
|--|------------|-------|--|-----------------------------------|---------------------|------|---------|
| BTS #: | 030102-554 | | | Site: | 461 8th ST. OAKLAND | | |
| Sampler: | Soil | | | Date: | 1/2/03 | | |
| Well I.D.: | S-10 | | | Well Diameter: | 2 | 3 | (4) 6 8 |
| Total Well Depth (TD): | 36.40 | | | Depth to Water (DTW): | 22.50 | | |
| Depth to Free Product: | | | | Thickness of Free Product (feet): | | | |
| Referenced to: | PVC | Grade | | D.O. Meter (if req'd): | VSI | HACH | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: | | | | | | | |

Purge Method: Baile Water Sampling Method: Baile
 Disposable Baile Peristaltic Disposable Baile
 Middleburg Extraction Pump Extraction Port
 Electric Submersible Other Dedicated Tubing

No purge
 (Gals.) X = 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 ² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations |
|------|-----------|-----|------------------|------------------|---------------|--------------|
| 1255 | 67.0 | 6.6 | 905 | 25 | — | Clean-up |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 1/2/03 Sampling Time: 1255 Depth to Water: 22.50

Sample I.D.: S-10 Laboratory: Kiff SPL Other

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

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

| | | | | |
|--------------------|------------|----|-------------|----|
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |
|--------------------|------------|----|-------------|----|