

May 7, 2003

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

**Subject: Shell-branded Service Station**  
999 San Pablo Avenue  
Albany, California

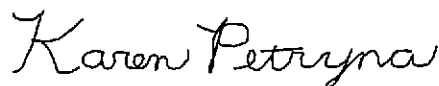
Dear Mr. Hwang:

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  
Sr. Environmental Engineer

Alameda County  
MAY 13 2003  
Environmental Health

May 7, 2003

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

Re: **First Quarter 2003 Monitoring Report**  
Shell-branded Service Station  
999 San Pablo Avenue  
Albany, California  
Incident #98995143  
Cambria Project #245-0366-002



Dear Mr. Hwang:

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, sampled and collected dissolved oxygen (DO) concentrations in selected site wells, calculated groundwater elevations, and compiled the analytical data. The Arco station located at 1001 San Pablo Avenue was not sampled during the first quarter. As stated in our February 20, 2002 *Fourth Quarter 2001 Monitoring Report*, sampling of well S-5 as part of the site monitoring program for the Shell station has been suspended pending well ownership transfer to Arco, and Arco has taken over monitoring of well S-5. Cambria prepared a vicinity map which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

**Oxygen Releasing Compound (ORC) Installation:** As recommended in our August 12, 2002 *Second Quarter 2002 Monitoring Report*, Blaine installed ORCs in wells S-2 and S-3 during the fourth quarter 2002 monitoring event to enhance intrinsic biodegradation at the site. The ORCs will be replaced semi-annually.

**Cambria  
Environmental  
Technology, Inc.**

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

**ANTICIPATED SECOND QUARTER 2003 ACTIVITIES**

**Groundwater Monitoring:** Blaine will gauge, sample and measure DO concentrations in selected site wells and tabulate the data. The second quarter 2003 monitoring event will be coordinated with the sampling of the ARCO service station located across Marin Avenue from the site. Cambria will prepare a monitoring report.

**Oxygen Releasing Compound (ORC) Replacement:** The ORCs installed in wells S-2 and S-3 are scheduled to be replaced during the second quarter 2003.



**Subsurface Investigation:** Upon receiving written approval of our September 26, 2002 *Subsurface Investigation Work Plan*, Cambria will acquire the permits and schedule field activities.

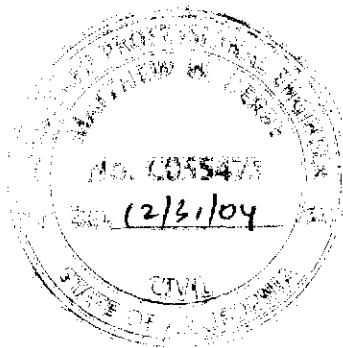
**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Ana Friel at (707) 442-2700 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**

Jacquelyn L. Jones  
Project Geologist

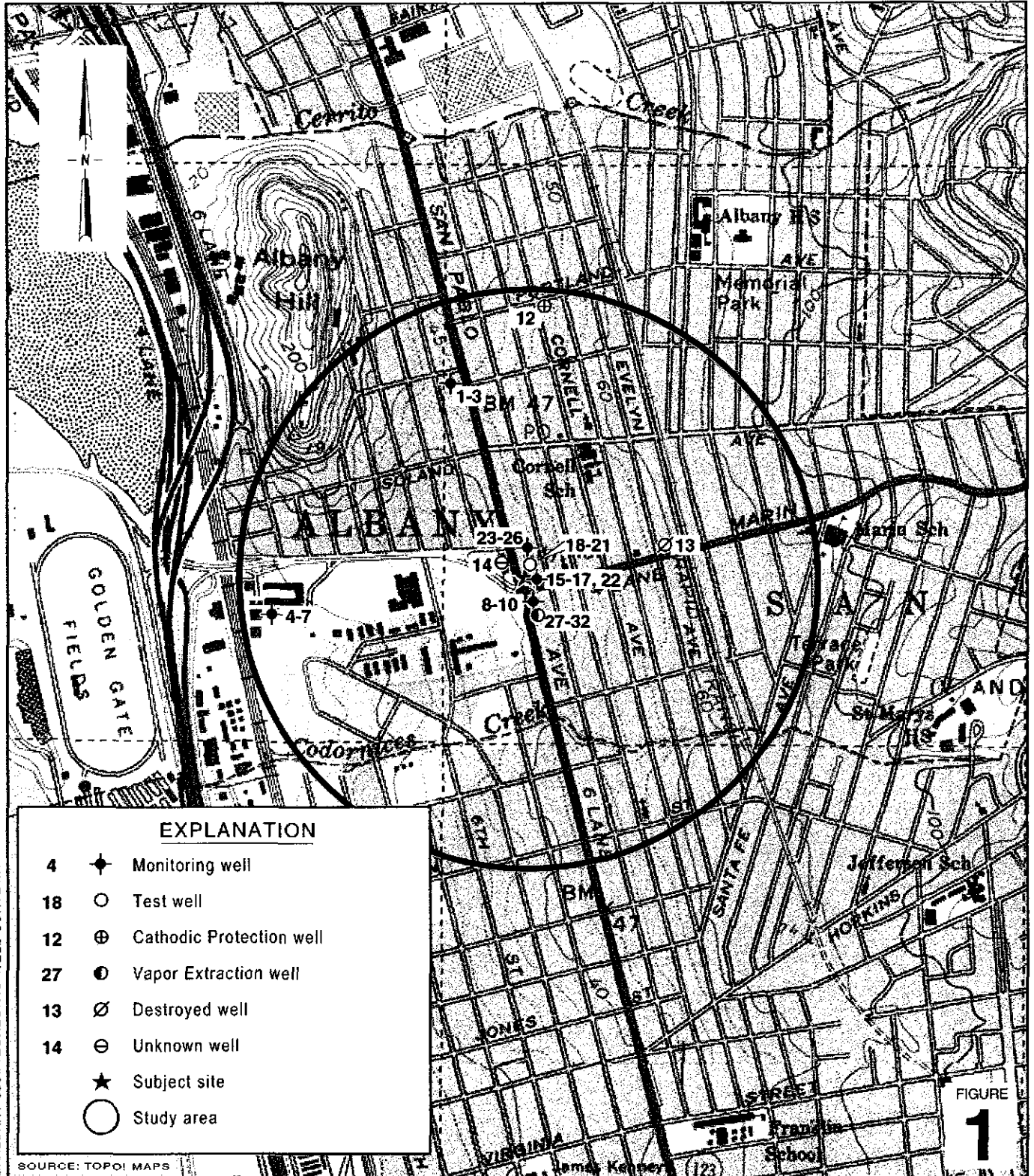
Matthew W. Derby, P.E.  
Senior Project Engineer



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

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

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



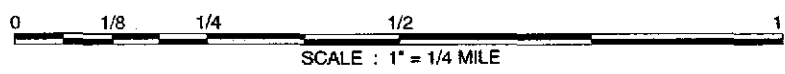
**EXPLANATION**

- 4    ✦    Monitoring well
- 18    ○    Test well
- 12    ⊕    Cathodic Protection well
- 27    ⊙    Vapor Extraction well
- 13    ∅    Destroyed well
- 14    ⊖    Unknown well
- ★    Subject site
- Study area

G:\ALBANY 999\FIGURES\VIC-WELL-SURVEY.A1

SOURCE: TOPOI MAPS

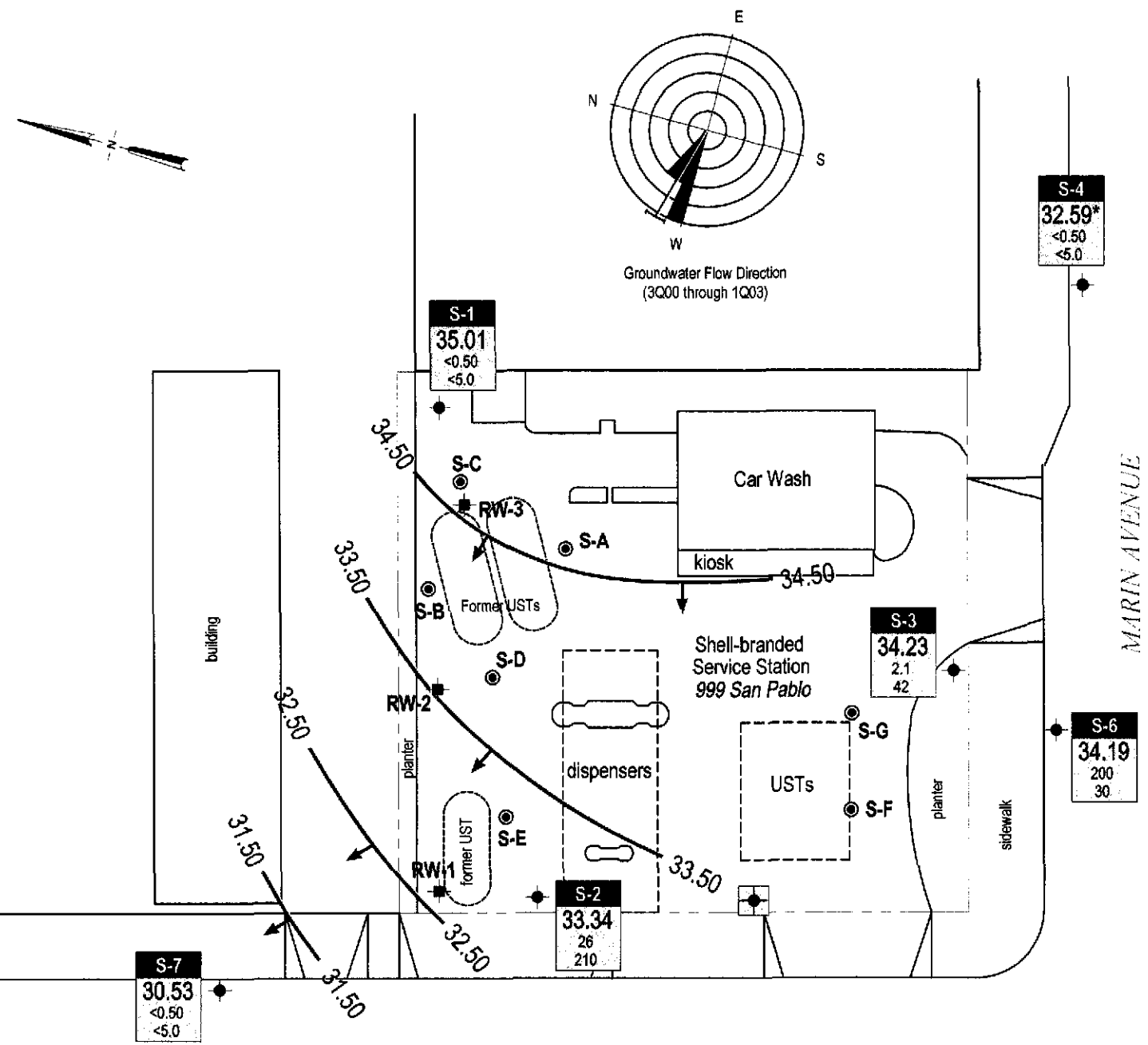
FIGURE  
**1**



**Shell-branded Service Station**  
 999 San Pablo Avenue  
 Albany, California  
 Incident #98995143



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



### EXPLANATION

- Proposed monitoring well location (Shell) NA Not available
- S-1 Monitoring well location (Shell) \* Data anomalous, not used for contouring
- RW-1 Recovery well location (Shell) → Groundwater flow direction
- SB-1 Soil boring location (Shell) XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred
- MW-1 Monitoring well location (Arco)
- S-5 Monitoring well location (Arco)
- VW-1 Vapor extraction well location (Arco)
- AS-1 Air sparge well location (Arco)

Well Designation Legend:

- Well
- ELEV Groundwater elevation, in feet above msl
- Benzene Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.
- MTBE

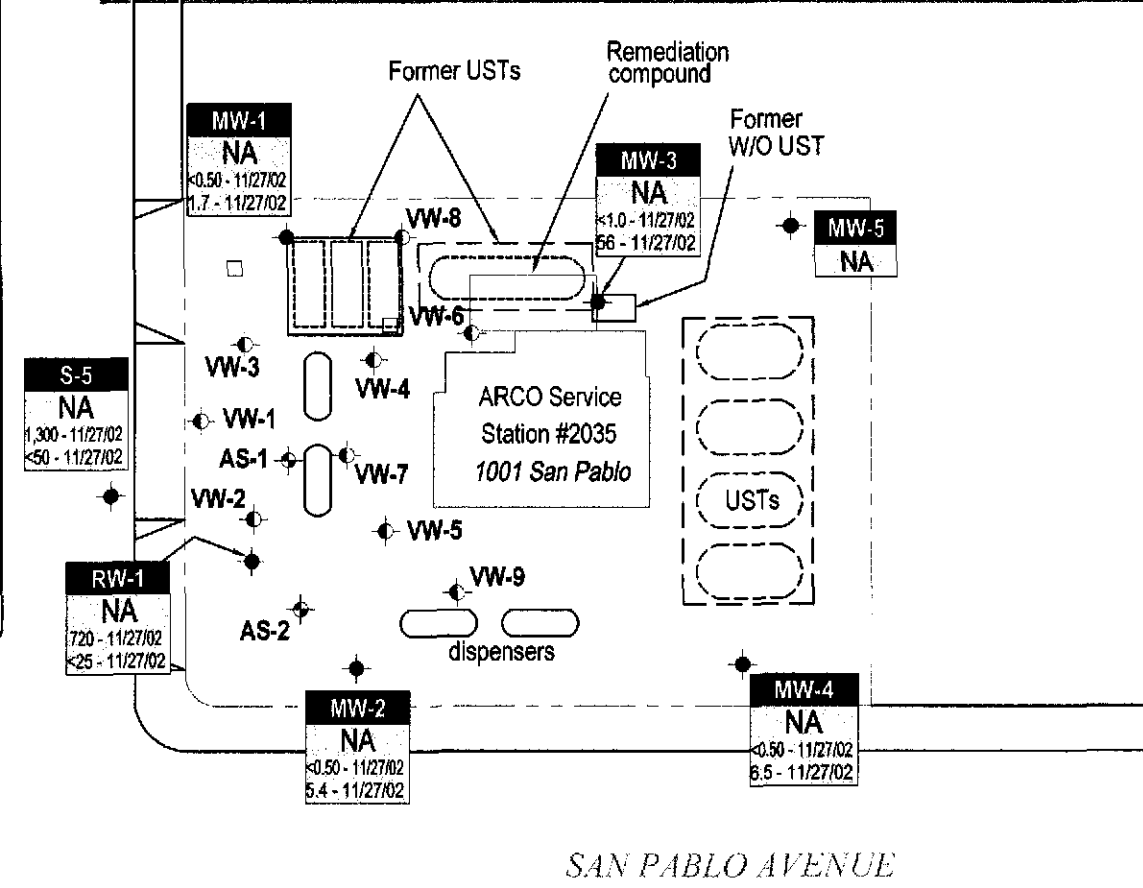


FIGURE  
**2**

**Groundwater Elevation Contour Map**



**Shell-branded Service Station**  
999 San Pablo Avenue  
Albany, California  
Incident #98995143

C A M B R I A

January 30, 2003

G:\ALBANY999SAMP\ALBANY\FIGURES\10MG3-MP.DWG

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

**BLAINE**  
TECH SERVICES, INC.



1680 ROGERS AVENUE  
SAN JOSE, CA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE  
CONTRACTOR'S LICENSE #746684  
www.blainetech.com

March 5, 2003

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

First Quarter 2003 Groundwater Monitoring at  
Shell-branded Service Station  
999 San Pablo Avenue  
Albany, CA

Monitoring performed on January 30, 2003

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Groundwater Monitoring Report 030130-MN-2

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. 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**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, 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.)	DO Reading (ppm)
S-1	05/13/1991	1,500	20	2.6	86	74	NA	NA	42.73	8.24	34.49	NA	NA
S-1	08/23/1991	2,900	27	<2.5	75	18	NA	NA	42.73	8.37	34.36	NA	NA
S-1	11/07/1991	2,900	8	2.5	46	26	NA	NA	42.73	8.30	34.43	NA	NA
S-1	01/28/1992	2,000	11	<2.5	60	20	NA	NA	42.73	7.84	34.89	NA	NA
S-1	05/06/1992	1,200	5.5	<2.5	80	36	NA	NA	42.73	7.95	34.78	NA	NA
S-1	08/26/1992	2,000	9.4	<2.5	130	<2.5	NA	NA	42.73	8.24	34.49	NA	NA
S-1	10/28/1992	1,300	27	3.2	72	13	NA	NA	42.73	8.52	34.21	NA	NA
S-1	01/19/1993	1,500	13	3	29	31	NA	NA	42.73	6.54	36.19	NA	NA
S-1	04/29/1993	2,000	15	<2.5	82	<65	NA	NA	42.73	7.93	34.80	NA	NA
S-1	07/22/1993	620	1.1	4.2	3.5	13	NA	NA	42.73	8.09	34.64	NA	NA
S-1	10/21/1993	1,200	34	25	15	9.5	NA	NA	42.73	9.43	33.30	NA	NA
S-1	01/04/1994	860	<2.5	<2.5	5.7	5.3	NA	NA	42.73	8.25	34.48	NA	NA
S-1	04/13/1994	NA	NA	NA	NA	NA	NA	NA	42.73	8.02	34.71	NA	NA
S-1	07/25/1994	1,200	8.3	7.4	15	20	NA	NA	42.73	8.22	34.51	NA	NA
S-1	10/10/1994	NA	NA	NA	NA	NA	NA	NA	42.73	8.29	34.44	NA	NA
S-1	01/26/1995	1,000	12	0.6	12	420	NA	NA	42.73	6.88	35.85	NA	NA
S-1	04/21/1995	NA	NA	NA	NA	NA	NA	NA	42.73	7.65	35.08	NA	NA
S-1	07/28/1995	660	7.2	1	11	8.9	NA	NA	42.73	7.90	34.83	NA	4
S-1	10/31/1995	NA	NA	NA	NA	NA	NA	NA	42.73	7.72	35.01	NA	NA
S-1	01/10/1996	1,100	3.5	7	5.1	9.4	NA	NA	42.73	8.24	34.49	NA	7.4
S-1	04/25/1996	NA	NA	NA	NA	NA	NA	NA	42.73	7.74	34.99	NA	NA
S-1	07/23/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	42.73	7.92	34.81	NA	2.7
S-1	12/10/1996	NA	NA	NA	NA	NA	NA	NA	42.73	7.56	35.17	NA	0.6
S-1	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	42.73	7.95	34.78	NA	3
S-1	05/22/1997	NA	NA	NA	NA	NA	NA	NA	42.73	8.11	34.62	NA	0.5
S-1	08/22/1997	810	18	<2.0	5.1	4.4	18	NA	42.73	7.86	34.87	NA	3
S-1	11/03/1997	NA	NA	NA	NA	NA	NA	NA	42.73	8.35	34.38	NA	1.1

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, 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.)	DO Reading (ppm)
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S-1	02/20/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	42.73	6.09	36.64	NA	2.9
S-1	05/18/1998	NA	NA	NA	NA	NA	NA	NA	42.73	7.69	35.04	NA	1.1
S-1	08/20/1998	390	6.7	<0.50	0.64	<0.50	14	NA	42.73	8.20	34.53	NA	1.9
S-1	11/06/1998	NA	NA	NA	NA	NA	NA	NA	42.73	8.23	34.50	NA	NA
S-1	02/16/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	42.73	7.47	35.26	NA	1.5
S-1	05/28/1999	NA	NA	NA	NA	NA	NA	NA	42.73	7.60	35.13	NA	1.3
S-1	08/24/1999	72.4	<0.500	<0.500	<0.500	<0.500	<2.50	NA	42.73	7.95	34.78	NA	1.4
S-1	11/16/1999	NA	NA	NA	NA	NA	NA	NA	42.73	7.87	34.86	NA	1.3
S-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	42.73	7.26	35.47	NA	1.4
S-1	05/09/2000	NA	NA	NA	NA	NA	NA	NA	42.73	8.13	34.60	NA	1.0
S-1	08/03/2000	209	6.42	<0.500	<0.500	<0.500	<2.50	NA	42.73	8.12	34.61	NA	1.4
S-1	11/15/2000	NA	NA	NA	NA	NA	NA	NA	42.73	8.06	34.67	NA	1.0
S-1	02/14/2001	179	4.46	<0.500	<0.500	<0.500	8.72	NA	42.73	8.08	34.65	NA	1.1
S-1	05/31/2001	NA	NA	NA	NA	NA	NA	NA	42.73	8.05	34.68	NA	1.0
S-1	08/15/2001	270	<0.50	<0.50	<0.50	<0.50	NA	<5.0	42.73	8.40	34.33	NA	1.3
S-1	12/31/2001	NA	NA	NA	NA	NA	NA	NA	42.73	7.42	35.31	NA	0.4
S-1	02/06/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	42.73	7.60	35.13	NA	2.2
S-1	06/04/2002	NA	NA	NA	NA	NA	NA	NA	42.73	8.16	34.57	NA	0.8
S-1	07/25/2002	230	<0.50	<0.50	<0.50	<0.50	NA	<5.0	42.57	7.84	34.73	NA	0.9
S-1	11/27/2002	NA	NA	NA	NA	NA	NA	NA	42.57	8.01	34.56	NA	0.6
S-1	01/30/2003	310	<0.50	<0.50	3.6	1.6	NA	<5.0	42.57	7.56	35.01	NA	1.5

S-2	05/13/1991	23,000	3,900	230	1,100	3,200	NA	NA	40.73	8.50	32.23	NA	NA
S-2	08/23/1991	23,000	4,400	260	1,900	2,400	NA	NA	40.73	8.80	31.93	NA	NA
S-2	11/07/1991	40,000	4,000	160	1,020	3,400	NA	NA	40.73	8.61	32.12	NA	NA
S-2	01/28/1992	22,000	1,600	70	420	1,700	NA	NA	40.73	7.80	32.93	NA	NA
S-2	05/06/1992	20,000	2,600	110	860	1,900	NA	NA	40.73	8.10	32.63	NA	NA
S-2	08/26/1992	42,000	5,000	160	1,100	3,500	NA	NA	40.73	8.37	32.36	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, 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.)	DO Reading (ppm)
S-2	10/28/1992	34,000	4,800	330	1,600	2,900	NA	NA	40.73	8.64	32.09	NA	NA
S-2	01/19/1993	20,000	2,300	370	660	1,300	NA	NA	40.73	5.82	34.91	NA	NA
S-2	04/29/1993	40,000	2,000	67	900	1,900	NA	NA	40.73	7.70	33.03	NA	NA
S-2	07/22/1993	22,000	3,000	120	1,000	1,600	NA	NA	40.73	8.38	32.35	NA	NA
S-2 (D)	07/22/1993	17,000	3,000	110	1,000	1,500	NA	NA	40.73	8.38	32.35	NA	NA
S-2	10/21/1993	14,000	2,800	74	870	1,100	NA	NA	40.73	8.58	32.15	NA	NA
S-2 (D)	10/21/1993	13,000	3,200	53	960	820	NA	NA	40.73	8.58	32.15	NA	NA
S-2	01/04/1994	21,000	2,100	67	990	770	NA	NA	40.73	7.70	33.03	NA	NA
S-2 (D)	01/04/1994	22,000	2,000	64	910	750	NA	NA	40.73	7.70	33.03	NA	NA
S-2	04/13/1994	NA	NA	NA	NA	NA	NA	NA	40.73	7.62	33.11	NA	NA
S-2	07/25/1994	43,000	2,600	490	990	1,300	NA	NA	40.73	7.86	32.87	NA	NA
S-2	10/10/1994	NA	NA	NA	NA	NA	NA	NA	40.73	8.12	32.61	NA	NA
S-2	01/26/1995	21,000	790	12	290	570	NA	NA	40.73	6.38	34.35	NA	5.5
S-2	04/21/1995	NA	NA	NA	NA	NA	NA	NA	40.73	7.01	33.72	NA	NA
S-2	07/28/1995	14,000	2,400	360	960	370	NA	NA	40.73	7.82	32.91	NA	4
S-2	10/31/1995	NA	NA	NA	NA	NA	NA	NA	40.73	7.57	33.16	NA	NA
S-2	01/10/1996	17,000	1,400	<50	480	170	NA	NA	40.73	8.13	32.60	NA	7.2
S-2	04/25/1996	NA	NA	NA	NA	NA	NA	NA	40.73	7.72	33.01	NA	NA
S-2	07/23/1996	16,000	2,700	69	1,100	110	9,500	NA	40.73	8.10	32.63	NA	2.2
S-2 (D)	07/23/1996	11,000	2,600	68	1,000	96	10,000	11,000	40.73	8.10	32.63	NA	2.2
S-2	12/10/1996	NA	NA	NA	NA	NA	NA	NA	40.73	8.57	32.16	NA	0.5
S-2	02/20/1997	10,000	500	<10	90	130	6,400	NA	40.73	8.15	32.58	NA	4
S-2	05/22/1997	NA	NA	NA	NA	NA	NA	NA	40.73	8.79	31.94	NA	1.1
S-2	08/22/1997	23,000	1,300	65	740	290	4,500	NA	40.73	8.05	32.68	NA	3.2
S-2 (D)	08/22/1997	20,000	1,200	<100	630	250	3,900	NA	40.73	8.05	32.68	NA	3.2
S-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	40.73	8.75	31.98	NA	1.2
S-2	02/20/1998	450	28	1.3	7.4	12	35	NA	40.73	6.34	34.39	NA	0.4
S-2	05/18/1998	NA	NA	NA	NA	NA	NA	NA	40.73	7.95	32.78	NA	0.8

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, 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.)	DO Reading (ppm)
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S-2	08/20/1998	22,000	290	44	420	410	7,300	NA	40.73	7.73	33.00	NA	1.9
S-2	11/06/1998	NA	NA	NA	NA	NA	NA	NA	40.73	8.47	32.26	NA	NA
S-2	02/16/1999	27,000	200	<200	770	840	5,400	NA	40.73	7.24	33.49	NA	1.4
S-2	05/28/1999	NA	NA	NA	NA	NA	NA	NA	40.73	7.82	32.91	NA	1.3
S-2	08/24/1999	13,400	196	<25.0	439	113	597	NA	40.73	8.61	32.12	NA	1.2
S-2	11/16/1999	NA	NA	NA	NA	NA	NA	NA	40.73	8.17	32.56	NA	1.1
S-2	02/02/2000	7,850	176	88.0	134	111	540	NA	40.73	7.57	33.16	NA	1.2
S-2	05/09/2000	NA	NA	NA	NA	NA	NA	NA	40.73	7.94	32.79	NA	1.3
S-2	08/03/2000	35,000	255	122	842	224	905	726e	40.73	8.07	32.66	NA	1.1
S-2	11/15/2000	NA	NA	NA	NA	NA	NA	NA	40.73	8.13	32.60	NA	1.3
S-2	02/14/2001	13,000	147	<25.0	309	54.4	581	NA	40.73	6.39	34.34	NA	1.4
S-2	05/31/2001	NA	NA	NA	NA	NA	NA	NA	40.73	7.21	33.52	NA	1.5
S-2	08/15/2001	15,000	67	4.1	220	33	NA	440	40.73	8.27	32.46	NA	0.6
S-2	12/31/2001	NA	NA	NA	NA	NA	NA	270	40.73	6.07	34.66	NA	0.2
S-2	02/06/2002	15,000	53	2.8	120	31	NA	220	40.73	7.98	32.75	NA	1.8
S-2	06/04/2002	NA	NA	NA	NA	NA	NA	NA	40.73	6.70	34.03	NA	0.2
S-2	07/25/2002	9,000	75	4.0	180	24	NA	460	40.63	7.67	32.96	NA	0.9
S-2	11/27/2002	NA	NA	NA	NA	NA	NA	NA	40.63	7.84	32.79	NA	0.7
<b>S-2</b>	<b>01/30/2003</b>	<b>15,000</b>	<b>26</b>	<b>&lt;2.5</b>	<b>92</b>	<b>22</b>	<b>NA</b>	<b>210</b>	<b>40.63</b>	<b>7.29</b>	<b>33.34</b>	<b>NA</b>	<b>15.6</b>

S-3	05/13/1991	3,300	30	3.6	26	13	NA	NA	41.46	7.90	33.56	NA	NA
S-3	08/23/1991	2,000	25	4	9.3	4.5	NA	NA	41.46	8.14	33.32	NA	NA
S-3	11/07/1991	4,000	20	3.9	5	4.9	NA	NA	41.46	7.91	33.55	NA	NA
S-3	01/28/1992	2,100	21	7.6	6.7	15	NA	NA	41.46	7.53	33.93	NA	NA
S-3 (D)	01/28/1992	2,100	18	6.1	7.1	14	NA	NA	41.46	7.53	33.93	NA	NA
S-3	05/06/1992	6,600	38	51	45	65	NA	NA	41.46	7.55	33.91	NA	NA
S-3	08/26/1992	5,800	18	12	29	60	NA	NA	41.46	7.53	33.93	NA	NA
S-3	10/28/1992	3,000	55	11	16	32	NA	NA	41.46	7.95	33.51	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, 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.)	DO Reading (ppm)
S-3	01/19/1993	3,100	<5	5.1	11	16	NA	NA	41.46	6.12	35.34	NA	NA
S-3	04/29/1993	3,000	31	22	<5	14	NA	NA	41.46	7.27	34.19	NA	NA
S-3	07/22/1993	2,600	3.1	43	23	53	NA	NA	41.46	7.62	33.84	NA	NA
S-3	10/21/1993	2,500	73	14	16	32	NA	NA	41.46	7.81	33.65	NA	NA
S-3	01/04/1994	4,800	13	21	<12.5	33	NA	NA	41.46	7.49	33.97	NA	NA
S-3	04/13/1994	NA	NA	NA	NA	NA	NA	NA	41.46	7.32	34.14	NA	NA
S-3	07/25/1994	2,600	6.1	4	3.8	12	NA	NA	41.46	7.66	33.80	NA	NA
S-3	10/10/1994	NA	NA	NA	NA	NA	NA	NA	41.46	7.49	33.97	NA	NA
S-3	01/26/1995	3,600	30	6.8	5.6	19	NA	NA	41.46	6.50	34.96	NA	NA
S-3 (D)	01/26/1995	2,200	9.9	15	14	22	NA	NA	41.46	6.50	34.96	NA	NA
S-3	04/21/1995	NA	NA	NA	NA	NA	NA	NA	41.46	6.79	34.67	NA	NA
S-3	07/28/1995	3,700	27	9.3	20	34	NA	NA	41.46	7.28	34.18	NA	4
S-3	10/31/1995	NA	NA	NA	NA	NA	NA	NA	41.46	6.74	34.72	NA	NA
S-3	01/10/1996	4,000	10	<0.5	13	28	NA	NA	41.46	7.48	33.98	NA	6.1
S-3	04/25/1996	NA	NA	NA	NA	NA	NA	NA	41.46	6.90	34.56	NA	NA
S-3	07/23/1996	2,100	20	<0.5	<0.5	<0.5	<25	NA	41.46	7.04	34.42	NA	2.1
S-3	12/10/1996	NA	NA	NA	NA	NA	NA	NA	41.46	7.96	33.50	NA	0.7
S-3	02/20/1997	3,500	83	<5.0	18	16	130	NA	41.46	7.44	34.02	NA	3
S-3 (D)	02/20/1997	3,000	69	<5.0	14	12	70	NA	41.46	7.44	34.02	NA	3
S-3	05/22/1997	NA	NA	NA	NA	NA	NA	NA	41.46	7.13	34.33	NA	0.6
S-3	08/22/1997	4,700	60	12	19	21	40	NA	41.46	6.81	34.65	NA	2.9
S-3	11/03/1997	NA	NA	NA	NA	NA	NA	NA	41.46	7.40	34.06	NA	0.9
S-3	02/20/1998	3,400	<10	<10	14	18	85	NA	41.46	6.55	34.91	NA	0.8
S-3 (D)	02/20/1998	3,100	8.6	7.8	12	16	57	NA	41.46	6.55	34.91	NA	0.8
S-3	05/18/1998	NA	NA	NA	NA	NA	NA	NA	41.46	6.81	34.65	NA	0.7
S-3	08/20/1998	4,400	67	23	9.8	22	240	NA	41.46	6.98	34.48	NA	2.2
S-3	11/06/1998	NA	NA	NA	NA	NA	NA	NA	41.46	6.96	34.50	NA	NA
S-3	02/16/1999	2,000	6.9	6.2	3.7	4.8	47	NA	41.46	6.93	34.53	NA	2.0

**WELL CONCENTRATIONS**  
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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.)	DO Reading (ppm)
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S-3	05/28/1999	NA	NA	NA	NA	NA	NA	NA	41.46	6.74	34.72	NA	1.8
S-3	08/24/1999	4,170	54.8	14.2	6.65	13.7	43.4	NA	41.46	9.05	32.41	NA	1.9
S-3	11/16/1999	NA	NA	NA	NA	NA	NA	NA	41.46	7.09	34.37	NA	1.6
S-3	02/02/2000	2,410	133	112	24.9	104	46.0	NA	41.46	6.59	34.87	NA	1.9
S-3	05/09/2000	NA	NA	NA	NA	NA	NA	NA	41.46	7.13	34.33	NA	1.9
S-3	08/03/2000	3,890	17.2	21.9	<10.0	<10.0	166	NA	41.46	6.82	34.64	NA	1.8
S-3	11/15/2000	NA	NA	NA	NA	NA	NA	NA	41.46	6.98	34.48	NA	1.6
S-3	02/14/2001	2,800	35.8	5.57	3.83	2.94	1,070	1,250	41.46	6.57	34.89	NA	1.1
S-3	05/31/2001	NA	NA	NA	NA	NA	NA	NA	41.46	6.72	34.74	NA	1.6
S-3	08/15/2001	2,700	2.0	0.52	<0.50	2.0	NA	140	41.46	7.44	34.02	NA	0.6
S-3	12/31/2001	2,300	<2.0	<2.0	<2.0	<2.0	NA	470	41.46	6.62	34.84	NA	0.6
S-3	02/06/2002	2,000	2.6	1.6	4.3	7.8	NA	170	41.46	7.22	34.24	NA	2.2
S-3	06/04/2002	2,400	1.0	1.1	0.54	4.5	NA	120	41.46	7.34	34.12	NA	0.5
S-3	07/25/2002	3,100	0.86	<0.50	<0.50	2.0	NA	92	41.37	6.98	34.39	NA	1.0
S-3	11/27/2002	2,600	2.0	0.55	<0.50	2.1	NA	44	41.37	7.62	33.75	NA	0.7
S-3	01/30/2003	1,200	2.1	1.3	1.6	3.4	NA	42	41.37	7.14	34.23	NA	13.6

S-4	05/13/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	7.44	33.66	NA	NA
S-4	08/23/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	8.32	32.78	NA	NA
S-4	11/07/1991	260	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	8.32	32.78	NA	NA
S-4	01/28/1992	110c	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	7.40	33.70	NA	NA
S-4	05/06/1992	54	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	7.21	33.89	NA	NA
S-4	08/26/1992	67	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	8.13	32.97	NA	NA
S-4	10/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	8.73	32.37	NA	NA
S-4	01/19/1993	86	1.2	0.7	2.7	15	NA	NA	41.10	5.86	35.24	NA	NA
S-4	04/29/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	7.02	34.08	NA	NA
S-4 (D)	04/29/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	7.02	34.08	NA	NA
S-4	07/22/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	7.76	33.34	NA	NA

**WELL CONCENTRATIONS**  
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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.)	DO Reading (ppm)
S-4	10/21/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	8.53	32.57	NA	NA
S-4	01/04/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	7.92	33.18	NA	NA
S-4	04/13/1994	NA	NA	NA	NA	NA	NA	NA	41.10	7.71	33.39	NA	NA
S-4	07/25/1994	NA	NA	NA	NA	NA	NA	NA	41.10	7.82	33.28	NA	NA
S-4	10/10/1994	NA	NA	NA	NA	NA	NA	NA	41.10	8.15	32.95	NA	NA
S-4	01/26/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	5.73	35.37	NA	NA
S-4	04/21/1995	NA	NA	NA	NA	NA	NA	NA	41.10	6.26	34.84	NA	NA
S-4	07/28/1995	NA	NA	NA	NA	NA	NA	NA	41.10	7.80	33.30	NA	NA
S-4	10/31/1995	NA	NA	NA	NA	NA	NA	NA	41.10	8.45	32.65	NA	NA
S-4	01/10/1996	<50	1	2.8	<0.5	2.1	NA	NA	41.10	8.26	32.84	NA	2.8
S-4	04/25/1996	NA	NA	NA	NA	NA	NA	NA	41.10	7.14	33.96	NA	NA
S-4	07/23/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	41.10	8.18	32.92	NA	3.8
S-4	12/10/1996	NA	NA	NA	NA	NA	NA	NA	41.10	7.04	34.06	NA	3.9
S-4	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	6.7	NA	41.10	7.07	34.03	NA	5
S-4	05/22/1997	NA	NA	NA	NA	NA	NA	NA	41.10	6.63	34.47	NA	0.8
S-4	08/22/1997	NA	NA	NA	NA	NA	NA	NA	41.10	7.69	33.41	NA	3.7
S-4	11/03/1997	NA	NA	NA	NA	NA	NA	NA	41.10	8.26	32.84	NA	1.3
S-4	02/20/1998	130	6.9	4.6	5.2	17	2.8	NA	41.10	5.57	35.53	NA	1.8
S-4	05/18/1998	NA	NA	NA	NA	NA	NA	NA	41.10	7.13	33.97	NA	1.4
S-4	08/20/1998	NA	NA	NA	NA	NA	NA	NA	41.10	7.77	33.33	NA	4.0
S-4	11/06/1998	NA	NA	NA	NA	NA	NA	NA	41.10	7.85	33.25	NA	NA
S-4	02/16/1999	<50	<0.50	<0.50	<0.50	<0.50	23	NA	41.10	6.51	34.59	NA	3.6
S-4	05/28/1999	NA	NA	NA	NA	NA	NA	NA	41.10	7.00	34.10	NA	3.2
S-4	08/24/1999	NA	NA	NA	NA	NA	NA	NA	41.10	9.13	31.97	NA	1.9
S-4	11/16/1999	NA	NA	NA	NA	NA	NA	NA	41.10	7.79	33.31	NA	1.7
S-4	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	41.10	7.19	33.91	NA	1.9
S-4	05/09/2000	NA	NA	NA	NA	NA	NA	NA	41.10	7.51	33.59	NA	1.8
S-4	08/03/2000	NA	NA	NA	NA	NA	NA	NA	41.10	7.83	33.27	NA	1.9

**WELL CONCENTRATIONS**  
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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.)	DO Reading (ppm)
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S-4	11/15/2000	NA	NA	NA	NA	NA	NA	NA	41.10	7.69	33.41	NA	1.5
S-4	02/14/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	41.10	6.20	34.90	NA	1.6
S-4	05/31/2001	NA	NA	NA	NA	NA	NA	NA	41.10	6.56	34.54	NA	1.6
S-4	08/15/2001	NA	NA	NA	NA	NA	NA	NA	41.10	7.90	33.20	NA	0.6
S-4	12/31/2001	NA	NA	NA	NA	NA	NA	NA	41.10	5.62	35.48	NA	2.7
S-4	02/06/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	41.10	7.29	33.81	NA	0.2
S-4	06/04/2002	NA	NA	NA	NA	NA	NA	NA	41.10	7.45	33.65	NA	0.6
S-4	07/25/2002	NA	NA	NA	NA	NA	NA	NA	41.04	7.39	33.65	NA	0.8
S-4	11/27/2002	NA	NA	NA	NA	NA	NA	NA	41.04	7.60	33.44	NA	NA
S-4	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	41.04	8.45	32.59	NA	NA

S-5	05/13/1991	NA	NA	NA	NA	NA	NA	NA	39.99	14.60	30.57	6.48	NA
S-5	08/23/1991	NA	NA	NA	NA	NA	NA	NA	39.99	15.14	29.25	5.50	NA
S-5	11/07/1991	NA	NA	NA	NA	NA	NA	NA	39.99	15.10	29.17	5.35	NA
S-5	01/28/1992	NA	NA	NA	NA	NA	NA	NA	39.99	14.05	29.86	4.90	NA
S-5	05/06/1992	NA	NA	NA	NA	NA	NA	NA	39.99	14.31	30.21	5.66	NA
S-5	08/26/1992	NA	NA	NA	NA	NA	NA	NA	39.99	14.26	28.77	3.80	NA
S-5	10/28/1992	NA	NA	NA	NA	NA	NA	NA	39.99	14.22	28.82	3.81	NA
S-5	01/19/1993	NA	NA	NA	NA	NA	NA	NA	39.99	12.36	30.80	3.96	NA
S-5	04/29/1993	NA	NA	NA	NA	NA	NA	NA	39.99	9.64	31.07	0.90	NA
S-5	07/22/1993	NA	NA	NA	NA	NA	NA	NA	39.99	9.55	31.16	0.90	NA
S-5	10/21/1993	NA	NA	NA	NA	NA	NA	NA	39.99	11.23	29.34	0.73	NA
S-5	01/04/1994	NA	NA	NA	NA	NA	NA	NA	39.99	11.69	29.82	1.90	NA
S-5	04/13/1994	NA	NA	NA	NA	NA	NA	NA	39.99	11.42	29.87	1.62	NA
S-5	07/25/1994	NA	NA	NA	NA	NA	NA	NA	39.99	12.01	29.41	1.79	NA
S-5	10/10/1994	NA	NA	NA	NA	NA	NA	NA	39.99	12.05	29.38	1.80	NA
S-5	01/26/1995	NA	NA	NA	NA	NA	NA	NA	39.99	8.42	32.95	1.72	NA
S-5	04/21/1995	NA	NA	NA	NA	NA	NA	NA	39.99	10.03	30.90	1.17	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.)	DO Reading (ppm)
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S-5	07/28/1995	NA	NA	NA	NA	NA	NA	NA	39.99	11.42	30.07	1.87	NA
S-5	10/31/1995	NA	NA	NA	NA	NA	NA	NA	39.99	13.21	27.21	0.54	NA
S-5	01/10/1996	NA	NA	NA	NA	NA	NA	NA	39.99	12.05	28.04	0.13	NA
S-5	04/25/1996	NA	NA	NA	NA	NA	NA	NA	39.99	9.68	30.33	0.03	NA
S-5	07/23/1996	NA	NA	NA	NA	NA	NA	NA	39.99	9.82	30.20	0.04	NA
S-5	12/10/1996	270,000	8,800	29,000	5,200	37,000	<2,500	NA	39.99	9.10	30.91	0.03	NA
S-5 (D)	12/10/1996	400,000	9,200	32,000	7,200	50,000	<2,500	NA	39.99	9.10	30.91	0.03	NA
S-5	02/20/1997	88,000	2,000	11,000	1,600	19,000	<500	NA	39.99	8.93	31.06	NA	5
S-5	05/22/1997	NA	NA	NA	NA	NA	NA	NA	39.99	10.07	29.94	0.02	NA
S-5	08/22/1997	NA	NA	NA	NA	NA	NA	NA	39.99	10.24	29.77	0.02	NA
S-5	11/03/1997	NA	NA	NA	NA	NA	NA	NA	39.99	10.91	29.10	0.02	NA
S-5	02/20/1998	NA	NA	NA	NA	NA	NA	NA	39.99	7.81	32.20	0.03	NA
S-5	05/18/1998	NA	NA	NA	NA	NA	NA	NA	39.99	9.64	30.37	0.02	NA
S-5	05/31/2001	NA	NA	NA	NA	NA	NA	NA	39.99	10.13	29.86	NA	NA

S-6	05/13/1991	13,000	600	140	210	310	NA	NA	40.12	7.82	32.30	NA	NA
S-6	08/23/1991	9,800	480	80	120	150	NA	NA	40.12	9.58	30.54	NA	NA
S-6	11/07/1991	6,200	240	23	25	27	NA	NA	40.12	10.86	29.26	NA	NA
S-6	01/28/1992	5,600	250	15	41	36	NA	NA	40.12	8.97	31.15	NA	NA
S-6	05/06/1992	7,100	330	29	110	210	NA	NA	40.12	8.27	31.85	NA	NA
S-6	08/26/1992	13,000	240	<50	56	780	NA	NA	40.12	9.57	31.55	NA	NA
S-6	10/28/1992	10,000	470	210	67	170	NA	NA	40.12	8.90	32.22	NA	NA
S-6	01/19/1993	4,800	100	26	27	45	NA	NA	40.12	4.84	35.28	NA	NA
S-6	04/29/1993	7,000	430	20	<12.5	42	NA	NA	40.12	5.61	34.51	NA	NA
S-6	07/22/1993	5,800	260	120	65	150	NA	NA	40.12	6.56	33.56	NA	NA
S-6	10/21/1993	5,500	270	69	120	140	NA	NA	40.12	8.73	31.39	NA	NA
S-6	01/04/1994	7,100	180	58	63	62	NA	NA	40.12	7.14	32.98	NA	NA
S-6	04/13/1994	NA	NA	NA	NA	NA	NA	NA	40.12	7.21	32.91	NA	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.)	DO Reading (ppm)
S-6	07/25/1994	12,000	190	52	30	39	NA	NA	40.12	6.85	33.27	NA	NA
S-6 (D)	07/25/1994	7,200	170	32	31	34	NA	NA	40.12	6.85	33.27	NA	NA
S-6	10/10/1994	NA	NA	NA	NA	NA	NA	NA	40.12	6.20	33.92	NA	NA
S-6	01/26/1995	5,800	120	23	24	44	NA	NA	40.12	4.89	35.23	NA	NA
S-6	04/21/1995	NA	NA	NA	NA	NA	NA	NA	40.12	5.61	34.51	NA	NA
S-6	07/28/1995	4,400	210	23	34	60	NA	NA	40.12	5.30	34.82	NA	3
S-6 (D)	07/28/1995	6,100	230	20	38	59	NA	NA	40.12	5.30	34.82	NA	3
S-6	10/31/1995	NA	NA	NA	NA	NA	NA	NA	40.12	4.98	35.14	NA	NA
S-6	01/10/1996	6,800	170	87	35	105	NA	NA	40.12	5.67	34.45	NA	2.2
S-6 (D)	01/10/1996	7,800	230	120	50	210	NA	NA	40.12	5.67	34.45	NA	2.2
S-6	04/25/1996	NA	NA	NA	NA	NA	NA	NA	40.12	5.23	34.89	NA	NA
S-6	07/23/1996	2,600	170	<0.5	<0.5	8.5	<25	NA	40.12	5.40	34.72	NA	1.4
S-6	12/10/1996	NA	NA	NA	NA	NA	NA	NA	40.12	6.68	33.44	NA	0.7
S-6	02/20/1997	6,300	160	7.7	14	31	77	NA	40.12	5.70	34.42	NA	2
S-6	05/22/1997	NA	NA	NA	NA	NA	NA	NA	40.12	5.49	34.63	NA	0.9
S-6	08/22/1997	6,200	160	26	15	27	49	NA	40.12	5.71	34.41	NA	2.8
S-6	11/03/1997	NA	NA	NA	NA	NA	NA	NA	40.12	6.15	33.97	NA	1.4
S-6	02/20/1998	4,100	150	<10	<10	15	55	NA	40.12	5.25	34.87	NA	0.4
S-6	05/18/1998	NA	NA	NA	NA	NA	NA	NA	40.12	5.69	34.43	NA	0.4
S-6	08/20/1998	7,800	240	38	16	39	110	NA	40.12	6.04	34.08	NA	1.5
S-6 (D) b	08/20/1998	8,400	270	30	19	31	130	NA	40.12	6.04	34.08	NA	1.5
S-6	11/06/1998	NA	NA	NA	NA	NA	NA	NA	40.12	6.10	34.02	NA	NA
S-6	02/16/1999	6,000	190	19	14	20	<2.5	NA	40.12	5.84	34.28	NA	1.7
S-6	05/28/1999	NA	NA	NA	NA	NA	NA	NA	40.12	9.51	30.61	NA	1.9
S-6	08/24/1999	6,870	193	32.1	18.8	36.4	<25.0	NA	40.12	8.29	31.83	NA	2.7
S-6	11/16/1999	NA	NA	NA	NA	NA	NA	NA	40.12	5.93	34.19	NA	2.6
S-6	02/02/2000	2,310	164	122	28.6	133	63.1	NA	40.12	5.33	34.79	NA	2.6
S-6	05/09/2000	NA	NA	NA	NA	NA	NA	NA	40.12	6.41	33.71	NA	2.4

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, 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.)	DO Reading (ppm)
S-6	08/03/2000	5,600	188	27.4	<10.0	25.2	174	NA	40.12	5.84	34.28	NA	2.7
S-6	11/15/2000	NA	NA	NA	NA	NA	NA	NA	40.12	5.58	34.54	NA	2.3
S-6	02/14/2001	6,140	126	13.2	8.01	18.0	205	NA	40.12	5.50	34.62	NA	1.3
S-6	05/31/2001	NA	NA	NA	NA	NA	NA	NA	40.12	5.52	34.60	NA	1.2
S-6	08/15/2001	6,000	160	9.1	5.8	24	NA	51	40.12	6.04	34.08	NA	0.4
S-6	12/31/2001	6,900	120	12	6.6	24	NA	44	40.12	5.52	34.60	NA	0.4
S-6	02/06/2002	4,300	110	7.3	4.8	18	NA	39	40.12	6.34	33.78	NA	0.5
S-6	06/04/2002	4,300	140	8.4	4.9	22	NA	26	40.12	6.19	33.93	NA	0.4
S-6	07/25/2002	3,900	140	9.0	5.5	23	NA	31	39.92	6.05	33.87	NA	0.7
S-6	11/27/2002	5,200	160	9.6	4.9	24	NA	26	39.92	6.26	33.66	NA	NA
<b>S-6</b>	<b>01/30/2003</b>	<b>4,700</b>	<b>200</b>	<b>9.6</b>	<b>5.5</b>	<b>25</b>	<b>NA</b>	<b>30</b>	<b>39.92</b>	<b>5.73</b>	<b>34.19</b>	<b>NA</b>	<b>NA</b>
S-7	05/13/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	10.56	29.54	NA	NA
S-7	08/23/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	11.16	28.94	NA	NA
S-7	11/07/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	11.48	28.62	NA	NA
S-7	01/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	10.72	29.38	NA	NA
S-7	05/06/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	10.34	29.76	NA	NA
S-7	08/26/1992	160	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	11.13	28.97	NA	NA
S-7	10/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	11.52	28.58	NA	NA
S-7	01/19/1993	50	1.1	0.6	1.9	9.2	NA	NA	40.10	8.68	31.42	NA	NA
S-7	04/29/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	9.90	30.20	NA	NA
S-7	07/22/1993	Well inaccessible		NA	NA	NA	NA	NA	40.10	NA	NA	NA	NA
S-7	10/21/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	11.10	29.00	NA	NA
S-7	01/04/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	10.40	29.70	NA	NA
S-7	04/13/1994	<50	1.4	0.61	<0.5	0.64	NA	NA	40.10	10.20	29.90	NA	NA
S-7 (D)	04/13/1994	<50	1.4	0.61	<0.5	0.66	NA	NA	40.10	10.20	29.90	NA	NA
S-7	07/25/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	10.48	29.62	NA	NA
S-7 a	10/10/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	10.64	29.46	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, 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.)	DO Reading (ppm)
S-7	01/26/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	7.75	32.35	NA	4.6
S-7	04/21/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	8.51	31.59	NA	NA
S-7	07/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	10.20	29.90	NA	3
S-7	10/31/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	10.86	29.24	NA	4.9
S-7	01/10/1996	<50	<0.5	2	<0.5	2.6	NA	NA	40.10	10.33	29.77	NA	7.6
S-7	04/25/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	40.10	9.13	30.97	NA	6.2
S-7	07/23/1996	<50	<0.5	<0.5	<0.5	<0.5	14	NA	40.10	10.18	29.92	NA	3.7
S-7	12/10/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	40.10	9.04	31.06	NA	4.6
S-7	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.10	9.60	30.50	NA	5
S-7	05/22/1997	<50	1.3	<0.50	<0.50	<0.50	5.5	NA	40.10	10.63	29.47	NA	0.8
S-7	08/22/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.10	10.95	29.15	NA	2.6
S-7	11/03/1997	<50	2.2	1.7	0.58	3.4	<2.5	NA	40.10	11.29	28.81	NA	2.6
S-7	02/20/1998	350	23	13	14	42	3.8	NA	40.10	7.73	32.37	NA	4.6
S-7	05/18/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.10	10.29	29.81	NA	4.4
S-7	08/20/1998	Well inaccessible		NA	NA	NA	NA	NA	40.10	11.00	29.10	NA	5.4
S-7	11/06/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.10	11.19	28.91	NA	5.2
S-7	02/16/1999	Well inaccessible		NA	NA	NA	NA	NA	40.10	NA	NA	NA	NA
S-7	05/28/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	40.10	9.76	30.34	NA	2.7
S-7	08/24/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.10	10.61	29.49	NA	2.1
S-7	11/16/1999	<50.0	<0.500	<0.500	<0.500	<0.500	3.68	NA	40.10	10.90	29.20	NA	2.3
S-7	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	40.10	10.30	29.80	NA	2.1
S-7	05/09/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.10	10.25	29.85	NA	2.7
S-7	08/03/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.10	10.65	29.45	NA	2.5
S-7	11/15/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.10	10.53	29.57	NA	4.6
S-7	02/14/2001	Well inaccessible		NA	NA	NA	NA	NA	40.10	NA	NA	NA	NA
S-7	05/31/2001	<50	<0.50	<0.50	<0.50	0.77	NA	4.6	40.10	9.46	30.64	NA	2.1
S-7	08/15/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	40.10	10.93	29.17	NA	2.0
S-7	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	6.0	40.10	9.14	30.96	NA	3.0

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, 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.)	DO Reading (ppm)
S-7	02/06/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	40.10	8.61	31.49	NA	3.2
S-7	06/04/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	40.10	10.41	29.69	NA	0.9
S-7	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	39.91	10.37	29.54	NA	1.1
S-7	11/27/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	39.91	10.52	29.39	NA	NA
S-7	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	39.91	9.38	30.53	NA	NA

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 31, 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

DO = Dissolved Oxygen

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

ppm = Parts per million

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, 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.)	DO Reading (ppm)
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Notes:

a = Sample analyzed for total dissolved solids (450 mg/L).

b = Surrogate recovery outside QC limits due to matrix effect.

c = Chromatogram pattern indicated an unidentified hydrocarbon.

d = This sample analyzed outside of EPA recommended hold time.

e = Concentration is an estimate value above the linear quantitation range.

Ownership of well S-5 is being transferred to Arco.

Beginning July 25, 2002, depth to waters referenced to Top of Casing.

Site surveyed January 9, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation:

Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).



Report Number : 31212

Date : 2/9/03

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

Subject : 6 Water Samples  
Project Name : 999 San Pablo Avenue, Albany  
Project Number : 030130-MN2  
P.O. Number : 98995143

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". The signature is written in a cursive style with a large, looped initial "J".

Joel Kiff



Report Number : 31212

Date : 2/9/03

Project Name : 999 San Pablo Avenue, Albany

Project Number : 030130-MN2

Sample : S-1

Matrix : Water

Lab Number : 31212-01

Sample Date :1/30/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/1/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/1/03
Ethylbenzene	3.6	0.50	ug/L	EPA 8260B	2/1/03
Total Xylenes	1.6	0.50	ug/L	EPA 8260B	2/1/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/1/03
TPH as Gasoline	310	50	ug/L	EPA 8260B	2/1/03
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	2/1/03
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	2/1/03

Sample : S-2

Matrix : Water

Lab Number : 31212-02

Sample Date :1/30/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	26	2.5	ug/L	EPA 8260B	2/3/03
Toluene	< 2.5	2.5	ug/L	EPA 8260B	2/3/03
Ethylbenzene	92	2.5	ug/L	EPA 8260B	2/3/03
Total Xylenes	22	2.5	ug/L	EPA 8260B	2/3/03
Methyl-t-butyl ether (MTBE)	210	25	ug/L	EPA 8260B	2/3/03
TPH as Gasoline	15000	250	ug/L	EPA 8260B	2/3/03
Toluene - d8 (Surr)	90.5		% Recovery	EPA 8260B	2/3/03
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	2/3/03

Approved By:  Joel Kiff





Report Number : 31212

Date : 2/9/03

Project Name : 999 San Pablo Avenue, Albany

Project Number : 030130-MN2

Sample : S-3

Matrix : Water

Lab Number : 31212-03

Sample Date :1/30/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.1	0.50	ug/L	EPA 8260B	2/1/03
Toluene	1.3	0.50	ug/L	EPA 8260B	2/1/03
Ethylbenzene	1.6	0.50	ug/L	EPA 8260B	2/1/03
Total Xylenes	3.4	0.50	ug/L	EPA 8260B	2/1/03
Methyl-t-butyl ether (MTBE)	42	5.0	ug/L	EPA 8260B	2/1/03
TPH as Gasoline	1200	50	ug/L	EPA 8260B	2/1/03
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	2/1/03
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	2/1/03

Sample : S-4

Matrix : Water

Lab Number : 31212-04

Sample Date :1/30/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/6/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/6/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/6/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/6/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/6/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/6/03
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	2/6/03
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	2/6/03

Approved By:  Joel Kiff



Report Number : 31212

Date : 2/9/03

Project Name : 999 San Pablo Avenue, Albany

Project Number : 030130-MN2

Sample : S-6

Matrix : Water

Lab Number : 31212-05

Sample Date :1/30/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>200</b>	0.50	ug/L	EPA 8260B	2/2/03
<b>Toluene</b>	<b>9.6</b>	0.50	ug/L	EPA 8260B	2/2/03
<b>Ethylbenzene</b>	<b>5.5</b>	0.50	ug/L	EPA 8260B	2/2/03
<b>Total Xylenes</b>	<b>25</b>	0.50	ug/L	EPA 8260B	2/2/03
<b>Methyl-t-butyl ether (MTBE)</b>	<b>30</b>	5.0	ug/L	EPA 8260B	2/2/03
<b>TPH as Gasoline</b>	<b>4700</b>	100	ug/L	EPA 8260B	2/3/03
Toluene - d8 (Surr)	92.7		% Recovery	EPA 8260B	2/2/03
4-Bromofluorobenzene (Surr)	98.2		% Recovery	EPA 8260B	2/2/03

Sample : S-7

Matrix : Water

Lab Number : 31212-06

Sample Date :1/30/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	2/2/03
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	2/2/03
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	2/2/03
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	2/2/03
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	2/2/03
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	2/2/03
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	2/2/03
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	2/2/03

Approved By:  Joel Kiff

**QC Report : Method Blank Data**Project Name : **999 San Pablo Avenue, Albany**Project Number : **030130-MN2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/2/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/2/03
Toluene - d8 (Surr)	96.4		%	EPA 8260B	2/2/03
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	2/2/03

Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/2/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/2/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/2/03
Toluene - d8 (Surr)	97.0		%	EPA 8260B	2/2/03
4-Bromofluorobenzene (Surr)	98.3		%	EPA 8260B	2/2/03

Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/1/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/1/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/1/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/1/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/1/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/1/03
Toluene - d8 (Surr)	102		%	EPA 8260B	2/1/03
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	2/1/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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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 : 999 San Pablo Avenue,

Project Number : 030130-MN2

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	31216-04	0.99	40.0	40.0	43.4	41.7	ug/L	EPA 8260B	2/2/03	106	102	4.04	70-130	25
Toluene	31216-04	2.0	40.0	40.0	40.7	39.5	ug/L	EPA 8260B	2/2/03	96.9	93.8	3.25	70-130	25
Tert-Butanol	31216-04	<5.0	200	200	197	199	ug/L	EPA 8260B	2/2/03	98.6	99.4	0.808	70-130	25
Methyl-t-Butyl Ether	31216-04	21	40.0	40.0	61.6	63.1	ug/L	EPA 8260B	2/2/03	101	104	3.58	70-130	25
Benzene	31216-05	11	40.0	40.0	48.4	46.4	ug/L	EPA 8260B	2/2/03	93.5	88.5	5.49	70-130	25
Toluene	31216-05	<0.50	40.0	40.0	37.3	36.4	ug/L	EPA 8260B	2/2/03	93.3	91.1	2.44	70-130	25
Tert-Butanol	31216-05	13	200	200	204	204	ug/L	EPA 8260B	2/2/03	95.4	95.5	0.0524	70-130	25
Methyl-t-Butyl Ether	31216-05	160	40.0	40.0	198	196	ug/L	EPA 8260B	2/2/03	105	98.7	6.42	70-130	25
Benzene	31212-03	2.1	40.0	40.0	41.7	40.4	ug/L	EPA 8260B	2/1/03	99.0	95.7	3.39	70-130	25
Toluene	31212-03	1.3	40.0	40.0	39.8	39.1	ug/L	EPA 8260B	2/1/03	96.2	94.4	1.86	70-130	25
Tert-Butanol	31212-03	12	200	200	198	204	ug/L	EPA 8260B	2/1/03	93.3	96.4	3.18	70-130	25
Methyl-t-Butyl Ether	31212-03	42	40.0	40.0	84.9	86.6	ug/L	EPA 8260B	2/1/03	106	111	3.87	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

## QC Report : Laboratory Control Sample (LCS)

Project Name : 999 San Pablo Avenue,

Project Number : 030130-MN2

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	2/2/03	98.4	70-130
Toluene	40.0	ug/L	EPA 8260B	2/2/03	92.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/2/03	99.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/2/03	88.4	70-130
Benzene	40.0	ug/L	EPA 8260B	2/2/03	97.2	70-130
Toluene	40.0	ug/L	EPA 8260B	2/2/03	89.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/2/03	98.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/2/03	107	70-130
Benzene	40.0	ug/L	EPA 8260B	2/1/03	102	70-130
Toluene	40.0	ug/L	EPA 8260B	2/1/03	97.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/1/03	97.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/1/03	92.3	70-130

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff

# SHELL CHAIN OF CUSTODY RECORD

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be involved:

SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 CRMT HOUSTON

Karen Petryna

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 1 4 3

SAP or CRMT NUMBER (TS/CRMT)

31212

DATE: 1/30/03

PAGE: 1 of 1

SAMPLING COMPANY: <b>Blaine Tech Services</b>		LOG CODE: <b>BTSS</b>	SITE ADDRESS (Street and City): <b>999 San Pablo Avenue, Albany</b>		GLOBAL ID NO.: <b>T0600101277</b>
ADDRESS: <b>1680 Rogers Avenue, San Jose, CA 95112</b>		EDF DELIVERABLE TO (Responsible Party or Designee): <b>Anni Kreml</b>		PHONE NO.: <b>510-420-3335</b>	E-MAIL: <b>ShellOaklandEDF@cambria-env.com</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Leon Gearhart</b>		SAMPLER NAME(S) (Print): <b>Michael Nakakata</b>		CONSULTANT PROJECT NO.: <b>030130-MAL</b>	
TELEPHONE: <b>408-573-0555</b>	FAX: <b>408-573-7771</b>	E-MAIL: <b>lgearhart@blainetech.com</b>	LAB USE ONLY		

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

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

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

### REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (6021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note	TEMPERATURE ON RECEIPT C°	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes				
		DATE	TIME																			
	S-1	1/30	1205	W	3	X	X	X										-01				
	S-2	}	1210	}	}	X	X	X										-02				
	S-3		1135			X	X	X												-03		
	S-4		1015			X	X	X												-04		
	S-6		1035			X	X	X												-05		
	S-7		944			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) <b>K.A. Swann</b>	Date: <b>01/31/03</b>	Time: <b>1100</b>

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

10/16/00 Revision

O&G Graphic (714) 898-9702

### WELL GAUGING DATA

Project # 030130-MW2 Date 1/30/03 Client Shell

Site 999 San Pablo Ave, Albany

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 TOC
S-1	3					7.56	11.77	
S-2	3					7.29 *	12.10	
S-3	3					7.14	12.15	
S-4	3					8.45	14.06	
S-6	3					5.73	14.77	
S-7	3					9.38	14.82	

\* Gassed w/ O<sub>2</sub> in well  
 Pulled O<sub>2</sub> to sampler

## SHELL WELL MONITORING DATA SHEET

BTS #: 030130 - M12	Site: 98975743
Sampler: MPW	Date: 1/30/03
Well I.D.: S-1	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth (TD): 11.77	Depth to Water (DTW): 7.56
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grde	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.40	

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

1.6 (Gals.) X 3 = 4.8 Gals.  
 Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1056	61.8	7.2	541	7700	1.6	Brown, coarse grain cloudy filter pack
1057	Well	dewatered			—	in well. DTW = 10.24
						* Bailed coarse grain rocks <del>(from well)</del> from well
1205	61.7	7.3	571	57	—	Slightly cloudy

Did well dewater?  Yes    No      Gallons actually evacuated: 1.6

Sampling Date: 1/30/03    Sampling Time: 1205    Depth to Water: 8.37

Sample I.D.: S-1      Laboratory: Riff    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): <u>Pre-purge:</u>	1.5	mEq/L	Post-purge:	mEq/L
O.R.P. (if req'd): <u>Pre-purge:</u>		mV	Post-purge:	mV



## SHELL WELL MONITORING DATA SHEET

b

TS #: 030130-MN2	Site: 98995743
Sampler: MPN	Date: 1/30/03
Well I.D.: S-2	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth (TD): 12.10	Depth to Water (DTW): 7.29
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.25	

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

1.8 (Gals.) X <u>3</u> = 5.4 Gals. Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>radius<sup>2</sup> * 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 <sup>2</sup> * 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 <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>(µS)</u> )	Turbidity (NTUs)	Gals. Removed	Observations
123	63.4	8.7	792	169	1.8	cloudy, Heavy silt, etc. color
1124	Well dewatered					DTW = 10.39
1210	62.8	8.1	796	121	-	cloudy, Heavy silt, etc. color

Did well dewater?  Yes    No      Gallons actually evacuated: 1.8

Sampling Date: 1/30/03    Sampling Time: 12:10    Depth to Water: 9.40

Sample I.D.: S-2      Laboratory: (KIF)    SPL    Other \_\_\_\_\_

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

Blank 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): 15.6 <sup>mg/L</sup>      Post-purge: \_\_\_\_\_ <sup>mg/L</sup>

R.P. (if req'd): Pre-purge: (Ruled ORC from well) mV      Post-purge: \_\_\_\_\_ mV

## SHELL WELL MONITORING DATA SHEET

6

BTS #: 030130 - M12	Site: 98995743
Sampler: MDN	Date: 1/30/03
Well I.D.: S-3	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth (TD): 12.15	Depth to Water (DTW): 7.14
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.14	

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

1.9 (Gals.) X 3 = 5.7 Gals.  
 Case Volume                  Specified Volumes                  Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1100	64.9	7.2	670	> 700	1.9	Light cloudy, Light Brown, HC color
1111	Well	dewatered			—	DTW - 10.42
135	64.0	8.0	690	7200	—	Light Brown, Cloudy

Did well dewater?  Yes    No                  Gallons actually evacuated: 1.9

Sampling Date: 1/30/03    Sampling Time: 1135    Depth to Water: 7.72

Sample I.D.: S-3                  Laboratory: Kitt    SPL    Other \_\_\_\_\_

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

B.I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time    Duplicate I.D. (if applicable): \_\_\_\_\_

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

D.O. (if req'd): <u>Pre-purge:</u> <u>13.6</u> $\mu$ S/L	Post-purge: _____ $\mu$ S/L
R.P. (if req'd): <u>Pre-purge:</u> <u>Bottom ORC from mV well</u>	Post-purge: _____ mV

## SHELL WELL MONITORING DATA SHEET

6

BTS #: 030130 - 1102	Site: 98995743
Sampler: MDN	Date: 1/30/03
Well I.D.: S-4	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth (TD): 14.06	Depth to Water (DTW): 8.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Gmde	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.57	

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

Other: \_\_\_\_\_

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

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.17
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1009	64.2	7.3	111	7200	2.1	Black, cloudy
1010	Well	dewatered			-	DTW = 13.08
015	64.9	6.5	132	7200	-	Black, cloudy

Did well dewater?  Yes      No      Gallons actually evacuated: 2.1

Sampling Date: 1/30/03      Sampling Time: 1015      Depth to Water: 13.08 (Traffic Meter)

Sample I.D.: S-4      Laboratory: KIT      SPL      Other \_\_\_\_\_

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

Sample 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

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

## SHELL WELL MONITORING DATA SHEET

BTS #: 030130 - MN2	Site: 98995743
Sampler: MDN	Date: 1/30/03
Well I.D.: S-6	Well Diameter: 2 <u>①</u> 4 6 8
Total Well Depth (TD): 14.77	Depth to Water (DTW): 5.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.53	

Purge Method: <input checked="" type="checkbox"/> Bailor	Water: _____	Sampling Method: <input checked="" type="checkbox"/> Bailor	_____
Disposible Bailor	Peristaltic	Disposible Bailor	_____
Middleburg	Extraction Pump	Extraction Port	_____
Electric Submersible	Other _____	Dedicated Tubing	_____
Other: _____			

$\frac{3.3 \text{ (Gals.)} \times 3}{\text{Specified Volume}} = \frac{9.9}{\text{Calculated Volume}} \text{ Gals.}$	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Well Diameter</th> <th style="text-align: left;">Multiplier</th> <th style="text-align: left;">Well Diameter</th> <th style="text-align: left;">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>radius<sup>2</sup> * 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 <sup>2</sup> * 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 <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\text{①}$ )	Turbidity (NTUs)	Gals. Removed	Observations
1028	64.8	6.4	859	>700	3.3	Black string light, black shimmer
030	Well dewatered				—	DTW - 13.30
1035	64.8	6.9	877	>700	—	Black string light, black shimmer

Did well dewater?  Yes    No    Gallons actually evacuated: 3.3  
 Sampling Date: 1/30/03    Sampling Time: 1035    Depth to Water: 13.30 (TPH-Fac Well)

Sample I.D.: S-6    Laboratory: Riff    SPL    Other \_\_\_\_\_

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

B I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time    Duplicate I.D. (if applicable): \_\_\_\_\_

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

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

## SHELL WELL MONITORING DATA SHEET

b

WTS #: 030130 - MNA	Site: 98995743
Sampler: MDN	Date: 1/30/03
Well I.D.: S-7	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): 14.82	Depth to Water (DTW): 9.78
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): YSI <input type="checkbox"/> HACH <input type="checkbox"/>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

$2.0 \text{ (Gals.)} \times 3 = 6.0 \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>radius<sup>2</sup> * 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 <sup>2</sup> * 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 <sup>2</sup> * 0.163														
Case Volume	Specified Volume	Calculated Volume															

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
938	61.9	6.2	698	140	2.0	Light Brown, Cloudy
979	Well	dewatered				DTW = 13.75
944	62.5	6.3	741	2200	-	DTW = 13.23

Did well dewater?  Yes  No      Gallons actually evacuated: 2.0

Sampling Date: 1/30/03      Sampling Time: 944      Depth to Water: 13.73 (Traffic well)

Sample I.D.: S-7      Laboratory:  KIL  SPL  Other \_\_\_\_\_

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

Blank 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

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

# WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Client Shell Date 1/30/03  
 Site Address 999 San Pablo Ave.  
 Job Number 030130 - MW1 Technician MON.

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
S-1								X
S-2								X
S-3					X			X
S-4								X
S-6					X			X
S-7	X							<del>X</del>

S-1 S  
 S-2 S  
 S-3 S  
 S-4 S  
 S-6 S  
 S-7 S

NOTES: S-4 casing below grade.  
S-6 casing below grade.  
S-7 casing below grade.