



Shell Oil Products US

January 30, 2003

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

Alameda County
FEB 04 2003
Environmental Health

Subject: Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California

Dear Mr. Seery:

Attached for your review and comment is a copy of the *Fourth Quarter 2002 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

January 30, 2003

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

Re: Fourth Quarter 2002 Monitoring Report
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California
Incident #98995822
Cambria Project# 245-0687-002



Dear Mr. Seery:

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.

FOURTH QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California measured dissolved oxygen (DO) concentrations, gauged and sampled all site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity map (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.

Additional Oxygenate Analysis: In addition to the regular quarterly analysis for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl-tertiary-butyl ether (MTBE), groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 were analyzed for four additional oxygenates and two lead scavengers. Analytical results for MTBE, di-isopropyl ether, ethyl tert-butyl ether, tert-amyl methyl ether, tert-butyl alcohol, 1,2-di-chloroethane, and ethylene dibromide are summarized in Table 1.

Oakland, CA
San Ramon, CA
Sonoma, CA

**Cambria
Environmental
Technology, Inc.**

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

ANTICIPATED FIRST QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine will measure DO, gauge and sample all site wells, and tabulate the data. The samples will be analyzed for TPHg, BTEX and MTBE. Cambria will prepare a monitoring report.

Sample Frequency Reduction Request: Beginning in the second quarter of 2003, Cambria proposes to reduce the sampling frequency of certain wells, based on historical results that show non-detectable or very low chemical concentrations. Cambria proposes to sample MW-1 annually in the first quarter, wells MW-4 and MW-5 semi-annually in the first and third quarters, and wells MW-2 and MW-3 quarterly. All samples will be analyzed for TPHg, BTEX and MTBE. If concurrence from Alameda County Health Care Services Agency is not received, Cambria will contact you by phone to request concurrence prior to the second quarter of 2003 sampling event.

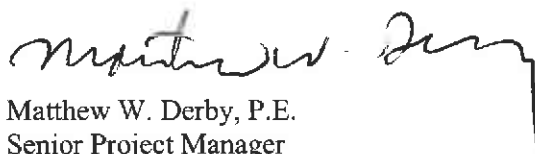
CLOSING

We appreciate the opportunity to work with you on this project. Please call Matt Derby at (510) 420-3332 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



Anni Kreml
Senior Staff Scientist



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





Figures: 1 - Vicinity Map
2 - Groundwater Elevation Contour Map

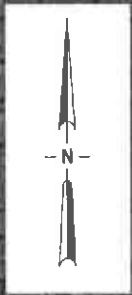
Table: 1 - Groundwater Analytical Data - Oxygenates

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

-  Underground stream
-  Above ground stream

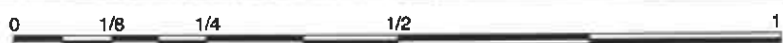


Site

FIGURE
1

G:\PIEDMONT29WILDWOOD\VICINITY.A1

SOURCE: TOPOI MAPS



SCALE : 1" = 1/4 MILE

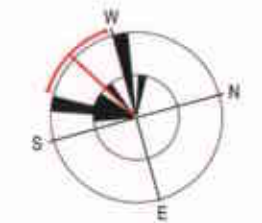
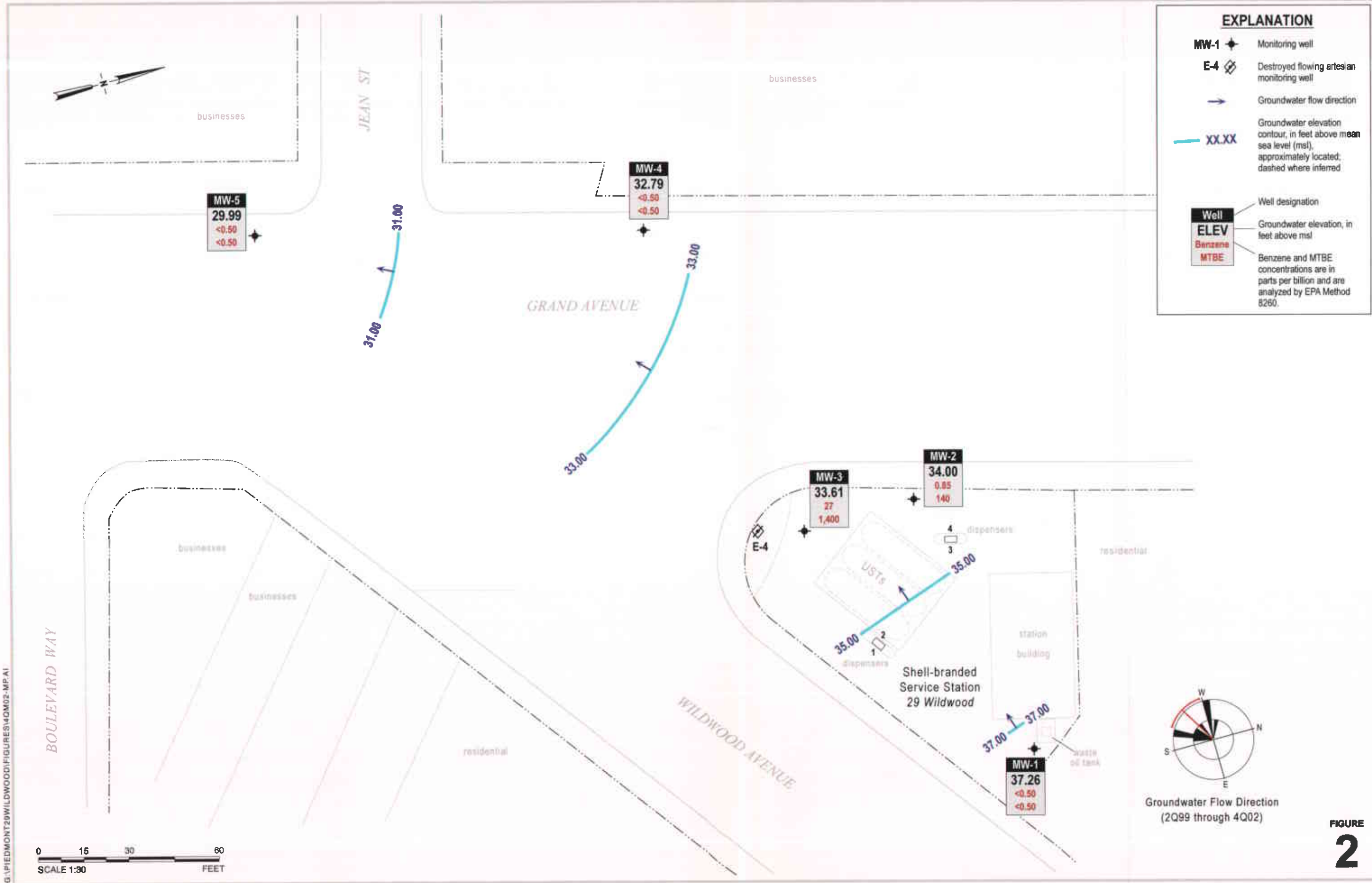
Shell-branded Service Station

29 Wildwood Avenue
Piedmont, California
Incident #98995822



C A M B R I A

Vicinity Map



Groundwater Flow Direction (2Q99 through 4Q02)



SCALE 1:30 FEET

EXPLANATION

- MW-1 Monitoring well
- E-4 Destroyed flowing artesian monitoring well
- Groundwater flow direction
- XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred

Well

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

Groundwater Elevation Contour Map

October 23, 2002



C A M B R I A

FIGURE 2

Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California
Incident #98995822

Table 1. Groundwater Analytical Data - Oxygenates - Former Shell Service Station, Incident #98995822, 29 Wildwood Avenue, Piedmont, California

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME (Concentrations in ppb)	TBA	1,2-DCA	EDB
MW-1	10/23/02	<0.50	<2.0	<2.0	<2.0	<50	<2.0	<2.0
MW-2	10/23/02	140	<2.0	<2.0	<2.0	<50	<2.0	<2.0
MW-3	10/23/02	1,400	<5.0	<5.0	7.4	300	<5.0	<5.0
MW-4	10/23/02	<0.50	<2.0	<2.0	<2.0	<50	<2.0	<2.0
MW-5	10/23/02	<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-Dibromoethane, analyzed by EPA Method 8260
 ppb = Parts per billion

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

November 14, 2002

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

Fourth Quarter 2002 Groundwater Monitoring at
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, CA

Monitoring performed on October 23, 2002

Groundwater Monitoring Report 021023-BA-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.
1144 65th Street, Suite C
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, 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)	DO Reading (ppm)
MW-1	07/12/1989	<50	<0.5	<1	<1	<3	NA	NA	37.96	2.76	35.20	NA
MW-1	01/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.10	34.86	NA
MW-1	04/27/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.24	34.72	NA
MW-1	07/31/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.26	33.70	NA
MW-1	10/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.25	33.71	NA
MW-1	01/31/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.66	34.30	NA
MW-1	04/30/1991	<50	0.8	<0.5	0.6	1.2	NA	NA	37.96	3.46	34.50	NA
MW-1	07/30/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.14	33.82	NA
MW-1	10/29/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.96	34.00	NA
MW-1	01/20/1992	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	37.96	3.59	34.37	NA
MW-1	04/14/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.18	31.71	NA
MW-1	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.17	33.79	NA
MW-1	10/02/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.29	33.67	NA
MW-1	01/20/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	2.32	35.64	NA
MW-1	05/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.50	34.46	1.9
MW-1	06/28/1993	NA	NA	NA	NA	NA	NA	NA	37.96	3.76	34.20	NA
MW-1	07/21/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.09	33.87	4.6
MW-1	10/19/1993	50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.58	34.38	4.3
MW-1	01/20/1994	Well inaccessible		NA	NA	NA	NA	NA	37.96	NA	NA	NA
MW-1	04/12/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.60	34.36	7.5
MW-1	07/20/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.10	33.86	3.2
MW-1	10/06/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	4.30	33.66	3.2
MW-1	01/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	2.94	35.02	10.6
MW-1	07/06/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	3.68	34.28	NA
MW-1	01/24/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	37.96	2.12	35.84	NA
MW-1	07/12/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	37.96	3.58	34.38	2.7

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, 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)	DO Reading (ppm)
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MW-1	01/16/1997	120	14	10	3.6	14	<2.5	NA	37.96	2.30	35.66	3
MW-1	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	8.6	NA	37.96	3.66	34.30	4.5
MW-1	05/13/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	37.96	2.81	35.15	5.1
MW-1	10/01/1998	<50	<0.50c	<0.50c	<0.50c	<0.50c	<2.5c	NA	37.96	3.75	34.21	5.0
MW-1	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	37.96	3.52	34.44	4.1
MW-1	11/01/1999	<50.0	<0.500	<0.500	<0.500	<0.500	5.03	NA	37.96	4.05	33.91	3.6
MW-1	04/05/2000	<50.0	<0.500	<0.500	<0.500	<0.500	3.22	NA	37.96	3.74	34.22	4.2
MW-1	10/30/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	37.96	2.19	35.77	4.1
MW-1	04/27/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	37.96	4.43	33.53	1.9
MW-1	10/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	37.96	4.34	33.62	2.4
MW-1	05/09/2002	Well inaccessible		NA	NA	NA	NA	NA	37.96	NA	NA	NA
MW-1	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	37.96	3.53	34.43	1.2
MW-1	10/23/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	40.94	3.68	37.26	3.5

MW-2	07/12/1989	60	2.7	<1	<1	<3	NA	NA	34.89	3.66	31.23	NA
MW-2	01/30/1990	<50	6.6	<0.5	0.54	0.93	NA	NA	34.89	3.49	31.40	NA
MW-2	04/27/1990	60	2.1	<0.5	<0.5	<0.5	NA	NA	34.89	3.79	31.10	NA
MW-2	07/31/1990	70	1.5	<0.5	<0.5	<0.5	NA	NA	34.89	4.03	30.86	NA
MW-2	10/30/1990	70	<0.5	0.7	<0.5	1.6	NA	NA	34.89	4.21	30.68	NA
MW-2	01/31/1991	80	<0.5	<0.5	0.9	1.9	NA	NA	34.89	4.09	30.80	NA
MW-2	04/30/1991	100	5.9	0.6	0.7	2	NA	NA	34.89	3.95	30.94	NA
MW-2	07/30/1991	<50	<0.5	<0.7	<0.5	<0.5	NA	NA	34.89	4.07	30.82	NA
MW-2	10/29/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	4.11	30.78	NA
MW-2	01/20/1992	<30	0.84	<0.3	<0.41	<0.48	NA	NA	34.89	3.86	31.03	NA
MW-2	04/14/1992	70	16	<0.5	3.1	2.1	NA	NA	34.89	3.66	34.30	NA
MW-2	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	3.92	30.97	NA

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, 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)	DO Reading (ppm)
MW-2	10/02/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	4.45	30.44	NA
MW-2	01/20/1993	<50	3.8	<0.5	0.52	<0.5	NA	NA	34.89	3.74	31.15	NA
MW-2	05/03/1993	680a	2.8	<0.5	<0.5	<0.5	NA	NA	34.89	3.77	31.12	0.9
MW-2	06/28/1993	NA	NA	NA	NA	NA	NA	NA	34.89	3.96	30.93	NA
MW-2	07/21/1993	<50	8	1.2	1.8	7.9	NA	NA	34.89	4.39	30.50	5.9
MW-2	10/19/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	3.92	30.97	5.7
MW-2	01/20/1994	<50	1.5	<0.5	<0.5	<0.5	NA	NA	34.89	4.45	30.44	3.2
MW-2	04/12/1994	<50	2.9	<0.5	<0.5	<0.5	NA	NA	34.89	4.72	30.17	11.4
MW-2	07/20/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	5.32	29.57	2.4
MW-2	10/06/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.89	4.03	30.86	2.9
MW-2	01/20/1995	290	28	<0.5	<0.5	<0.5	NA	NA	34.89	3.89	31.00	4.6
MW-2	07/06/1995	120	3	<0.5	<0.5	<0.5	NA	NA	34.89	8.84	26.05	NA
MW-2	01/24/1996	70	3.1	<0.5	0.8	1.5	NA	NA	34.89	3.80	31.09	NA
MW-2 (D)	01/24/1996	70	3.2	0.5	0.7	1.5	NA	NA	34.89	NA	NA	NA
MW-2	07/12/1996	<50	0.68	<0.5	<0.5	<0.5	270	NA	34.89	3.85	31.04	3.8
MW-2	01/16/1997	230	34	1.6	1.6	4.2	460	NA	34.89	3.84	31.05	NA
MW-2	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	54	NA	34.89	3.75	31.14	2.9
MW-2	05/13/1998	NA	NA	NA	NA	NA	NA	NA	34.89	3.78	31.11	NA
MW-2	10/01/1998	<50	<0.50c	<0.50c	<0.50c	<0.50c	100	NA	34.89	4.90	29.99	3.0
MW-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	34.89	4.69	30.20	NA
MW-2	11/01/1999	<50.0	<0.500	1.29	0.669	4.52	7.21	NA	34.89	5.24	29.65	2.9
MW-2	04/05/2000	376d	68.1d	3.10d	2.88d	5.35d	729d	NA	34.89	3.43	31.46	3.6
MW-2	10/30/2000	5,790	59.2	315	162	1320	346	NA	34.89	2.35	32.54	2.8
MW-2	04/27/2001	2,720	90.8	22.8	18.1	165	512	578	34.89	4.67	30.22	0.9
MW-2	10/31/2001	<10,000	<100	<100	<100	<100	NA	<100	34.89	3.68	31.21	1.3
MW-2	05/09/2002	490	1.5	7.8	2.1	14	NA	200	34.89	3.18	31.71	1.1

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, 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)	DO Reading (ppm)
MW-2	07/25/2002	1,200	1.0	3.3	1.3	8.3	NA	45	34.89	3.30	31.59	0.4
MW-2	10/23/2002	1,100	0.85	3.8	1.3	7.9	NA	140	37.87	3.87	34.00	0.8
MW-3	07/12/1989	3,900	380	41	99	30	NA	NA	35.00	3.83	31.17	NA
MW-3	01/30/1990	5,500	440	35	79	130	NA	NA	35.00	3.24	31.76	NA
MW-3	04/27/1990	4,500	310	26	37	110	NA	NA	35.00	4.02	30.98	NA
MW-3	07/31/1990	3,500	210	17	8.4	62	NA	NA	35.00	4.31	30.69	NA
MW-3	10/30/1990	2,300	610	<0.5	<0.5	28	NA	NA	35.00	4.52	30.48	NA
MW-3	01/31/1991	4,100	300	20	19	81	NA	NA	35.00	4.33	30.67	NA
MW-3	04/30/1991	3,800	370	19	8.6	60	NA	NA	35.00	3.79	31.21	NA
MW-3	07/30/1991	3,300	160	13	15	87	NA	NA	35.00	4.37	30.63	NA
MW-3	10/29/1991	1,000	35	2.8	2.9	8.1	NA	NA	35.00	4.00	31.00	NA
MW-3	01/20/1992	6,900	380	18	47	48	NA	NA	35.00	3.87	31.13	NA
MW-3	04/14/1992	6,000	480	38	41	55	NA	NA	35.00	3.15	31.85	NA
MW-3	07/21/1992	3,700	330	13	30	23	NA	NA	35.00	4.17	30.83	NA
MW-3	10/02/1992	4,200	260	10	13	12	NA	NA	35.00	4.43	30.57	NA
MW-3	01/20/1993	4,200	360	15	32	26	NA	NA	35.00	2.20	32.80	NA
MW-3 (D)	01/20/1993	3,900	370	15	32	26	NA	NA	35.00	NA	NA	NA
MW-3	05/03/1993	12,000	290	520	120	620	NA	NA	35.00	3.50	31.50	0.6
MW-3	06/28/1993	NA	NA	NA	NA	NA	NA	NA	35.00	4.08	30.92	NA
MW-3	07/21/1993	2,000	170	12	<10	11	NA	NA	35.00	4.12	30.88	4.3
MW-3 (D)	07/21/1993	2,000	170	10	<10	14	NA	NA	35.00	NA	NA	NA
MW-3	10/19/1993	2,000	240	<0.5	<0.5	<0.5	NA	NA	35.00	4.20	30.80	5.7
MW-3	01/20/1994	4,200	280	<10	<10	<10	NA	NA	35.00	4.08	30.92	4.1
MW-3 (D)	01/20/1994	3,800	250	<10	<10	<10	NA	NA	35.00	NA	NA	4.1
MW-3	04/12/1994	4,700	380	<10	<10	<10	NA	NA	35.00	3.70	31.30	10.6

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, 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)	DO Reading (ppm)
MW-3 (D)	04/12/1994	3,400	370	<25	<25	<25	NA	NA	35.00	NA	NA	NA
MW-3	07/20/1994	5,100	320	77	15	34	NA	NA	35.00	4.26	30.74	2.3
MW-3 (D)	07/20/1994	4,400	250	14	13	32	NA	NA	35.00	NA	NA	NA
MW-3	10/06/1994	4,300	280	9.7	4	15	NA	NA	35.00	4.31	30.69	2.3
MW-3	01/20/1995	4,600	180	18	16	10	NA	NA	35.00	3.00	32.00	11.1
MW-3 (D)	01/20/1995	4,300	170	12	15	7.2	NA	NA	35.00	NA	NA	NA
MW-3	07/06/1995	3,900	310	<0.5	7.6	13	NA	NA	35.00	3.75	31.25	NA
MW-3 (D)	07/06/1995	4,100	330	<0.5	7.9	2.4	NA	NA	35.00	NA	NA	NA
MW-3	01/24/1996	5,000	210	14	14	12	NA	NA	35.00	3.26	31.74	NA
MW-3	07/12/1996	2,700	210	<0.5	<0.5	<0.5	3,600	NA	35.00	3.77	31.23	2.4
MW-3 (D)	07/12/1996	2,800	210	<0.5	<0.5	<0.5	3,400	NA	35.00	NA	NA	2.4
MW-3	01/16/1997	4,200	130	19	10	34	4,400	4,600	35.00	2.38	32.62	2.3
MW-3	10/24/1997	4,100	270	9	5.1	8.8	2,000	NA	35.00	4.12	30.88	1.9
MW-3 (D)	10/24/1997	1,700	220	<5.0	<5.0	<5.0	1,500	NA	35.00	NA	NA	1.9
MW-3	05/13/1998	NA	NA	NA	NA	NA	NA	NA	35.00	3.22	31.78	NA
MW-3	10/01/1998	1,400	84c	<5.0c	<5.0c	<5.0c	2,300	NA	35.00	4.15	30.85	2.0
MW-3 (D)	10/01/1998	2,100	100c	<10c	<10c	<10c	2,600	NA	35.00	NA	NA	2.0
MW-3	04/29/1999	NA	NA	NA	NA	NA	NA	NA	35.00	4.27	30.73	NA
MW-3	11/01/1999	1,850	94.3	6.09	<5.00	6.67	4,140	NA	35.00	4.65	30.35	2.2
MW-3	04/05/2000	3,070	96.9	12.1	<10.0	<10.0	1,050	NA	35.00	3.50	31.50	2.7
MW-3	10/30/2000	1,570	56.8	1.91	1.39	3.06	572	524	35.00	3.40	31.60	3.1
MW-3	04/27/2001	2,420	103	12.6	<5.00	15.6	314	NA	35.00	3.67	31.33	0.9
MW-3	10/31/2001	<50	0.71	<0.50	<0.50	<0.50	NA	31	35.00	3.79	31.21	1.6
MW-3	05/09/2002	2,000	52	<10	<10	<10	NA	4,100	35.00	3.76	31.24	0.9
MW-3	07/25/2002	1,800	50	<5.0	<5.0	<5.0	NA	1,900	35.00	4.17	30.83	3.7
MW-3	10/23/2002	1,700	27	<5.0	<5.0	<5.0	NA	1,400	37.97	4.36	33.61	1.6

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, 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)	DO Reading (ppm)
MW-4	01/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.50	29.23	NA
MW-4	04/27/1990	130a	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.62	30.11	NA
MW-4	07/31/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.19	29.54	NA
MW-4	10/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.19	29.54	NA
MW-4	01/31/1991	50a	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.49	29.24	NA
MW-4	04/30/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.02	29.71	NA
MW-4	07/30/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.39	29.34	NA
MW-4	10/29/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.75	29.98	NA
MW-4	01/20/1992	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	33.73	3.94	29.79	NA
MW-4	04/14/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.71	30.02	NA
MW-4	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.02	29.71	NA
MW-4	10/02/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.13	29.60	NA
MW-4	01/20/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.10	30.63	NA
MW-4	05/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.70	30.03	1.7
MW-4	06/28/1993	NA	NA	NA	NA	NA	NA	NA	33.73	3.81	29.92	NA
MW-4	07/21/1993	<50	0.56	<0.5	<0.5	<0.5	NA	NA	33.73	3.81	29.92	4.5
MW-4	10/19/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.94	29.79	5.8
MW-4	01/20/1994	<50	0.71	<0.5	<0.5	<0.5	NA	NA	33.73	4.00	29.73	4.4
MW-4	04/12/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	4.01	29.72	7.3
MW-4	07/20/1994	160	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.91	29.82	6.4
MW-4	10/06/1994	410	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.99	29.74	5.0
MW-4	01/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.56	30.17	4.9
MW-4	07/06/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	33.73	3.85	29.88	NA
MW-4	01/24/1996	<50	<0.5	<0.5	0.6	1.8	NA	NA	33.73	2.56	31.17	NA
MW-4	07/12/1996	<50	<0.5	<0.5	<0.5	<0.5	b	NA	33.73	3.36	30.37	2.7

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, 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)	DO Reading (ppm)
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MW-4	01/16/1997	Well inaccessible		NA	NA	NA	NA	NA	33.73	NA	NA	NA
MW-4	10/24/1997	Well inaccessible		NA	NA	NA	NA	NA	33.73	NA	NA	NA
MW-4	05/13/1998	Well inaccessible		NA	NA	NA	NA	NA	33.73	NA	NA	NA
MW-4	10/01/1998	<50	<0.50c	<0.50c	<0.50c	0.74c	8.1	NA	33.73	3.90	29.83	2.5
MW-4	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	5.7	NA	33.73	3.97	29.76	2.1
MW-4	11/01/1999	Well inaccessible		NA	NA	NA	NA	NA	33.73	NA	NA	NA
MW-4	04/05/2000	<50.0	<0.500	<0.500	<0.500	<0.500	3.64	NA	33.73	3.63	30.10	2.1
MW-4	10/30/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	33.73	3.33	30.40	3.0
MW-4	04/27/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	33.73	3.48	30.25	2.2
MW-4	10/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	33.73	3.58	30.15	2.8
MW-4	05/09/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	33.73	3.74	29.99	2.0
MW-4	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	33.73	3.71	30.02	1.3
MW-4	10/23/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	36.72	3.93	32.79	2.6

MW-5	01/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	7.12	24.26	NA
MW-5	04/27/1990	210a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.19	27.19	NA
MW-5	07/31/1990	90	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.09	27.29	NA
MW-5	10/30/1990	100	0.8	0.7	0.6	1.4	NA	NA	31.38	4.39	26.99	NA
MW-5	01/31/1991	80a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.49	26.89	NA
MW-5	04/30/1991	90	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.27	27.11	NA
MW-5	07/30/1991	90	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.32	27.06	NA
MW-5	10/29/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	3.79	27.59	NA
MW-5	01/20/1992	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	31.38	4.09	27.29	NA
MW-5	04/14/1992	<50a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.12	27.26	NA
MW-5	07/21/1992	74a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.13	27.25	NA
MW-5	10/02/1992	76a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.30	27.08	NA

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
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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)	DO Reading (ppm)
MW-5	01/20/1993	72a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	3.12	28.26	NA
MW-5	05/03/1993	70a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.07	27.31	1.6
MW-5 (D)	05/04/1993	80a	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	NA	NA	NA
MW-5	06/28/1993	NA	NA	NA	NA	NA	NA	NA	31.38	4.08	27.30	NA
MW-5	07/21/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.05	27.33	3.5
MW-5	10/19/1993	51	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.20	27.18	3.8
MW-5	01/20/1994	90	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.40	26.98	4.2
MW-5	04/12/1994	67	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.18	27.20	NA
MW-5	07/20/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.06	27.32	3.2
MW-5	10/06/1994	80	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.01	27.37	2.1
MW-5 (D)	10/06/1994	60	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	NA	NA	NA
MW-5	01/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	3.49	27.89	3.2
MW-5	07/06/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	31.38	4.06	27.32	NA
MW-5	01/24/1996	70	<0.5	<0.5	0.8	2.9	NA	NA	31.38	2.90	28.48	NA
MW-5	07/12/1996	62	<0.5	<0.5	<0.5	<0.5	b	NA	31.38	4.02	27.36	1.9
MW-5	01/16/1997	66	0.91	0.89	<0.50	1.7	<2.5	NA	31.38	2.59	28.79	2.2
MW-5 (D)	01/16/1997	<50	0.7	0.78	<0.50	1.3	<2.5	NA	31.38	NA	NA	2.2
MW-5	10/24/1997	59	<0.50	<0.50	<0.50	<0.50	17	NA	31.38	4.15	27.23	4.6
MW-5	05/13/1998	72	<0.50	<0.50	<0.50	<0.50	<2.5	NA	31.38	3.64	27.74	2.1
MW-5 (D)	05/13/1998	70	<0.50	<0.50	<0.50	<0.50	<2.5	NA	31.38	NA	NA	2.1
MW-5	10/01/1998	57	<0.50c	<0.50c	<0.50c	0.62c	20	NA	31.38	4.25	27.13	2.2
MW-5	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	16	NA	31.38	4.56	26.82	2.0
MW-5	11/01/1999	<50.0	<0.500	<0.500	<0.500	<0.500	3.06	NA	31.38	4.19	27.19	2.2
MW-5	04/05/2000	<50.0	<0.500	<0.500	<0.500	<0.500	22.5	NA	31.38	4.34	27.04	2.2
MW-5	10/30/2000	<50.0	<0.500	<0.500	<0.500	<0.500	19.3	NA	31.38	3.25	28.13	4.0
MW-5	04/27/2001	51.5	<0.500	<0.500	<0.500	<0.500	4.29	NA	31.38	4.07	27.31	1.0

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
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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)	DO Reading (ppm)
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MW-5	10/31/2001	210	<0.50	<0.50	<0.50	<0.50	NA	<5.0	31.38	4.02	27.36	1.5
MW-5	05/09/2002	280	0.71	<0.50	<0.50	<0.50	NA	<5.0	31.38	4.31	27.07	1.7
MW-5	07/25/2002	410	<0.50	<0.50	<0.50	<0.50	NA	<5.0	31.38	4.32	27.06	0.7
MW-5	10/23/2002	290	<0.50	<0.50	<0.50	<0.50	NA	<0.50	34.36	4.37	29.99	2.3

E-4	07/12/1989	<50	<0.5	<1	<1	<3	NA	NA	34.63	NA	>39.13	NA
E-4	01/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	04/27/1990	120a	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	07/31/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	10/30/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	01/31/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	04/30/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	07/30/1991	<50	<0.5	0.6	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	10/29/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	01/20/1992	<30	<0.3	<0.3	<0.3	<0.3	NA	NA	34.63	NA	>34.63	NA
E-4	04/14/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	10/02/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	01/20/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	05/03/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	0.6
E-4	06/28/1993	NA	NA	NA	NA	NA	NA	NA	34.63	NA	>34.63	NA
E-4	07/21/1993	<50	5.4	0.72	1	4.4	NA	NA	34.63	NA	>34.63	5.4
E-4	10/19/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	5.6
E-4	01/20/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	NA
E-4	04/12/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	9.4
E-4	07/20/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	2.0

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, 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)	DO Reading (ppm)
E-4	10/06/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	1.3
E-4	01/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	34.63	NA	>34.63	3.7
E-4	05/16/1995	Well abandoned		NA	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations:

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

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to October 31, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
29 Wildwood Avenue
Piedmont, 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)	DO Reading (ppm)
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Notes:

a = Chromatogram pattern indicated an unidentified hydrocarbon.

b = Due to coelution with early eluters, no result could be determined for MTBE

c = Laboratory reported 1.3 ug/L benzene, 11 ug/L toluene, 0.98 ug/L ethyl benzene, and 6.5 ug/L total xylenes in the equipment blank.

d = Result reported was generated out of hold time.

Well E-4 is a flowing artesian well; potentiometric surface above top-of-casing elevation.

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



Report Number : 29350

Date : 10/31/02

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

Subject : 5 Water Samples
Project Name : 29 Wildwood Avenue, Piedmont
Project Number : 021023-BA2
P.O. Number : 98995822

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 : 29350

Date : 10/31/02

Subject : 5 Water Samples
Project Name : 29 Wildwood Avenue, Piedmont
Project Number : 021023-BA2
P.O. Number : 98995822

Case Narrative

Hydrocarbons reported as TPH as Gasoline do not exhibit a typical Gasoline chromatographic pattern for sample MW-5.


Approved By: Joel Kiff



Report Number : 29350

Date : 10/31/02

Project Name : 29 Wildwood Avenue, Piedmont

Project Number : 021023-BA2

Sample : MW-1

Matrix : Water

Lab Number : 29350-01

Sample Date : 10/23/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/28/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/28/02
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/28/02
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/28/02
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/28/02
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/28/02
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/28/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/28/02
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	10/28/02
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	10/28/02
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	10/28/02
4-Bromofluorobenzene (Surr)	95.5		% Recovery	EPA 8260B	10/28/02
Dibromofluoromethane (Surr)	115		% Recovery	EPA 8260B	10/28/02
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	10/28/02

Approved By:  Joel Kiff



Report Number : 29350

Date : 10/31/02

Project Name : 29 Wildwood Avenue, Piedmont

Project Number : 021023-BA2

Sample : MW-2

Matrix : Water

Lab Number : 29350-02

Sample Date :10/23/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.85	0.50	ug/L	EPA 8260B	10/29/02
Toluene	3.8	0.50	ug/L	EPA 8260B	10/29/02
Ethylbenzene	1.3	0.50	ug/L	EPA 8260B	10/29/02
Total Xylenes	7.9	0.50	ug/L	EPA 8260B	10/29/02
Methyl-t-butyl ether (MTBE)	140	0.50	ug/L	EPA 8260B	10/29/02
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/29/02
TPH as Gasoline	1100	50	ug/L	EPA 8260B	10/29/02
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	10/29/02
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	10/29/02
Dibromofluoromethane (Surr)	108		% Recovery	EPA 8260B	10/29/02
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	10/29/02

Approved By: Joel Kiff



Report Number : 29350

Date : 10/31/02

Project Name : 29 Wildwood Avenue, Piedmont

Project Number : 021023-BA2

Sample : MW-3

Matrix : Water

Lab Number : 29350-03

Sample Date :10/23/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	27	5.0	ug/L	EPA 8260B	10/30/02
Toluene	< 5.0	5.0	ug/L	EPA 8260B	10/30/02
Ethylbenzene	< 5.0	5.0	ug/L	EPA 8260B	10/30/02
Total Xylenes	< 5.0	5.0	ug/L	EPA 8260B	10/30/02
Methyl-t-butyl ether (MTBE)	1400	5.0	ug/L	EPA 8260B	10/30/02
Diisopropyl ether (DIPE)	< 5.0	5.0	ug/L	EPA 8260B	10/30/02
Ethyl-t-butyl ether (ETBE)	< 5.0	5.0	ug/L	EPA 8260B	10/30/02
Tert-amyl methyl ether (TAME)	7.4	5.0	ug/L	EPA 8260B	10/30/02
Tert-Butanol	300	50	ug/L	EPA 8260B	10/30/02
TPH as Gasoline	1700	500	ug/L	EPA 8260B	10/30/02
1,2-Dichloroethane	< 5.0	5.0	ug/L	EPA 8260B	10/30/02
1,2-Dibromoethane	< 5.0	5.0	ug/L	EPA 8260B	10/30/02
Toluene - d8 (Surr)	97.1		% Recovery	EPA 8260B	10/30/02
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	10/30/02
Dibromofluoromethane (Surr)	97.0		% Recovery	EPA 8260B	10/30/02
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	10/30/02

Approved By:  Joel Kiff



Report Number : 29350

Date : 10/31/02

Project Name : 29 Wildwood Avenue, Piedmont

Project Number : 021023-BA2

Sample : MW-4

Matrix : Water

Lab Number : 29350-04

Sample Date :10/23/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/29/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/29/02
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	10/29/02
4-Bromofluorobenzene (Surr)	97.7		% Recovery	EPA 8260B	10/29/02
Dibromofluoromethane (Surr)	111		% Recovery	EPA 8260B	10/29/02
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	10/29/02

Approved By:  Joel Kiff



Report Number : 29350

Date : 10/31/02

Project Name : 29 Wildwood Avenue, Piedmont

Project Number : 021023-BA2

Sample : MW-5

Matrix : Water

Lab Number : 29350-05

Sample Date :10/23/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/29/02
TPH as Gasoline	290	50	ug/L	EPA 8260B	10/29/02
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/29/02
4-Bromofluorobenzene (Surr)	96.9		% Recovery	EPA 8260B	10/29/02
Dibromofluoromethane (Surr)	108		% Recovery	EPA 8260B	10/29/02
1,2-Dichloroethane-d4 (Surr)	98.7		% Recovery	EPA 8260B	10/29/02

Approved By:  Joel Kiff

Report Number : 29350

Date : 10/31/02

QC Report : Method Blank Data

Project Name : 29 Wildwood Avenue, Piedmont

Project Number : 021023-BA2

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/29/02
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/29/02
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Dibromofluoromethane (Surr)	102		%	EPA 8260B	10/29/02
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	10/29/02
Toluene - d8 (Surr)	105		%	EPA 8260B	10/29/02
4-Bromofluorobenzene (Surr)	99.5		%	EPA 8260B	10/29/02

Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/28/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/28/02
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/28/02
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/28/02
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/28/02
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/28/02
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/28/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/28/02
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	10/28/02
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	10/28/02
Toluene - d8 (Surr)	99.0		%	EPA 8260B	10/28/02
4-Bromofluorobenzene (Surr)	95.5		%	EPA 8260B	10/28/02
Dibromofluoromethane (Surr)	111		%	EPA 8260B	10/28/02
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	10/28/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/29/02
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/29/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/29/02
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	10/29/02
Dibromofluoromethane (Surr)	115		%	EPA 8260B	10/29/02
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	10/29/02
Toluene - d8 (Surr)	102		%	EPA 8260B	10/29/02
4-Bromofluorobenzene (Surr)	94.6		%	EPA 8260B	10/29/02

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 : 29 Wildwood Avenue,

Project Number : 021023-BA2

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	29325-04	<0.50	19.7	20.0	18.6	19.4	ug/L	EPA 8260B	10/29/02	94.1	97.0	2.98	70-130	25
Toluene	29325-04	<0.50	19.7	20.0	18.4	19.1	ug/L	EPA 8260B	10/29/02	93.6	95.3	1.85	70-130	25
Tert-Butanol	29325-04	<5.0	98.6	100	91.6	101	ug/L	EPA 8260B	10/29/02	92.9	101	8.06	70-130	25
Methyl-t-Butyl Ether	29325-04	<0.50	19.7	20.0	19.9	20.7	ug/L	EPA 8260B	10/29/02	101	103	2.37	70-130	25
Benzene	29350-01	<0.50	40.0	40.0	39.4	38.4	ug/L	EPA 8260B	10/28/02	98.6	95.9	2.70	70-130	25
Toluene	29350-01	<0.50	40.0	40.0	40.9	40.1	ug/L	EPA 8260B	10/28/02	102	100	2.07	70-130	25
Tert-Butanol	29350-01	<5.0	200	200	208	203	ug/L	EPA 8260B	10/28/02	104	102	2.04	70-130	25
Methyl-t-Butyl Ether	29350-01	<0.50	40.0	40.0	41.9	41.1	ug/L	EPA 8260B	10/28/02	105	103	1.90	70-130	25
Benzene	29396-01	<0.50	40.0	40.0	39.8	38.5	ug/L	EPA 8260B	10/29/02	99.5	96.2	3.37	70-130	25
Toluene	29396-01	<0.50	40.0	40.0	41.1	40.1	ug/L	EPA 8260B	10/29/02	103	100	2.44	70-130	25
Tert-Butanol	29396-01	<5.0	200	200	209	201	ug/L	EPA 8260B	10/29/02	104	101	3.84	70-130	25
Methyl-t-Butyl Ether	29396-01	32	40.0	40.0	66.0	63.6	ug/L	EPA 8260B	10/29/02	85.8	79.6	7.49	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 : 29 Wildwood Avenue,

Project Number : 021023-BA2

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	20.0	ug/L	EPA 8260B	10/29/02	97.6	70-130
Toluene	20.0	ug/L	EPA 8260B	10/29/02	96.7	70-130
Tert-Butanol	100	ug/L	EPA 8260B	10/29/02	93.2	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	10/29/02	96.0	70-130
Benzene	40.0	ug/L	EPA 8260B	10/28/02	95.6	70-130
Toluene	40.0	ug/L	EPA 8260B	10/28/02	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/28/02	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/28/02	100	70-130
Benzene	40.0	ug/L	EPA 8260B	10/28/02	95.3	70-130
Toluene	40.0	ug/L	EPA 8260B	10/28/02	98.1	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/28/02	98.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/28/02	101	70-130

KIFF ANALYTICAL, LLC

Approved By: 
Joel Kiff

LAB: KIFF

SHELL Chain Of Custody Record 29350

Lab identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be involved:

POLICE AGENCY
 STATE POLICE
 COUNTY POLICE

Karen Petryna

INCHES BY NUMBER (SAME DAILY)

9 8 9 8 5 8 2 2

INCHES BY COUNT NUMBER (SAME DAILY)

DATE: 10/23/02

PAGE: 1 of 1

SAMPLE COMPANY:
Blaine Tech Services
 ADDRESS:
 1688 Rogers Avenue, San Jose, CA 95112
 PROJECT Contact/Personality of POF Report by:
Leon Gearhart
 TELEPHONE: 408-573-8555 FAX: 408-573-7771 E-MAIL: lgearhart@blainetech.com
 TURNAROUND TIME (BUSINESS DAYS):
 30 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
 LA - AMQCB REPORT FORMAT UST AGENCY:
 GCMS INTRE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____
 SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF BOD IS NOT NEEDED

SITE ADDRESS (Street and City):
29 Wildwood Avenue, Piedmont
 ZIP CODE: **T0600101246**
 REF DELIVERABLE TO (Responsible Party/Department):
Anal Krest PHONE NO: **510-420-3335** EMAIL: ShellColumbEDF@cambridge.org
 SAMPLE NUMBER (PART):
BRIAN ALCORN

CONSULTANT PROJECT NO.:
021023-04

REQUESTED ANALYSIS

Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	STX	MTBE (METH - Spill RL)	MTHM (METH - 0.1ppm RL)	Propylenes (B) by (METH)	Benzene (METH)	Methanol	P, OCA (METH)	EDM (METH)	TPH - Diesel, Extractable (METH)	TEMPERATURE ON RECEIPT C°	FIELD NOTES:
MW-1	10/23	1710	W	3	X	X	X	X	X	X	X	X	X		-01	Continued Preservative or PID Readings or Laboratory Notes
MW-2		1820			X	X	X	X	X	X	X	X	X		-02	
MW-3		1900			X	X	X	X	X	X	X	X	X		-03	
MW-4		1600			X	X	X	X	X	X	X	X	X		-04	
MW-5		1600			X	X	X	X	X	X	X	X	X		-05	

Manufactured by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____
 Dispatched by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____
 Redispensed by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) John Costa / Kiff Analytical Date: 10/24/02 Time: 1104

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

09/18/00 Revision

PLATINE TECH SERVICES FAX: 1+408+573+1111
 Oct 25 2002 11:20 P.02
 021023-04 Sample Chain of Custody

LAB: KIFF

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 OGMT HOUSTON

Karen Petryna

29350

INCIDENT NUMBER (S/E ONLY)

9 8 9 9 5 8 2 2

SAP or CRMT NUMBER (TS/CRMT)

DATE: 10/23/02

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services		LOG CODE: BTSS	SITE ADDRESS (Street and City): 29 Wildwood Avenue, Piedmont		GLOBAL ID NO.: T0600101246
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Designer): Anni Krenl		PHONE NO.: 510-420-3335	E-MAIL: ShellOaklandEDF@cambria-env.com
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		SAMPLER NAME(S) (PRINT): BRIAN ALCORN		CONSULTANT PROJECT NO.: 021023-5M	
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com		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 EDO IS NOT NEEDED

REQUESTED ANALYSIS												FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8280B - 0.5ppb RL)	Oxygenates (S) by (8280B)	Ethanol (8280B)	Methanol	1,2-DCA (8280B)	EDB (8280B)	TPH - Diesel, Extractable (8015m)				TEMPERATURE ON RECEIPT °C
													-01
													-02
													-03
													-04
													-05

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8280B - 0.5ppb RL)	Oxygenates (S) by (8280B)	Ethanol (8280B)	Methanol	1,2-DCA (8280B)	EDB (8280B)	TPH - Diesel, Extractable (8015m)			TEMPERATURE ON RECEIPT °C	
		DATE	TIME																
	MW1	10/23	1710	W	3	X	X	X											-01
	MW2		1820			X	X	X											-02
	MW3		1800			X	X	X											-03
	MW4		1620			X	X	X											-04
	MW5		1650			X	X	X											-05

Relinquished by: (Signature) 	Received by: (Signature) 	Date: <u>102402</u>	Time: <u>1104</u>
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.

10/16/01 Revision

O&Q Graphic (714) 956-9702

SHELL WELL MONITORING DATA SHEET

BTS #: <u>021023-BA2</u>	Site: <u>29 WILDWOOD AVE, PIEDMONT</u>
Sampler: <u>BRIAN ALLORN</u>	Date: <u>10/23/02</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth (TD): <u>13.13</u>	Depth to Water (DTW): <u>3.68</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>5.57</u>	

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg <u>Electric Submersible</u>	Water: <u>Peristaltic</u> Extraction Pump Other: <u> </u>	Sampling Method: <u>(Bailer)</u> Disposable Bailer Extraction Port Dedicated Tubing Other: <u> </u>
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$\underline{6.1} \text{ (Gals.)} \times \underline{3} = \underline{18.3} \text{ Gals.}$ 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <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 <u>(µS)</u>)	Turbidity (NTUs)	Gals. Removed	Observations	
1700	67.2	6.9	750	73	6	clear w/ brown debris particles	
Dewatered						11	DTW 10.29
1710	66.0	6.7	780	73	—	80% Recharge DTW 5.57	

Did well dewater? (Yes) No Gallons actually evacuated: 11

Sampling Date: 10/23/02 Sampling Time: 1710 Depth to Water: 5.57

Sample I.D.: MW-1 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) 3.5 ^{mg/L}

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

STEEL WELL MONITORING DATA SHEET

BTS #: <u>021023-BA2</u>	Site: <u>29 WILDWOOD AVE, PIEDMONT</u>
Sampler: <u>BRIAN ALLEN</u>	Date: <u>10/23/02</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>11.99</u>	Depth to Water (DTW): <u>3.87</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>5.49</u>	

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

Other: _____

$\frac{5.3 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{15.9}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <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 <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>Dewatered</u>					<u>4</u>	
<u>1820</u>	<u>68.2</u>	<u>6.4</u>	<u>1625</u>	<u>483</u>	—	<u>DTW 9.71</u> <u>dark gray/sheen/strong odor</u> <u>DTW 6.53</u>

Did well dewater? Yes No Gallons actually evacuated: 4

Sampling Date: 10/23/02 Sampling Time: 1820 Depth to Water: @ departure 6.53

Sample I.D.: MW-2 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

SHELL WELL MONITORING DATA SHEET

BTS #: <u>021023-BA2</u>	Site: <u>29 WILLOWOOD AVE, PIEDMONT</u>
Sampler: <u>BRIAN ALLEN</u>	Date: <u>10/23/02</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>9.01</u>	Depth to Water (DTW): <u>4.36</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>5.29</u>	

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible	Water: <u>Peristaltic</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$3.0 \text{ (Gals.)} \times 3 = 9.0 \text{ Gals.}$	Well Diameter Multiplier 1" 0.04 2" 0.16 3" 0.37	Well Diameter Multiplier 4" 0.65 6" 1.47 Other radius ² * 0.163
I Case Volume Specified Volumes Calculated Volume		

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1745	69.9	7.0	1026	86	3	clear w/ debris particles - gray
1755	69.4	7.0	1026	485	6	cloudy gray w/ particles DTW 6.82
<u>Dewatered</u>						
1800	67.7	7.3	1031	158	—	DTW 5.29

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Date: 10/23/02 Sampling Time: 1800 Depth to Water: 5.29

Sample I.D.: MW-3 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:	me/L	Post-purge: <u>1.6</u>	me/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

