



**Shell Oil Products US**

April 28, 2003

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

Alameda County  
MAY 02 2003  
Environmental Health

**Subject: Shell-branded Service Station**  
4226 First Street  
Pleasanton, California

Dear Mr. Seery:

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

April 28, 2003

Scott Seery  
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  
4226 First Street  
Pleasanton, California  
Incident #98995840  
Cambria Project #245-0523-002



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.

#### **FIRST QUARTER 2003 ACTIVITIES**

**Groundwater Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a site 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.

#### **ANTICIPATED SECOND QUARTER 2003 ACTIVITIES**

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

**Cambria  
Environmental  
Technology, Inc.**

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

**CLOSING**

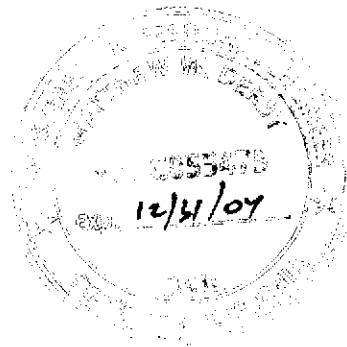
We appreciate the opportunity to work with you on this project. Please call Matt Derby at (510) 420-3332 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**



*Anni Kreml*  
Anni Kreml  
Senior Staff Scientist

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



Figures: 1 - Vicinity 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  
Douglas E & Mary M Safreno, 1627 Vineyard Avenue, Pleasanton, CA 94566-6389

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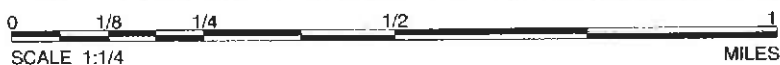
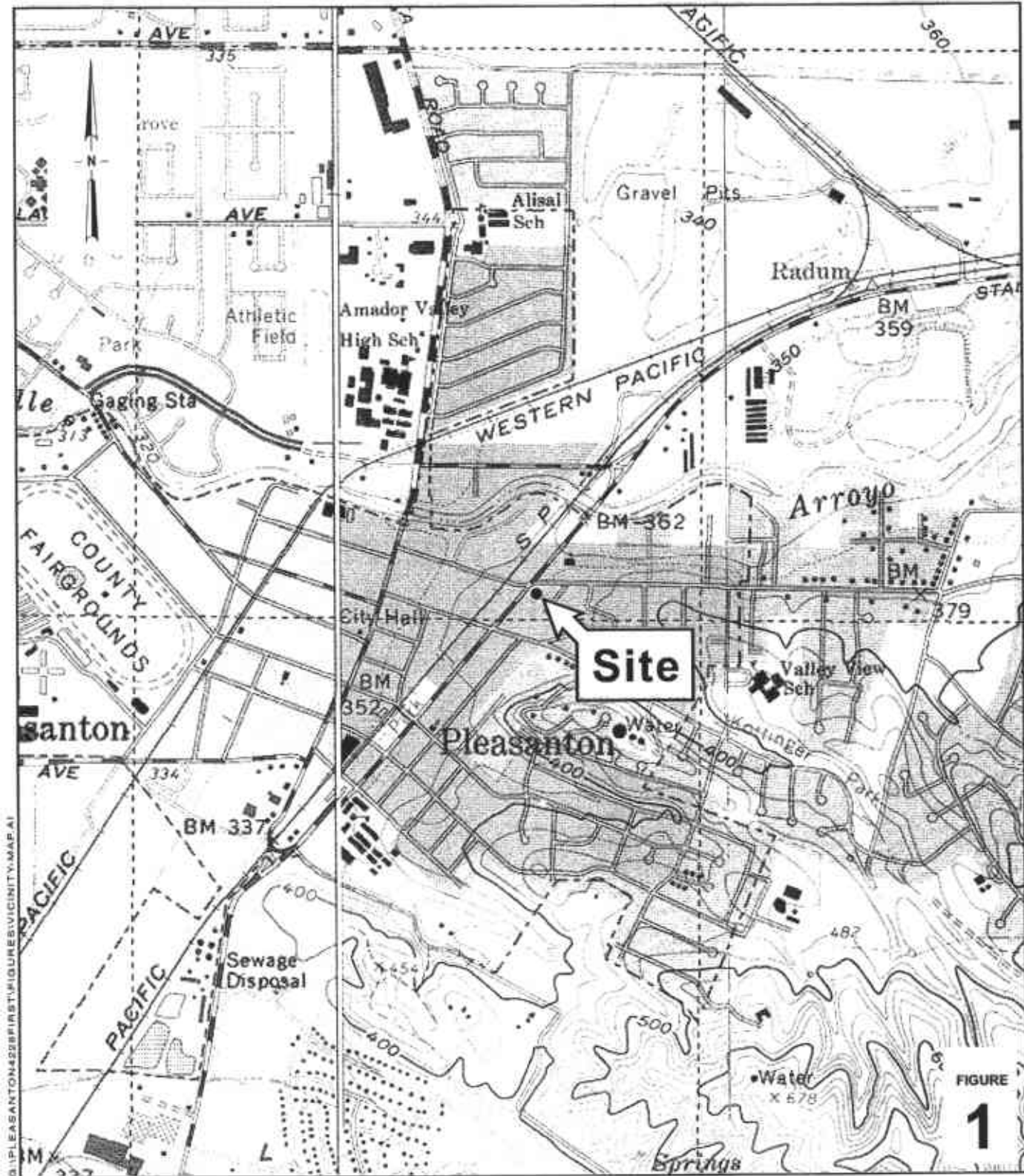


FIGURE 1

**Shell-branded Service Station**  
 4226 First Street  
 Pleasanton, California  
 Incident #98995840



C A M B R I A

**Vicinity Map**

### EXPLANATION

- MW-1 Monitoring well location
- S-1 Destroyed well
- TB-1 Observation well location
- SB-1 Soil boring location
- Former tank pit
- NA Not available
- Groundwater flow direction
- Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
- Well designation
- Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.

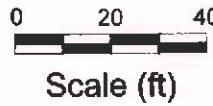
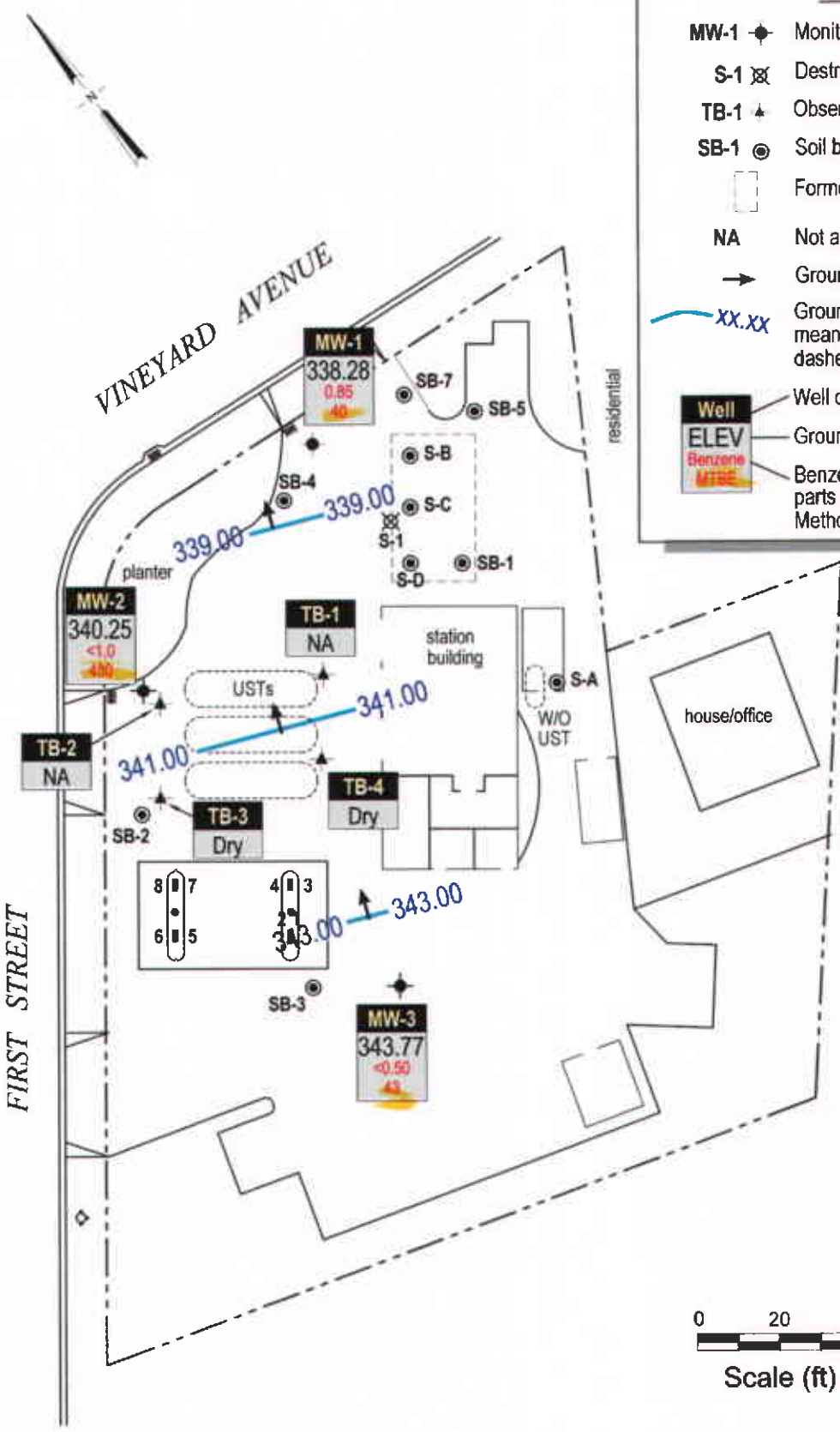


FIGURE  
**2**

**Shell-branded Service Station**  
 4226 First Street  
 Pleasanton, California  
 Incident #98995840



C A M B R I A

**Groundwater Elevation  
 Contour Map**

February 12, 2003

D:\PLEASANTON\G02\REPORTS\FIGURES\FIG2.MXD 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 19, 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  
4226 First Street  
Pleasanton, CA

Monitoring performed on February 12 and 28, 2003

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Groundwater Monitoring Report **030212-AC-3**

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

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

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

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

Please call if you have any questions.

Yours truly,

Leon Gearhart  
Project Coordinator

LG/jt

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

cc: Anni Kreml  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Oakland, CA 94608



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, 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)
MW-2	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	260	372.40	32.63	339.77
MW-2	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	280	372.40	32.80	339.60
MW-2	11/14/2002	120	13	9.0	3.8	14	NA	430	372.40	33.31	339.09
<b>MW-2</b>	<b>02/12/2003</b>	<b>&lt;100</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>NA</b>	<b>430</b>	<b>372.40</b>	<b>32.15</b>	<b>340.25</b>
MW-3	02/03/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.06	342.99
MW-3	02/07/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.57	342.48
MW-3	02/10/2000	180	5.12	<0.500	<0.500	0.714	26.8	21.5a	375.05	32.77	342.28
MW-3	05/17/2000	1,360	414	<5.00	<5.00	17.6	<25.0	NA	375.05	31.00	344.05
MW-3	08/03/2000	<50.0	0.536	<0.500	<0.500	<0.500	22.0	NA	375.05	31.03	344.02
MW-3	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	31.1	NA	375.05	31.28	343.77
MW-3	03/01/2001	384	172	0.815	<0.500	8.00	5.16	NA	375.05	31.21	343.84
MW-3	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	110	375.05	31.02	344.03
MW-3	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	93	375.05	30.94	344.11
MW-3	12/06/2001	110	<0.50	<0.50	<0.50	2.3	NA	180	375.05	31.28	343.77
MW-3	02/05/2002	<50	0.89	0.60	<0.50	2.1	NA	130	375.05	31.12	343.93
MW-3	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	72	375.05	31.21	343.84
MW-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	81	375.05	30.96	344.09
MW-3	11/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	60	375.05	31.44	343.61
<b>MW-3</b>	<b>02/12/2003</b>	<b>&lt;50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>NA</b>	<b>43</b>	<b>375.05</b>	<b>31.28</b>	<b>343.77</b>
TB-1	02/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA
TB-1	02/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	12.54	NA
TB-2	02/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA
TB-2	02/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	12.56	NA
TB-3	02/12/2003	Well dry		NA	NA	NA	NA	NA	NA	NA	NA
TB-3	02/28/2003	Well dry		NA	NA	NA	NA	NA	NA	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, 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)
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MW-1	06/16/1999	NA	NA	NA	NA	NA	NA	NA	371.20	37.81	333.39
MW-1	06/30/1999	89.0	5.89	<0.500	<0.500	0.652	<5.00	NA	371.20	33.65	337.55
MW-1	09/24/1999	1,560	473	<10.0	<10.0	22.8	<2.50	NA	371.20	37.04	334.16
MW-1	12/08/1999	1,020	375	<5.00	<5.00	15.2	<50.0	NA	371.20	36.79	334.41
MW-1	02/10/2000	523	106	<5.00	<5.00	31.8	2.90	NA	371.20	34.90	336.30
MW-1	05/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	37.0	29.5	371.20	32.55	338.65
MW-1	08/03/2000	808	290	<2.50	<2.50	8.90	<12.5	NA	371.20	39.13	332.07
MW-1	10/31/2000	507	250	0.962	<0.500	23.5	3.76	NA	371.20	37.91	333.29
MW-1	03/01/2001	<50.0	<0.500	<0.500	<0.500	<0.500	74.6	NA	371.20	39.60	331.60
MW-1	05/30/2001	780	280	<2.0	<2.0	11	NA	<2.0	371.20	39.53	331.67
MW-1	08/02/2001	1,900	580	<2.5	<2.5	12	NA	<25	371.20	39.61	331.59
MW-1	12/06/2001	840	190	<0.50	<0.50	13	NA	<5.0	371.20	39.63	331.57
MW-1	02/05/2002	2,700	650	<2.5	<2.5	7.2	NA	<25	371.20	35.53	335.67
MW-1	06/17/2002	2,500	550	<2.0	<2.0	5.9	NA	<20	371.20	39.29	331.91
MW-1	07/25/2002	690	130	<0.50	<0.50	4.4	NA	18	371.20	39.39	331.81
MW-1	11/14/2002	400	31	<0.50	<0.50	2.7	NA	27	371.20	40.00	331.20
<b>MW-1</b>	<b>02/12/2003</b>	<b>840</b>	<b>0.85</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>NA</b>	<b>40</b>	<b>371.20</b>	<b>32.92</b>	<b>338.28</b>

MW-2	02/03/2000	NA	NA	NA	NA	NA	NA	NA	372.40	32.65	339.75
MW-2	02/07/2000	NA	NA	NA	NA	NA	NA	NA	372.40	35.51	336.89
MW-2	02/10/2000	<50.0	<0.500	<0.500	<0.500	<0.500	2.61	NA	372.40	36.62	335.78
MW-2	05/17/2000	120	4.09	<0.500	<0.500	<0.500	29.0	NA	372.40	32.14	340.26
MW-2	08/03/2000	<50.0	0.692	<0.500	<0.500	<0.500	40.5	36.6b	372.40	32.42	339.98
MW-2	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	57.4	44.8c	372.40	33.02	339.38
MW-2	03/01/2001	173	1.64	1.65	2.86	3.97	127	167	372.40	32.54	339.86
MW-2	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	32.42	339.98
MW-2	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	160	372.40	32.55	339.85
MW-2	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	33.15	339.25
MW-2	02/05/2002	<50	0.72	<0.50	<0.50	1.7	NA	170	372.40	32.29	340.11

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, 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)
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TB-4	02/12/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	02/28/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Abbreviations:**

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

**Notes:**

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

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

c = The result reported was generated out of time. The sample was originally run within hold time, but needed to be re-analyzed.

Well MW-1 surveyed on May 4, 1999, by Virgil Chavez Land Surveying of Vallejo, California.

Site surveyed on March 19, 2000, by Virgil Chavez Land Surveying of Vallejo, California.

Site surveyed on January 15, 2002, by Virgil Chavez Land Surveying of Vallejo, California.



Report Number : 31498

Date : 2/21/03

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

Subject : 3 Water Samples  
Project Name : 4226 First Street, Pleasanton  
Project Number : 030212-AC3  
P.O. Number : 98995840

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, looping initial "J".

Joel Kiff



Report Number : 31498

Date : 2/21/03

Subject : 3 Water Samples  
Project Name : 4226 First Street, Pleasanton  
Project Number : 030212-AC3  
P.O. Number : 98995840

## Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample MW-2 for the analyte Methyl-t-butyl ether were affected by the analyte concentration already present in the un-spiked sample.

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



Report Number : 31498

Date : 2/21/03

Project Name : 4226 First Street, Pleasanton

Project Number : 030212-AC3

Sample : MW-1

Matrix : Water

Lab Number : 31498-01

Sample Date :2/12/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.85	0.50	ug/L	EPA 8260B	2/14/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Methyl-t-butyl ether (MTBE)	40	5.0	ug/L	EPA 8260B	2/14/03
TPH as Gasoline	840	50	ug/L	EPA 8260B	2/14/03
Toluene - d8 (Surr)	94.7		% Recovery	EPA 8260B	2/14/03
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	2/14/03

Sample : MW-2

Matrix : Water

Lab Number : 31498-02

Sample Date :2/12/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 1.0	1.0	ug/L	EPA 8260B	2/15/03
Toluene	< 1.0	1.0	ug/L	EPA 8260B	2/15/03
Ethylbenzene	< 1.0	1.0	ug/L	EPA 8260B	2/15/03
Total Xylenes	< 1.0	1.0	ug/L	EPA 8260B	2/15/03
Methyl-t-butyl ether (MTBE)	430	10	ug/L	EPA 8260B	2/15/03
TPH as Gasoline	< 100	100	ug/L	EPA 8260B	2/15/03
Toluene - d8 (Surr)	92.1		% Recovery	EPA 8260B	2/15/03
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	2/15/03

Approved By:  Joel Kiff



Report Number : 31498

Date : 2/21/03

Project Name : 4226 First Street, Pleasanton

Project Number : 030212-AC3

Sample : MW-3

Matrix : Water

Lab Number : 31498-03

Sample Date :2/12/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Methyl-t-butyl ether (MTBE)	43	5.0	ug/L	EPA 8260B	2/14/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/14/03
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	2/14/03
4-Bromofluorobenzene (Surr)	92.4		% Recovery	EPA 8260B	2/14/03

Approved By:  Joel Kiff

Report Number : 31498

Date : 2/21/03

**QC Report : Method Blank Data**

Project Name : **4226 First Street, Pleasanton**

Project Number : **030212-AC3**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/15/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/15/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/15/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/15/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/15/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/15/03
Toluene - d8 (Surr)	91.3		%	EPA 8260B	2/15/03
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	2/15/03
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/14/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/14/03
Toluene - d8 (Surr)	101		%	EPA 8260B	2/14/03
4-Bromofluorobenzene (Surr)	99.5		%	EPA 8260B	2/14/03
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/14/03
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	2/14/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/14/03
Toluene - d8 (Surr)	97.3		%	EPA 8260B	2/14/03
4-Bromofluorobenzene (Surr)	95.1		%	EPA 8260B	2/14/03

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 : 4226 First Street,

Project Number : 030212-AC3

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	31498-02	<0.50	50.0	50.1	49.0	50.4	ug/L	EPA 8260B	2/15/03	98.0	100	2.47	70-130	25
Toluene	31498-02	<0.50	50.0	50.1	43.0	43.8	ug/L	EPA 8260B	2/15/03	86.0	87.4	1.70	70-130	25
Tert-Butanol	31498-02	7.2	250	251	236	239	ug/L	EPA 8260B	2/15/03	91.7	92.4	0.725	70-130	25
Methyl-t-Butyl Ether	31498-02	430	50.0	50.1	480	469	ug/L	EPA 8260B	2/15/03	91.0	69.3	27.1	70-130	25
Benzene	31480-01	<0.50	40.0	40.0	39.2	39.2	ug/L	EPA 8260B	2/14/03	98.0	97.9	0.179	70-130	25
Toluene	31480-01	<0.50	40.0	40.0	38.9	38.6	ug/L	EPA 8260B	2/14/03	97.3	96.4	0.877	70-130	25
Tert-Butanol	31480-01	<5.0	200	200	187	186	ug/L	EPA 8260B	2/14/03	93.4	93.0	0.450	70-130	25
Methyl-t-Butyl Ether	31480-01	<0.50	40.0	40.0	40.4	40.4	ug/L	EPA 8260B	2/14/03	101	101	0.0247	70-130	25
Benzene	31498-01	0.85	40.0	40.0	37.7	38.3	ug/L	EPA 8260B	2/14/03	92.0	93.6	1.62	70-130	25
Toluene	31498-01	<0.50	40.0	40.0	35.8	34.9	ug/L	EPA 8260B	2/14/03	89.6	87.2	2.80	70-130	25
Tert-Butanol	31498-01	34	200	200	228	228	ug/L	EPA 8260B	2/14/03	96.8	96.6	0.114	70-130	25
Methyl-t-Butyl Ether	31498-01	40	40.0	40.0	79.9	81.1	ug/L	EPA 8260B	2/14/03	99.2	102	3.10	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff



## QC Report : Laboratory Control Sample (LCS)

Project Name : 4226 First Street,

Project Number : 030212-AC3

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	2/15/03	98.5	70-130
Toluene	40.0	ug/L	EPA 8260B	2/15/03	85.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/15/03	94.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/15/03	103	70-130
Benzene	40.0	ug/L	EPA 8260B	2/14/03	103	70-130
Toluene	40.0	ug/L	EPA 8260B	2/14/03	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/14/03	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/14/03	106	70-130
Benzene	40.0	ug/L	EPA 8260B	2/14/03	95.2	70-130
Toluene	40.0	ug/L	EPA 8260B	2/14/03	93.9	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/14/03	97.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/14/03	95.8	70-130

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff

**SHIELD Chain of Custody Record**

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

Karen Petryna

31498

SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 8 4 0

SAP or CRMT NUMBER (FS/CRMT)

DATE: 2-12-03

PAGE: 1 of 1

SAMPLING COMPANY: <b>Blaine Tech Services</b>		LOG CODE: <b>BTSS</b>	SITE ADDRESS (Street and City): <b>4226 First Street, Pleasanton</b>		GLOBAL ID NO.: <b>T0600101259</b>
ADDRESS: <b>1680 Rogers Avenue, San Jose, CA 95112</b>			EOF 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>Aaron Costa</b>		CONSULTANT PROJECT NO.: <b>BTS # 03027-AC3</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**

TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)

**FIELD NOTES:**  
 Container/Preservative  
 or PID Readings  
 or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	TEMPERATURE ON RECEIPT °C
		DATE	TIME													
	MW-1	2/12	1710	GND	3	X	X	X								101
	MW-2	2/12	1645		3	X	X	X								02
	MW-3	2/12	1620	∇	3	X	X	X								03

Relinquished by: (Signature) <i>Aaron Costa</i>	Received by: (Signature) _____	Date: _____	Time: _____
Relinquished by: (Signature) _____	Received by: (Signature) _____	Date: _____	Time: _____
Relinquished by: (Signature) _____	Received by: (Signature) <i>John Curcio / Kiff Anagnost</i>	Date: <b>02/30/03</b>	Time: <b>1106</b>

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

10/16/00 Revision

Q&G Graphic (714) 898-9702



## WELL GAUGING DATA

Project # 030212-AC3 Date 2-12-03 Client Shell

Site 4226 First St. Pleasanton

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 <del>TOB</del>	<u>CTD</u>
MW-1	2					32.92	56.75		1
MW-2	4					32.15	45.61		2
MW-3	4					31.28	34.71		3
TB-1	could not open well (couldn't get wrench in to loosen bolts)								
TB-2	could not open well (see above 4)								
TB-3	4					DRY	13.25		
TB-4	12					DRY	—		✓

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>030212-ACS</u>	Site: <u>4226 First St. Pleasanton</u>
Sampler: <u>AC</u>	Date: <u>2-12-03</u>
Well I.D.: <u>mw-1</u>	Well Diameter: <u>②</u> 3 4 6 8
Total Well Depth (TD): <u>56.75</u>	Depth to Water (DTW): <u>32.92</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>37.68</u>	

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

$3.8 \text{ (Gals.)} \times 3 = 11.4 \text{ Gals.}$ I 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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
1655	65.7	6.6	1721	28	4	clear, odor
1700	66.1	6.8	1689	44	8	clear, odor
1704	66.3	7.0	1521	19	12	clear, odor

Did well dewater? Yes  No  Gallons actually evacuated: 12

Sampling Date: 2-12-03 Sampling Time: 1710 Depth to Water: 36.51

Sample I.D.: mw-1 Laboratory: Kitt 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



