

# C A M B R I A

MAY 22 2001

May 17, 2001

eva chu  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, California 94502

Re: **First Quarter 2001 Monitoring and Remediation Report**  
Former Shell Service Station  
8930 Bancroft Avenue  
Oakland, California  
Incident #98995742  
Cambria Project #243-1408-002



Dear Ms. chu:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

## FIRST QUARTER 2001 ACTIVITIES

**Remediation Summary:** Weekly groundwater extraction was performed on well MW-4 during March through May 2000. Approximately 1,075 gallons of water were extracted from the well, and an estimated 0.1 pounds of MTBE were removed.

**Groundwater Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled all site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a groundwater elevation contour map (Figure 1). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Oakland, CA  
San Ramon, CA  
Sonoma, CA

## ANTICIPATED SECOND QUARTER 2001 ACTIVITIES

**Cambria  
Environmental  
Technology, Inc.**

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

**Site Investigation:** Cambria performed offsite investigation associated with the site on April 4, 2001. Cambria will submit an investigation report within 60 days of the field work.


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


**CLOSING**

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

Sincerely,  
**Cambria Environmental Technology, Inc**



  
Jacquelyn Jones  
Project Geologist

  
Stephan A. Bork, C.E.G., C.HG.  
Associate Hydrogeologist

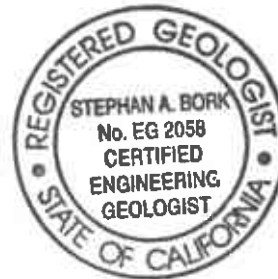
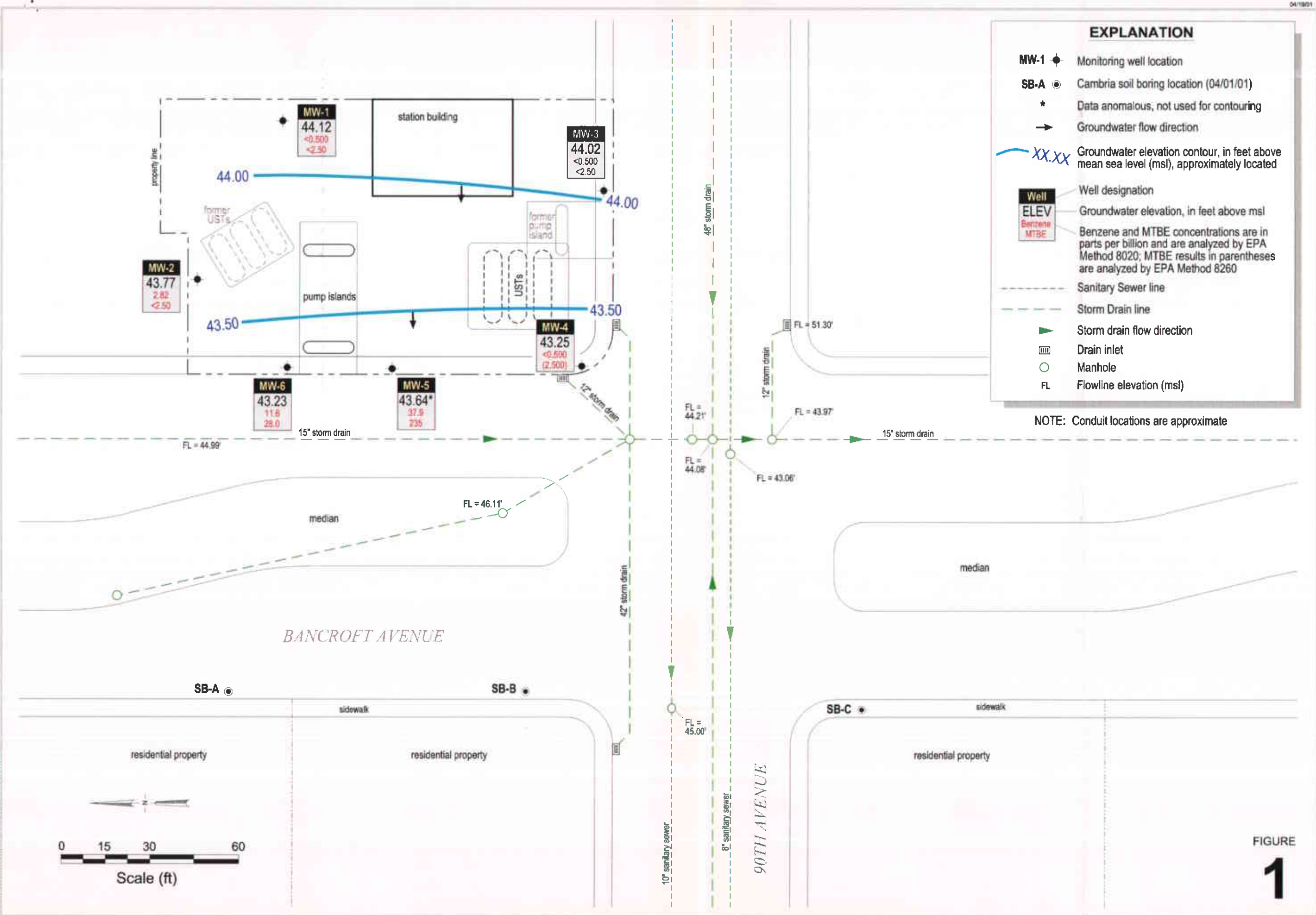


Figure: 1 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869  
Leroy Griffin, City of Oakland Fire Department, 505 14<sup>th</sup> Street, Suite 702, Oakland, CA 94612  
Sidhu Associates, 8930 Bancroft Ave., Oakland, CA 94605

g:\oakland8930bancroft\qm1q01qm.doc



**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

April 3, 2001

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

First Quarter 2001 Groundwater Monitoring at  
Shell-branded Service Station  
8930 Bancroft Avenue  
Oakland, CA

Monitoring performed on March 9, 2001

---

**Groundwater Monitoring Report 010309-F-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. Purge water (if applicable) is, likewise, collected and transported to the Shell Martinez Manufacturing Complex.

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. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Deidre Kerwin", with a long horizontal flourish extending to the right.

Deidre Kerwin  
Operations Manager

DK/jt

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

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

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

Well ID	Date	TPPH (ug/L)	TEPH (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-1	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	53.19	11.87	41.32
MW-1	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	8.21	44.98
MW-1	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	15.04	38.15
MW-1	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	16.02	37.17
MW-1	12/23/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	14.78	38.41
MW-1	03/22/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	8.44	44.75
MW-1	06/01/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	13.71	39.48
MW-1	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	14.95	38.24
MW-1	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.82	NA	53.19	13.85	39.34
MW-1	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	9.07	44.12

MW-2	12/17/1998	9,900	NA	<5.0	37	22	47	48	<20	52.66	11.65	41.01
MW-2	03/09/1999	2,760	NA	12.3	7.50	85.4	444	<50.0	NA	52.66	8.07	44.59
MW-2	06/16/1999	2,570	NA	36.3	11.6	6.19	10.8	<50.0	NA	52.66	14.63	38.03
MW-2	09/30/1999	1,960	NA	19.1	3.20	4.55	26.9	<25.0	NA	52.66	15.63	37.03
MW-2	12/23/1999	145	NA	1.30	<0.500	<0.500	0.899	<2.50	NA	52.66	14.42	38.24
MW-2	03/22/2000	6,060	NA	18.9	<10.0	210	651	<100	NA	52.66	8.19	44.47
MW-2	06/01/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	52.66	11.46	41.20
MW-2	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	52.66	14.63	38.03
MW-2	12/04/2000	201	NA	1.35	<0.500	3.39	8.58	<2.50	NA	52.66	13.45	39.21
MW-2	03/09/2001	396	NA	2.82	<0.500	8.69	18.7	<2.50	NA	52.66	8.89	43.77

MW-3	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	10	11	51.30	11.85	39.45
MW-3	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	6.53	44.77
MW-3	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	12.71	38.59
MW-3	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.14	NA	51.30	14.07	37.23

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

Well ID	Date	TPPH (ug/L)	TEPH (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-3	12/23/1999	<500	NA	<5.00	<5.00	<5.00	<5.00	<25.0	NA	51.30	12.82	38.48
MW-3	03/22/2000	<50.0	NA	<0.500	1.48	<0.500	1.90	<5.00	NA	51.30	6.81	44.49
MW-3	06/01/2000	<50.0	NA	<0.500	0.821	<0.500	<0.500	4.39	NA	51.30	11.85	39.45
MW-3	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	3.62	NA	51.30	12.55	38.75
MW-3	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	0.588	4.74	NA	51.30	11.65	39.65
<b>MW-3</b>	<b>03/09/2001</b>	<b>&lt;50.0</b>	<b>NA</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;2.50</b>	<b>NA</b>	<b>51.30</b>	<b>7.28</b>	<b>44.02</b>

MW-4	12/17/1998	700	NA	4.3	0.88	<0.50	<0.50	21,000	26,000	50.73	10.80	39.93
MW-4	03/09/1999	83.9	NA	<0.500	<0.500	<0.500	<0.500	17,900	23,700	50.73	6.91	43.82
MW-4	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	10,600	19,200	50.73	12.84	37.89
MW-4	09/30/1999	51.2	NA	<0.500	<0.500	<0.500	<0.500	12,200	12,300	50.73	13.74	36.99
MW-4	12/23/1999	<100	NA	<1.00	<1.00	<1.00	<1.00	7,990	8,400	50.73	12.40	38.33
MW-4	03/22/2000	<500	NA	<5.00	<5.00	<5.00	<5.00	4,970	5,020	50.73	7.32	43.41
MW-4	06/01/2000	<100	NA	<1.00	<1.00	<1.00	<1.00	5,260	3,580	50.73	11.50	39.23
MW-4	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	3,610	3,300a	50.73	12.55	38.18
MW-4	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	2,960	3,520a	50.73	11.77	38.96
<b>MW-4</b>	<b>03/09/2001</b>	<b>&lt;50.0</b>	<b>NA</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>1,930</b>	<b>2,500</b>	<b>50.73</b>	<b>7.48</b>	<b>43.25</b>

MW-5	12/17/1998	750	NA	<0.50	17	1.8	3.5	33	32	51.43	11.51	39.92
MW-5	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.43	7.15	44.28
MW-5	06/16/1999	646	NA	9.26	1.05	<1.00	<1.00	<10.0	NA	51.43	13.47	37.96
MW-5	09/30/1999	484	NA	1.93	0.511	<0.500	<0.500	159	NA	51.43	14.41	37.02
MW-5	12/23/1999	944	NA	4.59	17.7	3.79	16.7	214	NA	51.43	14.07	37.36
MW-5	03/22/2000	8,770	NA	197	96.5	<50.0	188	2,450	NA	51.43	7.31	44.12
MW-5	06/01/2000	227	NA	0.565	<0.500	<0.500	<0.500	35.9	NA	51.43	12.15	39.28
MW-5	09/08/2000	159	NA	0.606	<0.500	<0.500	1.74	1,000	NA	51.43	13.30	38.13
MW-5	12/04/2000	1,510	NA	19.2	<10.0	<10.0	134	1,360	NA	51.43	12.19	39.24



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

Well ID	Date	TPPH (ug/L)	TEPH (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)
<b>MW-5</b>	<b>03/09/2001</b>	<b>3,460</b>	<b>NA</b>	<b>37.9</b>	<b>121</b>	<b>40.6</b>	<b>208</b>	<b>235</b>	<b>NA</b>	<b>51.43</b>	<b>7.79</b>	<b>43.64</b>
MW-6	12/17/1998	940	NA	27	0.32	2.4	2.3	3.0	3.2	51.88	11.37	40.51
MW-6	03/09/1999	336	NA	7.78	1.60	2.40	6.36	<10.0	NA	51.88	8.10	43.78
MW-6	06/16/1999	308	NA	2.45	<0.500	<0.500	<0.500	7.39	NA	51.88	14.49	37.39
MW-6	09/30/1999	80.2	NA	<0.500	<0.500	<0.500	<0.500	24.8	NA	51.88	15.30	36.58
MW-6	12/23/1999	149	NA	0.518	<0.500	<0.500	<0.500	6.43	NA	51.88	13.19	38.69
MW-6	03/22/2000	382	NA	3.31	2.18	0.619	2.35	5.61	NA	51.88	8.27	43.61
MW-6	06/01/2000	158	NA	0.830	<0.500	<0.500	1.10	10.9	NA	51.88	11.13	40.75
MW-6	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	51.88	14.28	37.60
MW-6	12/04/2000	231	NA	4.93	<0.500	<0.500	<0.500	4.57	NA	51.88	12.62	39.26
<b>MW-6</b>	<b>03/09/2001</b>	<b>789</b>	<b>NA</b>	<b>11.6</b>	<b>2.72</b>	<b>&lt;2.00</b>	<b>&lt;2.00</b>	<b>28.0</b>	<b>NA</b>	<b>51.88</b>	<b>8.65</b>	<b>43.23</b>

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl ether by EPA Method 8020

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

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**8930 Bancroft Avenue**  
**Oakland, CA**  
**Wic #204-5508-1305**

Well ID	Date	TPPH (ug/L)	TEPH (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)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------

Notes:

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



# Sequoia Analytical

885 Jarvis Drive  
Morgan Hill, CA 95037  
(408) 776-9600  
FAX (408) 782-6308  
www.sequoialabs.com

27 March, 2001

Nick Sudano  
Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose, CA 95112

RE: 8930 Bancroft Ave.  
Sequoia Report: MKC0290

Enclosed are the results of analyses for samples received by the laboratory on 03/12/01 12:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Smyly  
Project Manager

CA ELAP Certificate #1210





Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose CA, 95112

Project: 8930 Bancroft Ave.  
Project Number: 8930 Bancroft Ave.  
Project Manager: Nick Sudano

**Reported:**  
03/27/01 11:20

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MKC0290-01	Water	03/09/01 11:28	03/12/01 12:02
MW-2	MKC0290-02	Water	03/09/01 11:59	03/12/01 12:02
MW-3	MKC0290-03	Water	03/09/01 10:55	03/12/01 12:02
MW-4	MKC0290-04	Water	03/09/01 11:12	03/12/01 12:02
MW-5	MKC0290-05	Water	03/09/01 12:11	03/12/01 12:02
MW-6	MKC0290-06	Water	03/09/01 11:44	03/12/01 12:02





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 8930 Bancroft Ave. Project Number: 8930 Bancroft Ave. Project Manager: Nick Sudano	<b>Reported:</b> 03/27/01 11:20
--	---	------------------------------------

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (MKC0290-01) Water</b> Sampled: 03/09/01 11:28 Received: 03/12/01 12:02									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1C15003	03/15/01	03/15/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.9 %	70-130		"	"	"	"	
<b>MW-2 (MKC0290-02) Water</b> Sampled: 03/09/01 11:59 Received: 03/12/01 12:02									
Purgeable Hydrocarbons	396	50.0	ug/l	1	1C14002	03/14/01	03/14/01	DHS LUFT	P-03
Benzene	2.82	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	8.69	0.500	"	"	"	"	"	"	
Xylenes (total)	18.7	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		125 %	70-130		"	"	"	"	
<b>MW-3 (MKC0290-03) Water</b> Sampled: 03/09/01 10:55 Received: 03/12/01 12:02									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1C15003	03/15/01	03/15/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.6 %	70-130		"	"	"	"	





Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose CA, 95112

Project: 8930 Bancroft Ave.  
Project Number: 8930 Bancroft Ave.  
Project Manager: Nick Sudano

**Reported:**  
03/27/01 11:20

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-4 (MKC0290-04) Water</b> Sampled: 03/09/01 11:12 Received: 03/12/01 12:02									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1C14002	03/14/01	03/14/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	1930	250	"	100	"	"	03/15/01	"	M-03
Surrogate: a,a,a-Trifluorotoluene		89.8 %		70-130	"	"	03/14/01	"	
<b>MW-5 (MKC0290-05) Water</b> Sampled: 03/09/01 12:11 Received: 03/12/01 12:02									
Purgeable Hydrocarbons	3460	500	ug/l	10	1C15003	03/15/01	03/15/01	DHS LUFT	P-01
Benzene	37.9	5.00	"	"	"	"	"	"	
Toluene	121	5.00	"	"	"	"	"	"	
Ethylbenzene	40.6	5.00	"	"	"	"	"	"	
Xylenes (total)	208	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	235	25.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.3 %		70-130	"	"	"	"	
<b>MW-6 (MKC0290-06) Water</b> Sampled: 03/09/01 11:44 Received: 03/12/01 12:02									
Purgeable Hydrocarbons	789	200	ug/l	4	1C15003	03/15/01	03/15/01	DHS LUFT	P-03
Benzene	11.6	2.00	"	"	"	"	"	"	
Toluene	2.72	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
Xylenes (total)	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	28.0	10.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.0 %		70-130	"	"	"	"	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 8930 Bancroft Ave. Project Number: 8930 Bancroft Ave. Project Manager: Nick Sudano	<b>Reported:</b> 03/27/01 11:20
--	---	------------------------------------

**MTBE by EPA Method 8260A  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-4 (MKC0290-04) Water</b> <b>Sampled: 03/09/01 11:12</b> <b>Received: 03/12/01 12:02</b>									
Methyl tert-butyl ether	2500	100	ug/l	100	1C26015	03/23/01	03/23/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		88.6 %		70-130	"	"	"	"	





Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose CA, 95112

Project: 8930 Bancroft Ave.  
Project Number: 8930 Bancroft Ave.  
Project Manager: Nick Sudano

**Reported:**  
03/27/01 11:20

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

### Batch 1C14002 - EPA 5030B [P/T]

#### Blank (1C14002-BLK1)

Prepared & Analyzed: 03/14/01

Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.5		"	10.0		105	70-130			

#### LCS (1C14002-BS1)

Prepared & Analyzed: 03/14/01

Purgeable Hydrocarbons	246	50.0	ug/l	250		98.4	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.2		"	10.0		112	70-130			

#### Matrix Spike (1C14002-MS1)

Source: MKC0285-04

Prepared & Analyzed: 03/14/01

Purgeable Hydrocarbons	222	50.0	ug/l	250	ND	88.8	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.5		"	10.0		115	70-130			

#### Matrix Spike Dup (1C14002-MSD1)

Source: MKC0285-04

Prepared & Analyzed: 03/14/01

Purgeable Hydrocarbons	212	50.0	ug/l	250	ND	84.8	60-140	4.61	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.9		"	10.0		109	70-130			

### Batch 1C15003 - EPA 5030B [P/T]

#### Blank (1C15003-BLK1)

Prepared & Analyzed: 03/15/01

Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.09		"	10.0		90.9	70-130			







Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 8930 Bancroft Ave. Project Number: 8930 Bancroft Ave. Project Manager: Nick Sudano	Reported: 03/27/01 11:20
--	---	-----------------------------

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------	-----	-----------	-------

**Batch 1C15003 - EPA 5030B [P/T]**

				Prepared & Analyzed: 03/15/01						
<b>LCS (1C15003-BS1)</b>										
Purgeable Hydrocarbons	247	50.0	ug/l	250	ND	98.8	70-130			
Surrogate: a,a,a-Trifluorotoluene	14.0		"	10.0	ND	140	70-130			S-02
<b>Matrix Spike (1C15003-MS1)</b>				Source: MKC0292-03 Prepared & Analyzed: 03/15/01						
Purgeable Hydrocarbons	276	50.0	ug/l	250	ND	110	60-140			
Surrogate: a,a,a-Trifluorotoluene	12.5		"	10.0	ND	125	70-130			
<b>Matrix Spike Dup (1C15003-MSD1)</b>				Source: MKC0292-03 Prepared & Analyzed: 03/15/01						
Purgeable Hydrocarbons	220	50.0	ug/l	250	ND	88.0	60-140	22.6	25	
Surrogate: a,a,a-Trifluorotoluene	11.1		"	10.0	ND	111	70-130			





Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose CA, 95112

Project: 8930 Bancroft Ave.  
Project Number: 8930 Bancroft Ave.  
Project Manager: Nick Sudano

**Reported:**  
03/27/01 11:20

**MTBE by EPA Method 8260A - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1C26015 - EPA 5030B P/T</b>										
<b>Blank (1C26015-BLK1)</b>				Prepared & Analyzed: 03/23/01						
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	9.59		"	10.0		95.9	70-130			
<b>LCS (1C26015-BS1)</b>				Prepared & Analyzed: 03/23/01						
Methyl tert-butyl ether	11.3	1.00	ug/l	10.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	11.0		"	10.0		110	70-130			
<b>Matrix Spike (1C26015-MS1)</b>				Source: MKC0305-05		Prepared & Analyzed: 03/23/01				
Methyl tert-butyl ether	10.9	1.00	ug/l	10.0	2.57	83.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	10.5		"	10.0		105	70-130			
<b>Matrix Spike Dup (1C26015-MSD1)</b>				Source: MKC0305-05		Prepared & Analyzed: 03/23/01				
Methyl tert-butyl ether	15.0	1.00	ug/l	10.0	2.57	124	70-130	31.7	25	Q-01
Surrogate: 1,2-Dichloroethane-d4	10.7		"	10.0		107	70-130			





Blaine Tech Services (Shell)  
1680 Rogers Avenue  
San Jose CA, 95112

Project: 8930 Bancroft Ave.  
Project Number: 8930 Bancroft Ave.  
Project Manager: Nick Sudano

**Reported:**  
03/27/01 11:20

## Notes and Definitions

- M-03 Sample was analyzed at a second dilution.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference







## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010309-F2</u>	Site: <u>20453081305</u>
Sampler: <u>Jenny</u>	Date: <u>3/9/01</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth: <u>16.88</u>	Depth to Water: <u>9.07</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- |  |  |
|--|--|
| <input type="checkbox"/> Bailer<br><input type="checkbox"/> Disposable Bailer<br><input type="checkbox"/> Middleburg<br><input checked="" type="checkbox"/> Electric Submersible | <input type="checkbox"/> Waterra<br><input type="checkbox"/> Peristaltic<br><input type="checkbox"/> Extraction Pump<br><input type="checkbox"/> Other _____ |
|--|--|

Sampling Method:

- |   |                                       |
|---|---------------------------------------|
| <input checked="" type="checkbox"/> Bailer<br><input type="checkbox"/> Disposable Bailer<br><input type="checkbox"/> Extraction Port<br><input type="checkbox"/> Dedicated Tubing | <input type="checkbox"/> Other: _____ |
|---|---------------------------------------|

$$\underline{2.9} \text{ (Gals.)} \times \underline{3} = \underline{8.7} \text{ Gals.}$$
 1 Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1121	65.8	6.8	327	>200	3	SIFTY
1122	66.0	6.9	392	>200	6	4
1123	65.9	6.8	376	>200	9	cc

Did well dewater? Yes  No  Gallons actually evacuated: 9

Sampling Time: 12P Sampling Date: 3/9/01

Sample I.D.: MW-1 Laboratory: Sequoia Columbia 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:

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010309-F2</u>	Site: <u>20455081305</u>
Sampler: <u>JERRY</u>	Date: <u>3/9/01</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: <u>19.73</u>	Depth to Water: <u>8.89</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> Bailer</li> <li><input type="checkbox"/> Disposable Bailer</li> <li><input type="checkbox"/> Middleburg</li> <li><input checked="" type="checkbox"/> Electric Submersible</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Waterra</li> <li><input type="checkbox"/> Peristaltic</li> <li><input type="checkbox"/> Extraction Pump</li> <li><input type="checkbox"/> Other _____</li> </ul> |
|--|--|

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing

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

<u>4.0</u> (Gals.) X	<u>3</u> Specified Volumes	=	<u>12.0</u> Gals. Calculated Volume
----------------------	----------------------------	---	-------------------------------------

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1152</u>	<u>66.4</u>	<u>6.6</u>	<u>374</u>	<u>&gt;200</u>	<u>4</u>	<u>51277</u>
<u>1153</u>	<u>66.9</u>	<u>6.7</u>	<u>401</u>	<u>&gt;200</u>	<u>8</u>	
<u>1154</u>	<u>67.6</u>	<u>6.7</u>	<u>410</u>	<u>&gt;200</u>	<u>12</u>	

Did well dewater? Yes  No  Gallons actually evacuated: 12

Sampling Time: 1159 Sampling Date: 3/9/01

Sample I.D.: MW-2 Laboratory: Sequoia Columbia 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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010309-F2</u>	Site: <u>20455081305</u>
Sampler: <u>Jeremy</u>	Date: <u>3/9/01</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth: <u>19.68</u>	Depth to Water: <u>7.28</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>Bailer</li> <li>Disposable Bailer</li> <li>Middleburg</li> <li><u>Electric Submersible</u></li> </ul> | <ul style="list-style-type: none"> <li>Waterra</li> <li>Peristaltic</li> <li>Extraction Pump</li> <li>Other _____</li> </ul> |
|--|--|

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing

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

<u>4.6</u> (Gals.) X <u>3</u>	= <u>13.8</u> Gals.
1 Case Volume	Specified Volumes
	Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1048	65.1	6.5	455	2200	5	Grey
1049	65.5	6.5	461	2200	9	"
1050	66.0	6.4	482	2200	14	"

Did well dewater? Yes  No  Gallons actually evacuated: 14

Sampling Time: 1055 Sampling Date: 3/9/01

Sample I.D.: MW-3 Laboratory: Sequoia Columbia 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):	mV	Post-purge:	mV



## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010309-F2</u>	Site: <u>20455081305</u>
Sampler: <u>Jenny</u>	Date: <u>3/9/01</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: <u>19.57</u>	Depth to Water: <u>7.48</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

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

Sampling Method:

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

<u>4.5</u>	(Gals.) X	<u>3</u>	=	<u>13.5</u>	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1105	66.2	6.7	431	2200	5	Silty
1106	66.3	6.8	492	2200	9	r
1107	66.7	6.8	486	2200	14	L

Did well dewater? Yes  No  Gallons actually evacuated: 14

Sampling Time: 1112 Sampling Date: 3/9/01

Sample I.D.: MW-4 Laboratory: Sequoia Columbia 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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010309-F2</u>	Site: <u>20453081305</u>
Sampler: <u>Jeremy</u>	Date: <u>3/9/01</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth: <u>19.64</u>	Depth to Water: <u>7.79</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

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

Sampling Method:

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

4.4 (Gals.) X 3 = 13.2 Gals.  
 I Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1204	66.5	6.5	367	>200	5	SILTY
1205	66.4	6.4	393	>200	9	"
1206	66.4	6.4	412	>200	14	"

Did well dewater? Yes  No      Gallons actually evacuated: 14

Sampling Time: 1200      Sampling Date: 3/9/01

Sample I.D.: MW-5      Laboratory: Sequoia Columbia Other \_\_\_\_\_

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

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

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

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

## EQUIVA WELL MONITORING DATA SHEET

BTS #: 010309 - P2	Site: 20453081305
Sampler: Jeremy	Date: 3/9/01
Well I.D.: MW-6	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth: 19.72	Depth to Water: 8.65
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

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

Sampling Method:

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

$4.1 \text{ (Gals.)} \times 3 = 12.3 \text{ Gals.}$   
 1 Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1127	66.2	6.5	381	7200	5	ODOR
1138	66.4	6.6	402	7200	9	"
1139	67.1	6.6	393	7200	13	"

Did well dewater? Yes  No  Gallons actually evacuated: 13

Sampling Time: 1144      Sampling Date: 3/9/01

Sample I.D.: MW-6      Laboratory: Sequoia Columbia Other \_\_\_\_\_

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

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

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

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