

**C A M B R I A**

September 30, 1999

Leroy Griffin  
 City of Oakland Fire Department  
 505 14th Street, Suite 702  
 Alameda, California 94502

Re: **Second Quarter 1999 Monitoring Report**  
 Shell-branded Service Station  
 8930 Bancroft Avenue  
 Oakland, California  
 Incident #98995742  
 Cambria Project #241-1408-002



Dear Mr. Griffin:

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

## **SECOND QUARTER 1999 ACTIVITIES**

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

## **ANTICIPATED THIRD QUARTER 1999 ACTIVITIES**

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

**Underground Storage Tank (UST) Removal and Replacement:** On July 8, 1999, UST removal and replacement activities were initiated. Details of the UST removal and related sampling activities will be presented in a forthcoming report.

Oakland, CA  
 Sonoma, CA  
 Portland, OR  
 Seattle, WA

**Cambria  
 Environmental  
 Technology, Inc.**

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 Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**



Darryk Ataide, REA I  
Project Manager

Ailsa Le May, R.G.  
Senior Geologist

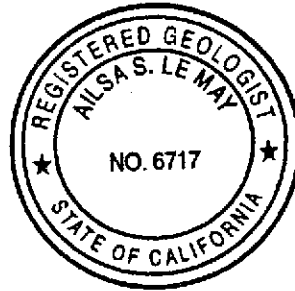
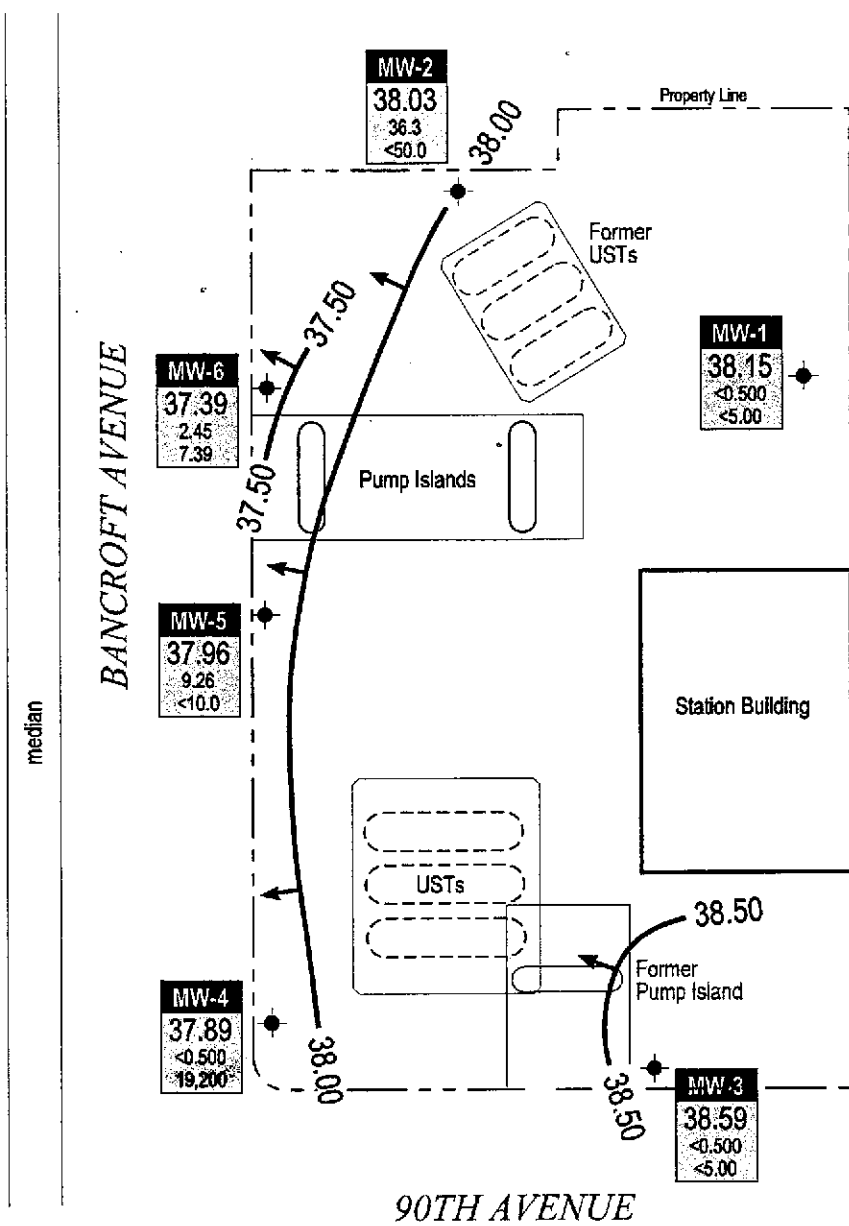
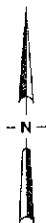


Figure: 1 - Ground Water Elevation Contour Map

Attachment: A - Blaine Ground Water Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California 90749-6249

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**EXPLANATION**

- MW-1 ● Monitoring well location
- Ground water flow direction
- XX.XX Ground water elevation contour, in feet above mean sea level (msl), dashed where inferred
- Well — Well designation
- ELEV — Ground water elevation (msl)
- Benzene — Benzene and MTBE concentrations are in parts per billion (ppb)
- MTBE



FIGURE

**1**

**Shell-branded Service Station**

8930 Bancroft Avenue  
 Oakland, California  
 Incident #98995742



C A M B R I A

**Ground Water Elevation Contour Map**

June 16, 1999

C:\DATA\98995742\FIGURE\SCMPP-MP.DWG

**ATTACHMENT A**

Blaine Ground Water Monitoring Report  
and Field Notes

**BLAINE**  
TECH SERVICES INC.



1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE

August 18, 1999

Karen Petryna  
Equiva Services LLC  
P.O. Box 6249  
Carson, CA 90749-6249

Second Quarter 1999 Groundwater Monitoring at  
Shell-branded Service Station  
8930 Bancroft Avenue  
Oakland, CA

Monitoring performed on June 16, 1999

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Groundwater Monitoring Report **990616-S-1**

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, appropriate 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 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

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 cursive script, appearing to read "Deidre Kerwin", with a long horizontal flourish extending to the right.

Deidre Kerwin  
Operations Manager

DK/mt

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-2	12/17/1998	9900	NA	<5.0	37	22	47	48	<20	52.66	11.65	41.01
MW-2	03/09/1999	2760	NA	12.3	7.50	85.4	444	<50.0	NA	52.66	8.07	44.59
MW-2	06/16/1999	2570	NA	36.3	11.6	6.19	10.8	<50.0	NA	52.66	14.63	38.03
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-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-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-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



Sequoia  
Analytical

1551 Industrial Road  
San Carlos, CA 94070-4111  
(650) 232-9600  
FAX (650) 232-9612

July 8, 1999

Ann Pember  
Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

RE: Shell(2)/L906280

Dear Ann Pember:

Enclosed are the results of analyses for sample(s) received by the laboratory on June 17, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Costello  
Lab Director

CA ELAP Certificate Number I-2360







Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Project: Shell(2)  
Project Number: Equiva 8930 Bancroft Ave./990616-S1  
Project Manager: Ann Pember

Sampled: 6/16/99  
Received: 6/17/99  
Reported: 7/8/99

**ANALYTICAL REPORT FOR L906280**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	L906280-01	Water	6/16/99
MW-2	L906280-02	Water	6/16/99
MW-3	L906280-03	Water	6/16/99
MW-4	L906280-04	Water	6/16/99
MW-5	L906280-05	Water	6/16/99
MW-6	L906280-06	Water	6/16/99





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: Equiva 8930 Bancroft Ave./990616-S1 Project Manager: Ann Pember	Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99
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Sample Description: MW-1  
Laboratory Sample Number: L906280-01

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9060130	6/23/99	6/23/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		84.6	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: Equiva 8930 Bancroft Ave./990616-S1 Project Manager: Ann Pember	Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99
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Sample Description: **MW-2**  
Laboratory Sample Number: **L906280-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9060150	6/27/99	6/27/99		500	2570	ug/l	1
Benzene	"	"	"		5.00	36.3	"	
Toluene	"	"	"		5.00	11.6	"	
Ethylbenzene	"	"	"		5.00	6.19	"	
Xylenes (total)	"	"	"		5.00	10.8	"	
Methyl tert-butyl ether	"	"	"		50.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		113	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: Equiva 8930 Bancroft Ave./990616-S1 Project Manager: Ann Pember	Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99
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Sample Description: MW-3  
Laboratory Sample Number: L906280-03

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9060142	6/25/99	6/25/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		88.1	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: Equiva 8930 Bancroft Ave./990616-S1 Project Manager: Ann Pember	Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99
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Sample Description: MW-4  
Laboratory Sample Number: L906280-04

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9060130	6/23/99	6/24/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	9060137	6/24/99	6/24/99		250	10600	"	
Surrogate: a,a,a-Trifluorotoluene	9060130	6/23/99	6/23/99	70.0-130		83.7	%	

**MTBE by EPA Method 8260A**

Methyl tert-butyl ether	9070007	7/6/99	7/6/99		200	19200	ug/l	2
Surrogate: 1,2-Dichloroethane-d4	"	"	"	76.0-114		101	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: Equiva 8930 Bancroft Ave./990616-S1 Project Manager: Ann Pember	Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99
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Sample Description: **MW-5**  
Laboratory Sample Number: **L906280-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9060150	6/27/99	6/27/99		100	646	ug/l	1
Benzene	"	"	"		1.00	9.26	"	
Toluene	"	"	"		1.00	1.05	"	
Ethylbenzene	"	"	"		1.00	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Methyl tert-butyl ether	"	"	"		10.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		99.0	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: Equiva 8930 Bancroft Ave./990616-S1 Project Manager: Ann Pember	Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99
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Sample Description: MW-6  
Laboratory Sample Number: L906280-06

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9060142	6/25/99	6/25/99		50.0	308	ug/l	
Benzene	"	"	"		0.500	2.45	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	7.39	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		87.6	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: Equiva 8930 Bancroft Ave./990616-S1 Project Manager: Ann Pember	Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
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<b>Batch: 9060130</b>	<b>Date Prepared: 6/23/99</b>	<b>Extraction Method: EPA 5030B (P/T)</b>								
<b>Blank</b>	<b>9060130-BLK1</b>									
Purgeable Hydrocarbons as Gasoline	6/23/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.36	"	70.0-130	93.6			

<b>LCS</b>	<b>9060130-BS1</b>									
Benzene	6/23/99	10.0		8.21	ug/l	70.0-130	82.1			
Toluene	"	10.0		8.32	"	70.0-130	83.2			
Ethylbenzene	"	10.0		8.42	"	70.0-130	84.2			
Xylenes (total)	"	30.0		25.5	"	70.0-130	85.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.61	"	70.0-130	86.1			

<b>Matrix Spike</b>	<b>9060130-MS1</b>									
Benzene	6/24/99	10.0		8.04	ug/l	60.0-140	80.4			
Toluene	"	10.0		8.98	"	60.0-140	89.8			
Ethylbenzene	"	10.0		7.82	"	60.0-140	78.2			
Xylenes (total)	"	30.0		23.2	"	60.0-140	77.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.93	"	70.0-130	79.3			

<b>Matrix Spike Dup</b>	<b>9060130-MSD1</b>									
Benzene	6/24/99	10.0		8.25	ug/l	60.0-140	82.5	25.0	2.58	
Toluene	"	10.0		8.39	"	60.0-140	83.9	25.0	6.79	
Ethylbenzene	"	10.0		8.07	"	60.0-140	80.7	25.0	3.15	
Xylenes (total)	"	30.0		24.2	"	60.0-140	72.6	25.0	6.27	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.17	"	70.0-130	81.7			

<b>Batch: 9060142</b>	<b>Date Prepared: 6/25/99</b>	<b>Extraction Method: EPA 5030B (P/T)</b>								
<b>Blank</b>	<b>9060142-BLK1</b>									
Purgeable Hydrocarbons as Gasoline	6/25/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.67	"	70.0-130	96.7			







Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: Equiva 8930 Bancroft Ave./990616-S1 Project Manager: Ann Pember	Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUF/Quality Control**  
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9060150</b>		<b>Date Prepared: 6/27/99</b>			<b>Extraction Method: EPA 5030B (P/T)</b>					
<b>Blank</b>										
<b>9060150-BLK1</b>										
Purgeable Hydrocarbons as Gasoline	6/27/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.17	"	70.0-130	81.7			
<b>LCS</b>										
<b>9060150-BS1</b>										
Purgeable Hydrocarbons as Gasoline	6/27/99	250		218	ug/l	70.0-130	87.2			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.03	"	70.0-130	80.3			
<b>Matrix Spike</b>										
<b>9060150-MS1 L906279-02</b>										
Purgeable Hydrocarbons as Gasoline	6/27/99	250	ND	232	ug/l	60.0-140	92.8			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.16	"	70.0-130	81.6			
<b>Matrix Spike Dup</b>										
<b>9060150-MSD1 L906279-02</b>										
Purgeable Hydrocarbons as Gasoline	6/27/99	250	ND	222	ug/l	60.0-140	88.8	25.0	4.41	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.73	"	70.0-130	77.3			





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: Equiva 8930 Bancroft Ave./990616-S1 Project Manager: Ann Pember	Sampled: 6/16/99 Received: 6/17/99 Reported: 7/8/99
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**MTBE by EPA Method 8260A/Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9070007</b>		<b>Date Prepared: 7/2/99</b>		<b>Extraction Method: EPA 5030B [P/T]</b>						
<b>Blank</b>		<b>9070007-BLK1</b>								
Methyl tert-butyl ether	7/2/99			ND	ug/l	2.00				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.4	"	76.0-114	105			
<b>Blank</b>		<b>9070007-BLK2</b>								
Methyl tert-butyl ether	7/6/99			ND	ug/l	2.00				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		53.1	"	76.0-114	106			
<b>Blank</b>		<b>9070007-BLK3</b>								
Methyl tert-butyl ether	7/7/99			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		53.1	"	76.0-114	106			
<b>LCS</b>		<b>9070007-BS1</b>								
Methyl tert-butyl ether	7/2/99	50.0		49.7	ug/l	70.0-130	99.4			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		51.0	"	76.0-114	102			
<b>LCS</b>		<b>9070007-BS2</b>								
Methyl tert-butyl ether	7/6/99	50.0		53.7	ug/l	70.0-130	107			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		54.5	"	76.0-114	109			
<b>LCS</b>		<b>9070007-BS3</b>								
Methyl tert-butyl ether	7/7/99	50.0		54.7	ug/l	70.0-130	109			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		51.9	"	76.0-114	104			
<b>Matrix Spike</b>		<b>9070007-MS1</b>		<b>L907011-04</b>						
Methyl tert-butyl ether	7/2/99	50.0	127	166	ug/l	60.0-140	78.0			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.3	"	76.0-114	105			
<b>Matrix Spike Dup</b>		<b>9070007-MSD1</b>		<b>L907011-04</b>						
Methyl tert-butyl ether	7/2/99	50.0	127	171	ug/l	60.0-140	88.0	25.0	12.0	
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.0	"	76.0-114	104			





Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Project: Shell(2)  
Project Number: Equiva 8930 Bancroft Ave./990616-S1  
Project Manager: Ann Pember

Sampled: 6/16/99  
Received: 6/17/99  
Reported: 7/8/99

### Notes and Definitions

#	Note
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1	Chromatogram Pattern: Gasoline C6-C12
2	MTBE was confirmed pass hold-time.
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
Recov.	Recovery
RPD	Relative Percent Difference



# BLAINE

TECH SERVICES INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER

RWQCB REGION

6906280

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995742

Send report to Blaine Tech Services

Attn: Ann Pember

CHAIN OF CUSTODY

9906016-51

CLIENT: Equiva - Karen Petryna

SITE: 8930 Bancroft Ave., Oakland, CA

C - COMPOSITE ALL CONTAINERS

TPH - gas, BTEX  
 MTBE by 8020  
 MTBE by 8260  
 TPH - diesel  
 Oxygenates by 8260  
 1,2-DCA & EDB by 8010

01  
02  
03  
04  
05  
06

SAMPLE I.D.	DATE	TIME	MATRIX	TOTAL	C - COMPOSITE ALL CONTAINERS	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			S = SOIL W = H <sub>2</sub> O												
MW-1	6/16/99	11:00	W	3		X	X					Confirm		Revised COC	
MW-2		15:00					X					Highest MTBE		6/21/99	(AP)
X MW-3		10:40					X					Hit By EPA			
MW-4		2:00					X					8260			
X MW-5		11:30					X								
X MW-6		12:38					X								

SAMPLING COMPLETED: 6/16/99 13:07  
 SAMPLING PERFORMED BY: KPS  
 RESULTS NEEDED NO LATER THAN:

RELEASED BY: Kevin Sullivan  
 DATE: 6/17/99 TIME: 10:02  
 RECEIVED BY: [Signature]  
 DATE: 6/17/99 TIME: 10:04

RELEASED BY: [Signature]  
 DATE: [Signature] TIME: [Signature]  
 RECEIVED BY: [Signature]  
 DATE: 6/23/99 TIME: 1000

RELEASED BY: [Signature]  
 DATE: [Signature] TIME: [Signature]  
 RECEIVED BY: [Signature]  
 DATE: [Signature] TIME: [Signature]

SHIPPED VIA: [Signature]  
 DATE SENT: [Signature] TIME SENT: [Signature]  
 COOLER #: [Signature]

JUN - 21 - 99 (MON) 08:29  
 BLAINE TECH SERVICES, INC  
 TEL: 408 573 7771  
 P. 002



## EQUIVA WELL MONITORING DATA SHEET

Project #: 990616-S1	Job # 204-5508-130E
Sampler: KPS	Date: 6/16/99
Well I.D.: MW-1	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 18.20	Depth to Water: 15.04
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible      Other: \_\_\_\_\_  
Extraction Pump

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

1	1	x	3	=	3.3	Gals.
1 Case Volume (Gals.)			Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
10:53	71.8	8.0	300	21.5	1.5	
10:55	71.2	8.0	250	13.0	3.0	
10:57	70.0	8.0	270	14.2	4	

Did well dewater? Yes  No       Gallons actually evacuated: 4

Sampling Time: 11:00      Sampling Date: 6/16/99

Sample I.D.: MW-1      Laboratory: Sequoia BC Other \_\_\_\_\_

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

Project #: <u>990616-51</u>	Job # <u>204-5508-1305</u>
Sampler: <u>KPS</u>	Date: <u>6/16/99</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 <u>3</u> 4 6 8 <u>    </u>
Total Well Depth: <u>18.75</u>	Depth to Water: <u>14.63</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> <u>HACH</u>

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible      Other: \_\_\_\_\_  
Extraction Pump

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

5	x	3	=	4.5	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
12:46	73.4	8.1	200	<200	1.5	odor
12:48	74.2	8.3	400	<200	3	
12:50	72.8	8.2	400	<200	5	

Did well dewater? Yes  No       Gallons actually evacuated: 5

Sampling Time: 13:00      Sampling Date: 6/16/99

Sample I.D.: MW-2      Laboratory: Sequoia BC Other \_\_\_\_\_

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

Project #: 990616-S1	Job # 204-5508-1305
Sampler: KPS	Date: 6/16/99
Well I.D.: MW-3	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 19.35	Depth to Water: 12.71
Depth to Free Product: <del>11.1</del>	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

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

<u>2.4</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>7.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
10:20	66.6	8.0	900	88	3	
10:24	68.4	8.2	850	92	5	odor
10:29	69.8	8.1	750	87	8	odor

Did well dewater? Yes  No       Gallons actually evacuated: 8

Sampling Time: 10:40      Sampling Date: 6/16/99

Sample I.D.: MW-3      Laboratory: Sequoia BC Other \_\_\_\_\_

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

Project #: 990616-51	Job # 204-5508-1305
Sampler: KPS	Date: 6/16/99
Well I.D.: MW-4	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 19.51	Depth to Water: 12.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

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

<u>2.5</u>	x	<u>3</u>	=	<u>7.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:51	72.0	8.3	200	40	2.5	
11:53	73.4	8.3	300	165	5.0	
11:56	72.0	8.2	300	160	8	

Did well dewater? Yes (No)      Gallons actually evacuated: 7

Sampling Time: 12:00      Sampling Date: 6/16/99

Sample I.D.: MW-4      Laboratory: (Sequoia) BC Other \_\_\_\_\_

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

Project #: 990616-51	Job # 204-5508-130S
Sampler: KPS	Date: 6/16/99
Well I.D.: MW-5	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 19.49	Depth to Water: 13.47
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  Middleburg  Electric Submersible  Extraction Pump

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

Sampling Method:  Bailer  Extraction Port

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

2.2	x	3	=	6.6	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:21	73.8	7.0	250	11.06	2.5	
11:24	72.8	7.0	260	63.6	5	
11:27	71.0	7.1	200	69.1	7	

Did well dewater? Yes  No

Gallons actually evacuated: 7

Sampling Time: 11:30

Sampling Date: 6/16/99

Sample I.D.: MW-5

Laboratory: (Sequoia) BC Other \_\_\_\_\_

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

Project #: <u>990616-51</u>	Job # <u>204-5508-1305</u>
Sampler: <u>LPS</u>	Date: <u>6/16/99</u>
Well I.D.: <u>MW-6</u>	Well Diameter: 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/> <u>    </u>
Total Well Depth: <u>19.64</u>	Depth to Water: <u>14.49</u>
Depth to Free Product: <u>    </u>	Thickness of Free Product (feet): <u>    </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> <u>HACH</u>

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible      Other:       
Extraction Pump

Other:     

<u>1.9</u>	x	<u>3</u>	=	<u>5.7</u>	Gals.
I Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>12:22</u>	<u>70.2</u>	<u>8.3</u>	<u>250</u>	<u>179</u>	<u>2</u>	
<u>12:24</u>	<u>71.8</u>	<u>8.3</u>	<u>250</u>	<u>181</u>	<u>4</u>	
<u>12:26</u>	<u>72.8</u>	<u>8.2</u>	<u>300</u>	<u>172</u>	<u>6</u>	

Did well dewater? Yes  No       Gallons actually evacuated: 6

Sampling Time: 12:30      Sampling Date: 6/16/99

Sample I.D.: MW-6      Laboratory: Sequoia BC Other     

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