CAMBRIA

ENVIRONMENTAL PROTECTION

99 DEC 27 PM 4:33

December 21, 1999

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

still need x-sect., flow rate, etc
May need off-site mw to delineate
extent plume.

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

Dear Ms.Chu:

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.

THIRD 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.

Underground Storage Tank (UST) Removal and Repacement: On July 8, 1999, UST removal and replacement activities were initiated. Details of the UST removal and related sampling activities were presented in Cambria's Underground Storage Removal Report, dated September 29, 1999.

ANTICIPATED FOURTH QUARTER 1999 ACTIVITIES

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

Alameda County Health Care Services Agency (ACHCSA) Letter Response: In response to ACHSCA's letter dated November 1, 1999, Cambria will perform a conduit and well survey in order to begin developing a site conceptual model for the site.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Troy Buggle at (510) 420-3333 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Troy A. Buggle
Senior Staff Scientist

Ailsa Le May, R.G.
Senior Geologist

REGISTERED GEOLOGIST
AILSA S. LE MAY
NO. 6717
STATE OF CALIFORNIA

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 7869, Burbank, California 91501-7869
Leroy Griffin, City of Oakland Fire Department, 505 14th Street. Suite 702, Oakland, CA 94612

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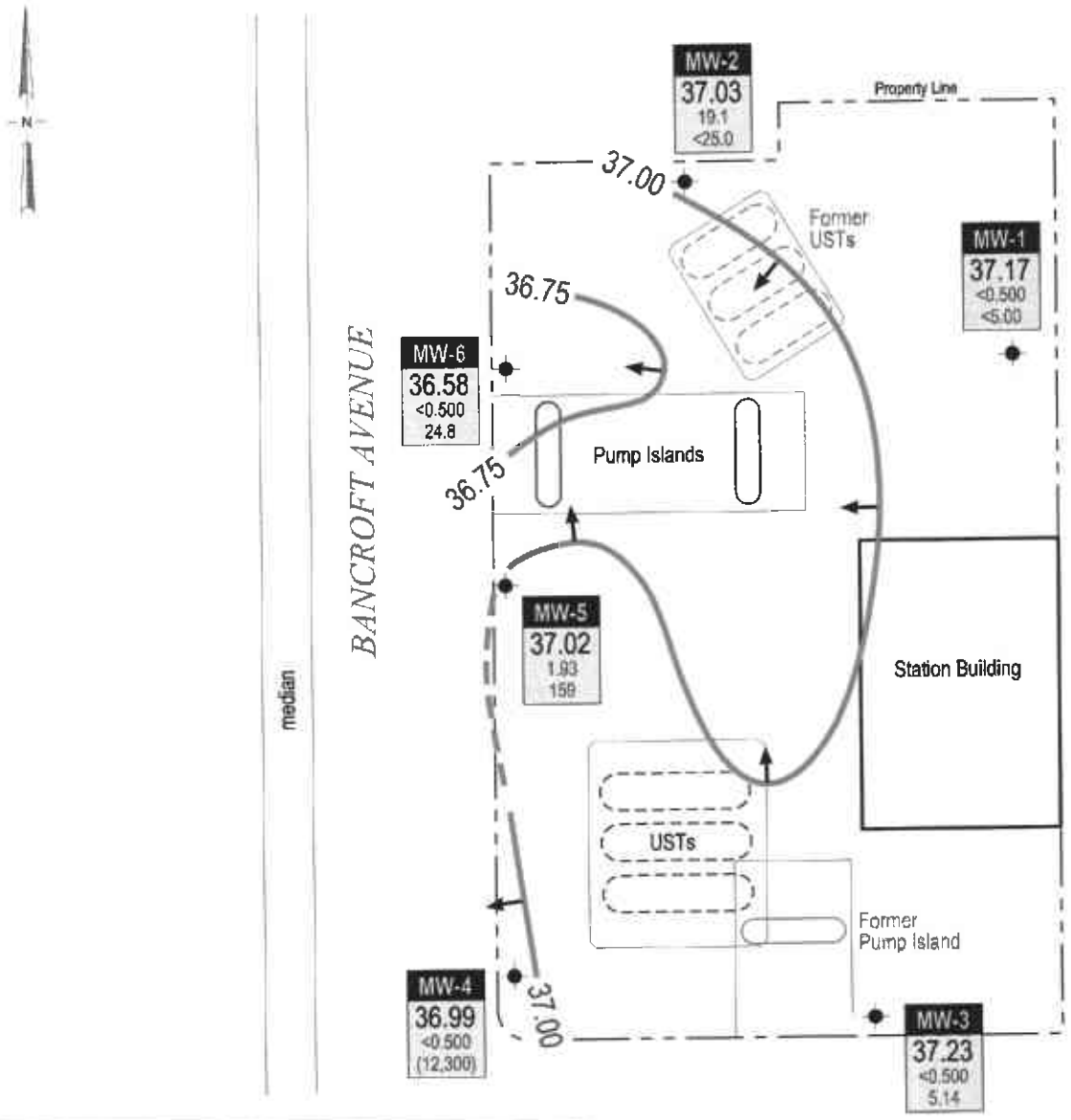

EXPLANATION

MW-1 ● Monitoring well location

→ Ground water flow direction

XX.XX Ground water elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred

Well
ELEV
Benzene
MTBE

Well designation

Ground water elevation (msl)

Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8020; MTBE results in parentheses are analyzed by EPA Method 8260

0 15 30
Scale (ft)

FIGURE
1

G:\OAK8930\FIGURES\3QM99-MP.DWG

Shell-branded Service Station
8930 Bancroft Avenue
Oakland, California
Incident #98995742

CAMBRIA

Ground Water Elevation Contour Map

September 30, 1999

ATTACHMENT A

Blaine Ground Water Monitoring Report

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,

Deidre Kerwin
Operations Manager

DK/ek

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th 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-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-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
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	009/30/1999	51.2	NA	<0.500	<0.500	<0.500	<0.500	12,200	12,300	50.73	13.74	36.99
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

MTBE confirmed w/ 8260

Sequoia Analytical

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

October 18, 1999

Leah Davis
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

RE: Equiva(2)/L910033

Dear Leah Davis:

Enclosed are the results of analyses for sample(s) received by the laboratory on October 1, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson
Project Manager

CA ELAP Certificate Number I-2360

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

ANALYTICAL REPORT FOR L910033

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW1	L910033-01	Water	9/30/99
MW2	L910033-02	Water	9/30/99
MW3	L910033-03	Water	9/30/99
MW4	L910033-04	Water	9/30/99
MW5	L910033-05	Water	9/30/99
MW6	L910033-06	Water	9/30/99

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San Carlos, CA 94070-4111
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Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

Sample Description: **MW1**
Laboratory Sample Number: **L910033-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9100060	10/13/99	10/14/99		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: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*103*	%	

Sequoia Analytical

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Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

Sample Description: **MW2**
Laboratory Sample Number: **L910033-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9100072	10/14/99	10/14/99		250	**1960**	ug/l	I
Benzene	"	"	"		2.50	**19.1**	"	
Toluene	"	"	"		2.50	**3.20**	"	
Ethylbenzene	"	"	"		2.50	**4.55**	"	
Xylenes (total)	"	"	"		2.50	**26.9**	"	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*109*	%	

Sequoia Analytical

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Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

Sample Description: **MW3**
Laboratory Sample Number: **L910033-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9100073	10/14/99	10/14/99		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	**5.14**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*78.6*	%	

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Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

Sample Description: **MW4**
Laboratory Sample Number: **L910033-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9100060	10/13/99	10/14/99		50.0	**51.2**	ug/l	2
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	9100073	10/14/99	"		1000	**12200**	"	
Surrogate: a,a,a-Trifluorotoluene	9100060	10/13/99	"	*70.0-130*		*100*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9100049	10/15/99	10/15/99		20.0	**12300**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*70.0-121*		*100*	%	

Sequoia Analytical

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Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

Sample Description: **MW5**
Laboratory Sample Number: **L910033-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9100073	10/14/99	10/14/99		50.0	**484**	ug/l	3
Benzene	"	"	"		0.500	**1.93**	"	
Toluene	"	"	"		0.500	**0.511**	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	**159**	"	
Surrogate: a,a,a-Trifluorotoluene	*"*	*"*	*"*	*70.0-130*		*78.7*	*%*	

Sequoia Analytical

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(650) 232-9600
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Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

Sample Description: **MW6**
Laboratory Sample Number: **L910033-06**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9100073	10/14/99	10/14/99		50.0	**80.2**	ug/l	2
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	**24.8**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*70.8*	%	

Sequoia Analytical

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San Carlos, CA 94070-4111
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Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

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*
Batch: 9100060	**Date Prepared: 10/13/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9100060-BLK1**									
Purgeable Hydrocarbons as Gasoline	10/13/99			**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*		*9.86*	"	*70.0-130*	*98.6*			
LCS	**9100060-BS1**									
Benzene	10/13/99	10.0		8.44	ug/l	70.0-130	84.4			
Toluene	"	10.0		8.24	"	70.0-130	82.4			
Ethylbenzene	"	10.0		8.30	"	70.0-130	83.0			
Xylenes (total)	"	30.0		24.9	"	70.0-130	83.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.58*	"	*70.0-130*	*95.8*			
LCS	**9100060-BS2**									
Purgeable Hydrocarbons as Gasoline	10/13/99	250		196	ug/l	70.0-130	78.4			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*6.47*	"	*70.0-130*	*64.7*			
Matrix Spike	**9100060-MS1**		**L910028-01**							
Purgeable Hydrocarbons as Gasoline	10/13/99	250	ND	225	ug/l	60.0-140	**90.0**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.14*	"	*70.0-130*	*81.4*			
Matrix Spike Dup	**9100060-MSD1**		**L910028-01**							
Purgeable Hydrocarbons as Gasoline	10/13/99	250	ND	239	ug/l	60.0-140	**95.6**	25.0	**6.03**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.71*	"	*70.0-130*	*77.1*			
Batch: 9100072	**Date Prepared: 10/14/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9100072-BLK1**									
Purgeable Hydrocarbons as Gasoline	10/14/99			**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*		*9.06*	"	*70.0-130*	*90.6*			
LCS	**9100072-BS1**									
Benzene	10/14/99	10.0		7.77	ug/l	70.0-130	77.7			
Toluene	"	10.0		7.72	"	70.0-130	77.2			

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

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*
LCS (continued)	**9100072-BS1**									
Ethylbenzene	10/14/99	10.0		7.83	ug/l	70.0-130	78.3			
Xylenes (total)	"	30.0		23.3	"	70.0-130	77.7			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.46*	"	*70.0-130*	*84.6*			
LCS	**9100072-BS2**									
Purgeable Hydrocarbons as Gasoline	10/14/99	250		251	ug/l	70.0-130	100			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.83*	"	*70.0-130*	*78.3*			
Matrix Spike	**9100072-MS1**		**L910032-05**							
Benzene	10/14/99	10.0	ND	8.47	ug/l	60.0-140	**84.7**			
Toluene	"	10.0	ND	8.24	"	60.0-140	**82.4**			
Ethylbenzene	"	10.0	ND	8.46	"	60.0-140	**84.6**			
Xylenes (total)	"	30.0	ND	25.1	"	60.0-140	**83.7**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.14*	"	*70.0-130*	*81.4*			
Matrix Spike Dup	**9100072-MSD1**		**L910032-05**							
Benzene	10/15/99	10.0	ND	8.56	ug/l	60.0-140	**85.6**	25.0	**1.06**	
Toluene	"	10.0	ND	8.28	"	60.0-140	**82.8**	25.0	**0.484**	
Ethylbenzene	"	10.0	ND	8.55	"	60.0-140	**85.5**	25.0	**1.06**	
Xylenes (total)	"	30.0	ND	25.4	"	60.0-140	**84.7**	25.0	**1.19**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.28*	"	*70.0-130*	*82.8*			
Batch: 9100073	**Date Prepared: 10/14/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9100073-BLK1**									
Purgeable Hydrocarbons as Gasoline	10/14/99			**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*		*8.74*	"	*70.0-130*	*87.4*			
LCS	**9100073-BS1**									
Benzene	10/14/99	10.0		8.00	ug/l	70.0-130	80.0			
Toluene	"	10.0		7.51	"	70.0-130	75.1			
Ethylbenzene	"	10.0		7.67	"	70.0-130	76.7			
Xylenes (total)	"	30.0		22.5	"	70.0-130	75.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.23*	"	*70.0-130*	*82.3*			
LCS	**9100073-BS2**									
Purgeable Hydrocarbons as Gasoline	10/14/99	250		245	ug/l	70.0-130	98.0			

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

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*
LCS (continued)	**9100073-BS2**									
Surrogate: a,a,a-Trifluorotoluene	*10/14/99*	*10.0*		*8.40*	*ug/l*	*70.0-130*	*84.0*			
Matrix Spike	**9100073-MS1**		**L910033-03**							
Benzene	10/15/99	10.0	ND	7.83	ug/l	60.0-140	**78.3**			
Toluene	"	10.0	ND	7.51	"	60.0-140	**75.1**			
Ethylbenzene	"	10.0	ND	7.56	"	60.0-140	**75.6**			
Xylenes (total)	"	30.0	ND	22.1	"	60.0-140	**73.7**			
Surrogate: a,a,a-Trifluorotoluene	*"*	*10.0*		*8.35*	*"*	*70.0-130*	*83.5*			
Matrix Spike Dup	**9100073-MSD1**		**L910033-03**							
Benzene	10/15/99	10.0	ND	7.14	ug/l	60.0-140	**71.4**	25.0	**9.22**	
Toluene	"	10.0	ND	6.84	"	60.0-140	**68.4**	25.0	**9.34**	
Ethylbenzene	"	10.0	ND	6.97	"	60.0-140	**69.7**	25.0	**8.12**	
Xylenes (total)	"	30.0	ND	20.1	"	60.0-140	**67.0**	25.0	**9.52**	
Surrogate: a,a,a-Trifluorotoluene	*"*	*10.0*		*7.72*	*"*	*70.0-130*	*77.2*			

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Blaine Tech Services	Project:	Equiva(2)	Sampled: 9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received: 10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 10/18/99

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*
Batch: 9100049	**Date Prepared: 10/11/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9100049-BLK1**									
Methyl tert-butyl ether	10/11/99			**ND**	ug/l	**0.500**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*47.2*	"	*76.0-114*	*94.4*			
Blank	**9100049-BLK2**									
Methyl tert-butyl ether	10/15/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*48.0*	"	*76.0-114*	*96.0*			
LCS	**9100049-BS1**									
Methyl tert-butyl ether	10/11/99	50.0		38.6	ug/l	70.0-130	77.2			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*49.5*	"	*76.0-114*	*99.0*			
LCS	**9100049-BS2**									
Methyl tert-butyl ether	10/15/99	50.0		43.9	ug/l	70.0-130	87.8			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*47.8*	"	*76.0-114*	*95.6*			
Matrix Spike	**9100049-MS1**		**L910072-08**							
Methyl tert-butyl ether	10/11/99	50.0	35.0	67.5	ug/l	60.0-140	**65.0**			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*48.4*	"	*76.0-114*	*96.8*			
Matrix Spike Dup	**9100049-MSD1**		**L910072-08**							
Methyl tert-butyl ether	10/11/99	50.0	35.0	68.6	ug/l	60.0-140	**67.2**	25.0	**3.33**	
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*48.1*	"	*76.0-114*	*96.2*			

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Blaine Tech Services	Project:	Equiva(2)	Sampled:	9/30/99
1680 Rogers Avenue	Project Number:	8930 Bancroft Ave., Oakland	Received:	10/1/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported:	10/18/99

Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
2	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
3	Chromatogram Pattern: Weathered Gasoline C6-C12
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

CHAIN OF CUSTODY

CLIENT: Equiva - Karen Petryna

SITE: 8930 Bancroft Ave.

Oakland, CA

LAB: Sequoia

DHS #

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

☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION

L910033

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995742

Send report to Blaine Tech Services

Attn: Ann Pember

	SAMPLE I.D.		MATRIX S = SOIL W = H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: 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 #
01	MW1	9-30-99 1426	W	3	VOA 40 ml		X	X					confirm Highest MTBE hit by EPA 8260			10 51
02	MW2	1440		3			X	X								
03	MW3	1344		3			X	X								
04	MW4	1320		3			X	X								
05	MW5	1424		3			X	X								
06	MW6	1414		3			X	X								

SC

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	09-30-99	14:40	Lad / Josh	Standard

RELEASED BY: Peter Boer	DATE	TIME	RECEIVED BY	DATE: 10/1/99	TIME: 9:20
RELEASED BY:	DATE: 10/1/99	TIME	RECEIVED BY	DATE: 10/1/99	TIME: 9:20
RELEASED BY: TJT (MH)	DATE: 10.5.99	TIME: 07:50	RECEIVED BY	DATE: 10/1/99	TIME: 10:57
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	DATE: 10/5/99	TIME: 1050

WELL GAUGING DATA

Project # 990930-L2 Date 9-30-99 Client Shell

Site 8930 Bancroft Ave Oakland CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	3					16.02	16.74	TOC	
MW-2	3					15.63	19.15		
MW-3	3					14.07	19.72		
MW-4	3					13.74	19.69		
MW-5	3					14.41	19.73		
MW-6	3					15.30	19.96		

EQUIVA WELL MONITORING DATA SHEET

Project #: 990930-L2	Job # 204-5508-1305
Sampler: Lad / Josh	Date: 09-30-99
Well I.D.: MW-1	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 16.74	Depth to Water: 16.02
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^2 * 0.163

Purge Method: (Bailer) Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: (Bailer) Extraction Port / Other: ____

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
13:55	70.7	6.5	409	X7200	0.5	
1356	Dewatered @ .5 gal					
1424	DTW @ 16.03					
1425	71.5	5.6	487.	>200.	—	

Did well dewater? (Yes) No		Gallons actually evacuated: 0.5	
Sampling Time: 16 1426		Sampling Date: 09-30-99	
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 #: 990930-L2	Job # 204-5508-1205
Sampler: Lad / Josh	Date: 09-30-99
Well I.D.: MW-2	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.15	Depth to Water: 15.63
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^2 * 0.163

Purge Method: (Bailer) Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: (Bailer) Extraction Port / Other: ___

1.3 (1 Case Volume (Gals.)) X ___ (Specified Volumes) = ___ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1430	69.3	6.6	490.	>200 X	2.	
1433	68.9	6.8	450.	>200 X	3.	
1438	68.7	6.7	412.	>200 X	4.	SLOW RECHARGE

Did well dewater? Yes (No) Gallons actually evacuated: 4.

Sampling Time: 1440 Sampling Date: 09-30-99

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 #: 990930-L2	Job # 204-5508-1305
Sampler: Lad / Josh	Date: 09-30-99
Well I.D.: MW-3	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.72	Depth to Water: 14.07
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^2 * 0.163

Purge Method: (Bailer) Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: (Bailer) Extraction Port / Other: ___

2.1 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1328	73.9	6.2	606.	>200	3	ODOR
1332	70.9	6.4	674.	>200	5.	
1341	70.9	6.6	621.	>200	7.	SLOW RECHARGE

Did well dewater? Yes (No)		Gallons actually evacuated: 7.	
Sampling Time: 1344		Sampling Date: 09-30-99	
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 #: 990930-L2	Job # 204-5508-1305
Sampler: Lad / Josh	Date: 09-30-99
Well I.D.: MW-4	Well Diameter: 2 3 4 6 8 ___
Total Well Depth: 19.69	Depth to Water: 13.74
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^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible ✓ / Extraction Pump / Other: ___

Sampling Method: Bailer ✓ / Extraction Port / Other: ___

2.2 (1 Case Volume (Gals.)) X ___ (Specified Volumes) = ___ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1310	76.0	6.6	530.	>200.	3.	
1312	76.5	6.6	482.	>200.	5.	
1318	75.4	6.7	483.	>200.	7.	SLOW RECHARGE

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

Sampling Time: 1320 Sampling Date: 09-30-99

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 #: 990930-L2	Job # 204-5508-1305
Sampler: Lad / Josh	Date: 09-30-99
Well I.D.: MW-5	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.73	Depth to Water: 14.41
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	radius² * 0.163

Purge Method: (Bailer) Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: (Bailer) Extraction Port / Other: ___

~~3.6~~ 2.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6. (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1416	70.8	6.6	367	>200	2.	
1418	70.8	6.6	365.	>200	4.	
1422	71.8	6.8	360.	>200	6.	SLOW RECHARGE

Did well dewater? Yes (No) Gallons actually evacuated: 6.

Sampling Time: 1424 Sampling Date: 09-30-99

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 #: 990930-L2	Job # 204-5508-1305
Sampler: Lad / Jos	Date: 09-30-99
Well I.D.: MW-6	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.96	Depth to Water: 15.30
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	radius² * 0.163

Purge Method: (Bailer) Middleburg Electric Submersible Extraction Pump Other: ___

Sampling Method: (Bailer) Extraction Port Other: ___

1.7 (1 Case Volume (Gals.)) X ___ (Specified Volumes) = ___ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
14:00	72.5	6.5	535.	>7200	2	odor
1404	70.6	6.8	502.	>7200	4	
1412	70.1	6.7	488.	>7200	6	SLOW RECHARGE

Did well dewater? Yes (No) Gallons actually evacuated: 6.

Sampling Time: 1414 Sampling Date: 09-30-99

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