CAMBRIA

September 29, 2000

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

Re: **Second Quarter 2000 Monitoring and Remediation Report**
Shell-branded Service Station
8930 Bancroft Avenue
Oakland, California
Incident #98995742
Cambria Project #242-1408-002

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.

SECOND QUARTER 2000 ACTIVITIES

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). The Blaine report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Groundwater Extraction Mobile Treatment: In March 2000, Cambria began coordinating weekly groundwater extraction events from well MW-4. Groundwater extraction was performed onsite until the end of May, 2000. Hydrocarbon mass removal calculations for extracted groundwater are presented in Table 1.

ANTICIPATED THIRD QUARTER 2000 ACTIVITIES

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

Oakland, CA
San Ramon, CA
Sonoma, CA
Portland, OR

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 Troy Buggle at (510) 420-3333 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Barbara Jakubow for

Troy A. Buggle
Project Scientist

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

REGISTERED GEOLOGIST
STEPHAN A. BORK
No. EG 2058
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Figure: 1 - Groundwater Elevation Contour Map

Table: 1 - Mass Removal Data

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 14th Street, Suite 702, Oakland, CA 94612
Sidhu Associates, 8930 Bancroft Ave., Oakland, CA 94605

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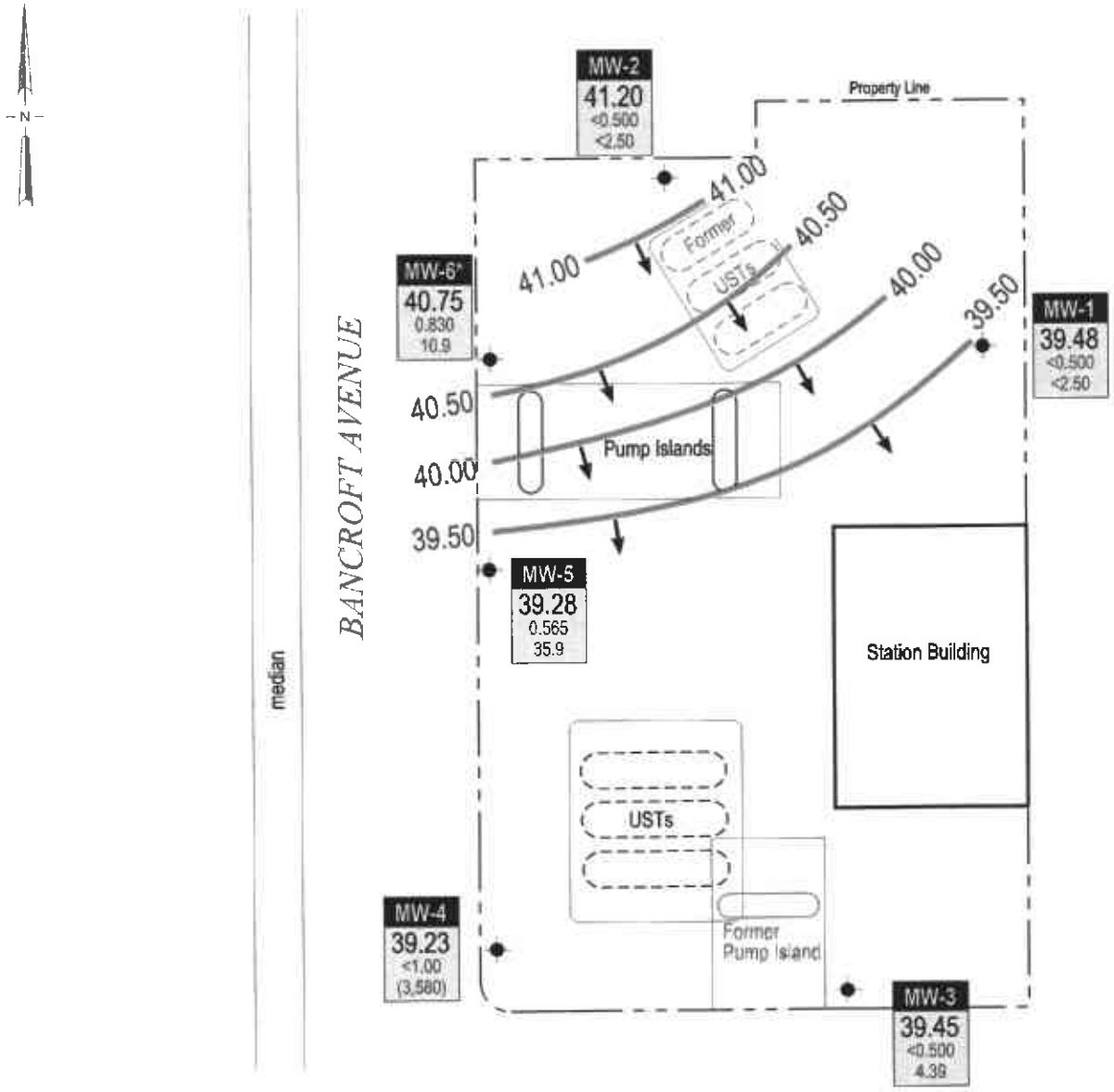

EXPLANATION

- MW-1 ✦ Monitoring well location
- → Groundwater flow direction
- XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred

Well
ELEV
Benzene
MTBE

- Well designation
- Groundwater elevation, in feet above 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:\OAKLAND\8930BANCROFT\FIGURES\2QM00-MP.DWG

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

CAMBRIA

Groundwater Elevation Contour Map

June 1, 2000

Table 1: Mass Removal Data - Shell-branded Service Station, Incident #98995742, 8930 Bancroft ,Oakland, CA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MtBE Concentration (ppb)	MtBE Removed (lb)	MtBE Removed To Date (lb)
03/15/00	MW-4	650	650	12/23/99	< 100	< 0.00054	< 0.00054	< 1.0	< 0.00001	< 0.00001	**8,400**	0.04556	0.04556
03/22/00	MW-4	100	750	03/22/00	< 500	< 0.00042	< 0.00096	< 5.00	< 0.00000	< 0.00001	**5,020**	0.00419	0.04975
03/27/00	MW-4	75	825	03/22/00	< 500	< 0.00031	< 0.00127	< 5.00	< 0.00000	< 0.00001	**5,020**	0.00314	0.05289
04/03/00	MW-4	150	975	03/22/00	< 500	< 0.00063	< 0.00190	< 5.00	< 0.00001	< 0.00002	**5,020**	0.00628	0.05917
04/17/00	MW-4	300	1,275	03/22/00	< 500	< 0.00125	< 0.00315	< 5.00	< 0.00001	< 0.00003	**5,020**	0.01257	0.07174
04/24/00	MW-4	150	1,425	03/22/00	< 500	< 0.00063	< 0.00378	< 5.00	< 0.00001	< 0.00004	**5,020**	0.00628	0.07802
05/01/00	MW-4	75	1,500	03/22/00	< 500	< 0.00031	< 0.00409	< 5.00	< 0.00000	< 0.00004	**5,020**	0.00314	0.08117
05/08/00	MW-4	150	1,650	03/22/00	< 500	< 0.00063	< 0.00471	< 5.00	< 0.00001	< 0.00005	**5,020**	0.00628	0.08745
05/15/00	MW-4	75	1,725	03/22/00	< 500	< 0.00031	< 0.00503	< 5.00	< 0.00000	< 0.00005	**5,020**	0.00314	0.09059
05/22/00	MW-4	75	1,800	03/22/00	< 500	< 0.00031	< 0.00534	< 5.00	< 0.00000	< 0.00005	**5,020**	0.00314	0.09373
05/29/00	MW-4	75	1,875	03/22/00	< 500	< 0.00031	< 0.00565	< 5.00	< 0.00000	< 0.00006	**5,020**	0.00314	0.09687
Total Gallons Extracted:		**1,875**		**Total Pounds Removed:**		**< 0.00565**			**< 0.00006**			**0.09687**	
				Total Gallons Removed:		**< 0.00093**			**< 0.00001**			**0.01562**	

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
µg/L = Micrograms per liter
ppb = Parts per billion, equivalent to µg/L
lb = Pound
SPH = Separate Phase Hydrocarbons
L = Liter
gal = Gallon
g = Gram
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10^6µg) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
MTBE data in bold font by 8260, all other MTBE by 8020

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

June 28, 2000

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

Second Quarter 2000 Groundwater Monitoring at
Shell-branded Service Station
8930 Bancroft Avenue
Oakland, CA

Monitoring performed on June 1, 2000

Groundwater Monitoring Report **000601-F-3**

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

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 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-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-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-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-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

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-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-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-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

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)

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

Sequoia Analytical

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

20 June, 2000

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

RE: 8930 Bancroft Ave.
Sequoia Report: MJF0058

Enclosed are the results of analyses for samples received by the laboratory on 06/02/00 12:51. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ted Terrasas
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 8930 Bancroft Ave.	
1680 Rogers Avenue	Project Number: 8930 Bancoft Ave./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/20/00 16:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MJF0058-01	Water	06/01/00 14:06	06/02/00 12:51
MW-2	MJF0058-02	Water	06/01/00 15:12	06/02/00 12:51
MW-3	MJF0058-03	Water	06/01/00 14:22	06/02/00 12:51
MW-4	MJF0058-04	Water	06/01/00 14:58	06/02/00 12:51
MW-5	MJF0058-05	Water	06/01/00 14:24	06/02/00 12:51
MW-6	MJF0058-06	Water	06/01/00 14:42	06/02/00 12:51

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ted Terrasas, Project Manager

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 8930 Bancroft Ave.	
1680 Rogers Avenue	Project Number: 8930 Bancoft Ave./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/20/00 16:36

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
MW-1 (MJF0058-01) Water Sampled: 06/01/00 14:06 Received: 06/02/00 12:51									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	0F07002	06/07/00	06/07/00	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	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*	*70-130*		"	"	"	"	
MW-2 (MJF0058-02) Water Sampled: 06/01/00 15:12 Received: 06/02/00 12:51									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	0F07002	06/07/00	06/07/00	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	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*70-130*		"	"	"	"	
MW-3 (MJF0058-03) Water Sampled: 06/01/00 14:22 Received: 06/02/00 12:51									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	0F07002	06/07/00	06/07/00	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	**0.821**	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**4.39**	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*70-130*		"	"	"	"	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
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Blaine Tech Services (Shell)	Project: 8930 Bancroft Ave.	
1680 Rogers Avenue	Project Number: 8930 Bancoft Ave./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/20/00 16:36

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
MW-4 (MJF0058-04) Water Sampled: 06/01/00 14:58 Received: 06/02/00 12:51									
Purgeable Hydrocarbons	ND	100	ug/l	2	0F07002	06/07/00	06/07/00	DHS LUFT	
Benzene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	**5260**	125	"	50	"	"	06/07/00	"	M-03
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*70-130*		"	"	*06/07/00*	"	
MW-5 (MJF0058-05) Water Sampled: 06/01/00 14:24 Received: 06/02/00 12:51									
Purgeable Hydrocarbons	**227**	50.0	ug/l	1	0F07002	06/07/00	06/07/00	DHS LUFT	P-03
Benzene	**0.565**	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**35.9**	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*70-130*		"	"	"	"	
MW-6 (MJF0058-06) Water Sampled: 06/01/00 14:42 Received: 06/02/00 12:51									
Purgeable Hydrocarbons	**158**	50.0	ug/l	1	0F07002	06/07/00	06/07/00	DHS LUFT	P-03
Benzene	**0.830**	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	**1.10**	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**10.9**	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*130 %*	*70-130*		"	"	"	"	

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 8930 Bancroft Ave.	
1680 Rogers Avenue	Project Number: 8930 Bancoft Ave./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/20/00 16:36

MTBE by EPA Method 8260A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MJF0058-04) Water Sampled: 06/01/00 14:58 Received: 06/02/00 12:51									
Methyl tert-butyl ether	**3580**	500	ug/l	500	0F20005	06/14/00	06/14/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		*80.0 %*		*70-130*		"	"	"	

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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 0F07002 - EPA 5030B [P/T]										
Blank (0F07002-BLK1)				Prepared & Analyzed: 06/07/00						
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	"							
Surrogate: a,a,a-Trifluorotoluene	*11.0*		"	*10.0*		*110*	*70-130*			
LCS (0F07002-BS1)				Prepared & Analyzed: 06/07/00						
Purgeable Hydrocarbons	245	50.0	ug/l	250		98.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	*15.7*		"	*10.0*		*157*	*70-130*			*S-02*
Matrix Spike (0F07002-MS1)		**Source: MJF0058-01**		Prepared & Analyzed: 06/07/00						
Purgeable Hydrocarbons	264	50.0	ug/l	250	ND	106	60-140			
Surrogate: a,a,a-Trifluorotoluene	*15.8*		"	*10.0*		*158*	*70-130*			*S-02*
Matrix Spike Dup (0F07002-MSD1)		**Source: MJF0058-01**		Prepared & Analyzed: 06/07/00						
Purgeable Hydrocarbons	261	50.0	ug/l	250	ND	104	60-140	1.14	25	
Surrogate: a,a,a-Trifluorotoluene	*15.0*		"	*10.0*		*150*	*70-130*			*S-02*

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San Jose CA, 95112	Project Manager: Nick Sudano	06/20/00 16:36

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
Batch 0F20005 - EPA 5030B [P/T]										
Blank (0F20005-BLK1)				Prepared & Analyzed: 06/14/00						
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*8.91*		"	*10.0*		*89.1*	*70-130*			
LCS (0F20005-BS1)				Prepared & Analyzed: 06/14/00						
Methyl tert-butyl ether	7.74	1.00	ug/l	10.0		77.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*7.21*		"	*10.0*		*72.1*	*70-130*			
Matrix Spike (0F20005-MS1)		**Source: MJF0056-01**		Prepared & Analyzed: 06/14/00						
Methyl tert-butyl ether	34400	2000	ug/l	20000	24000	52.0	70-130			Q-01
Surrogate: 1,2-Dichloroethane-d4	*8.75*		"	*10.0*		*87.5*	*70-130*			
Matrix Spike Dup (0F20005-MSD1)		**Source: MJF0056-01**		Prepared & Analyzed: 06/14/00						
Methyl tert-butyl ether	32400	2000	ug/l	20000	24000	42.0	70-130	5.99	25	Q-01
Surrogate: 1,2-Dichloroethane-d4	*8.97*		"	*10.0*		*89.7*	*70-130*			

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Notes and Definitions

M-03	Sample was analyzed at a second dilution per clients request.
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

BLAINE TECH SERVICES INC.
1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY 000601 F3

CLIENT: Equiva - Karen Petryna

SITE: 8930 Bancroft Ave.
Oakland, CA

C - COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

LAB: Sequoia DHS #

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

☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION

MJF0068

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995742

Send report to Blaine Tech Services

Attn: ~~Ann Pember~~ NICK SUDANO

SAMPLE I.D.	Date	Time	MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	40 ml HCl VOAS	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 #
MW-1	6-1-00	1406	W	3	X	X	X					01				
MW-2		1512				X	X					02	* "Confirm Highest MTBE Hit by EPA 8260"			
MW-3		1422				X	X					03				
MW-4		1458				X	X					04				
MW-5		1524				X	X					05				
MW-6		1442				X	X					06				

SAMPLING COMPLETED: DATE 6-1-00 TIME 1524

SAMPLING PERFORMED BY: mike steward

RESULTS NEEDED NO LATER THAN

	DATE	TIME		DATE	TIME
RELEASED BY			RECEIVED BY		
RELEASED BY	6/2/00	10:45	RECEIVED BY	6/2/00	1045
RELEASED BY			RECEIVED BY		

SHIPPED VIA | DATE SENT | TIME SENT | COOLER # |

WELL GAUGING DATA

Project # 000601 F3 Date 6-1-00 Client Equiva

Site 9930 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					13.71	16.81		
MW-2	3					11.46	19.63		
MW-3	3					11.85	19.69		
MW-4	3					11.50	19.49		
MW-5	3					12.15	19.60		
MW-6	3					11.13	19.67		

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000601 F3	Site: 204-5508-1305
Sampler: MIKE S.	Date: 6-1-00
Well I.D.: MW-1	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 16.81	Depth to Water: 13.71
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:
- Bailer
- Disposable Bailer
- Middleburg
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

1.1 (Gals.) X	3	=	3.4 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^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1402	68.7	6.9	429	25	2	clear
1403	69.3	6.8	425	120	3	cloudy
1404	69.1	6.8	424	>200	4	Brown

Did well dewater? Yes (No)	Gallons actually evacuated: 4
Sampling Time: 1406	Sampling Date: 6-1-00
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:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 020601 F3	Job # 204-5508-1305
Sampler: MIKE S.	Date: 6-1-00
Well I.D.: MW-2	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.69	Depth to Water: 11.46
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 / X Electric Submersible / Extraction Pump / Other: ___

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

3.0 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 9.0 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1508	72.3	7.0	417	7200	3	BROWN/ODOR
1509	72.4	6.9	409	7200	6	↓ ↓
1510	72.4	6.9	418	7200	9	

Did well dewater? Yes (No) Gallons actually evacuated: 9

Sampling Time: 1512 Sampling Date: 6-1-00

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

BTS #: 000601 F3	Site: 204 - 5508 - 1305
Sampler: Mike S.	Date: 6-1-00
Well I.D.: MW-3	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 19.69	Depth to Water: 11.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:
- Bailer
- Disposable Bailer
- Middleburg
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

2.9 (Gals.) X 3 = 8.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1418	68.7	6.8	639	>200	3	
1419	65.1	6.9	647	>200	6	
1420	69.0	6.9	643	>200	9	

Did well dewater? Yes (No)		Gallons actually evacuated: 9	
Sampling Time: 1422		Sampling Date: 6-1-00	
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):	Pre-purge:	mV	Post-purge: mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 000601 f3	Job # 204-5508-1305
Sampler: Mike S.	Date: 6-1-00
Well I.D.: MW-4	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.49	Depth to Water: 11.50
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: ___

2.9 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 8.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1454	71.2	6.7	613	25	3	
1455	71.9	6.5	467	[redacted] 7200	6	
1456	72.3	6.5	465	[redacted] 7200	9	

Did well dewater? Yes (No)	Gallons actually evacuated: 9
Sampling Time: 1458	Sampling Date: 6-1-00
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 #: 000601 F3	Job # 204-5508-1305
Sampler: Mike S.	Date: 6-1-00
Well I.D.: MW-5	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.60	Depth to Water: 12.15
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 / (X) Electric Submersible Extraction Pump / Other: ___

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

2.7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 8.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1520	71.9	6.9	525	7200	3	BROWN
1521	72.4	6.8	530	7200	6	↓
1522	72.7	6.7	534	7200	9	

Did well dewater? Yes (No)		Gallons actually evacuated: 9	
Sampling Time: 1524		Sampling Date: 6-1-00	
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 #: 000601 f3	Job # 204-5508-1305
Sampler: MIKE S.	Date: 6-1-00
Well I.D.: MW-6	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 19.67	Depth to Water: 11.13
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 / X Electric Submersible / Extraction Pump / Other: _____

Sampling Method: X Bailer / Extraction Port / Other: _____

3.1 (.1 Case Volume (Gals.)) X 3 (Specified Volumes) = 9.4 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1438	68.5	6.9	389	>200	4	Black/odor
1439	68.9	6.8	393	169	8	✓ ✓
1440	69.3	6.8	397	>200	10	

Did well dewater? Yes (No) Gallons actually evacuated: 10

Sampling Time: 1442 Sampling Date: 6-1-00

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

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