CAMBRIA

March 29, 2001

APR 0 2 2001

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

113

Re: **Fourth Quarter 2000 Monitoring Report and Letter Response**
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995746
Cambria Project #243-0897-002

Dear Mr. Chan:

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

FOURTH QUARTER 2000 ACTIVITIES

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

Joint sampling of the Shell-branded site and the adjacent Chevron site was coordinated with Gettler Ryan Inc. during the fourth quarter 2000. However, joint sampling with the adjacent BP Oil Company site was not performed since that site is monitored annually.

Agency Letter Response: The Alameda County Health Care Services Agency (ACHCSA) sent a letter dated December 11, 2000 to Equiva. Presented below are responses to the five comments made by the ACHCSA in the letter. The ACHCSA comments are bolded and italicized.

1. Even though a monitoring well was not able to be installed at the location of SB-4, adjacent to the existing building, the soil and groundwater results from this boring are elevated and indicate a potential human health risk to the commercial workers at the site. Will remediation be considered in this area? If so, what type?

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

Cambria will implement a program of monthly dual-vacuum extraction (DVE) from well S-2 and tank backfill well BW-A for a period of 6 months. A future quarterly monitoring report will evaluate and discuss the radius of influence of groundwater and vapor extraction and the effectiveness of the DVE program.

2. The gradient at this site has been from northeast to northwest. However, the report states a general east to southeast direction. Please compile a rose diagram indicating this historic gradient direction.

Using the gradient direction from eight different monitoring events, and the groundwater elevation from the adjacent Chevron Service Station Cambria has prepared a rose diagram which interprets the historic groundwater gradient at the site. The rose diagram is presented on Figure 1. (W-NW)

3. Your receptor survey did not identify any water wells or surface water bodies that might be impacted, however, I was hoping for the survey to corroborate the absence of basements as reported by Chevron's past survey.

Cambria will review Chevron's receptor survey report to determine the adequacy of their study regarding basements in the area. We will also perform an area reconnaissance to determine whether there are any basements at the residences immediately downgradient of the site. A future quarterly monitoring report will discuss the presence or absence of basements downgradient of the site.

4. Though your report presents a map of the utilities, your report fails to provide an interpretations of the fate of any preferential groundwater transportation and an evaluation of its risk.

Cambria will perform a dilution attenuation factor (DAF) calculation to determine potential hydrocarbon impact to the nearest downgradient surface water body. The DAF will be presented in a forthcoming report.

need to sample + test.

5. This report states that a total of 2800 gallons of groundwater was extracted from BW-A on July 30 and August 4, 1999. Groundwater extraction was to be done on both wells S-2 and BW-A weekly and its effectiveness evaluated. Because of the long-term elevated TPHg, BTEX, and MTBE levels at this site, groundwater extraction should continue to be done on a routine basis, at a minimum. Please indicate your current groundwater extraction schedule. Can well S-4 be added to this remediation?

As stated above, Cambria will implement monthly DVE to address both benzene and MTBE in groundwater and soil in the area surrounding the existing USTs. At present, the relatively low

analyte concentrations in groundwater from S-4 do not appear to warrant remediation using that well.

ANTICIPATED FIRST QUARTER 2001 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report. Cambria will continue to coordinate joint with adjacent sites.

CLOSING

We appreciate the opportunity to work with you on this project. Please call James Loetterle at (510) 420-3336 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

James Loettele
Staff Geologist

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

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

Figure: 1 - Groundwater Elevation Contour Map

Table: 1 - Groundwater Analytical Data - Bioattenuation Parameters .

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
Walter G. & Jeanette P Watters, 101 Jasmine Creek Dr., Corona Del Mar, CA 92665
J.T. & Elizabeth G. Watters, 600 Caldwell Road, Oakland, CA 94611

g:\oakland 4411foothill\qm\4q00qm.doc

03/27/01

Groundwater Elevation Contour Map

December 4, 2000

EXPLANATION

- S-1 — Monitoring well location
- BW-A — Tank backfill well location
- MW-3 — Recovery well
- * — Data anomalous, not used for contouring
- → — 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

FIGURE

1

CAMBRIA

Shell-branded Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995746

G:\OAKLAND\4411FOOTHILL\FIGURES\4QM00-MP.AI

Table 1. **Groundwater Analytical Data - Bioattenuation Parameters** - Shell-branded Service Station Incident #98995746, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	Depth to Water (feet)	TPHg (ppb)	Motor Oil	Ferrous Iron	Nitrate as Nitrate	Sulfate	DO	ORP (millivolts)	Notes
				← (Concentrations in ppm) →						
S-1	03/16/98	6.00	26,000	---	1.9	<1.0	<1.0	5.3/3.7	158/155	
	06/23/98	6.31	<1,000	---	2.0	<1.0	5.9	3.8/2.4	117/94	
	09/01/98	9.17	26,000	---	4.5	<1.0	12	1.4/2.6	-85/-51	
	12/30/98	8.99	29,900	0.334	4.1	<1.0	6.2	1.6/2.0	-25/-62	
	03/30/99	6.10	14,200	0.279	0.880	0.115	6.10	1.2/1.8	-56/-39	
	06/14/99	7.94	20,200	---	1.30	<1.00	5.70	1.4/2.1	-72/-24	
	09/30/99	10.04	18,300	<0.500	1.20	5.41	<5.00	4.3/2.0	-350/-70	
	12/22/99	9.42	2,450	<0.500	0.0670	<1.00	12.1	1.80/2.30	-49/-142	
	03/09/00	6.21	1,230	---	0.12	<0.10	5.3	2.0/2.9	-81/-190	a
	06/20/00	9.18	755	<0.500	0.451	<1.00	14.8	2.0/2.4	-37/12	
	09/05/00	10.14	2,980	0.546	0.0291	<1.00	9.72	0.6/0.3	35/-70	
	12/04/00	**10.10**	**399**	**---**	**0.0257**	**<1.00**	**10.2**	**8.6/9.8**	**-149/-204**	
S-2	03/16/98	7.97	1,100	---	1.7	<1.0	17	7.0/4.3	147/149	
	06/23/98	8.20	720	---	4.3	<1.0	5.7	4.2/3.8	128/134	
	06/23/98	8.20	810	---	3.7	<1.0	5.4	4.2/3.8	128/134	duplicate
	09/01/98	9.85	<2,000	---	4.1	<1.0	7.8	1.9/1.6	-26/-11	
	12/30/98	9.84	<5,000	---	1.9	<1.0	10	2.0/1.8	-54/-36	
	03/30/99	8.41	<2,000	---	<0.100	<0.100	8.51	2.1/1.8	-10/-08	
	06/14/99	9.80	<1,000	---	1.40	<1.00	5.20	2.4/2.1	-121/-113	
	09/30/99	10.58	678	<0.500	0.260	5.36	14.0	5.1/4.8	-172/-42	
	12/22/99	10.13	316	<0.500	0.0540	<1.00	24.3	9.60/5.20	-90/-46	
	03/09/00	7.88	2,670	---	0.019	<0.10	6.3	7.6/5.0	58/504	
	06/20/00	10.27	<5,000	<0.500	0.499	<1.00	11.6	1.9/2.2	7/21	
	09/05/00	10.19	<5,000	<0.500	0.885	<1.00	9.36	0.5/1.6	-30/-50	
	12/04/00	**10.30**	**<250**	**---**	**0.116**	**<1.00**	**15.9**	**10.6/9.4**	**68/505**	
S-3	03/16/98	5.75	29,000	---	3.8	<1.0	12	3.0/3.4	153/142	
	06/23/98	5.98	3,800	---	2.0	<1.0	8.9	4.2/2.0	119/121	
	09/01/98	8.98	9,600	---	2.7	<1.0	7.3	1.9/2.8	57/35	
	09/01/98	8.98	9,200	---	2.2	<1.0	7.2	1.9/2.8	57/35	duplicate

Table 1. **Groundwater Analytical Data - Bioattenuation Parameters** - Shell-branded Service Station Incident #98995746, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	Depth to Water (feet)	TPHg (ppb)	Motor Oil	Ferrous Iron	Nitrate as Nitrate	Sulfate	DO	ORP (millivolts)	Notes
				← (Concentrations in ppm) →						
	12/30/98	9.11	7,660	---	5.2	<1.0	5.9	1.8/1.6	75/54	
	03/30/99	6.95	2,070	---	<0.100	0.689	17.5	1.3/1.5	72/61	
	06/14/99	8.85	1,250	---	4.10	<1.00	15.0	1.6/1.2	-118/-108	
	09/30/99	9.66	8,270	<0.500	0.440	5.89	7.69	3.5/2.8	-140/-70	
	12/22/99	9.50	9,530	<0.500	1.30	<1.00	5.65	0.98/0.80	16/-57	
	03/09/00	6.25	2,290	---	0.046	4.9	16	1.0/1.4	-163/-110	a
	06/20/00	9.67	5,570	<0.500	0.639	6.92	19.8	1.8/2.0	-102/-92	
	09/05/00	9.49	6,930	<0.500	2.53	<1.00	5.36	1.1/1.9	-24/-47	
	12/04/00	**9.23**	**8,390**	**---**	**2.77**	**<1.00**	**<5.00**	**1.1/15**	**-175/-159**	
S-4	03/31/00	8.92	20,900	---	3.23	<1.00	<5.00	1.8/1.2	-25/-37	
	06/20/00	8.77	19,500	<0.500	0.814	<1.00	11.2	2.7/2.9	3/-78	
	09/05/00	10.57	5,760	<0.500	5.62	<1.00	15.9	1.3/0.3	-90/-74	
	12/04/00	**10.67**	**3,990**	**---**	**6.47**	**<1.00**	**14.1**	**1.1/1.0**	**-224/-202**	
Ideal Aerobic Degradation Relationship:					Direct	Inverse	Inverse	Inverse	Direct	
Observed Relationship:					Inconclusive	Inconclusive	Moderately inverse	Moderately inverse	Inconclusive	

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
Motor Oil = Extractable hydrocarbons as motor oil by modified EPA Method 8015
DO = Dissolved oxygen (pre-purge / post-purge)
ORP = Oxidation reduction potential (pre-purge / post-purge)
ppb = Parts per billion
ppm = Parts per million
<n = Below detection limit of n units
Ferrous iron by modified EPA Method 200.7
Nitrate as nitrate and sulfate by EPA Method 300.0

a = TPHg result was generated out of hold time

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

January 23, 2001

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

Fourth Quarter 2000 Groundwater Monitoring at
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA

Monitoring performed on December 4 and 12, 2000

Groundwater Monitoring Report **001204-Z-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, 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 Martinez Refining Company.

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

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

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. 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 Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street, Ste. C
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

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)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	12/18/1992	41,000	NA	3,100	1,100	1,200	8,700	NA	NA	38.31	9.06	NA	NA
S-1	05/26/1993	39,000	6,000	1,300	4,700	1,500	7,800	NA	NA	38.31	NA	NA	NA
S-1	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	12.13	26.18	NA
S-1	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	8.89	29.42	NA
S-1	06/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	8.80	29.51	NA
S-1	09/21/1993	34,000	5,900	480	5,000	3,800	18,000	NA	NA	38.31	10.40	27.91	NA
S-1	12/14/1993	25,000	13,000	1,100	5,000	2,200	11,000	NA	NA	38.31	9.66	28.65	NA
S-1	03/17/1994	57,000	1,600	1,300	5,400	2,100	11,000	NA	NA	38.31	8.20	30.11	NA
S-1	06/16/1994	57,000	3,000	1,600	6,000	2,000	13,000	NA	NA	38.31	9.41	28.90	NA
S-1	09/22/1994	39,000	ND	1,300	2,100	1,500	7,100	NA	NA	38.31	11.13	27.18	NA
S-1 a	12/15/1994	30,000	3,100	1,100	4,700	1,600	10,000	NA	NA	38.31	7.15	31.16	NA
S-1 a, b	03/30/1995	30,000	3,100	1,400	4,000	1,500	11,000	NA	NA	38.31	6.09	32.22	NA
S-1	06/2019/95	28,000	2,100	1,100	2,300	1,100	8,300	NA	NA	38.31	7.30	31.01	NA
S-1	09/20/1995	40,000	2,600	840	3,600	1,300	8,600	NA	NA	38.31	10.02	28.29	NA
S-1 a	12/06/1995	38,000	6,400	920	3,200	1,500	9,400	NA	NA	38.31	11.64	26.67	NA
S-1	03/21/1996	48,000	NA	700	4,200	1,100	8,600	NA	NA	38.31	6.87	31.44	NA
S-1	09/06/1996	41,000	4,100	830	2,600	2,100	12,000	<250	NA	38.31	10.50	27.81	NA
S-1	12/19/1996	40,000	2,500	540	3,100	1,900	9,800	920	NA	38.31	8.24	30.07	NA
S-1	03/17/1997	42,000	4,700	610	2,700	1,700	11,000	3,500	NA	38.31	7.26	31.05	NA
S-1	06/11/1997	28,000	4,000	540	960	1,300	5,300	220	NA	38.31	10.69	27.62	NA
S-1 (D)	06/11/1997	30,000	3,900	580	1,000	1,400	5,400	<125	NA	38.31	10.69	27.62	NA
S-1	09/17/1997	27,000	4,400	310	1,200	1,900	9,000	170	NA	38.31	10.26	28.05	NA
S-1 (D)	09/17/1997	27,000	4,400	270	1,200	1,900	9,000	170	NA	38.31	10.26	28.05	NA
S-1	12/11/1997	21,000	3,400	350	820	1,500	6,500	<125	NA	38.31	6.96	31.35	NA
S-1	03/16/1998	25,000	2,500	250	820	670	5,000	<125	NA	38.31	6.00	32.31	NA
S-1 (D)	03/16/1998	26,000	NA	250	840	720	5,100	<125	NA	38.31	6.00	32.31	5.3/3.7
S-1	06/23/1998	<1,000	230	280	14	23	15	6,100	7,800	38.31	6.31	32.00	3.8/2.4
S-1	09/01/1998	26,000	2,300	370	620	1,300	33	1,400	120	38.31	9.17	29.14	1.4/2.6

WELL CONCENTRATIONS
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

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)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	12/30/1998	29,900	1,970	174	732	1,680	5,740	182	NA	38.31	8.99	29.32	1.6/2.0
S-1	03/30/1999	14,200	1,150	1,360	260	1,070	3,580	<500	90.0	38.31	6.10	32.21	1.2/1.8
S-1	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	38.31	7.84	30.47	NA
S-1	06/14/1999	20,200	4,280	135	407	825	5,000	705	NA	38.31	7.94	30.37	1.4/2.1
S-1	09/30/1999	18,300	3,120	189	531	1,250	4,740	322	NA	38.31	10.04	28.27	4.3/2.0
S-1	12/22/1999	2,450	444a	50.2	97.5	139	458	133	NA	38.31	9.42	28.89	1.8/2.3
S-1	03/09/2000	1,230d	1,200a	21.2d	115d	116d	411d	45.1d	NA	38.30	6.21	32.09	2.0/2.9
S-1	06/20/2000	755	352a	26.0	48.4	43.1	230	71.5	NA	38.30	9.18	29.12	2.0/2.4
S-1	09/05/2000	2,980	783a	43.5	117	168	871	192	NA	38.30	10.14	28.16	0.6/0.3
S-1	**12/04/2000**	**399**	**238a**	**5.34**	**14.6**	**36.2**	**106**	**24.9**	**NA**	**38.30**	**10.10**	**28.20**	**8.6/9.8**
S-1	**12/12/2000**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**38.30**	**9.22**	**29.08**	**NA**
S-2	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.51	29.28	NA
S-2	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.51	29.28	NA
S-2	06/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.57	29.22	NA
S-2	06/29/1993	1,300	NA	290	35	38	130	NA	NA	38.79	NA	NA	NA
S-2	09/21/1993	3,300	NA	870	24	190	120	NA	NA	38.79	10.54	28.25	NA
S-2	12/14/1993	1,300	NA	400	16	36	27	NA	NA	38.79	9.76	29.03	NA
S-2	03/17/1994	4,500	NA	610	27	92	110	NA	NA	38.79	9.92	28.87	NA
S-2 (D)	03/17/1994	4,000	NA	610	26	93	120	NA	NA	38.79	9.92	28.87	NA
S-2	06/16/1994	2,800	NA	690	45	97	140	NA	NA	38.79	10.11	28.68	NA
S-2	09/22/1994	4,000	NA	630	94	64	230	NA	NA	38.79	10.51	28.28	NA
S-2	12/15/1994	1,600	NA	450	300	67	130	NA	NA	38.79	9.12	29.67	NA
S-2 b	03/30/1995	8,200	NA	2,800	190	240	700	NA	NA	38.79	7.86	30.93	NA
S-2	06/20/1995	9,600	NA	2,600	160	170	500	NA	NA	38.79	9.51	29.28	NA
S-2	09/20/1995	4,200	NA	920	45	98	140	NA	NA	38.79	10.06	28.73	NA
S-2	12/06/1995	<5,000	NA	790	67	64	130	NA	NA	38.79	10.52	28.27	NA
S-2	03/21/1996	3,700	NA	850	45	96	170	NA	NA	38.79	8.60	30.19	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

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)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	09/06/1996	2,400	NA	500	33	39	84	490	NA	38.79	10.50	28.29	NA
S-2	12/19/1996	1,200	NA	330	15	24	31	430	NA	38.79	9.40	29.39	NA
S-2	03/17/1997	4,100	NA	780	42	110	120	2,200	NA	38.79	9.82	28.97	NA
S-2	06/11/1997	760	NA	120	<5.0	7.0	7.6	900	NA	38.79	10.18	28.61	NA
S-2	09/17/1997	1,500	NA	230	8.6	40	27	480	NA	38.79	9.90	28.89	NA
S-2	12/11/1997	1,300	NA	240	15	33	57	280	NA	38.79	8.27	30.52	NA
S-2	03/16/1998	1,100	NA	830	48	<10	<10	4,700	4,800	38.79	7.97	30.82	7.0/4.3
S-2	06/23/1998	720	NA	46	6.8	50	68	50	8.8	38.79	8.20	30.59	4.2/3.8
S-2 (D)	06/23/1998	810	NA	49	7.1	50	70	49	8.8	38.79	8.20	30.59	4.2/3.8
S-2	09/01/1998	<2,000	NA	170	<20	<20	<20	9,300	12,000	38.79	9.85	28.94	1.9/1.6
S-2	12/30/1998	<5,000	NA	369	<50	<50	<50	14,300	NA	38.79	9.84	28.95	2.0/1.8
S-2	03/30/1999	<2,000	NA	234	<20.0	27.4	36.9	49,200	53,000	38.79	8.41	30.38	2.1/1.8
S-2	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	38.79	8.67	30.12	NA
S-2	06/14/1999	<1,000	NA	175	<10.0	<10.0	11.1	67,500	NA	38.79	9.80	28.99	NA
S-2	09/30/1999	678	177a	135	8.22	14.9	25.8	17,100	17,000c	38.79	10.58	28.21	5.1/4.8
S-2	12/22/1999	316	142a	55.8	10.1	5.26	10.4	9,410	8,810	38.79	10.13	28.66	9.6/5.2
S-2	03/09/2000	2,670	630a	1,190d	62.7	84.1	125	29,200d	31,400c	38.78	7.88	30.90	7.6/5.0
S-2	06/20/2000	<5,000	401a	348	<50.0	50.4	127	35,800	33,900c	38.78	10.27	28.51	1.9/2.2
S-2	09/05/2000	<5,000	373a	106	<50.0	<50.0	<50.0	25,800	37,100c	38.78	10.19	28.59	0.5/1.6
S-2	**12/04/2000**	**<250**	**1,730a**	**4.37**	**<2.50**	**<2.50**	**<2.50**	**4,500**	**5,130c**	**38.78**	**10.30**	**28.48**	**10.6/9.4**
S-2	**12/12/2000**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**38.78**	**9.66**	**29.12**	**NA**
S-3	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.45	28.88	NA
S-3	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.36	28.97	NA
S-3	01/19/1900	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.41	28.92	NA
S-3	06/29/1993	29,000	NA	1,500	1,800	950	6,200	NA	NA	37.33	NA	NA	NA
S-3	09/21/1993	15,000	NA	900	2,200	2,600	11,000	NA	NA	37.33	10.08	27.25	NA
S-3	12/94/1993	20,000	NA	1,100	2,400	1,800	8,500	NA	NA	37.33	8.80	28.53	NA

Why was this sample taken?

WELL CONCENTRATIONS
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

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)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	03/17/1994	14,000	NA	580	190	750	1,700	NA	NA	37.33	8.34	28.99	NA
S-3	06/16/1994	20,000	NA	700	690	1,400	4,100	NA	NA	37.33	9.12	28.21	NA
S-3 (D)	06/16/1994	19,000	NA	680	560	1,300	3,700	NA	NA	37.33	NA	NA	NA
S-3	09/22/1994	24,000	NA	630	1,100	1,400	5,700	NA	NA	37.33	10.27	27.06	NA
S-3 (D)	09/22/1994	25,000	NA	720	1,100	1,500	6,100	NA	NA	37.33	NA	NA	NA
S-3	12/15/1994	18,000	NA	520	800	1,100	4,200	NA	NA	37.33	7.81	29.52	NA
S-3 (D)	12/15/1994	23,000	NA	1,000	1,900	2,000	8,600	NA	NA	37.33	NA	NA	NA
S-3 b	03/30/1995	8,800	NA	360	730	700	3,700	NA	NA	37.33	7.06	30.27	NA
S-3 (D)	03/30/1995	7,600	NA	330	570	600	2,600	NA	NA	37.33	NA	NA	NA
S-3	06/20/1995	9,600	NA	510	170	960	1,700	NA	NA	37.33	8.15	29.18	NA
S-3 (D)	06/20/1995	9,800	NA	500	170	950	1,700	NA	NA	37.33	NA	NA	NA
S-3	09/20/1995	21,000	NA	400	560	1,300	4,600	NA	NA	37.33	9.32	28.01	NA
S-3	12/06/1995	24,000	NA	630	1,400	1,400	6,000	NA	NA	37.33	10.53	26.80	NA
S-3 (D)	12/06/1995	22,000	NA	630	1,200	1,400	5,500	NA	NA	37.33	NA	NA	NA
S-3	03/21/1996	9,100	NA	290	110	490	1,600	NA	NA	37.33	7.32	30.01	NA
S-3 (D)	03/21/1996	11,000	NA	310	250	540	2,100	NA	NA	37.33	NA	NA	NA
S-3	09/06/1996	15,000	NA	440	300	1,100	3,000	500	NA	37.33	10.10	27.23	NA
S-3 (D)	09/06/1996	11,000	NA	490	170	820	1,500	700	NA	37.33	NA	NA	NA
S-3	12/19/1996	12,000	NA	600	380	850	2,500	380	NA	37.33	8.36	28.97	NA
S-3 (D)	12/19/1996	12,000	NA	590	380	830	2,500	540	NA	37.33	8.36	28.97	NA
S-3	03/17/1997	12,000	NA	520	140	740	1,400	320	NA	37.33	8.57	28.76	NA
S-3 (D)	03/17/1997	9,600	NA	500	100	680	1,100	<250	NA	37.33	8.57	28.76	NA
S-3	06/11/1997	9,600	NA	510	94	740	1,100	410	NA	37.33	9.26	28.07	NA
S-3	09/17/1997	21,000	NA	140	560	1,800	7,200	130	NA	37.33	9.62	27.71	NA
S-3	12/11/1997	24,000	NA	530	970	1,600	6,900	950	NA	37.33	7.34	29.99	NA
S-3 (D)	12/11/1997	29,000	NA	520	1,000	1,600	7,300	970	NA	37.33	7.34	29.99	NA
S-3	03/16/1998	29,000	NA	840	810	1,700	6,000	<250	NA	37.33	5.75	31.58	3.0/3.4
S-3	06/23/1998	3,800	NA	90	220	240	1,400	<50	NA	37.33	5.98	31.35	4.2/2.0

WELL CONCENTRATIONS
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

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)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	09/01/1998	9,600	NA	480	120	870	1,800	490	<50	37.33	8.98	28.35	1.9/2.8
S-3 (D)	09/01/1998	9,200	NA	420	110	800	1,700	110	<50	37.33	8.98	28.35	1.9/2.8
S-3	12/30/1998	7,660	NA	240	103	410	834	64.9	NA	37.33	9.11	28.22	1.8/1.6
S-3	03/30/1999	2,070	NA	195	10.0	<5.00	48.6	354	64.6	37.33	6.95	30.38	1.3/1.5
S-3	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	37.33	7.48	29.85	NA
S-3	06/14/1999	1,250	NA	37.4	17.4	110	109	118	NA	37.33	8.85	28.48	NA
S-3	09/30/1999	8,270	2,020a	226	113	686	1,440	184	NA	37.33	9.66	27.67	3.5/2.8
S-3	12/22/1999	9,530	2,270a	207	132	603	1,450	616	NA	37.33	9.50	27.83	0.98/0.8
S-3	03/09/2000	2,290d	1,600a	84.5d	17.0d	104d	105d	29.3d	NA	37.30	6.25	31.05	1.0/1.4
S-3	06/20/2000	5,570	2,900a	117	41.6	395	393	354	NA	37.30	9.67	27.63	1.8/2.0
S-3	09/05/2000	6,930	1,600a	127	85.5	354	535	509	NA	37.30	9.49	27.81	1.1/1.9
S-3	**12/04/2000**	**8,390**	**1,460a**	**217**	**82.4**	**471**	**952**	**436**	**NA**	**37.30**	**9.23**	**28.07**	**1.1/1.5**
S-3	**12/12/2000**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**37.30**	**9.23**	**28.07**	**NA**
S-4	03/29/2000	NA	NA	NA	NA	NA	NA	NA	NA	39.06	8.37	30.69	NA
S-4	03/31/2000	20,900	5,780a	4,570	272	595	997	4,490	4,450c	39.06	8.92	30.14	1.8/1.2
S-4	06/20/2000	19,500	244a	4,590	309	723	1,290	3,740	NA	39.06	8.77	30.29	2.7/2.9
S-4	09/05/2000	5,760	1,670a	841	54.2	162	115	1,040	NA	39.06	10.57	28.49	1.3/0.3
S-4	**12/04/2000**	**3,990**	**1,050a**	**949**	**<10.0**	**118**	**48.3**	**1,120**	**NA**	**39.06**	**10.67**	**28.39**	**1.1/1.0**
S-4	**12/12/2000**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**39.06**	**10.64**	**28.42**	**NA**
BW-A	09/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	NA	2.3
BW-A	12/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.52	NA	2.2
BW-A	03/09/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.99	NA	1.5
BW-A	06/20/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.69	NA	2.4
BW-A	09/05/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.43	NA	1.0
BW-A	**12/04/2000**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**8.96**	**NA**	**1.3**
BW-A	**12/12/2000**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**8.71**	**NA**	**NA**

WELL CONCENTRATIONS
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

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)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

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
TOB = Top of Box Elevation
GW = Groundwater
DO = Dissolved Oxygen
ug/L = parts per billion
ppm = parts per million
msl = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample
n/n = Pre-purge / Post-purge
NA = Not applicable

Notes:
a = Chromatogram pattern indicates an unidentified hydrocarbon.
b = National Environmental Testing, Inc. (NET), analyzed within hold time but
further dilutions were required and analyzed out of hold time.
NET suggests that these should be considered minimum concentrations.
c = Sample analyzed outside the EPA recommended holding times.
d = Result reported was generated out of hold time.
Wells S-1 through S-4 surveyed February 3, 2000 by Virgil Chavez Land Surveying of Vallejo, California.

Sequoia
Analytical

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

3 January, 2001

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

RE: 4411 Foothill Blvd.
Sequoia Report: MJL0262

Enclosed are the results of analyses for samples received by the laboratory on 12/05/00 11:38. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson
Client Services 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: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	MJL0262-01	Water	12/04/00 09:50	12/05/00 11:38
S-2	MJL0262-02	Water	12/04/00 12:27	12/05/00 11:38
S-3	MJL0262-03	Water	12/04/00 11:30	12/05/00 11:38
S-4	MJL0262-04	Water	12/04/00 10:30	12/05/00 11:38

Wayne Stevenson, Client Services 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: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

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
S-1 (MJL0262-01) Water Sampled: 12/04/00 09:50 Received: 12/05/00 11:38									
Purgeable Hydrocarbons	**399**	50.0	ug/l	1	0L12003	12/12/00	12/12/00	DHS LUFT	P-01
Benzene	**5.34**	0.500	"	"	"	"	"	"	
Toluene	**14.6**	0.500	"	"	"	"	"	"	
Ethylbenzene	**36.2**	0.500	"	"	"	"	"	"	
Xylenes (total)	**106**	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**24.9**	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.1 %*	*70-130*		"	"	"	"	
S-2 (MJL0262-02) Water Sampled: 12/04/00 12:27 Received: 12/05/00 11:38									
Purgeable Hydrocarbons	ND	250	ug/l	5	0L15004	12/15/00	12/15/00	DHS LUFT	R-05
Benzene	**4.37**	2.50	"	"	"	"	"	"	R-05
Toluene	ND	2.50	"	"	"	"	"	"	R-05
Ethylbenzene	ND	2.50	"	"	"	"	"	"	R-05
Xylenes (total)	ND	2.50	"	"	"	"	"	"	R-05
Methyl tert-butyl ether	**4500**	250	"	100	"	"	12/14/00	"	A-01,M-03
Surrogate: a,a,a-Trifluorotoluene		*94.9 %*	*70-130*		"	"	*12/15/00*	"	
S-3 (MJL0262-03) Water Sampled: 12/04/00 11:30 Received: 12/05/00 11:38									
Purgeable Hydrocarbons	**8390**	500	ug/l	10	0L12003	12/12/00	12/12/00	DHS LUFT	P-01
Benzene	**217**	5.00	"	"	"	"	"	"	P-01
Toluene	**82.4**	5.00	"	"	"	"	"	"	
Ethylbenzene	**471**	5.00	"	"	"	"	"	"	
Xylenes (total)	**952**	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	**436**	25.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*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: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

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
S-4 (MJL0262-04) Water Sampled: 12/04/00 10:30 Received: 12/05/00 11:38									
Purgeable Hydrocarbons	**3990**	1000	ug/l	20	0L12005	12/12/00	12/12/00	DHS LUFT	P-01
Benzene	**949**	10.0	"	"	"	"	"	"	
Toluene	ND	10.0	"	"	"	"	"	"	
Ethylbenzene	**118**	10.0	"	"	"	"	"	"	
Xylenes (total)	**48.3**	10.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**1120**	50.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*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: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-1 (MJL0262-01) Water Sampled: 12/04/00 09:50 Received: 12/05/00 11:38									
Diesel Range Hydrocarbons	**238**	50.0	ug/l	1	0L15026	12/15/00	12/15/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		*99.0 %*	*50-150*		"	"	"	"	
S-2 (MJL0262-02) Water Sampled: 12/04/00 12:27 Received: 12/05/00 11:38									
Diesel Range Hydrocarbons	**1730**	50.0	ug/l	1	0L15026	12/15/00	12/15/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		*113 %*	*50-150*		"	"	"	"	
S-3 (MJL0262-03) Water Sampled: 12/04/00 11:30 Received: 12/05/00 11:38									
Diesel Range Hydrocarbons	**1460**	50.0	ug/l	1	0L15026	12/15/00	12/15/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		*94.5 %*	*50-150*		"	"	"	"	
S-4 (MJL0262-04) Water Sampled: 12/04/00 10:30 Received: 12/05/00 11:38									
Diesel Range Hydrocarbons	**1050**	50.0	ug/l	1	0L15026	12/15/00	12/15/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		*103 %*	*50-150*		"	"	"	"	

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-2 (MJL0262-02) Water Sampled: 12/04/00 12:27 Received: 12/05/00 11:38									
Methyl tert-butyl ether	**5130**	100	ug/l	100	1A02024	12/25/00	12/25/00	EPA 8260A	H-02
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*		"	"	"	"	*H-02*

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-1 (MJL0262-01) Water	**Sampled: 12/04/00 09:50**	**Received: 12/05/00 11:38**							
Ferrous Iron	**0.0257**	0.0100	mg/l	1	0L21016	12/21/00	12/21/00	EPA 6010A	
S-2 (MJL0262-02) Water	**Sampled: 12/04/00 12:27**	**Received: 12/05/00 11:38**							
Ferrous Iron	**0.116**	0.0100	mg/l	1	0L21016	12/21/00	12/21/00	EPA 6010A	
S-3 (MJL0262-03) Water	**Sampled: 12/04/00 11:30**	**Received: 12/05/00 11:38**							
Ferrous Iron	**2.77**	0.0100	mg/l	1	0L21016	12/21/00	12/21/00	EPA 6010A	
S-4 (MJL0262-04) Water	**Sampled: 12/04/00 10:30**	**Received: 12/05/00 11:38**							
Ferrous Iron	**6.47**	0.0100	mg/l	1	0L21016	12/21/00	12/21/00	EPA 6010A	

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

Anions by EPA Method 300.0

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-1 (MJL0262-01) Water Sampled: 12/04/00 09:50 Received: 12/05/00 11:38									
Nitrate as NO3	ND	1.00	mg/l	10	0L07008	12/05/00	12/05/00	EPA 300.0	
Sulfate as SO4	**10.2**	5.00	"	"	"	"	"	"	
S-2 (MJL0262-02) Water Sampled: 12/04/00 12:27 Received: 12/05/00 11:38									
Nitrate as NO3	ND	1.00	mg/l	10	0L07008	12/05/00	12/05/00	EPA 300.0	
Sulfate as SO4	**15.9**	5.00	"	"	"	"	"	"	
S-3 (MJL0262-03) Water Sampled: 12/04/00 11:30 Received: 12/05/00 11:38									
Nitrate as NO3	ND	1.00	mg/l	10	0L07008	12/05/00	12/05/00	EPA 300.0	
Sulfate as SO4	ND	5.00	"	"	"	"	"	"	
S-4 (MJL0262-04) Water Sampled: 12/04/00 10:30 Received: 12/05/00 11:38									
Nitrate as NO3	ND	1.00	mg/l	10	0L07008	12/05/00	12/05/00	EPA 300.0	
Sulfate as SO4	**14.1**	5.00	"	"	"	"	"	"	

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

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 0L12003 - EPA 5030B [P/T]										
Blank (0L12003-BLK1)				Prepared & Analyzed: 12/12/00						
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	*7.91*		"	*10.0*		*79.1*	*70-130*			
LCS (0L12003-BS1)				Prepared & Analyzed: 12/12/00						
Benzene	9.06	0.500	ug/l	10.0		90.6	70-130			
Toluene	8.37	0.500	"	10.0		83.7	70-130			
Ethylbenzene	8.32	0.500	"	10.0		83.2	70-130			
Xylenes (total)	24.8	0.500	"	30.0		82.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.14*		"	*10.0*		*91.4*	*70-130*			
Matrix Spike (0L12003-MS1)		**Source: MJL0260-06**		Prepared & Analyzed: 12/12/00						
Benzene	10.2	0.500	ug/l	10.0	ND	102	60-140			
Toluene	9.33	0.500	"	10.0	ND	93.3	60-140			
Ethylbenzene	9.25	0.500	"	10.0	ND	92.5	60-140			
Xylenes (total)	27.6	0.500	"	30.0	ND	92.0	60-140			
Surrogate: a,a,a-Trifluorotoluene	*9.16*		"	*10.0*		*91.6*	*70-130*			
Matrix Spike Dup (0L12003-MSD1)		**Source: MJL0260-06**		Prepared & Analyzed: 12/12/00						
Benzene	9.70	0.500	ug/l	10.0	ND	97.0	60-140	5.03	25	
Toluene	8.95	0.500	"	10.0	ND	89.5	60-140	4.16	25	
Ethylbenzene	8.92	0.500	"	10.0	ND	89.2	60-140	3.63	25	
Xylenes (total)	27.1	0.500	"	30.0	ND	90.3	60-140	1.83	25	
Surrogate: a,a,a-Trifluorotoluene	*8.75*		"	*10.0*		*87.5*	*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: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

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 0L12005 - EPA 5030B [P/T]										
Blank (0L12005-BLK1)				Prepared & Analyzed: 12/12/00						
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	*9.97*		"	*10.0*		*99.7*	*70-130*			
LCS (0L12005-BS1)				Prepared & Analyzed: 12/12/00						
Benzene	10.8	0.500	ug/l	10.0		108	70-130			
Toluene	10.3	0.500	"	10.0		103	70-130			
Ethylbenzene	10.3	0.500	"	10.0		103	70-130			
Xylenes (total)	30.8	0.500	"	30.0		103	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.4*		"	*10.0*		*104*	*70-130*			
Matrix Spike (0L12005-MS1)		**Source: MJL0273-04**		Prepared & Analyzed: 12/12/00						
Benzene	10.5	0.500	ug/l	10.0	ND	105	60-140			
Toluene	10.1	0.500	"	10.0	ND	101	60-140			
Ethylbenzene	10.0	0.500	"	10.0	ND	100	60-140			
Xylenes (total)	30.2	0.500	"	30.0	ND	101	60-140			
Surrogate: a,a,a-Trifluorotoluene	*10.2*		"	*10.0*		*102*	*70-130*			
Matrix Spike Dup (0L12005-MSD1)		**Source: MJL0273-04**		Prepared & Analyzed: 12/12/00						
Benzene	10.4	0.500	ug/l	10.0	ND	104	60-140	0.957	25	
Toluene	9.88	0.500	"	10.0	ND	98.8	60-140	2.20	25	
Ethylbenzene	9.75	0.500	"	10.0	ND	97.5	60-140	2.53	25	
Xylenes (total)	29.0	0.500	"	30.0	ND	96.7	60-140	4.05	25	
Surrogate: a,a,a-Trifluorotoluene	*9.88*		"	*10.0*		*98.8*	*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: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

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 0L15004 - EPA 5030B [P/T]										
Blank (0L15004-BLK1)				Prepared & Analyzed: 12/15/00						
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	*10.8*		"	*10.0*		*108*	*70-130*			
LCS (0L15004-BS1)				Prepared & Analyzed: 12/15/00						
Purgeable Hydrocarbons	233	50.0	ug/l	250		93.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.84*		"	*10.0*		*98.4*	*70-130*			
Matrix Spike (0L15004-MS1)		**Source: MJL0412-03**		Prepared & Analyzed: 12/15/00						
Purgeable Hydrocarbons	236	50.0	ug/l	250	ND	94.4	60-140			
Surrogate: a,a,a-Trifluorotoluene	*11.0*		"	*10.0*		*110*	*70-130*			
Matrix Spike Dup (0L15004-MSD1)		**Source: MJL0412-03**		Prepared & Analyzed: 12/15/00						
Purgeable Hydrocarbons	228	50.0	ug/l	250	ND	91.2	60-140	3.45	25	
Surrogate: a,a,a-Trifluorotoluene	*10.0*		"	*10.0*		*100*	*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: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

Diesel Hydrocarbons (C9-C24) 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 0L15026 - EPA 3510B										
Blank (0L15026-BLK1)				Prepared & Analyzed: 12/15/00						
Diesel Range Hydrocarbons	ND	50.0	ug/l							
Surrogate: n-Pentacosane	*85.5*		"	*100*		*85.5*	*50-150*			
LCS (0L15026-BS1)				Prepared & Analyzed: 12/15/00						
Diesel Range Hydrocarbons	611	50.0	ug/l	1000		61.1	60-140			
Surrogate: n-Pentacosane	*83.9*		"	*100*		*83.9*	*50-150*			
Matrix Spike (0L15026-MS1)		**Source: MJL0262-01**		Prepared & Analyzed: 12/15/00						
Diesel Range Hydrocarbons	1030	50.0	ug/l	1000	238	79.2	50-150			
Surrogate: n-Pentacosane	*104*		"	*100*		*104*	*50-150*			
Matrix Spike Dup (0L15026-MSD1)		**Source: MJL0262-01**		Prepared & Analyzed: 12/15/00						
Diesel Range Hydrocarbons	982	50.0	ug/l	1000	238	74.4	50-150	4.77	50	
Surrogate: n-Pentacosane	*116*		"	*100*		*116*	*50-150*			

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

MTBE Confirmation 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 1A02024 - EPA 5030B [P/T]										
Blank (1A02024-BLK1)				Prepared & Analyzed: 12/25/00						
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*9.21*		"	*10.0*		*92.1*	*70-130*			
LCS (1A02024-BS1)				Prepared & Analyzed: 12/25/00						
Methyl tert-butyl ether	9.44	1.00	ug/l	10.0		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*10.6*		"	*10.0*		*106*	*70-130*			
LCS Dup (1A02024-BSD1)				Prepared & Analyzed: 12/25/00						
Methyl tert-butyl ether	10.3	1.00	ug/l	10.0		103	70-130	8.71	25	
Surrogate: 1,2-Dichloroethane-d4	*10.5*		"	*10.0*		*105*	*70-130*			
Matrix Spike (1A02024-MS1)		**Source: MJL0337-04**		Prepared & Analyzed: 12/25/00						
Methyl tert-butyl ether	175	20.0	ug/l	200	ND	87.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*16.1*		"	*10.0*		*161*	*70-130*			*S-04*
Matrix Spike Dup (1A02024-MSD1)		**Source: MJL0337-04**		Prepared & Analyzed: 12/25/00						
Methyl tert-butyl ether	149	20.0	ug/l	200	ND	74.5	70-130	16.0	25	
Surrogate: 1,2-Dichloroethane-d4	*15.4*		"	*10.0*		*154*	*70-130*			*S-04*

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L21016 - 200.7/ No Digest										
Blank (0L21016-BLK1)				Prepared & Analyzed: 12/21/00						
Ferrous Iron	ND	0.0100	mg/l							
LCS (0L21016-BS1)				Prepared & Analyzed: 12/21/00						
Ferrous Iron	1.03	0.0100	mg/l				80-120			
Matrix Spike (0L21016-MS1)		**Source: MJL0207-02**		Prepared & Analyzed: 12/21/00						
Ferrous Iron	1.09	0.0100	mg/l		0.0821		80-120			
Matrix Spike Dup (0L21016-MSD1)		**Source: MJL0207-02**		Prepared & Analyzed: 12/21/00						
Ferrous Iron	1.11	0.0100	mg/l		0.0821		80-120	1.82	20	

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

Anions by EPA Method 300.0 - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L07008 - General Preparation										
Blank (0L07008-BLK1)				Prepared & Analyzed: 12/05/00						
Nitrate as NO3	ND	0.100	mg/l							
Sulfate as SO4	ND	0.500	"							
LCS (0L07008-BS1)				Prepared & Analyzed: 12/05/00						
Nitrate as NO3	9.46	0.100	mg/l	10.0		94.6	90-110			
Sulfate as SO4	9.37	0.500	"	10.0		93.7	90-110			
Matrix Spike (0L07008-MS1)		**Source: MJL0132-07**		Prepared & Analyzed: 12/05/00						
Nitrate as NO3	98.5	1.00	mg/l	100	ND	98.5	80-120			
Sulfate as SO4	167	5.00	"	100	59.0	108	80-120			
Matrix Spike Dup (0L07008-MSD1)		**Source: MJL0132-07**		Prepared & Analyzed: 12/05/00						
Nitrate as NO3	98.2	1.00	mg/l	100	ND	98.2	80-120	0.305	20	
Sulfate as SO4	169	5.00	"	100	59.0	110	80-120	1.19	20	

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 4411 Foothill Blvd.	
1680 Rogers Avenue	Project Number: 4411 Foothill Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	01/03/01 09:41

Notes and Definitions

A-01	MTBE was prepared on 12/14/00
D-15	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
H-02	This sample was analyzed outside of EPA recommended hold time.
M-03	Sample was analyzed at a second dilution per clients request.
P-01	Chromatogram Pattern: Gasoline C6-C12
R-05	The reporting limit(s) for this sample have been raised due to high levels of non-target interferents.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 001204-Z1

CLIENT Equiva - Karen Petryna

SITE 4411 Foothill Boulevard
Oakland, CA

CONDUCT ANALYSIS TO DETECT

LAB SEQUOIA DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

MJL 0262

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995746

Send report to Blaine Tech Services, Inc.

ATTN: Nick Sudano

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	Motor Oil	Nitrate, Sulfate, & Ferrous Iron	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
S-1	12-4-00	950	W	7	Mixed		X	X		X			X	confirm the highest			01
S-2	12-4-00	1227	W	7	Mixed		X	X		X			X	MTBE hit by 8260.			02
S-3	12-4-00	1130	W	7	Mixed		X	X		X			X				03
S-4	12-4-00	1030	W	7	Mixed		X	X		X			X	Ferrous Iron HCl poly			04
														Field filtered.			

SAMPLING COMPLETED DATE 12-4-00 TIME 1300

SAMPLING PERFORMED BY Aidan Metzger

RESULTS NEEDED NO LATER THAN

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Aidan Metzger	12/5	8:20	Norma MH	12/5	8:20
JM	12/5	11:38	[illegible] mh	12/5/2k	1138

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

WELL GAUGING DATA

Project # 001204-Z1 Date 12-4-00 Client EQUIVA

Site 4411 Foothill Blvd, Oakland

	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	pre- D.O./ORP
2	S-1	4	ORC's				10.10	24.59	TOB	8.6 mg/L -149 mV
5	S-2	4	ORC's				10.30	22.34		10.6 mg/L +68 mV
4	S-3	4					9.23	20.42		1.1 mg/L -175 mV
3	S-4	4					10.67	20.12		1.1 mg/L -224 mV
1	BW-A	4	ORC's				8.96	12.32		1.3 mg/L -232 mV
	* Removed all ORC's prior to gauging									

EQUIVA WELL MONITORING DATA SHEET

BTS #: 001204-Z1	Site: 98995746
Sampler: Aidan M.	Date: 12-4-00
Well I.D.: S-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 24.59	Depth to Water: 10.10
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: _____

* Take pre & post purge D.O. and O.R.P.

9.4 (Gals.) X 3 = 28.2 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
939	65.7	9.0	880	>200	10	
941	68.2	7.7	866	133	19	
943	68.6	8.2	878	197	29	

Did well dewater? Yes (No) Gallons actually evacuated: 29

Sampling Time: 950 Sampling Date: 12-4-00

Sample I.D.: S-1 Laboratory: (Sequoia) Columbia Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: Nitrate, Sulfate, Ferrous Iron

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)	8.6 mg/L	(Post-purge):	9.8	mg/L
O.R.P. (if req'd):	(Pre-purge)	-149 mV	(Post-purge):	-204	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 001204-Z1	Site: 98995746
Sampler: Aidan M.	Date: 12-4-00
Well I.D.: S-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 22.34	Depth to Water: 10.30
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: _____

* Take pre & post purge D.O. and O.R.P.

7.8 (Gals.) X 3 = 23.4 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 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
12:16	72.3	7.2	1466	95	8	
12:18	73.7	7.3	1450	87	16	
12:20	73.6	7.5	1514	42	24	

Did well dewater? Yes (No) Gallons actually evacuated: 24

Sampling Time: 12:27 Sampling Date: 12-4-00

Sample I.D.: S-2 Laboratory: (Sequoia) Columbia Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: Nitrate, Sulfate, Ferrous Iron

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)	10.6 mg/L	(Post-purge):	9.4	mg/L
O.R.P. (if req'd):	(Pre-purge)	+68 mV	(Post-purge):	+505	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 001204-Z1	Site: 98995746
Sampler: Aidan M.	Date: 12-4-00
Well I.D.: S-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 20.42	Depth to Water: 9.23
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: _____

* Take pre & post purge D.O. and O.R.P.

7.2 (Gals.) X 3 = 21.6 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:21	69.0	6.7	700	63	8	
11:23	69.8	6.7	686	72	15	
11:25	69.2	6.8	697	86	22	

Did well dewater? Yes (NO) Gallons actually evacuated: 22

Sampling Time: 11:30 Sampling Date: 12-4-00

Sample I.D.: S-3 Laboratory: (Sequoia) Columbia Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: Nitrate, Sulfate, Ferrous Iron

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)	1.1 mg/L	(Post-purge):	1.5 mg/L
O.R.P. (if req'd):	(Pre-purge)	-175 mV	(Post-purge):	-159 mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 001204-Z1	Site: 98995746
Sampler: Aidan M.	Date: 12-4-00
Well I.D.: S-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 20.12	Depth to Water: 10.67
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: _____

* Take pre & post purge D.O. and O.R.P.

6.1 (Gals.) X 3 = 18.3 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1018	67.5	6.7	1577	>200	7	
1020	68.2	6.7	1588	186	13	
1022	68.3	6.7	1576	175	19	

Did well dewater? Yes (No) Gallons actually evacuated: 19

Sampling Time: 1030 Sampling Date: 12-4-00

Sample I.D.: S-4 Laboratory: (Sequoia) Columbia Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: Nitrate, Sulfate, Ferrous Iron

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)	1.1 mg/L	(Post-purge):	1.0	mg/L
O.R.P. (if req'd):	(Pre-purge)	-224 mV	(Post-purge):	-202	mV

WELL GAUGING DATA

Project # 00112-K3 Date 12-12-00 Client EQUILON

Site 4411 FOOTHILL BLVD OAKLAND

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	
S-1	4					9.22	24.59	TOB	
S-2	4					9.66	27.34		
S-3	4					9.23	20.47		
S-4	4					10.64	20.20		
BWA	4					8.71	12.32		