CAMBRIA

August 16, 2000

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

Re: **First Quarter 2000 Monitoring Report**
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, California
Incident #98995758
Cambria Project #242-0524-002

Dear Mr. Chan:

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.

HYDROCARBON REMOVAL SUMMARY

Separate-Phase Hydrocarbon Removal Summary	
This Quarter (pounds)	Cumulative Removal (pounds)
0.00	21.80

The table above summarizes the cumulative separate-phase hydrocarbon (SPH) removal from the site by manual bailing.

FIRST QUARTER 2000 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California checked for SPH, gauged and sampled the site wells, calculated groundwater elevations, and compiled the gasoline constituents analytical data. No SPH were detected this quarter. Cambria prepared a groundwater elevation contour map (Figure 1). Blaine's report, presenting the laboratory 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

and supporting field documents, is included as Attachment A. Groundwater samples are analyzed for bio-attenuation parameters on an annual basis during the third quarter monitoring activities. Analytical data for bioattenuation parameters are sumarized in Table 1.

Groundwater Extraction: Cambria visited the site on February 28, 2000 to oversee groundwater extraction from monitoring well MW-2 and tank backfill well TB-2. Groundwater was extracted from the wells using a vacuum truck. Well MW-2 was dewatered after extracting approximately 200 gallons of groundwater. Approximately 4,500 gallons of groundwater were extracted from well TB-2. Groundwater extraction data and hydrocarbon removal are summarized in Table 2.

ANTICIPATED SECOND QUARTER 2000 ACTIVITIES

Groundwater Monitoring: Blaine will measure and remove detected SPH, gauge and sample all wells, and tabulate the data. Cambria will prepare a monitoring report.

Monitoring Well Installation: Cambria is evaluating alternative locations for a previously proposed monitoring well.

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 Buggle
Project Environmental 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 - Bioattenuation Parameters Analytical Data
2 - Groundwater Extraction and Hydrocarbon Removal

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91501-7869
Roland C. Malone, Jr., PO Box 2099, Houston, TX 77252

g:\oak4255\qm\1q00qm.doc

03/09/00

Ground Water Elevation Contour Map

January 17, 2000

CAMBRIA

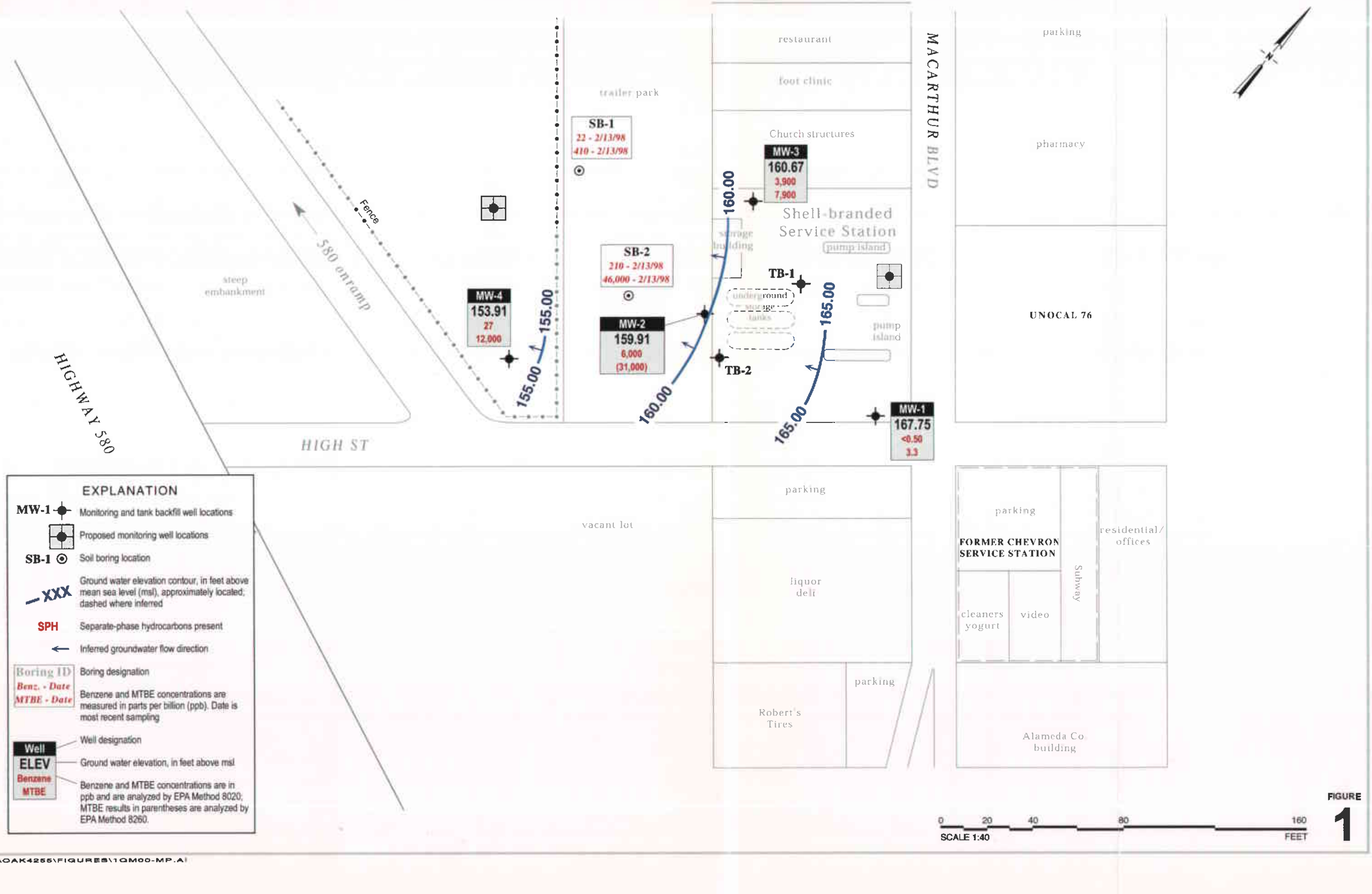

FIGURE **1**

Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, California
Incident #98995758

G:\OAK4256\FIGURES\1QM00-MP.AI

Table 1. **Groundwater Analytical Data - Bioattenuation Parameters** - Shell-branded Service Station Incident #98995758 - 4255 MacArthur Blvd., Oakland, California

Well ID	Date	Ground Water Depth (ft)	DO	Total Alkalinity	Ferrous Iron	Nitrate as Nitrate	Sulfate	Notes
			← (Concentrations in mg/L) →					
MW-1	07/17/98	7.28	0.8	460	1.6	<1.0	12	
	07/23/99	8.51	1.0	480	0.790	7.49	28.6	
MW-2	07/17/98	11.75	---	---	---	---	---	SPH
	07/23/99	14.45	1.4	440	26.0	<1.00	3.24	
MW-3	07/17/98	11.51	1.3	860	5.3	<1.0	6.5	
	07/17/98	11.51	1.3	860	5.4	<1.0	5.8	duplicate
	07/23/99	14.95	1.3	920	76.0	<1.00	4.23	
MW-4	07/17/98	6.95	1.4	630	2.8	<1.0	13	
	07/23/99	11.33	0.9	620	46.0	7.41	6.03	

Notes and Abbreviations:

DO = Dissolved oxygen
ft = Feet
mg/L = Milligrams per liter
SPH = Separate-phase hydrocarbons in well; not sampled
--- = Not analyzed
<n = Below detection limit of n mg/L
Total alkalinity by EPA Method 310.2, concentrations in mg CaCO3/L
Ferrous iron by EPA Method 200.7
Nitrate as nitrate and sulfate by EPA Method 300.0

TABLE 2

PETROLEUM HYDROCARBON MASS REMOVAL
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, California
Incident #98995758
SAP #135701

calc off by 1000

Date	Well Number	Volume Groundwater Extracted (gallons)	Sample Date	TPPH (ug/L)	TPPH Removed (pounds)	Benzene (ug/L)	Benzene Removed (pounds)	MTBE (ug/L)	MTBE Removed (pounds)
23-Apr-99	MW-2	200	13-Apr-98	180,000	0.0003	2,800	0.00000	71,000	0.000
23-Apr-99	TB-2	4,800	24-Aug-99	6,240	0.0002	400	0.00002	86,100	0.003
24-May-99	MW-2	200	13-Apr-98	180,000	0.0003	2,800	0.00000	71,000	0.000
24-May-99	TB-2	4,800	24-Aug-99	6,240	0.0002	400	0.00002	86,100	0.003
28-Jun-99	MW-2	200	13-Apr-98	180,000	0.0003	2,800	0.00000	71,000	0.000
28-Jun-99	TB-2	4,800	24-Aug-99	6,240	0.0002	400	0.00002	86,100	0.003
30-Jul-99	MW-2	200	13-Apr-98	180,000	0.0003	2,800	0.00000	71,000	0.000
30-Jul-99	TB-2	4,800	24-Aug-99	6,240	0.0002	400	0.00002	86,100	0.003
24-Aug-99	MW-2	100	13-Apr-98	180,000	0.0002	2,800	0.00000	71,000	0.000
24-Aug-99	TB-2	2,400	24-Aug-99	6,240	0.0001	400	0.00001	86,100	0.002
29-Oct-99	MW-2	100	13-Apr-98	180,000	0.0002	2,800	0.00000	71,000	0.000
29-Oct-99	TB-2	2,255	29-Oct-99	7,460	0.0001	656	0.00001	442	0.000
30-Nov-99	MW-2	100	13-Apr-98	180,000	0.0002	2,800	0.00000	71,000	0.000
30-Nov-99	TB-2	3,800	29-Oct-99	7,460	0.0002	656	0.00002	442	0.000
02-Feb-00	MW-2	200	17-Jan-00	46,000	0.00008	6,000	0.00001	31,000	0.0005
02-Feb-00	TB-2	4,500	31-Jan-00	2,070	0.00008	108	0.000004	6550	0.0003
Total Gallons Extracted:		**28,955**	**Total Pounds Removed:**		**0.0032**		**0.00013**		**0.017**

Notes:

1) Mass removal calculations for MW-2 based on last available quarterly ground water data collected in April 1998. ← not accurate
   Calculations for backfill well TB-2 based on grab ground water sample collected during vacuum truck dewatering. ← results ?
2) MTBE concentrations based on results by EPA Method 8020.
3) Ground water extracted by vacuum trucks provided by ECI. Water disposed of at Martinez Refinery.
4) Mass removed = Volume extracted (gallons) x Concentration (ug/L) x (1 g/1e9 ug) x (1 pound/453.6 g) x (3.785 L/1 gallon) = *

↑ S/B 1e6

eg 4800 × $6240 \times 10^{-6} \times \frac{3.785}{454} = 5 \times 10^{-5}$

6.2×10^{-3}

2.5×10^{-2}

$5 \times 10^{3} \times 6 \times 10^{-3} \times 10^{-2} \approx 3 \times 10^{-1} = .3$

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

February 21, 2000

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

First Quarter 2000 Groundwater Monitoring at
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Monitoring performed on January 17, 2000

Groundwater Monitoring Report **000117-Y-2**

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

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	11/17/93	410	21	11	7.9	47	NA	NA	175.79	8.59	NA	167.20	NA	NA	NA
MW-1	1/20/94	1,200	180	19	48	47	NA	NA	175.79	8.22	NA	167.57	NA	NA	NA
MW-1	4/25/94	3,100	610	<10	130	27	NA	NA	175.79	7.63	NA	168.16	NA	NA	NA
MW-1	7/7/94	2,400	1,000	10	250	20	NA	NA	175.79	8.31	NA	167.48	NA	NA	NA
MW-1	10/27/94	2,200	500	3.1	72	1.8	NA	NA	175.79	8.84	NA	166.95	NA	NA	NA
MW-1	11/17/94	NA	NA	NA	NA	NA	NA	NA	175.79	7.60	NA	168.19	NA	NA	NA
MW-1	11/28/94	NA	NA	NA	NA	NA	NA	NA	175.79	7.56	NA	168.23	NA	NA	NA
MW-1	1/13/95	570	75	2.5	6.7	11	NA	NA	175.79	7.11	NA	168.68	NA	NA	NA
MW-1	4/12/95	1,800	480	<5.0	79	<5.0	NA	NA	175.79	7.08	NA	168.71	NA	NA	NA
MW-1	7/25/95	120	15	1.1	2.1	2.9	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1 (D)	7/25/95	300	88	2.4	11	6.5	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1	10/18/95	130	9.5	0.8	1.3	1.7	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1 (D)	10/18/95	120	11	0.8	1.4	1.8	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1	1/17/96	250	22	0.9	1.6	2.3	NA	NA	175.79	7.83	NA	167.96	NA	NA	NA
MW-1	4/25/96	<50	4.6	<0.5	<0.5	0.6	500b	NA	175.79	7.35	NA	168.44	NA	NA	NA
MW-1	7/17/96	<250	15	<2.5	<2.5	<2.5	540	NA	175.79	7.70	NA	168.09	NA	NA	NA
MW-1	10/1/96	1,200	500	12	57	82	1,900	NA	175.79	8.07	NA	167.72	NA	NA	NA
MW-1	1/22/97	640	170	4.3	33	33	1,200	NA	175.79	7.21	NA	168.58	NA	NA	NA
MW-1	4/8/97	<200	34	<2.0	3.3	4.3	950	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1 (D)	4/8/97	<200	66	<2.0	6.4	8	740	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1	7/8/97	190	49	1.2	5.8	8.6	560	NA	175.79	8.01	NA	167.78	NA	NA	NA
MW-1	10/8/97	<100	7	<1.0	<1.0	<1.0	620	NA	175.79	8.10	NA	167.69	NA	NA	NA
MW-1	1/9/98	970	390	12	48	71	1,200	NA	175.79	7.14	NA	168.65	NA	NA	NA
MW-1	4/13/98	<50	136	<0.50	1.5	1.8	170	NA	175.79	6.78	NA	169.01	NA	NA	NA
MW-1	7/17/98	2,500	750	11	88	67	150	NA	175.79	7.28	NA	168.51	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	10/2/98	8,000	970	36	270	440	35	NA	175.79	7.77	NA	168.02	NA	NA	NA
MW-1	2/3/99	210	56	0.82	<0.50	3.2	220	NA	175.79	7.45	NA	168.34	NA	1.4	NA
MW-1	4/29/99	<50	4.5	<0.50	0.56	<0.50	140	196	175.79	7.58	NA	168.21	NA	1.2	140
MW-1	7/23/99	<50.0	<0.500	<0.500	<0.500	<0.500	120	111*	175.79	8.51	NA	167.28	NA	1.0	NA
MW-1	11/1/99	<50.0	<0.500	<0.500	<0.500	<0.500	2.90	NA	175.79	8.30	NA	167.49	NA	1.4	-71
MW-1	1/17/00	<50	<0.50	<0.50	<0.50	<0.50	3.3	NA	175.79	8.04	NA	167.75	NA	16.9	64
MW-2	11/17/93	31,000	9,400	4,600	1,000	3,900	NA	NA	170.91	12.31	NA	158.60	NA	NA	NA
MW-2	1/20/94	40,000	6,900	5,600	780	4,100	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2 (D)	1/20/94	41,000	7,200	6,200	900	4,800	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2	4/25/94	60,000	9,300	6,100	1,400	6,200	NA	NA	170.91	10.84	NA	160.07	NA	NA	NA
MW-2	7/7/94	280,000a	40,000	26,000	8,100	32,000	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2 (D)	7/7/94	53,000	13,000	6,600	2,000	8,400	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2	10/27/94	130,000	14,000	12,000	2,400	13,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2 (D)	10/27/94	390,000	8,800	7,000	1,700	11,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2	11/17/94	NA	NA	NA	NA	NA	NA	NA	170.91	9.11	NA	161.80	NA	NA	NA
MW-2	11/28/94	NA	NA	NA	NA	NA	NA	NA	170.91	9.22	NA	161.69	NA	NA	NA
MW-2	1/13/95	75,000	5,900	12,000	3,100	17,000	NA	NA	170.91	8.10	NA	162.81	NA	NA	NA
MW-2	4/12/95	100,000	8,500	11,000	2,400	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2 (D)	4/12/95	80,000	4,200	9,300	2,500	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2	7/25/95	NA	NA	NA	NA	NA	NA	NA	170.91	11.53	NA	159.80	0.52	NA	NA
MW-2	10/18/95	NA	NA	NA	NA	NA	NA	NA	170.91	14.02	NA	156.99	0.13	NA	NA
MW-2	1/17/96	NA	NA	NA	NA	NA	NA	NA	170.91	10.27	NA	160.78	0.17	NA	NA
MW-2	4/25/96	NA	NA	NA	NA	NA	NA	NA	170.91	11.68	NA	159.25	0.03	NA	NA
MW-2	7/17/96	NA	NA	NA	NA	NA	NA	NA	170.91	12.78	NA	158.81	0.48	NA	NA
MW-2	10/1/96	NA	NA	NA	NA	NA	NA	NA	170.91	14.21	NA	156.70	0.28	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-2	1/22/97	NA	NA	NA	NA	NA	NA	NA	170.91	10.92	NA	160.08	0.11	NA	NA
MW-2	4/8/97	NA	NA	NA	NA	NA	NA	NA	170.91	14.12	NA	156.95	0.20	NA	NA
MW-2	7/8/97	NA	NA	NA	NA	NA	NA	NA	170.91	14.98	NA	156.08	0.19	NA	NA
MW-2	10/8/97	NA	NA	NA	NA	NA	NA	NA	170.91	12.97	NA	157.98	0.05	NA	NA
MW-2	1/8/98	NA	NA	NA	NA	NA	NA	NA	170.91	12.54	NA	158.43	0.08	NA	NA
MW-2	4/13/98	180,000	2,800	5,200	2,400	13,000	71,000	NA	170.91	10.05	NA	160.86	NA	NA	NA
MW-2	7/17/98	NA	NA	NA	NA	NA	NA	NA	170.91	11.75	NA	159.24	0.10	NA	NA
MW-2	10/2/98	NA	NA	NA	NA	NA	NA	NA	170.91	16.78	NA	154.22	0.11	NA	NA
MW-2	2/3/99	NA	NA	NA	NA	NA	NA	NA	170.91	9.90	9.82	161.07	0.08	NA	NA
MW-2	4/29/99	NA	NA	NA	NA	NA	NA	NA	170.91	9.86	9.81	161.09	0.05	NA	NA
MW-2	7/23/99	65,800	6,500	4,480	1,960	8,960	46,600	58,500*	170.91	14.45	NA	156.46	NA	1.4	NA
MW-2	11/1/99	NA	NA	NA	NA	NA	NA	NA	170.91	11.84	11.81	159.09	0.03	NA	NA
MW-2	1/17/00	46,000	6,000	2,400	1,500	5,500	50,000	31,000	170.91	11.00	NA	159.91	NA	1.3	-54
MW-3	11/17/93	18,000	5,400	660	720	2,200	NA	NA	174.61	15.40	NA	159.21	NA	NA	NA
MW-3	1/20/94	55,000	13,000	2,600	2,200	6,500	NA	NA	174.61	14.61	NA	160.00	NA	NA	NA
MW-3	4/25/94	96,000	11,000	1,600	3,100	9,900	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3 (D)	4/25/94	78,000	12,000	1,900	2,600	7,300	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3	7/7/94	NA	NA	NA	NA	NA	NA	NA	174.61	14.54	NA	160.07	0.02	NA	NA
MW-3	10/27/94	NA	NA	NA	NA	NA	NA	NA	174.61	15.62	NA	159.03	0.05	NA	NA
MW-3	11/17/94	NA	NA	NA	NA	NA	NA	NA	174.61	13.83	NA	160.78	NA	NA	NA
MW-3	11/28/94	NA	NA	NA	NA	NA	NA	NA	174.61	14.02	NA	160.59	NA	NA	NA
MW-3	1/13/95	180,000	3,200	2,700	1,700	5,200	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3 (D)	1/13/95	23,000	4,000	690	960	3,000	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3	4/12/95	56,000	8,700	1,500	2,100	6,300	NA	NA	174.61	12.96	NA	161.65	NA	NA	NA
MW-3	7/25/95	NA	NA	NA	NA	NA	NA	NA	174.61	14.28	NA	160.38	0.06	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-3	10/18/95	NA	NA	NA	NA	NA	NA	NA	174.61	15.88	NA	158.77	0.05	NA	NA
MW-3	1/17/96	NA	NA	NA	NA	NA	NA	NA	174.61	13.86	NA	160.94	0.24	NA	NA
MW-3	4/25/96	NA	NA	NA	NA	NA	NA	NA	174.61	13.82	NA	160.81	0.02	NA	NA
MW-3	7/17/96	NA	NA	NA	NA	NA	NA	NA	174.61	16.11	NA	158.52	0.03	NA	NA
MW-3	10/1/96	46,000	7,300	530	1,700	3,900	3,200	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3 (D)	10/1/96	47,000	7,100	530	1,700	4,000	2,900	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3	1/22/97	82,000	5,200	1,300	2,800	8,900	1,100	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3 (D)	1/22/97	61,000	8,400	1,100	2,300	7,000	2,700	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3	4/8/97	NA	NA	NA	NA	NA	NA	NA	174.61	17.09	NA	157.54	0.03	NA	NA
MW-3	7/8/97	56,000	8,800	580	2,000	4,900	2,800	NA	174.61	15.85	NA	158.76	NA	NA	NA
MW-3	10/8/97	48,000	8,000	590	1,700	3,400	5,100	NA	174.61	16.22	NA	158.39	NA	NA	NA
MW-3	1/8/98	47,000	9,400	810	2,300	4,700	6,300	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3 (D)	1/8/98	48,000	8,100	750	2,000	4,100	5,800	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3	4/13/98	32,000	6,800	540	1,400	3,400	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3 (D)	4/13/98	36,000	7,300	660	1,600	3,700	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3	7/17/98	71,000	11,000	590	2,200	6,900	3,900	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3 (D)	7/17/98	76,000	12,000	700	2,600	8,000	3,000	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3	10/2/98	66,000	8,900	510	2,000	4,900	4,600	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3 (D)	10/2/98	59,000	9,400	460	2,000	4,900	4,700	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3	2/3/99	36,000	6,800	300	1,600	2,900	18,000	NA	174.61	15.21	NA	159.40	NA	1.3	NA
MW-3	4/29/99	45,000	8,100	580	2,200	5,800	4,700	5,150	174.61	15.43	NA	159.18	NA	1.5	-68
MW-3	7/23/99	29,400	3,540	215	810	3,800	4,720	6,950*	174.61	14.95	NA	159.66	NA	1.3	NA
MW-3	11/1/99	20,000	4,190	294	1,060	1,740	5,540	8,590	174.61	14.66	NA	159.95	NA	0.6	-110
MW-3	1/17/00	17,000	3,900	89	1,100	1,200	7,900	NA	174.61	13.94	NA	160.67	NA	1.3	-40
MW-4	11/17/94	NA	NA	NA	NA	NA	NA	NA	164.06	6.62	NA	157.44	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-4	11/28/94	2,900	200	17	76	260	NA	NA	164.06	6.11	NA	157.95	NA	NA	NA
MW-4	1/13/95	1,900	130	5.6	13	40	NA	NA	164.06	6.05	NA	158.01	NA	NA	NA
MW-4	4/12/95	680	150	<2.0	10	13	NA	NA	164.06	6.31	NA	157.75	NA	NA	NA
MW-4	7/25/95	340	100	0.8	8.8	3	NA	NA	164.06	7.36	NA	156.70	NA	NA	NA
MW-4	10/18/95	150	31	<0.5	3.5	0.8	NA	NA	164.06	8.54	NA	155.52	NA	NA	NA
MW-4	1/17/96	290	14	<0.5	1.8	0.8	NA	NA	164.06	8.48	NA	155.58	NA	NA	NA
MW-4	4/25/96	<500	65	<5	<5	<5	1,700	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4 (D)	4/25/96	<500	66	<5	8.7	<5	1,500	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4	7/17/96	<500	84	<5.0	6.5	<5.0	1,500	NA	164.06	7.75	NA	156.31	NA	NA	NA
MW-4 (D)	7/17/96	<500	54	<5.0	<5.0	<5.0	1,700	2,100	164.06	7.75	NA	156.31	NA	NA	NA
MW-4	10/1/96	<500	1.9	<5.0	<5.0	<5.0	3,000	NA	164.06	8.82	NA	155.24	NA	NA	NA
MW-4	1/22/97	580	130	<2.5	18	5.2	1,200	NA	164.06	7.51	NA	156.55	NA	NA	NA
MW-4	4/8/97	770	200	7	26	55	1,500	8	164.06	7.18	NA	156.88	NA	NA	NA
MW-4	7/8/97	570	78	<5.0	14	11	1,200	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4 (D)	7/8/97	640	81	<5.0	16	19	1,600	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4	10/8/97	<500	40	<5.0	7.4	5.4	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4 (D)	10/8/97	<500	36	<5.0	5.9	<5.0	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4	1/8/98	<1,000	55	<10	13	<10	2,000	NA	164.06	7.90	NA	156.16	NA	NA	NA
MW-4	4/13/98	350	110	2.4	20	26	<2.5	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	7/17/98	210	66	0.78	5.4	9.8	1,700	NA	164.06	6.95	NA	157.11	NA	NA	NA
MW-4	10/2/98	<50	0.69	<0.50	<0.50	<0.50	2,900	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	2/3/99	560	120	2.5	29	34	6,800	NA	164.06	7.71	NA	156.35	NA	0.9	NA
MW-4	4/29/99	390	80	1.9	13	19	7,000	8,360	164.06	7.83	NA	156.23	NA	1.1	-125
MW-4	7/23/99	460	93.6	8.40	25.2	28.8	3,760	6,000*	164.06	11.33	NA	152.73	NA	0.9	NA
MW-4	11/1/99	77.3	0.520	<0.500	<0.500	<0.500	539	NA	164.06	10.66	NA	153.40	NA	2.8	3
MW-4	1/17/00	160	27	<0.50	12	6.3	12,000	NA	164.06	10.15	NA	153.91	NA	3.9	-17

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
TB-1	4/29/99	NA	NA	NA	NA	NA	NA	NA	NA	6.00	NA	NA	NA	3.8	-132
TB-1	11/1/99	NA	NA	NA	NA	NA	NA	NA	NA	12.65	NA	NA	NA	0.2	-165
TB-1	1/17/00	NA	NA	NA	NA	NA	NA	NA	NA	7.72	NA	NA	NA	0.8	-178
TB-2	4/29/99	NA	NA	NA	NA	NA	NA	NA	NA	4.76	NA	NA	NA	4.2	-108
TB-2	11/1/99	NA	NA	NA	NA	NA	NA	NA	NA	11.33	NA	NA	NA	0.5	-148
TB-2	1/17/00	NA	NA	NA	NA	NA	NA	NA	NA	9.79	NA	NA	NA	0.7	-162

Abbreviations:
TPPH= Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020
MTBE = methyl-tertiary-butyl ether
TOC = Top of Casing Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
ug/L = parts per billion
msl = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample
NA = Not applicable
DO = Dissolved Oxygens
ORP = Oxidation Reduction Potential
mV = millivolts

Sequoia Analytical

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

February 4, 2000

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

RE: Equiva 4255 McArthur Blvd., Oakland

Dear Leah Davis

Enclosed are the results of analyses for sample(s) received by the laboratory on January 18, 2000.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kimyai
Project Manager D.M.

CA ELAP Certificate Number 1210

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	1/17/00
1680 Rogers Avenue	Project Number:	4255 MacArthur Blvd., Oakland	Received:	1/18/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported:	2/4/00 09:35

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M001545-01	Water	1/17/00
MW-2	M001545-02	Water	1/17/00
MW-3	M001545-03	Water	1/17/00
MW-4	M001545-04	Water	1/17/00

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.

Kayvan Kimyai, Project Manager D.M.

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 1/17/00
1680 Rogers Avenue	Project Number:	4255 MacArthur Blvd., Oakland	Received: 1/18/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 2/4/00 09:35

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Walnut Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-1			**M001545-01**				**Water**	
Purgeable Hydrocarbons	0A26002	1/26/00	1/26/00	EPA 8015M/8020	50	ND	ug/l	
Benzene	"	"	"	EPA 8015M/8020	0.50	ND	"	
Toluene	"	"	"	EPA 8015M/8020	0.50	ND	"	
Ethylbenzene	"	"	"	EPA 8015M/8020	0.50	ND	"	
Xylenes (total)	"	"	"	EPA 8015M/8020	0.50	ND	"	
Methyl tert-butyl ether	"	"	"	EPA 8015M/8020	2.5	**3.3**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70-130*		*110*	%	
MW-2			**M001545-02**				**Water**	**P-01**
Purgeable Hydrocarbons	0A27002	1/27/00	1/27/00	EPA 8015M/8020	20000	**46000**	ug/l	
Benzene	"	"	"	EPA 8015M/8020	200	**6000**	"	
Toluene	"	"	"	EPA 8015M/8020	200	**2400**	"	
Ethylbenzene	"	"	"	EPA 8015M/8020	200	**1500**	"	
Xylenes (total)	"	"	"	EPA 8015M/8020	200	**5500**	"	
Methyl tert-butyl ether	"	"	"	EPA 8015M/8020	1000	**50000**	"	/31000 (8260)
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70-130*		*115*	%	
MW-3			**M001545-03**				**Water**	**P-01**
Purgeable Hydrocarbons	0A26002	1/26/00	1/26/00	EPA 8015M/8020	1000	**17000**	ug/l	
Benzene	"	"	"	EPA 8015M/8020	10	**3900**	"	
Toluene	"	"	"	EPA 8015M/8020	10	**89**	"	
Ethylbenzene	"	"	"	EPA 8015M/8020	10	**1100**	"	
Xylenes (total)	"	"	"	EPA 8015M/8020	10	**1200**	"	
Methyl tert-butyl ether	"	"	"	EPA 8015M/8020	50	**7900**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70-130*		*100*	%	
MW-4			**M001545-04**				**Water**	**P-01**
Purgeable Hydrocarbons	0A26002	1/26/00	1/26/00	EPA 8015M/8020	50	**160**	ug/l	
Benzene	"	"	"	EPA 8015M/8020	0.50	**27**	"	
Toluene	"	"	"	EPA 8015M/8020	0.50	ND	"	
Ethylbenzene	"	"	"	EPA 8015M/8020	0.50	**12**	"	
Xylenes (total)	"	"	"	EPA 8015M/8020	0.50	**6.3**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70-130*		*110*	%	
Methyl tert-butyl ether	"	"	1/28/00	EPA 8015M/8020	1000	**12000**	ug/l	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70-130*		*113*	%	

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 1/17/00
1680 Rogers Avenue	Project Number:	4255 MacArthur Blvd., Oakland	Received: 1/18/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 2/4/00 09:35

MTBE Confirmation by EPA Method 8260A
Sequoia Analytical - Walnut Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-2			**M001545-02**				**Water**	
Methyl tert-butyl ether	0A31012	1/28/00	1/31/00	EPA 8260A	2000	**31000**	ug/l	
Surrogate: Dibromofluoromethane	"	"	"	*50-150*		*100*	%	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*50-150*		*110*	"	

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 1/17/00
1680 Rogers Avenue	Project Number:	4255 MacArthur Blvd., Oakland	Received: 1/18/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 2/4/00 09:35

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0A26002	**Date Prepared: 1/26/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0A26002-BLK1**									
Purgeable Hydrocarbons	1/26/00			**ND**	ug/l	**50**				
Benzene	"			**ND**	"	**0.50**				
Toluene	"			**ND**	"	**0.50**				
Ethylbenzene	"			**ND**	"	**0.50**				
Xylenes (total)	"			**ND**	"	**0.50**				
Methyl tert-butyl ether	"			**ND**	"	**2.5**				
Surrogate: a,a,a-Trifluorotoluene	"	*30.0*		*34.8*	"	*70-130*	*116*			
LCS	**0A26002-BS1**									
Benzene	1/26/00	20.0		22.8	ug/l	70-130	114			
Toluene	"	20.0		22.7	"	70-130	114			
Ethylbenzene	"	20.0		22.7	"	70-130	114			
Xylenes (total)	"	60.0		69.3	"	70-130	116			
Surrogate: a,a,a-Trifluorotoluene	"	*30.0*		*30.5*	"	*70-130*	*102*			
Matrix Spike	**0A26002-MS1**		**M001545-01**							
Benzene	1/26/00	20.0	ND	21.2	ug/l	70-130	**106**			
Toluene	"	20.0	ND	21.2	"	70-130	**106**			
Ethylbenzene	"	20.0	ND	21.4	"	70-130	**107**			
Xylenes (total)	"	60.0	ND	64.5	"	70-130	**108**			
Surrogate: a,a,a-Trifluorotoluene	"	*30.0*		*29.6*	"	*70-130*	*98.7*			
Matrix Spike Dup	**0A26002-MSD1**		**M001545-01**							
Benzene	1/26/00	20.0	ND	23.0	ug/l	70-130	**115**	20	**8.14**	
Toluene	"	20.0	ND	22.7	"	70-130	**114**	20	**6.83**	
Ethylbenzene	"	20.0	ND	22.2	"	70-130	**111**	20	**3.67**	
Xylenes (total)	"	60.0	ND	66.9	"	70-130	**112**	20	**3.65**	
Surrogate: a,a,a-Trifluorotoluene	"	*30.0*		*31.1*	"	*70-130*	*104*			
Batch: 0A27002	**Date Prepared: 1/27/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0A27002-BLK1**									
Purgeable Hydrocarbons	1/27/00			**ND**	ug/l	**50**				
Benzene	"			**ND**	"	**0.50**				
Toluene	"			**ND**	"	**0.50**				
Ethylbenzene	"			**ND**	"	**0.50**				
Xylenes (total)	"			**ND**	"	**0.50**				
Methyl tert-butyl ether	"			**ND**	"	**2.5**				

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 1/17/00
1680 Rogers Avenue	Project Number:	4255 MacArthur Blvd., Oakland	Received: 1/18/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 2/4/00 09:35

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**0A27002-BLK1**									
Surrogate: a,a,a-Trifluorotoluene	*1/27/00*	*30.0*		*34.3*	*ug/l*	*70-130*	*114*			
LCS	**0A27002-BS1**									
Benzene	1/27/00	20.0		21.2	ug/l	70-130	106			
Toluene	"	20.0		21.4	"	70-130	107			
Ethylbenzene	"	20.0		22.3	"	70-130	111			
Xylenes (total)	"	60.0		67.7	"	70-130	113			
Surrogate: a,a,a-Trifluorotoluene	"	*30.0*		*30.2*	"	*70-130*	*101*			
Matrix Spike	**0A27002-MS1**		**W001511-02**							
Benzene	1/27/00	20.0	ND	22.8	ug/l	70-130	**114**			
Toluene	"	20.0	ND	22.0	"	70-130	**110**			
Ethylbenzene	"	20.0	ND	23.6	"	70-130	**118**			
Xylenes (total)	"	60.0	ND	71.1	"	70-130	**118**			
Surrogate: a,a,a-Trifluorotoluene	"	*30.0*		*32.0*	"	*70-130*	*107*			
Matrix Spike Dup	**0A27002-MSD1**		**W001511-02**							
Benzene	1/27/00	20.0	ND	23.0	ug/l	70-130	**115**	20	**0.873**	
Toluene	"	20.0	ND	23.7	"	70-130	**119**	20	**7.44**	
Ethylbenzene	"	20.0	ND	23.1	"	70-130	**116**	20	**2.14**	
Xylenes (total)	"	60.0	ND	68.8	"	70-130	**115**	20	**3.29**	
Surrogate: a,a,a-Trifluorotoluene	"	*30.0*		*31.9*	"	*70-130*	*106*			

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 1/17/00
1680 Rogers Avenue	Project Number:	4255 MacArthur Blvd., Oakland	Received: 1/18/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 2/4/00 09:35

MTBE Confirmation by EPA Method 8260A/Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0A31012	**Date Prepared: 1/28/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0A31012-BLK1**									
Methyl tert-butyl ether	1/28/00			ND	ug/l	2.0				
Surrogate: Dibromofluoromethane	"	*50.0*		*48.0*	"	*50-150*	*96.0*			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*49.0*	"	*50-150*	*98.0*			
Blank	**0A31012-BLK2**									
Methyl tert-butyl ether	1/31/00			ND	ug/l	2.0				
Surrogate: Dibromofluoromethane	"	*50.0*		*54.0*	"	*50-150*	*108*			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*57.0*	"	*50-150*	*114*			
LCS	**0A31012-BS1**									
Methyl tert-butyl ether	1/28/00	50.0		51.1	ug/l	70-130	102			
Surrogate: Dibromofluoromethane	"	*50.0*		*52.0*	"	*50-150*	*104*			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*54.0*	"	*50-150*	*108*			
LCS	**0A31012-BS2**									
Methyl tert-butyl ether	1/31/00	50.0		47.0	ug/l	70-130	94.0			
Surrogate: Dibromofluoromethane	"	*50.0*		*51.0*	"	*50-150*	*102*			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*54.0*	"	*50-150*	*108*			

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 1/17/00
1680 Rogers Avenue	Project Number:	4255 MacArthur Blvd., Oakland	Received: 1/18/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 2/4/00 09:35

Notes and Definitions

#	Note
P-01	Chromatogram Pattern: 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: 4255 McArthur Blvd,

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 ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995758

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.			MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	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	1/17/00	1318	W	3	X	X								1
mw-2		1334			X	X								2
mw-3		1323			X	X								3
mw-4		1405			X	X								4
							MW0545							
											* CONFIRM HIGHEST MTBE X 8260			

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	1/17/00	1405	Leon G.	

RELEASED BY	DATE 1/18/00	TIME 9:30	RECEIVED BY	DATE 1/17/00	TIME 9:30
RELEASED BY	DATE 1/18/00	TIME	RECEIVED BY KW (TKH)	DATE 1/18/00	TIME 10:45
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

WELL GAUGING DATA

Project # 000117-Y2 Date 1-17-00 Client ERVIRA

Site 4255 MACARTHUR 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	DO / ORP
3	MW-1	4	ORC				8.04	23.32	TOC	
5	MW-2	4	SKIMMER			2 200ml	11.00	19.55		
4	MW-3	4	ORC				13.94	21.82		
6	MW-4	2	ORC				10.15	30.50		
1	TB-1	4	ORC				7.72	13.43		0.8 / -178
2	TB-2	4					9.79	12.92		0.7 / -162

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000117-42	Site: 204-5510-0600
Sampler: LEON G.	Date: 1-17-00
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 23.32	Depth to Water: 8.04
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
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: 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

9.9 (Gals.) X 3 = 29.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1206	65.7	8.9 (✓)	1137	156	10	
					20	
1317	DTW = 12.13				30	

Did well dewater? (Yes) No
Gallons actually evacuated: ~~30~~ 17

Sampling Time: 1318
Sampling Date: 1-17-00

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:	16.9 (✓✓) mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	64 mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000117-42	Site: 204-5510-0600
Sampler: Leon G.	Date: 1-17-00
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 19.55	Depth to Water: 11.00
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
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: Bailer
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

5.5 (Gals.) X 3 = 16.5 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
1311	66.0	6.6	866	87	6	
1315	67.5	6.7	885	98	TZ 11	
1335	DTW = 14.22				17	
SKIMMER CONTAINED ~ 200 mL OF FP						
NO FP DETECTED W/ IP PROBE						

Did well dewater? (Yes) No — Gallons actually evacuated: 14

Sampling Time: 1338 — Sampling Date: 1-17-00

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

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time — Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	1.3 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	-54 mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000117-42	Site: 204-5510 - 0600
Sampler: LEON G.	Date: 1-17-00
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 21.82	Depth to Water: 13.94
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
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: Bailer
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

5.1 (Gals.) X 3 = 15.3 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	radius^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1239	67.1	6.9	1631	140	5	ODOR
1320	DTW =	15.01			10	HEAVY SHEEN
~~DTW~~					15	
	NO FP DETECTED W/ IP PROBE					

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

Sampling Time: ~~1503~~ 1323 — Sampling Date: 1-17-00

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:	1.3 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	-40 mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 00 0117-42	Site: 204-5510-0600
Sampler: LEON G	Date: 1-17-00
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 30.50	Depth to Water: 10.15
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
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

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

3.2 (Gals.) X 3 = 9.6 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
1354	64.0	6.8	1205	>200	3	
1358	65.0	6.8	1199	7200	6	
1402	65.1	6.8	1202	>200	10	

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

Sampling Time: 1405 Sampling Date: 1-17-00

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

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	3.9 ~~1.3~~ mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	-17 mV	Post-purge:	mV

ATTACHMENT B

Analytical Results for Ground Water Extraction Event

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

February 14, 2000

Anni Kreml
Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland, CA 94608

RE: Equiva/P002083

Dear Anni Kreml

Enclosed are the results of analyses for sample(s) received by the laboratory on February 2, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Marvin Heskett
Project Manager

CA ELAP Certificate Number 2374

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

Cambria Environmental - Oakland	Project:	Equiva	Sampled: 1/31/00
1144 65th St., Suite C	Project Number:	4255 MacArthur Blvd., Oakland	Received: 2/2/00
Oakland, CA 94608	Project Manager:	Anni Kreml	Reported: 2/14/00

ANALYTICAL REPORT FOR P002083

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
TB-2	P002083-01	Water	1/31/00

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

Cambria Environmental - Oakland	Project:	Equiva	Sampled: 1/31/00
1144 65th St., Suite C	Project Number:	4255 MacArthur Blvd., Oakland	Received: 2/2/00
Oakland, CA 94608	Project Manager:	Anni Kreml	Reported: 2/14/00

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
TB-2			**P002083-01**				**Water**	
Gasoline	0020225	2/9/00	2/9/00		50.0	**2070**	ug/l	
Benzene	"	"	"		0.500	**108**	"	
Toluene	"	"	"		0.500	**16.1**	"	
Ethylbenzene	"	"	"		0.500	**34.1**	"	
Xylenes (total)	"	"	"		0.500	**173**	"	
Methyl tert-butyl ether	"	"	2/10/00		50.0	**6550**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	*2/9/00*	*65.0-135*		*91.0*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*107*	"	

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

Cambria Environmental - Oakland	Project:	Equiva	Sampled: 1/31/00
1144 65th St., Suite C	Project Number:	4255 MacArthur Blvd., Oakland	Received: 2/2/00
Oakland, CA 94608	Project Manager:	Anni Kreml	Reported: 2/14/00

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0020225	**Date Prepared: 2/9/00**					**Extraction Method: EPA 5030 waters**				
Blank	**0020225-BLK1**									
Gasoline	2/9/00			**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**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*286*	"	*65.0-135*	*95.3*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*329*	"	*65.0-135*	*110*			
LCS	**0020225-BS1**									
Gasoline	2/9/00	1000		966	ug/l	65.0-135	96.6			
Surrogate: 4-Bromofluorobenzene	"	*300*		*330*	"	*65.0-135*	*110*			
Matrix Spike	**0020225-MS1**		**P002146-01**							
Gasoline	2/9/00	1000	ND	981	ug/l	65.0-135	**98.1**			
Surrogate: 4-Bromofluorobenzene	"	*300*		*342*	"	*65.0-135*	*114*			
Matrix Spike Dup	**0020225-MSD1**		**P002146-01**							
Gasoline	2/9/00	1000	ND	988	ug/l	65.0-135	**98.8**	20.0	**0.711**	
Surrogate: 4-Bromofluorobenzene	"	*300*		*332*	"	*65.0-135*	*111*			

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

Cambria Environmental - Oakland	Project:	Equiva	Sampled: 1/31/00
1144 65th St., Suite C	Project Number:	4255 MacArthur Blvd., Oakland	Received: 2/2/00
Oakland, CA 94608	Project Manager:	Anni Kreml	Reported: 2/14/00

Notes and Definitions

#	Note
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

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: ____________

Date: 1-31-00
Page 1 of 1

Site Address: 4255 MacArthur Blvd, Oakland.

INCIDENT # 98995758

Shell Engineer: Karen Petryna
Phone No.: 559-645-9306
Fax #: 645-5643

Consultant Name & Address: CAMBRIA
1144 65th St., Suite C, Oakland, CA 94608

Consultant Contact: Anni Kreml
Phone No.: 510-420-3335
Fax #: 420-9170

Comments:

Sampled by: BRIAN BUSCH

Printed Name:

LAB: SEQUOIA Petaluma

CHECK ONE (1) BOX ONLY	CT/DT	
G.W. Monitoring	4461	☐
Site Investigation	4441	☐
Soil Classify/Disposal	4442	☐
Water Classify/Disposal	4443	☐
Soil/Air Rem. or Sys. O & M	4452	☐
Water Rem. or Sys. O & M	4453	☐
Other		☒

TURN AROUND TIME
- 24 hours ☐
- 48 hours ☐
- 15 days ☒ (Normal)
- Other ☐ ______

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: ____________

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 + MTBE			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
TB-2	1-31-00			X		3	P00	20	83	-01		X				40 ml	HCl	no	groundwater	

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐

COOLER TEMPERATURE 6 °C

Relinquished By (signature):	Printed Name:	Date: / Time:	Received (signature):	Printed Name:	Date: / Time:
Brian Busch	BRIAN BUSCH	Date: Time:	N. Mar[illegible]	Mainar[illegible]	Date: 2/2/00 Time: 12:00
N. Mainar		Date: 2/2/00 Time: 14:00	Alfredo Lozano		Date: 2/2 Time: 14:00
		Date: Time:			Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS