

October 25, 2001

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

Re: **Third Quarter 2001 Monitoring Report**
Shell-branded Service Station
350 Grand Avenue
Oakland, California
Incident #98995755
Cambria Project #243-0715-002



Dear Mr. Hwang:

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.

THIRD QUARTER 2001 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled wells S-1, S-2 and S-3 on July 9, 2001. Wells S-4 and S-5 were inaccessible during the initial site visit. On August 7, 2001, Blaine returned to collect samples from wells S-4 and S-5. Blaine calculated groundwater elevations and compiled the analytical. Cambria prepared a well survey/vicinity map and a groundwater elevation contour map using August 7, 2001 gauging data (Figures 1 and 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Dual-Phase Vacuum Extraction (DVE) Event: Due to the elevated methyl tertiary butyl ether (MTBE) concentrations reported in well S-2 during recent monitoring events, Advanced Cleanup Technologies Inc. of Benicia, California and Cambria conducted a one-time 8-hour mobile DVE event on well S-2 using a vacuum truck. DVE is the process of applying high vacuum through an airtight well seal to simultaneously extract soil vapors from the vadose zone and enhance groundwater extraction from the saturated zone. Mobile DVE uses a vacuum truck to create the vacuum and contain extracted fluids. Mobile DVE equipment consists of a dedicated extraction "stinger" installed in the extraction well, a vacuum truck, and a carbon vapor treatment system.

Oakland, CA
San Ramon, CA
Sonoma, CA

**Cambria
Environmental
Technology, Inc.**

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

Table 1 presents the groundwater extraction mass removal data. Table 2 presents the vapor extraction mass removal data. The laboratory's analytical report and Cambria's field data sheet are presented as Attachment B. The following presents a summary of the DVE test results:

- Approximately 50 gallons of groundwater were extracted during the 8-hour test, equating to a flow rate of 0.104 gallons per minute. The groundwater generated during DVE was stored in a vacuum tank truck, then transported to the Martinez Refinery Corporation for disposal/recycling.
- Using third quarter 2001 quarterly monitoring data, the DVE test removed approximately 0.008 pounds of total petroleum hydrocarbons as gasoline (TPHg), 0.0004 pounds of benzene, and 0.009 pounds of MTBE through groundwater extraction.
- Vapor flow rates averaged 3.0 cubic feet per minute.
- Vapor concentrations were reported as 7,600 parts per million (ppm) of TPHg, 7.6 ppm of benzene, and 15 ppm of MTBE.
- Using the vapor concentrations reported, the DVE test removed approximately 2.44 pounds of TPHg, 0.002 pounds of benzene, and 0.005 pounds MTBE through vapor extraction.

The DVE event yielded an insignificant groundwater volume and a poor vapor extraction flow rate. This data is consistent with the low permeability soil (sandy-silt and silt) encountered at this site. The low permeability of the soil also limits the lateral extent of recovery by DVE events. The moderately high TPHg vapor concentration suggests a possible hydrocarbon source area in the vicinity of well S-2. However, it does not appear that mobile DVE events from well S-2 would effectively recover hydrocarbons. There is also the possibility that further DVE events from well S-2 could propagate migration of hydrocarbons towards the property line and off-site. Therefore, Cambria does not recommend further DVE events at the site.

ANTICIPATED FUTURE ACTIVITIES


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

Plume-Delineation: Cambria recommends onsite plume delineation to help determine the MTBE source and the most practical remediation technology. To that end, Cambria will submit a work plan for plume delineation during the fourth quarter 2001.

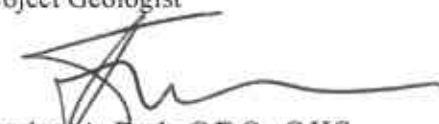
CLOSING

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.

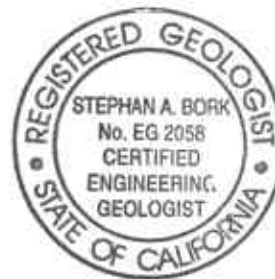
Sincerely,
Cambria Environmental Technology, Inc



Jacquelyn L. Jones
Project Geologist



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



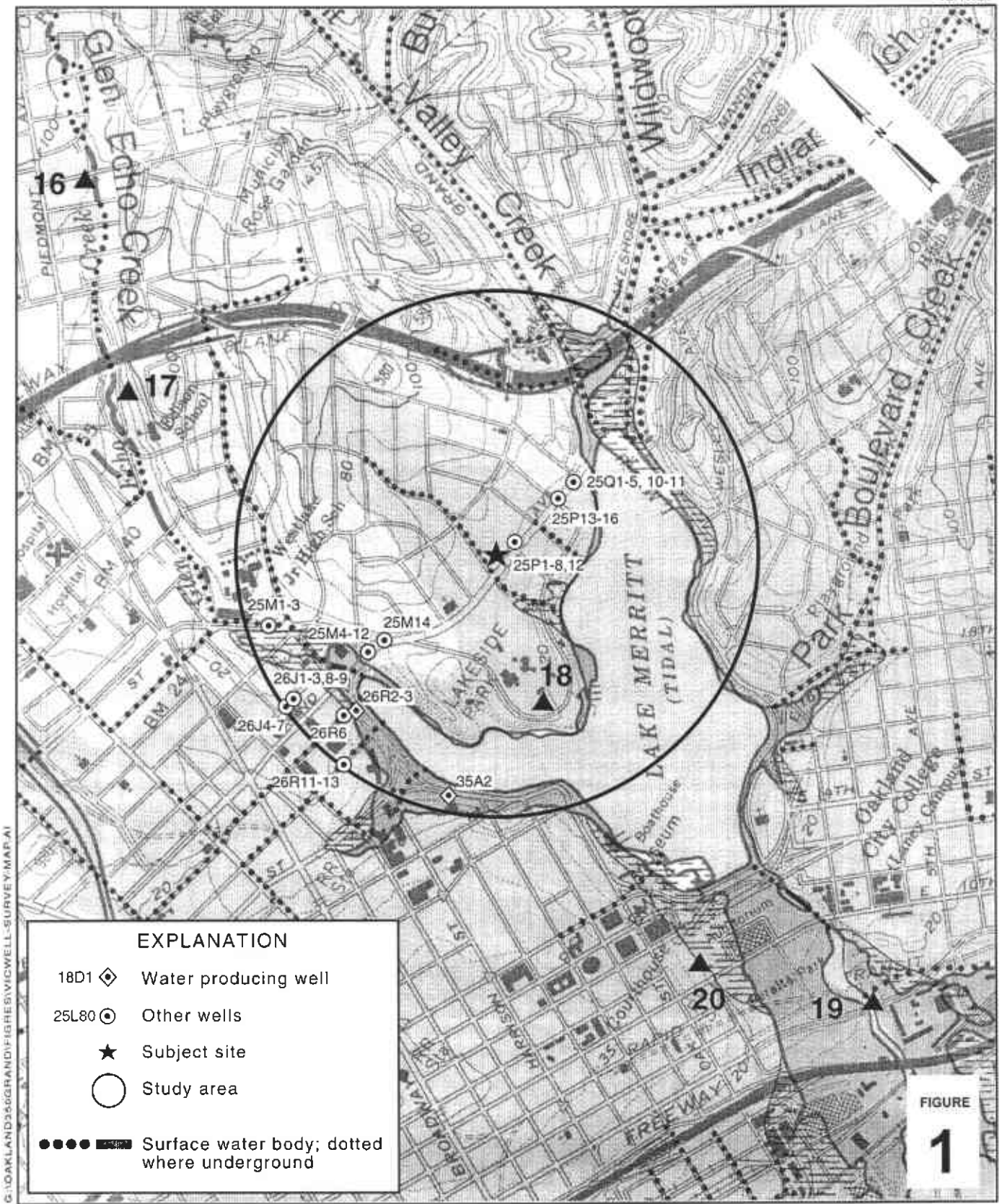
Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map

Tables: 1 - Groundwater Extraction – Mass Removal Data
2 - Vapor Extraction – Mass Removal Data

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes
B - DVE Test Analytical Results and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
Gursharnjeet Cheema, 1060 St. Raphael Drive, Bay Point, CA 94565

G:\Oakland 350 Grand\QM\3q01qm and DVE evaluation.doc



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EXPLANATION

- 18D1 ◊ Water producing well
- 25L80 ○ Other wells
- ★ Subject site
- Study area
- Surface water body; dotted where underground

0 1/8 1/4 1/2 1
SCALE : 1" = 1/4 MILE

FIGURE
1

Shell-branded Service Station
 350 Grand Avenue
 Oakland, California
 Incident #98995755



C A M B R I A

**Vicinity / Area Well
Survey Map**

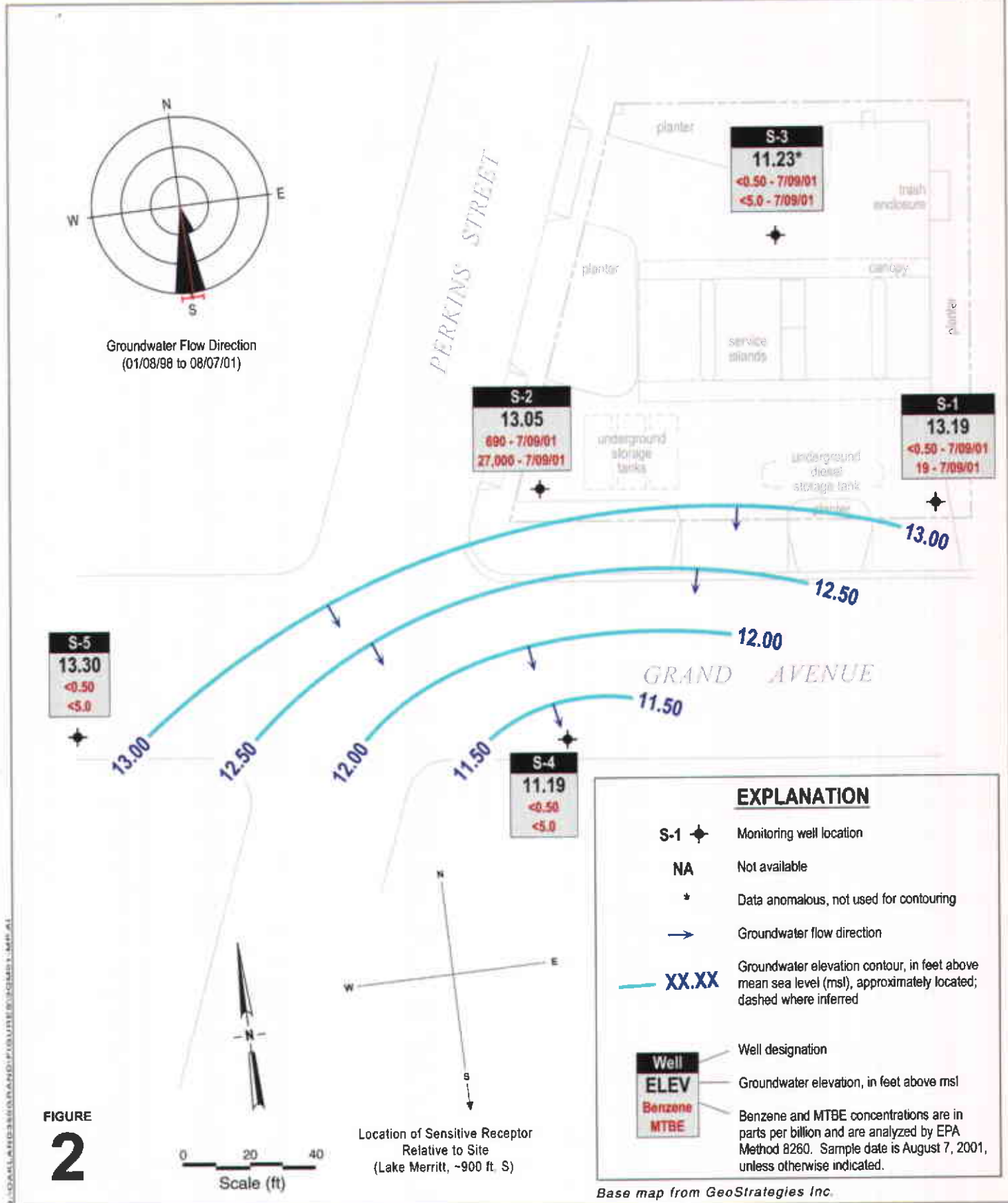


FIGURE 2

Shell-branded Service Station
 350 Grand Avenue
 Oakland, California
 Incident #98995755



C A M B R I A

Groundwater Elevation Contour Map
 August 7, 2001

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995755, 350 Grand Avenue, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
06/27/01	S-2	50	50	02/16/01	20,000	0.008	0.008	990	0.0004	0.0004	21,000	0.009	0.009
Total Gallons Extracted:			50		Total Pounds Removed:		0.008			0.0004	Total Pounds Removed:		0.009
					Total Gallons Removed:		0.001			0.0001	Total Gallons Removed:		0.001

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline

MtBE = Methyl tert-butyl ether

µg/L = Micrograms per liter

ppb = Parts per billion, equivalent to µg/L

L = Liter

gal = Gallon

g = Gram

Mass removed based on the formula: volume extracted (gal) x concentration (µg/L) x (g/10⁶µg) x (pound/453.6g) x (3.785 L/gal)

Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)

TPPH, benzene, and MTBE analyzed by EPA Method 8260

Concentrations based on most recent groundwater monitoring results

If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.

Groundwater extracted by vacuum trucks provided by ACTI. Water disposed of at a Martinez Refinery.

Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995755, 350 Grand Avenue, Oakland, California

Date	Well ID	Interval Hours of Operation (hours)	System Flow Rate (CFM)	Hydrocarbon Concentrations			TPHg		Benzene		MTBE	
				TPHg	Benzene	MTBE	Removal Rate	Cumulative TPHg	Removal Rate	Cumulative Benzene	Removal Rate	Cumulative MTBE
				(Concentrations in ppmv)			(#/hour)	(#)	(#/hour)	(#)	(#/hour)	(#)
06/27/01	S-2	8.00	3.0	7,600	7.6	15	0.305	2.44	0.000	0.002	0.001	0.005
Total Pounds Removed:							TPHg =	2.44	Benzene =	0.002	MTBE =	0.005

Abbreviations and Notes:

CFM = Cubic feet per minute

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12) by modified EPA Method 8015 in 1 liter tedlar bag samples

ppmv = Parts per million by volume

= Pounds

NA = Not available

TPHG, Benzene, and MTBE analyzed by EPA Method 8015/8020 in 1 liter tedlar bag samples

TPHg / Benzene / MTBE removal rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.

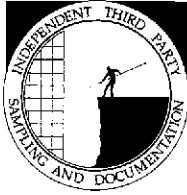
(Rate = Concentration (ppmv) x system flow rate (cfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE) x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.

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

August 30, 2001

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

Third Quarter 2001 Groundwater Monitoring at
Shell-branded Service Station
350 Grand Avenue
Oakland, CA

Monitoring performed on July 9 and August 7, 2001

Groundwater Monitoring Report **010709-C-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, appropriate calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

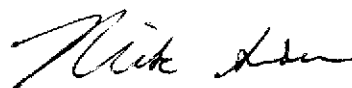
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Nick Sudano".

Nick Sudano
Project Coordinator

NS/jt

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
350 Grand Avenue
Oakland, CA
Wic #204-5510-0204

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	01/23/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.73	11.11	NA
S-1	04/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	7.37	13.47	NA
S-1	07/19/1991	<50	<50	6.8	<0.5	<0.5	<0.5	NA	NA	20.84	8.92	11.92	NA
S-1	10/09/1991	120	260d	10	<0.5	<0.5	<0.5	NA	NA	20.84	9.62	11.22	NA
S-1	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	8.94	11.90	NA
S-1	04/27/1992	<50	70b	1.2	<0.5	<0.5	<0.5	NA	NA	20.84	7.06	13.78	NA
S-1	07/10/1992	<50	930	13	<0.5	<0.5	<0.5	NA	NA	20.84	8.31	12.53	NA
S-1	10/06/1992	62	110	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.55	11.29	NA
S-1	01/06/1993	85	81	1.1	<0.5	<0.5	<0.5	NA	NA	20.84	9.86	10.98	NA
S-1	04/26/1993	<50	53c	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.30	14.54	NA
S-1 (D)	04/26/1993	<50	53c	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.30	14.54	NA
S-1	07/20/1993	<50	140	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	8.78	12.06	NA
S-1	10/18/1993	<50	210	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.20	11.64	NA
S-1	01/07/1994	<50	<50	1.4	1.5	0.55	2.8	NA	NA	20.84	9.53	11.31	NA
S-1 (D)	01/07/1994	<50	53	1.2	1.5	<0.5	2.7	NA	NA	20.84	9.53	11.31	NA
S-1	04/11/1994	<50	320	2.8	<0.5	<0.5	<0.5	NA	NA	20.84	8.50	12.34	NA
S-1 (D)	04/11/1994	<50	220	2.6	<0.5	<0.5	<0.5	NA	NA	20.84	8.50	12.34	NA
S-1	07/14/1994	NA	NA	NA	NA	NA	NA	NA	NA	20.84	8.45	12.39	NA
S-1	07/19/1994	<50	110	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	9.07	11.77	NA
S-1	10/06/1994	110	370	1.4	<0.5	<0.5	<0.5	NA	NA	20.84	11.68	9.16	NA
S-1	01/04/1995	120	1,000	2.5	<0.5	1.5	1.7	NA	NA	20.84	8.51	12.33	NA
S-1	04/12/1995	<50	290	2.1	<0.5	<0.5	<0.5	NA	NA	20.84	6.66	14.18	NA
S-1 (D)	04/12/1995	<50	480	<0.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.66	14.18	NA
S-1	07/07/1995	<50	370	5.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.95	13.89	NA
S-1 (D)	07/07/1995	<50	450	6.5	<0.5	<0.5	<0.5	NA	NA	20.84	6.95	13.89	NA
S-1	10/05/1995	<50	200	3.9	1.2	<0.5	2.4	NA	NA	20.84	8.50	12.34	NA

WELL CONCENTRATIONS
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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	01/12/1996	230	1,500	2.5	<0.5	0.9	0.6	NA	NA	20.84	8.02	12.82	NA
S-1	04/02/1996	95	2,000	0.91	<0.5	<0.5	<0.5	140	NA	20.84	4.98	15.86	NA
S-1	07/30/1996	<50	510	<0.5	<0.5	<0.5	<0.5	67	NA	20.84	6.40	14.44	NA
S-1 (D)	07/30/1996	<50	380	<0.5	<0.5	<0.5	<0.5	68	NA	20.84	6.40	14.44	NA
S-1	10/02/1996	<50	250	<0.5	<0.5	<0.5	<0.5	96	NA	20.84	7.53	13.31	NA
S-1	09/19/1997	<50	120	<0.50	<0.50	<0.50	<0.50	37	NA	20.84	8.54	12.30	0.8
S-1	01/08/1998	<50	210	<0.50	<0.50	<0.50	<0.50	74	NA	20.84	9.09	11.75	2.6
S-1	07/17/1998	<50	99	<0.50	<0.50	<0.50	<0.50	25	NA	20.86	6.48	14.38	2.6
S-1	01/28/1999	92.7	212	4.5	1.83	1.59	12.1	2.17	NA	20.86	10.46	10.40	2.2
S-1	07/23/1999	537	<50	81.1	91.3	24.8	81.6	47.9	NA	20.86	10.02	10.84	2.1
S-1	01/24/2000	<50.0	79.6	<0.500	<0.500	<0.500	<0.500	8.41	NA	20.86	8.42	12.44	2.2
S-1	07/27/2000	<50.0	127	<0.500	<0.500	<0.500	<0.500	31.9	NA	20.86	7.34	13.52	1.6
S-1	01/12/2001	<50.0	225	<0.500	<0.500	<0.500	<0.500	35.9	NA	20.86	8.15	12.71	1.8
S-1	02/16/2001	<50	140	<0.50	<0.50	<0.50	1.0	NA	24	20.86	7.42	13.44	6.1
S-1	07/09/2001	<50	57	<0.50	<0.50	<0.50	<0.50	NA	19	20.86	7.95	12.91	5.4
S-1	08/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	20.86	7.67	13.19	NA
S-2	01/23/1991	2,500	1,200	550	15	33	42	NA	NA	21.24	10.55	10.69	NA
S-2	04/25/1991	32,000	20,000b	2,900	480	1,400	2,300	NA	NA	21.24	8.24	13.00	NA
S-2	07/19/1991	21,000	30,000b	4,700	430	1,200	2,400	NA	NA	21.24	9.55	11.69	NA
S-2	10/09/1991	29,000	32,000b	6,300	510	1,700	2,400	NA	NA	21.24	10.26	10.98	NA
S-2	01/23/1992	31,000	36,000b	5,800	480	2,000	2,700	NA	NA	21.24	9.51	11.73	NA
S-2	04/27/1992	21,000d	12,000b	4,800	320	1,600	1,400	NA	NA	21.24	7.83	13.41	NA
S-2	07/10/1992	31,000	3,700e	7,500	940	3,400	3,500	NA	NA	21.24	8.57	12.67	NA
S-2	10/06/1992	57,000	4,500e	9,300	1,200	4,000	4,900	NA	NA	21.24	9.49	11.75	NA
S-2	01/06/1993	55,000	5,600	5,600	360	3,000	3,000	NA	NA	21.24	8.56	12.68	NA

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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	04/26/1993	32,000	9,400e	10,000	500	4,400	3,600	NA	NA	21.24	6.84	14.40	NA
S-2	07/20/1993	25,000	8,400e	5,800	300	2,700	1,400	NA	NA	21.24	8.52	12.72	NA
S-2 (D)	07/20/1993	25,000	8,900e	5,900	310	2,800	1,400	NA	NA	21.24	8.52	12.72	NA
S-2	10/18/1993	23,000	18,000e	3,700	200	2,100	1,600	NA	NA	21.24	9.36	11.88	NA
S-2 (D)	10/18/1993	28,000	14,000e	3,700	210	2,100	1,600	NA	NA	21.24	9.36	11.88	NA
S-2	01/07/1994	120,000	22,000e	6,900	400	3,100	2,600	NA	NA	21.24	8.37	12.87	NA
S-2	04/11/1994	34,000	17,000e	4,800	170	1,900	880	NA	NA	21.24	6.96	14.28	NA
S-2	07/14/1994	NA	NA	NA	NA	NA	NA	NA	NA	21.24	7.49	13.75	NA
S-2	07/19/1994	23,000	NA	4,300	210	1,100	1,000	NA	NA	21.24	8.02	13.22	NA
S-2 (D)	07/19/1994	29,000	NA	4,700	270	1,200	1,200	NA	NA	21.24	8.02	13.22	NA
S-2	10/06/1994	61,000	NA	4,600	290	1,900	1,900	NA	NA	21.24	11.00	10.24	NA
S-2 (D)	10/06/1994	52,000	NA	5,200	270	2,100	1,900	NA	NA	21.24	11.00	10.24	NA
S-2	01/04/1994	23,000	NA	4,500	49	1,300	500	NA	NA	21.24	8.07	13.17	NA
S-2 (D)	01/04/1995	18,000	NA	3,800	33	1,100	390	NA	NA	21.24	8.07	13.17	NA
S-2	04/12/1995	29,000	NA	4,300	210	990	700	NA	NA	21.24	6.12	15.12	NA
S-2	07/07/1995	26,000	NA	4,200	180	1,100	730	NA	NA	21.24	6.35	14.89	NA
S-2	10/05/1995	26,000	10,000	3,500	150	1,100	640	NA	NA	21.24	7.36	13.88	NA
S-2 (D)	10/05/1995	33,000	9,400	4,200	210	1,500	850	NA	NA	21.24	7.36	13.88	NA
S-2	01/12/1996	36,000	13,000	4,100	240	1,400	790	NA	NA	21.24	7.64	13.60	NA
S-2 (D)	01/12/1996	40,000	11,000	4,100	260	1,400	860	NA	NA	21.24	7.64	13.60	NA
S-2	04/02/1996	12,000	7,300	1,300	120	460	150	4,000	NA	21.24	6.18	15.06	NA
S-2 (D)	04/02/1996	17,000	5,800	1,800	29	590	140	7,600	NA	21.24	6.18	15.06	NA
S-2	07/30/1996	18,000	13,000	3,000	100	1,200	420	17,000	19,000	21.24	7.22	14.02	NA
S-2	10/02/1996	28,000	18,000	3,700	110	1,100	260	20,000	NA	21.24	7.60	13.64	NA
S-2 (D)	10/02/1996	25,000	31,000	3,500	100	1,100	260	19,000	NA	21.24	7.60	13.64	NA
S-2	09/19/1997	21,000	11,000	2,300	120	500	110	11,000	NA	21.24	7.45	13.79	2.1

WELL CONCENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA
Wic #204-5510-0204

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)
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S-2	01/08/1998	35,000	8,100	3,200	260	850	320	23,000	NA	21.24	6.96	14.28	2.3
S-2 (D)	01/08/1998	27,000	5,400	3,400	190	860	200	23,000	NA	21.24	6.96	14.28	2.3
S-2	07/17/1998	19,000	12,000	1,700	130	610	130	13,000	NA	21.24	6.67	14.57	2.3
S-2	01/28/1999	482	99	24	7.52	5.41	63.7	11	NA	21.24	10.63	10.61	2.4
S-2	07/23/1999	320	223	52.0	54.5	14.7	48.6	33.9	NA	21.24	10.12	11.12	2.6
S-2	01/24/2000	18,500	7,600	1,440	140	472	68.9	6,940	NA	21.24	8.63	12.61	1.6
S-2	07/27/2000	14,900	10,200	1,250	98.8	437	<50.0	22,200	30,200	21.24	7.94	13.30	2.0
S-2f	01/12/2001	<50.0	96.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	21.24	8.82	12.42	1.9
S-2	02/16/2001	20,000	<5,000	990	93	450	63	NA	21,000	21.24	7.10	14.14	1.6
S-2	07/09/2001	16,000	26,000	690	62	210	<50	NA	27,000	21.24	8.35	12.89	2.1
S-2	08/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	21.24	8.19	13.05	NA

S-3	01/23/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	14.67	8.03	NA
S-3	04/25/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.96	9.74	NA
S-3	07/19/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.45	10.25	NA
S-3	10/09/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.98	9.72	NA
S-3	01/23/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	13.06	9.64	NA
S-3	04/27/1992	<50	100	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	7.25	15.45	NA
S-3	07/10/1992	<50	68	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	8.46	14.24	NA
S-3	10/06/1992	<50	<10	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	11.77	10.93	NA
S-3	01/06/1993	<50	<10	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.53	10.17	NA
S-3	04/26/1993	<50	69	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	4.28	18.42	NA
S-3	07/20/1993	<50	120	<0.5	0.6	<0.5	<0.5	NA	NA	22.70	5.70	17.00	NA
S-3	10/18/1993	<50	160	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	10.30	12.40	NA
S-3 a	01/07/1994	160	58	59	26	4.9	22	NA	NA	22.70	12.40	10.30	NA
S-3	04/11/1994	<50	<50	<0.52	<0.5	<0.5	<0.5	NA	NA	22.70	10.94	11.76	NA

WELL CONCENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA
Wic #204-5510-0204

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	07/14/1994	NA	NA	NA	NA	NA	NA	NA	NA	22.70	7.90	14.80	NA
S-3	07/19/1994	<50	110d	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	8.12	14.58	NA
S-3	10/06/1994	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	12.15	10.55	NA
S-3	01/04/1995	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	11.18	11.52	NA
S-3	04/12/1995	<50	110	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	3.76	18.94	NA
S-3	07/07/1995	<50	410	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	4.72	17.98	NA
S-3	10/05/1995	<50	160	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	5.80	16.90	NA
S-3	01/12/1996	100	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.70	7.00	15.70	NA
S-3	04/02/1996	<50	170	<0.5	<0.5	<0.5	<0.5	3.4	NA	22.70	3.42	19.28	NA
S-3	07/30/1996	<50	92	<0.5	<0.5	<0.5	<0.5	4.3	NA	22.70	5.89	16.81	NA
S-3	10/02/1996	<50	160	<0.5	<0.5	<0.5	<0.5	4.1	NA	22.70	7.20	15.50	NA
S-3	09/19/1997	<50	260	<0.50	<0.50	<0.50	<0.50	4.3	NA	22.70	6.92	15.78	1.4
S-3 (D)	09/19/1997	<50	290	<0.50	<0.50	<0.50	<0.50	5.2	NA	22.70	6.92	15.78	1.4
S-3	01/08/1998	<50	170	<0.50	<0.50	<0.50	0.92	120	NA	22.70	5.77	16.93	2.7
S-3	07/17/1998	<50	97	<0.50	<0.50	<0.50	<0.50	33	NA	22.71	4.17	18.54	2.7
S-3	01/28/1999	656	<50.0	45.4	10.2	4.98	83.2	87.2	NA	22.71	8.15	14.56	1.8
S-3	07/23/1999	<50.0	77.3	<0.500	<0.500	<0.500	<0.500	39.3	NA	22.71	7.46	15.25	1.9
S-3	01/24/2000	<50.0	77.2	<0.500	<0.500	<0.500	<0.500	12.0	NA	22.71	5.92	16.79	2.1
S-3	07/27/2000	<50.0	142	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.71	6.54	16.17	1.7
S-3f	01/12/2001	17,200	8,050	930	88.8	497	57.0	23,200	18,500	22.71	8.25	14.46	1.7
S-3	02/16/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	2.0	22.71	11.37	11.34	NA
S-3	07/09/2001	<50	<50	<0.50	0.54	<0.50	<0.50	NA	<5.0	22.71	9.70	13.01	1.4
S-3	08/07/2001	NA	NA	NA	NA	NA	NA	NA	NA	22.71	11.48	11.23	NA
S-4	07/17/1998	<50	220	<0.50	<0.50	<0.50	<0.50	<2.5	NA	19.96	6.59	13.37	2.5
S-4 (D)	07/17/1998	<50	260	<0.50	<0.50	<0.50	<0.50	<2.5	NA	19.96	6.59	13.37	2.5

WELL CONCENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA
Wic #204-5510-0204

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-4	01/28/1999	<50.0	356	0.882	<0.500	<0.500	0.71	<2.00	NA	19.96	10.57	9.39	3.0
S-4	07/23/1999	<50.0	<50	<0.500	<0.500	<0.500	<0.500	8.27	NA	19.96	10.06	9.90	2.1
S-4	01/24/2000	Unable to sample		NA	NA	NA	NA	NA	NA	19.96	8.29	11.67	NA
S-4	02/02/2000	<50.0	410	<0.500	<0.500	<0.500	<0.500	<5.00	NA	19.96	9.93	10.03	2.0
S-4	07/27/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
S-4	08/02/2000	<50.0	265	<0.500	<0.500	<0.500	<0.500	<2.50	NA	19.96	8.05	11.91	2.0
S-4	01/12/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
S-4	01/25/2001	<50.0	235	<0.500	0.629	0.656	4.65	<2.50	NA	19.96	10.12	9.84	2.0
S-4	02/16/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
S-4	07/09/2001	Well Inaccessible		NA	NA	NA	NA	NA	NA	19.96	NA	NA	NA
S-4	08/07/2001	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	19.96	8.77	11.19	2.3
S-5	07/17/1998	<50	110	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.27	6.78	15.49	2.2
S-5	01/28/1999	<50.0	109	<0.500	<0.500	<0.500	<0.500	<2.00	NA	22.27	10.75	11.52	2.0
S-5	07/23/1999	<50.0	204	<0.500	<0.500	<0.500	<0.500	5.95	NA	22.27	10.21	12.06	1.8
S-5	01/24/2000	Unable to sample		NA	NA	NA	NA	NA	NA	22.27	8.23	14.04	NA
S-5	02/02/2000	<50.0	172	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.27	10.15	12.12	1.9
S-5	07/27/2000	<50.0	119	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.27	7.41	14.86	2.0
S-5	01/12/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.27	8.80	13.47	NA
S-5	01/25/2001	NA	193	NA	NA	NA	NA	NA	NA	22.27	9.77	12.50	1.7
S-5	02/16/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	22.27	NA	NA	NA
S-5	07/09/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	22.27	NA	NA	NA
S-5	08/07/2001	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	22.27	8.97	13.30	2.2
HP-1	01/27/1993	22,000	14,000	2,500	130	1,400	140	NA	NA	NA	NA	NA	NA

WELL CONENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA
Wic #204-5510-0204

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)
HP-2	01/27/1993	<50	NA	<0.5	4.4	<0.5	<0.5	NA	NA	NA	NA	NA	NA
HP-3	01/27/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to February 16, 2001 analyzed by EPA Method 8015.

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to February 16, 2001 analyzed by EPA Method 8020.

MTBE = methyl-tertiary-butyl ether

TOB = Top of Wellbox 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

HP = Hydropunch ground water sample

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
350 Grand Avenue
Oakland, CA
Wic #204-5510-0204

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)
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Notes:

- a = TPPH/BETX concentrations anomalous with historical data. Lab verified concentrations.
- b = Compounds reported as TPH-D appear to be the less volatile constituents of gasoline.
- c = Compounds reported as TPH-D are primarily due to the presence of a heavier petroleum product, possibly motor oil.
- d = Chromatogram pattern indicated an unidentified hydrocarbon.
- e = Compounds reported as TPH-D are primarily due to the presence of lighter petroleum product, possibly gasoline.
- f = Wells resampled due to anomalous data.

Wells S-1, S-3, S-4, and S-5 surveyed on May 4, 1998 by Virgil Chavez Land Surveying of Vallejo, California.



Report Number : 21201

Date : 8/17/2001

Nick Sudano
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 3 Water Samples
Project Name : 350 Grand Ave., Oakland
Project Number : 010709-C2
P.O. Number : 98995755

Dear Mr. Sudano,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 21201

Date : 8/17/2001

Project Name : 350 Grand Ave., Oakland

Project Number : 010709-C2

Sample : S-1-

Matrix : Water

Lab Number : 21201-01

Sample Date :7/9/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/15/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/15/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/15/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/15/2001
Methyl-t-butyl ether (MTBE)	19	5.0	ug/L	EPA 8260B	7/15/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/15/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	7/15/2001
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	7/15/2001
TPH as Diesel	57	50	ug/L	M EPA 8015	7/18/2001


Sample : S-2-

Matrix : Water

Lab Number : 21201-02

Sample Date :7/9/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	690	50	ug/L	EPA 8260B	7/15/2001
Toluene	62	50	ug/L	EPA 8260B	7/15/2001
Ethylbenzene	210	50	ug/L	EPA 8260B	7/15/2001
Total Xylenes	< 50	50	ug/L	EPA 8260B	7/15/2001
Methyl-t-butyl ether (MTBE)	27000	500	ug/L	EPA 8260B	7/15/2001
TPH as Gasoline	16000	5000	ug/L	EPA 8260B	7/15/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	7/15/2001
4-Bromofluorobenzene (Surr)	98.3		% Recovery	EPA 8260B	7/15/2001
TPH as Diesel	26000	100	ug/L	M EPA 8015	7/25/2001

Approved By:  Joel Kiff



Report Number : 21201

Date : 8/17/2001

Project Name : 350 Grand Ave., Oakland

Project Number : 010709-C2

Sample : S-3-

Matrix : Water

Lab Number : 21201-03

Sample Date : 7/9/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/15/2001
Toluene	0.54	0.50	ug/L	EPA 8260B	7/15/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/15/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/15/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	7/15/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/15/2001
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	7/15/2001
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	7/15/2001
TPH as Diesel	< 50	50	ug/L	M EPA 8015	7/18/2001

Approved By:  Joel Kiff

Report Number : 21201


Date : 8/17/2001

Project Name : **350 Grand Ave., Oakland**

Project Number : **010709-C2**

21201 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	7/13/2001


Approved By: Joel Kiff

Report Number : 21201

Date : 8/17/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 350 Grand Ave., Oakland

Project Number : 010709-C2

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
TPH as Diesel	Blank	<50	1000	1000	1300	1280	ug/L	M EPA 8015	7/13/2001	130	128	1.40	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  _____
Joel Kiff

Report Number : 21201

Date : 8/17/2001

Project Name : **350 Grand Ave., Oakland**

Project Number : **010709-C2**

21201 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/15/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/15/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/15/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/15/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	7/15/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/15/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	7/15/2001
4-Bromofluorobenzene (Surr)	98.1		% Recovery	EPA 8260B	7/15/2001


Approved By: Joel Kiff

Report Number : 21201

Date : 8/17/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 350 Grand Ave., Oakland

Project Number : 010709-C2

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
Benzene	21211-01	<0.50	21.8	20.9	20.8	19.7	ug/L	EPA 8260B	7/15/2001	195.2	94.2	1.00	70-130	25
Toluene	21211-01	<0.50	21.8	20.9	21.6	20.3	ug/L	EPA 8260B	7/15/2001	198.8	97.3	1.56	70-130	25
Tert-Butanol	21211-01	<5.0	109	104	103	99.0	ug/L	EPA 8260B	7/15/2001	194.2	94.8	0.587	70-130	25
Methyl-t-Butyl Ether	21211-01	<0.50	21.8	20.9	22.4	22.7	ug/L	EPA 8260B	7/15/2001	102	109	5.96	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

QC Report : Laboratory Control Sample (LCS)

Report Number : 21201

Date : 8/17/2001

Project Name : **350 Grand Ave., Oakland**

Project Number : **010709-C2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	19.6	ug/L	EPA 8260B	7/14/2001	94.4	70-130
Toluene	19.6	ug/L	EPA 8260B	7/14/2001	97.9	70-130
Tert-Butanol	97.8	ug/L	EPA 8260B	7/14/2001	96.6	70-130
Methyl-t-Butyl Ether	19.6	ug/L	EPA 8260B	7/14/2001	92.6	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  _____
Joel Kiff

LAB: Kiff

EQUIVA Services LLC Chain Of Custody Record

21201

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 ORKUT HOUSTON

Karen Petryna

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 5

S&E GRANT NUMBER (S&E/GRANT)

DATE: 7-9-01

PAGE: 1 of 1

CONSULTANT COMPANY:
Blaine Tech Services
 ADDRESS:
1680 Rogers Avenue
 CITY:
San Jose, CA 95112
 TELEPHONE: **408-573-0555** FAX: **408-573-7771** E-MAIL: **neudano@blainetech.com**

SITE ADDRESS (Street and City):
350 Grand Ave., Oakland
 PROJECT CONTACT (Report to):
Nick Sudano
 SAMPLER NAME(S) (Print):
Hank Castro

CONSULTANT PROJECT NO.:
BTS # 010709-C2
 LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT LIST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: _____ TEMPERATURE ON RECEIPT C° _____

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (#021B - 6ppb RL)	MTBE (#260B - 0.5 ppbRL)	Oxygenates (#) by (#260)	Ethanol (#260B)	Methanol	1,2-DCA	EDB (#260B)	TPH-Diesel, Extractable (#015m)	MTBE (#260B) Confirmation, See note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
		DATE	TIME														
	S-1-	7/9/2001	1247 W	G	6	X	X								X		-01
	S-2-		1333			X	X								X		-02
	S-3-		1312			X	X								X		-03

Relinquished by: (Signature) <u>Hank Castro</u>	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) <u>John Little / Kiff Analytical</u>	Date: <u>071001</u>	Time: <u>1200</u>

C&G Graphic (714) 868-9702



Report Number : 21664

Date : 8/28/2001

Nick Sudano
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 2 Water Samples
Project Name : 350 Grand Ave., Oakland
Project Number : 010807-J1
P.O. Number : 98995755

Dear Mr. Sudano,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 21664

Date : 8/28/2001

Project Name : 350 Grand Ave., Oakland

Project Number : 010807-J1

Sample : S-4

Matrix : Water

Lab Number : 21664-01

Sample Date :8/7/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/10/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/10/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/10/2001
Total Xylenes	< 1.0	1.0	ug/L	EPA 8260B	8/10/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	8/10/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/10/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	8/10/2001
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	8/10/2001
TPH as Diesel	< 50	50	ug/L	M EPA 8015	8/15/2001

Sample : S-5

Matrix : Water

Lab Number : 21664-02

Sample Date :8/7/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/10/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/10/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/10/2001
Total Xylenes	< 1.0	1.0	ug/L	EPA 8260B	8/10/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	8/10/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/10/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	8/10/2001
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	8/10/2001
TPH as Diesel	< 50	50	ug/L	M EPA 8015	8/15/2001

Approved By:  Joel Kiff

Report Number : 21664

Date : 8/28/2001

Project Name : **350 Grand Ave., Oakland**

Project Number : **010807-J1**

21664 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	8/15/2001

Approved By: Joel Kiff

Report Number : 21664

Date : 8/28/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 350 Grand Ave., Oakland

Project Number : 010807-J1

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
TPH as Diesel	Blank	<50	1000	1000	1240	1140	ug/L	M EPA 8015	8/15/2001	124	114	7.57	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

Report Number : 21664

Date : 8/28/2001

Project Name : **350 Grand Ave., Oakland**

Project Number : **010807-J1**

21664 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2001
Total Xylenes	< 1.0	1.0	ug/L	EPA 8260B	8/11/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	8/11/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/11/2001
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	8/11/2001
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	8/11/2001


Approved By: Joel Kiff

Report Number : 21664

Date : 8/28/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 350 Grand Ave., Oakland

Project Number : 010807-J1

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
Benzene	21664-02	<0.50	19.4	19.1	20.4	20.2	ug/L	EPA 8260B	8/10/2001	105	106	0.497	70-130	25
Toluene	21664-02	<0.50	19.4	19.1	19.8	19.6	ug/L	EPA 8260B	8/10/2001	102	102	0.294	70-130	25
Tert-Butanol	21664-02	<5.0	96.9	95.5	87.3	88.0	ug/L	EPA 8260B	8/10/2001	190.1	92.1	2.23	70-130	25
Methyl-t-Butyl Ether	21664-02	0.56	19.4	19.1	17.0	16.3	ug/L	EPA 8260B	8/10/2001	185.1	82.2	3.40	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

Report Number : 21664

Date : 8/28/2001

QC Report : Laboratory Control Sample (LCS)

Project Name : **350 Grand Ave., Oakland**

Project Number : **010807-J1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	19.3	ug/L	EPA 8260B	8/10/2001	105	70-130
Toluene	19.3	ug/L	EPA 8260B	8/10/2001	101	70-130
Tert-Butanol	96.3	ug/L	EPA 8260B	8/10/2001	91.5	70-130
Methyl-t-Butyl Ether	19.3	ug/L	EPA 8260B	8/10/2001	79.6	70-130

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

LAB: Kiff

EQUIVA Services LLC Chain Of Custody Record 21664

Lab Identification (if necessary):
Address:
City, State, Zip:

Equiva Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CDMT HOUSTON

Karen Petryna

INCIDENT NUMBER (SEE ONLY)

9 8 9 9 5 7 5 5

DATE: 8-7-01

SAMPLE COUNT NUMBER (ITS/CRMT)

PAGE: 1 of 1

CONSULTANT COMPANY:
Blaine Tech Services
ADDRESS:
1680 Rogers Avenue
CITY:
San Jose, CA 95112
PHONE:
408-573-0555 FAX:
408-573-7771 EMAIL:
msudano@alaimback.com

SITE ADDRESS (Street and City):
350 Grand Ave., Oakland
PROJECT CONTACT (Person):
Nick Sudano
CONSULTANT PROJECT NO.:
BTS# 010807-J1

SAMPLER NAME(S) (Print):
J. Kerns
LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT LIST AGENCY:
GC/MS MTBE CONFIRMATION: HIGHEST HIGHEST per BORING ALL

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.	TPH-Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8300B - 0.5 ppbRL)	Dicyanates (J) by (8280)	Ethanol (8280B)	Methanol	1,2-DCA	EDB (8240B)	TPH-Diesel, Extractable (8015M)	MTBE (8240B) Confirmation, See note
	DATE	TIME															
	S-4	8/7	950	H ₂ O	S		X	X	X							X	
	S-5	1	845	L	3X		X	X	X							X	

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

Requested by (Signature):	Received by (Signature):	Date:	Time:
Requested by (Signature):	Received by (Signature):	Date:	Time:
Requested by (Signature):	Received by (Signature):	Date:	Time:

Osama Almorawi / Kiff Analysis 080701 1827

DISTRIBUTE: White with final report, Green to File, Yellow and Pink to Client.

10/16/99 Rev-01

P. 004
TEL: 408 573 7771
BLAINE TECH SERVICES, INC
AUG. -06 01 (MON) 16:56

Chico Graphic 1710 828-9703

WELL GAUGING DATA

Project # 010807-J1 Date 8-7-01 Client Equiva

Site 350 Grand Ave. Oakland CA.

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
S-1	3					7.67	17.70	TOB
S-2	3					8.19	15.09	}
S-3	3					11.48	15.10	
S-4	1					8.77	14.91	
S-5	1					8.97	12.45	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010807-J1	Site: 350 Grand Ave. Oakland.
Sampler: J1C	Date: 8-7-01
Well I.D.: S-4	Well Diameter: 2 3 4 6 8 10
Total Well Depth: 14.91	Depth to Water: 8.77
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
 Middlebung
 Electric Submersible

Water
Peristaltic
 Extraction Pump
 Other _____

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

0.25 (Gals.) X **3** = _____ Gals.
 I Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	1"	0.65
2"	0.16	6"	1.17
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
0930	68.9	6.9	980	>200	0.25	
0935	67.5	6.7	1005	>200	0.50	
0942	67.4	6.6	1020	>200	0.75	

Did well dewater? Yes No

Gallons actually evacuated: **0.75**

Sampling Time: **0950** Sampling Date: **8-7-01**

Sample I.D.: **S-4** Laboratory: **Kier** Sequoia Other _____

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

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

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

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010807-J1	Site: 350 Grand Ave. Oakland
Sampler: JIK	Date: 8-7-01
Well I.D.: S-5	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth: 13.45	Depth to Water: 8.97
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	Watertra Peristaltic <input checked="" type="checkbox"/> Extraction Pump Other _____	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	---	---

$$\frac{\phi.2 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = \frac{\phi.6 \text{ Gals.}}{\text{Calculated Volume}}$$

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	1"	0.65
2"	0.16	6"	1.17
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
0834	64.6	6.1	2033	16	0.2	
0839	64.9	6.1	2042	52	0.4	
0843	65.2	6.1	2102	71	0.6	
-	Well dewatered during sampling / 2.75 Voc's filled. DTW=13.40					
1000	DTW=13.52 filled remaining (3rd) Voc. / only 3 Voc's filled.					

Did well dewater? Yes No Gallons actually evacuated: **0.6**

Sampling Time: **0845** Sampling Date: **8-7-01**

Sample I.D.: **S-5** Laboratory: **Kiff** Sequoia Other _____

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
				2.2
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL GAUGING DATA

Project # 010709-C2 Date 7-9-01 Client Equiva

Site 350 Grand Ave - 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: <u>TOB</u> or TOC
S-1	3					7.95	17.67	
S-2	3					8.35	15.13	
S-3	3					9.70	15.07	
S-4	1	Paved over? Cannot find looked for 20min.						
S-5	1	Paved over? Cannot find						

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010709-C2	Site: 350 Grand Ave
Sampler: Hank	Date: 7-9-01
Well I.D.: S-1	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 17.67	Depth to Water: 7.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method: Bailer Waterra Disposable Bailer Peristaltic Middleburg Extraction Pump Electric Submersible Other _____

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

3.5 (Gals.) X 3 = 10.5 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	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1240	72.5	6.1	615	68	3.5	
1241	72.4	6.3	595	60	7	
1242	72.8	6.5	598	63	10.5	

Did well dewater? Yes No Gallons actually evacuated: 10.5

Sampling Time: 1247 Sampling Date: 7-9-01

Sample I.D.: S-1 Laboratory: Sequoia Columbia Other KIT

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	<u>5.4</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010709-C2	Site: 350 Grand Ave
Sampler: Hank	Date: 7-9-01
Well I.D.: S-2	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: 15.13	Depth to Water: 8.35
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- | | |
|--|--|
| <input type="checkbox"/> Bailer | <input type="checkbox"/> Waterra |
| <input type="checkbox"/> Disposable Bailer | <input type="checkbox"/> Peristaltic |
| <input type="checkbox"/> Middleburg | <input type="checkbox"/> Extraction Pump |
| <input checked="" type="checkbox"/> Electric Submersible | <input type="checkbox"/> Other _____ |

Sampling Method:

- | |
|--|
| <input checked="" type="checkbox"/> Bailer |
| <input type="checkbox"/> Disposable Bailer |
| <input type="checkbox"/> Extraction Port |
| <input type="checkbox"/> Dedicated Tubing |
| Other: _____ |

2.5	(Gals.) X	2	=	7.5	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multplier	Well Diameter	Multplier
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
1325	75.4	6.5	467	>200	2.5	
1326	76.6	6.4	714	>200	5	
1327	75.6	6.6	772	>200	7.5	

Did well dewater? Yes <input type="checkbox"/> <u>No</u>	Gallons actually evacuated: 7.5	
Sampling Time: 1333	Sampling Date: 7-9-01	
Sample I.D.: S-2	Laboratory: Sequoia Columbia Other: <u>KIT</u>	
Analyzed for: <u>TPH-G</u> BTEX MTBE TPH-D Other:		
EB I.D. (if applicable): @ _____ Time	Duplicate I.D. (if applicable):	
Analyzed for: TPH-G BTEX MTBE TPH-D Other:		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>2.1</u> mg/L
C.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010709-C2	Site: 350 Grand Ave
Sampler: Hank	Date: 7-9-01
Well I.D.: S-3	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 15.07	Depth to Water: 9.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- | | |
|--|--|
| <input type="checkbox"/> Bailer
<input type="checkbox"/> Disposable Bailer
<input type="checkbox"/> Middleburg
<input checked="" type="checkbox"/> Electric Submersible | <input type="checkbox"/> Waterra
<input type="checkbox"/> Peristaltic
<input type="checkbox"/> Extraction Pump
<input type="checkbox"/> Other _____ |
|--|--|

Sampling Method:

- | | |
|---|---------------------------------------|
| <input checked="" type="checkbox"/> Bailer
<input type="checkbox"/> Disposable Bailer
<input type="checkbox"/> Extraction Port
<input type="checkbox"/> Dedicated Tubing | <input type="checkbox"/> Other: _____ |
|---|---------------------------------------|

1.9	(Gals.) X	3	=	5.7	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
1305	75.2	6.9	727	7200	2	
1306	75.7	6.7	595	7200	4	
1307	75.2	6.6	609	7200	6	

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Time: 1312 Sampling Date: 7-9-01

Sample I.D.: S-3 Laboratory: Sequoia Columbia Other KIT

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

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

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

D.O. (if req'd): Pre-purge: mg/L Post-purge: 1.4 mg/L

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010709-C2	Site: 350 Grand Ave
Sampler: Hank	Date: 7-9-01
Well I.D.: 5-4	Well Diameter: 2 (3) 4 6 8
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:
 Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
 Electric Submersible Other _____ 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

_____ (Gals.) X _____ = _____ Gals.
 I Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						Paved over? Inaccessible

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: _____ Sampling Date: 7-9-01

Sample I.D.: _____ Laboratory: Sequoia Columbia Other KIT

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

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

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

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

EQUVA WELL MONITORING DATA SHEET

BTS #: 010709-02	Site: 350 Grand Ave
Sampler: Hank	Date: 7-9-01
Well I.D.: S-5	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible
 Waterra
 Peristaltic
 Extraction Pump
 Other: _____

Sampling Method:

Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

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

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.63
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						Paved over? Inaccessible

Did well dewater? Yes No

Gallons actually evacuated: _____

Sampling Time: _____

Sampling Date: 7-9-01

Sample I.D.: _____

Laboratory: Sequoia Columbia Other KIT

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

EB I.D. (if applicable): _____ @ _____

Duplicate I.D. (if applicable): _____

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

D.O. (if req'd): _____

Pre-purge: _____

mg/L

Post-purge: _____

mg/L

O.R.P. (if req'd): _____

Pre-purge: _____

mV

Post-purge: _____

mV

ATTACHMENT B
DVE Test Analytical Results and Field Notes



Report Number : 21007

Date : 7/5/2001

Jaquelyn Jones
Cambria Environmental Technology, Inc.
1144 65th Street, Suite B
Oakland, CA 94608

Subject : 1 Air Sample
Project Name : 350 GRAND AVE, OAKLAND, CA
Project Number :
P.O. Number : 98995755

Dear Ms. Jones,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Report Number : 21007

Date : 7/5/2001

Project Name : 350 GRAND AVE, OAKLAND, CA

Project Number :

Sample : S-2

Matrix : Air

Lab Number : 21007-01

Sample Date :6/27/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	7.6	2.0	ppmv	EPA 8260B	6/29/2001
Toluene	< 2.0	2.0	ppmv	EPA 8260B	6/29/2001
Ethylbenzene	2.9	2.0	ppmv	EPA 8260B	6/29/2001
Total Xylenes	< 2.0	2.0	ppmv	EPA 8260B	6/29/2001
Methyl-t-butyl ether	15	4.0	ppmv	EPA 8260B	6/29/2001
TPH as Gasoline	7600	200	ppmv	EPA 8260B	6/29/2001
Toluene - d8 (Surr)	82.4		% Recovery	EPA 8260B	6/29/2001
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	6/29/2001

Approved By:  Joel Kiff

KIFF

21007

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager (To be Involved):		INCIDENT NUMBER (S&E)
Science & Engineering (S&E)	X	90995755
Technical Services (TS)		SAP or CRMT NUMBER (TS/CRMT)
CRMT Houston		

KAREN PETRYNA

DATE: 6/27/01

PAGE: 1 OF 1

CONSULTANT COMPANY: CAMDRIA ENV.	ADDRESS: 1144 65th ST.	CITY: OAKLAND, CA	TEL: 510) 420-3316	FAX: 510) 420-9170	EMAIL:	SITE ADDRESS (Street and City): 530 GRAND AVE, OAKLAND, CA.	PROJECT CONTACT (Report to): JACQUELYN JONES	CONSULTANT PROJECT NO.:
TURNAROUND TIME (BUSINESS DAYS)						SAMPLER NAME(S) (Tag): JIMMIE COUCH		

TURNAROUND TIME (BUSINESS DAYS)

10 DAYS 5 DAYS 72 HR 48 HR 24 HR <24 HR

LA-RWOCB REPORT FORMAT UST AGENCY:

OCMS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT (C) _____

REPORT RESULTS IN PPM/V
LOWEST POSSIBLE DETECTION

REQUESTED ANALYSIS

TPH - Purgeable (8015m)	TPH - Extractable (8015m)	BTEX / MTBE (8021B)	BTEX / MTBE + Oxygenates (8200B)	VOCs Full List + Oxygenates (8280B)	MTBE (8200B) Confirmation, See Note	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	Ethanol, Methanol (8015B)	Metals (Specify)	TRPH (415.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3415m)	Vapor Pinn Osmes (ASTM D1946)	Test for Disposal (48-_____)	Field Notes: Container/Preservative or PID Readings or Laboratory Notes
X	X															01

LAB USE ONLY	Field Sample Identification	SAMPLING		MAT. REX	NO. or COND.
		DATE	TIME		
	S-2	6/27/01	11:45am	AIR	Z

Introduced by (Signature):	Received by (Signature): _____	Date: _____	Time: _____
Introduced by (Signature): _____	Received by (Signature): _____	Date: _____	Time: _____
Introduced by (Signature): _____	Received by (Signature):	Date: 062701	Time: 1230

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/15/00 Revision

DVE Vac Ops Field Data

Date: 6/27/01
 Technician: SO
 Site Address: 350 Grande

FAXED
 10/12
 TO: JACQUEL-TH
 FROM: DAN

1 PG.

TRUCK VAC
 A/B
 WELL VAC
 S-Z

Time	Time Since Start of Test (Minute)	↓ Vacuum Truck and Carbon HORIBA				↓ Extraction Well:			Monitoring Well:		Monitoring Well:	
		Air Velocity (fpm)	Vacuum (in. Hg)	Influent (ppm)	Midfluent (ppm)	Effluent (ppm)	Vacuum (in Hg)	PID (ppm)	DTW (lbq)	Vacuum (in H2O)	DTW (lbq)	Vacuum (in H2O)
7:30								7.78	←	STATIC		
7:45	0	5.65	22	721	921/819	428	20	5260				
8:15	30	5.85	22	2895	1053/891	583	20	10160				
8:45	60	3.14	25	13740	1521/1760	8598	25	14540				
9:15	90	3.12	25	14370	1567/1536	802	25	13480				
9:45	120	1.42	28	1790	1538/1550	910	26	12510				
10:15	150	1.33	28	13200	1582/1569	683	24	14260				
10:45	180	1.79	28	12960	1580/1610	720	24	13820				
11:15	210	2.68	28	13330	1590/1650	700	25	14200				
11:45	240	2.49	28	10960	1340/1520	984	25	12480				

- Notes:
- 30 GAL. H₂O
 - RE-CALIBRATED HORIBA @ 10:00 AM
 - SAMPLES TAKEN @ 11:45
 - DRUMS WILL BE DROPPED ON SITE AFTER EVENT
 - LABELED DRUMS W/ NONHAZARDOUS LABELS

3

Faxed on
 28 July
 to AK

TOTAL P. 01

Test No. _____

OCT-12-2001 10:34
 CAMBRIA
 P. 01/01