

# C A M B R I A

March 1, 2002

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

Re: **Fourth Quarter 2001 Monitoring Report**  
Shell-branded Service Station  
6039 College Avenue  
Oakland, California  
Incident #98995745  
Cambria Project #244-0503-002



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.

## FOURTH QUARTER 2001 ACTIVITIES

**Groundwater Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California checked site monitoring wells for separate-phase hydrocarbons (SPH), measured dissolved oxygen (DO) levels, gauged water levels, and calculated groundwater elevations. Cambria prepared a vicinity map which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, including the laboratory report and supporting field documents, is included as Attachment A.

**Additional Oxygenate Analysis:** In addition to the regular quarterly analysis for total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes, and methyl-tertiary-butyl ether (MTBE), groundwater samples from monitoring wells MW-3 and MW-6 were analyzed for five additional oxygenates. Analytical results for MTBE, di-isopropyl ether, ethyl tert-butyl ether, tert-amyl methyl ether, tert-butyl alcohol, and ethanol are presented on Table 1.

**Separate-Phase and Dissolved-Phase Hydrocarbon Removal:** Weekly extraction of SPH and dissolved-phase hydrocarbons was initiated at this site in September of 1999. Advanced Cleanup Technologies, Inc. of Benicia, California extracted SPH and groundwater from wells MW-3 and

Oakland, CA  
San Ramon, CA  
Sonoma, CA

**Cambria  
Environmental  
Technology, Inc.**

1144 65th Street  
Suite B  
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Tel (510) 420-0700  
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MW-4 with a vacuum truck between September 22 and November 10, 1999. Beginning November 10, 1999, Blaine took over the weekly purging events as the volume of groundwater and SPH removed each week was not sufficient to warrant using a vacuum truck. Due to the absence of SPH in MW-4, weekly purging events by Blaine were discontinued on June 8, 2000. SPH reappeared in the second and third quarters of 2001, and monthly extraction was resumed in December 2001. No SPH was detected in the fourth quarter of 2001. Field data collected from vacuum truck operations and Blaine purging is included in Table 2. Groundwater monitoring and extraction data are depicted graphically in Figures 3 and 4.



### ANTICIPATED FIRST QUARTER 2002 ACTIVITIES

**Groundwater Extraction (GWE):** Monthly mobile GWE will be conducted using MW-3 and MW-4. Cambria will use tabulated groundwater extraction data to compare the effectiveness of mobile GWE with previously tested dual-phase vacuum extraction and soil-vapor extraction as remediation options for this site.

**Groundwater Monitoring:** Blaine will measure and remove any detected SPH, gauge all wells, sample selected site wells if no SPH are present, measure DO levels, and tabulate the data. Cambria will prepare a monitoring report.

**Additional Total Recoverable Petroleum Hydrocarbons Analysis and Silica Gel Cleanup:** As requested in a letter dated August 16, 2001 from the Alameda County Health Care Services Agency, groundwater samples from MW-3 and MW-4 will be cleaned up using silica gel prior to analysis. Silica gel cleanup is used to mitigate possible interference caused by polar biogenic material that may naturally occur in groundwater or result from the biodegradation of petroleum hydrocarbons. Cambria will tabulate the results.

# C A M B R I A

Don Hwang  
March 1, 2002

## CLOSING

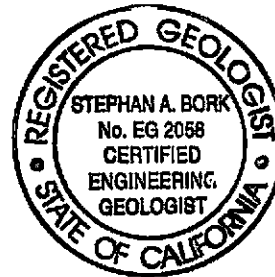
We appreciate the opportunity to work with you on this project. Please call Melody Munz at (510) 420-3324 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**



*Stephan A. Bork*  
for: Melody Munz  
Project Engineer

*[Signature]*  
Stephan A. Bork, C.E.G., C.H.G.  
Associate Hydrogeologist



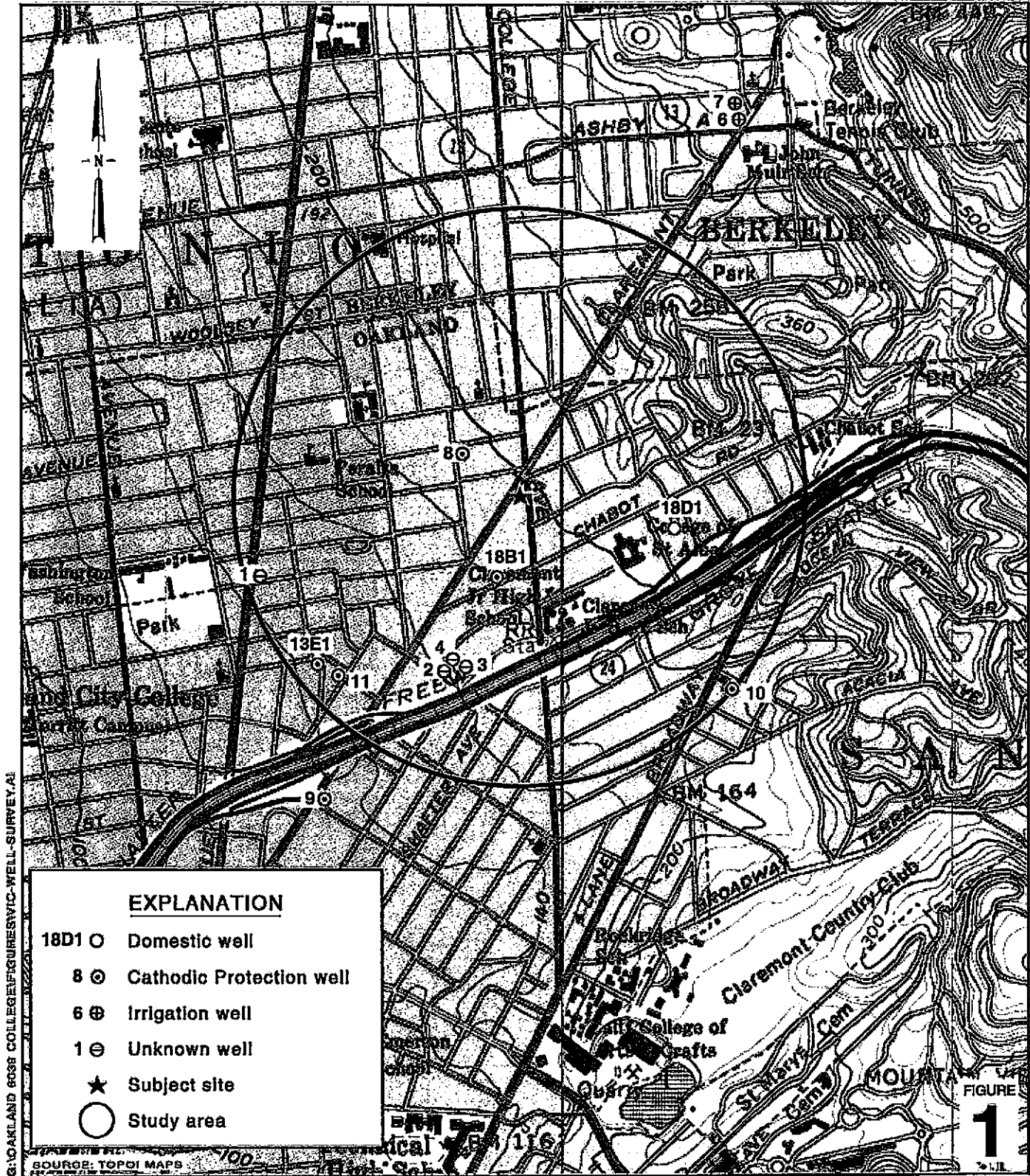
Figures: 1 - Vicinity Map/Area Well Survey  
2 - Groundwater Elevation Contour Map  
3 - VacOps/DVE Effect on MTBE Concentration – MW-3  
4 - VacOps/DVE Effect on MTBE Concentration – MW-4

Tables: 1 - Groundwater Analytical Data - Oxygenates  
2 - Groundwater Extraction Mass Removal Data

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869  
Russell J. Bruzzone, Inc. 899 Hope Lane, Lafayette, CA 94549  
Montrose Investment Co., 242 Rivera Circle, Greenbrae Marina, Larkspur, CA 94939  
Attn: Jim Graham

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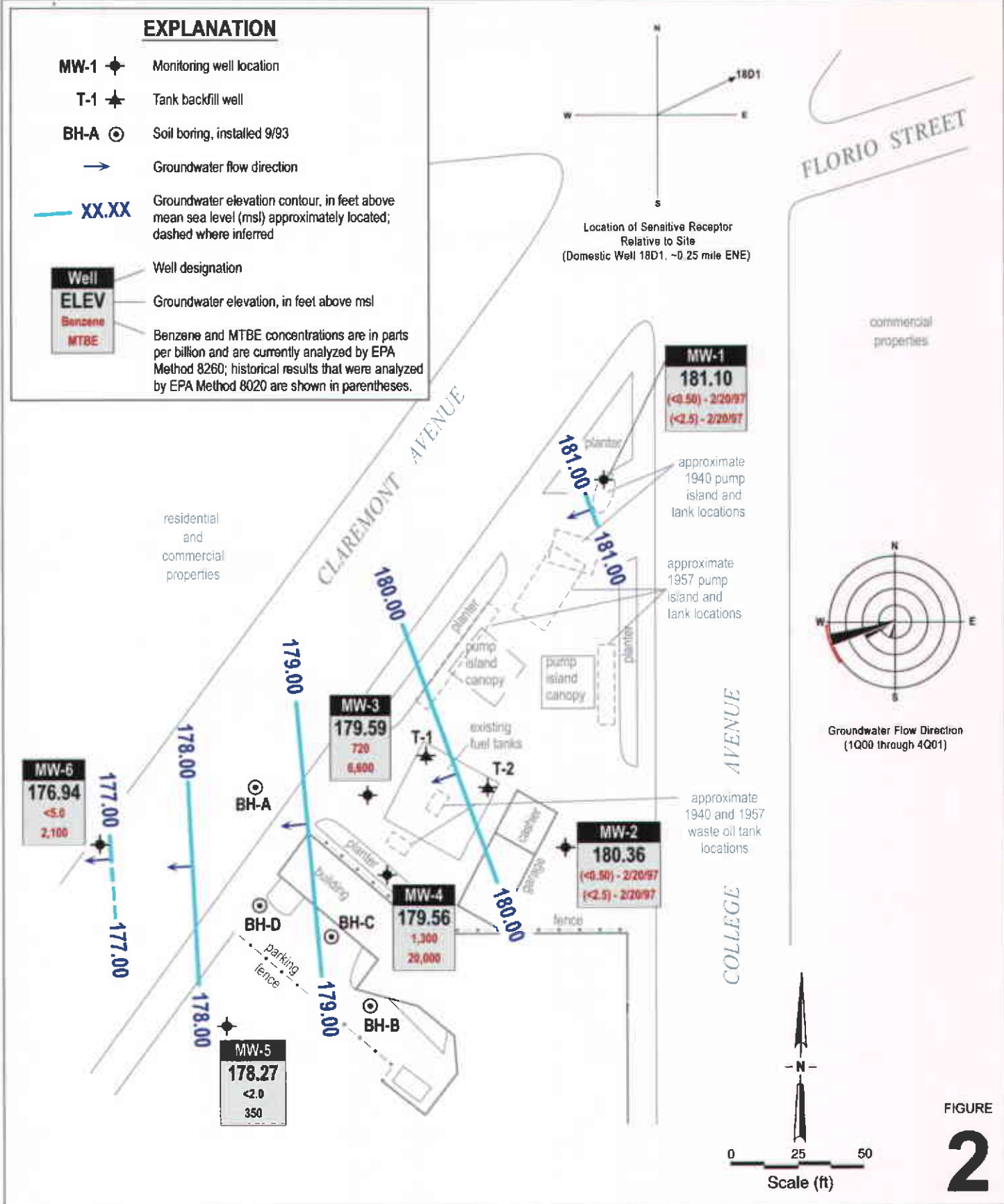


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**Shell-branded Service Station**  
 6039 College Avenue  
 Oakland, California  
 Incident #98995745



**Vicinity / Area Well  
 Survey Map**  
 1/2 Mile Radius



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**Shell-branded Service Station**  
 6039 College Avenue  
 Oakland, California  
 Incident #98995745



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**Groundwater Elevation Contour Map**

December 12, 2001

Date	DTW-ft
2/11/00	12.85
5/4/00	17.05
8/31/00	16.47
8/31/00	14.26
11/30/00	15.75
2/13/01	13.05
5/29/01	13.84
7/30/01	15.46
12/12/01	12.93

VacOps/DVE effect on MTBE concentration  
6039 College, Oakland - MW-3

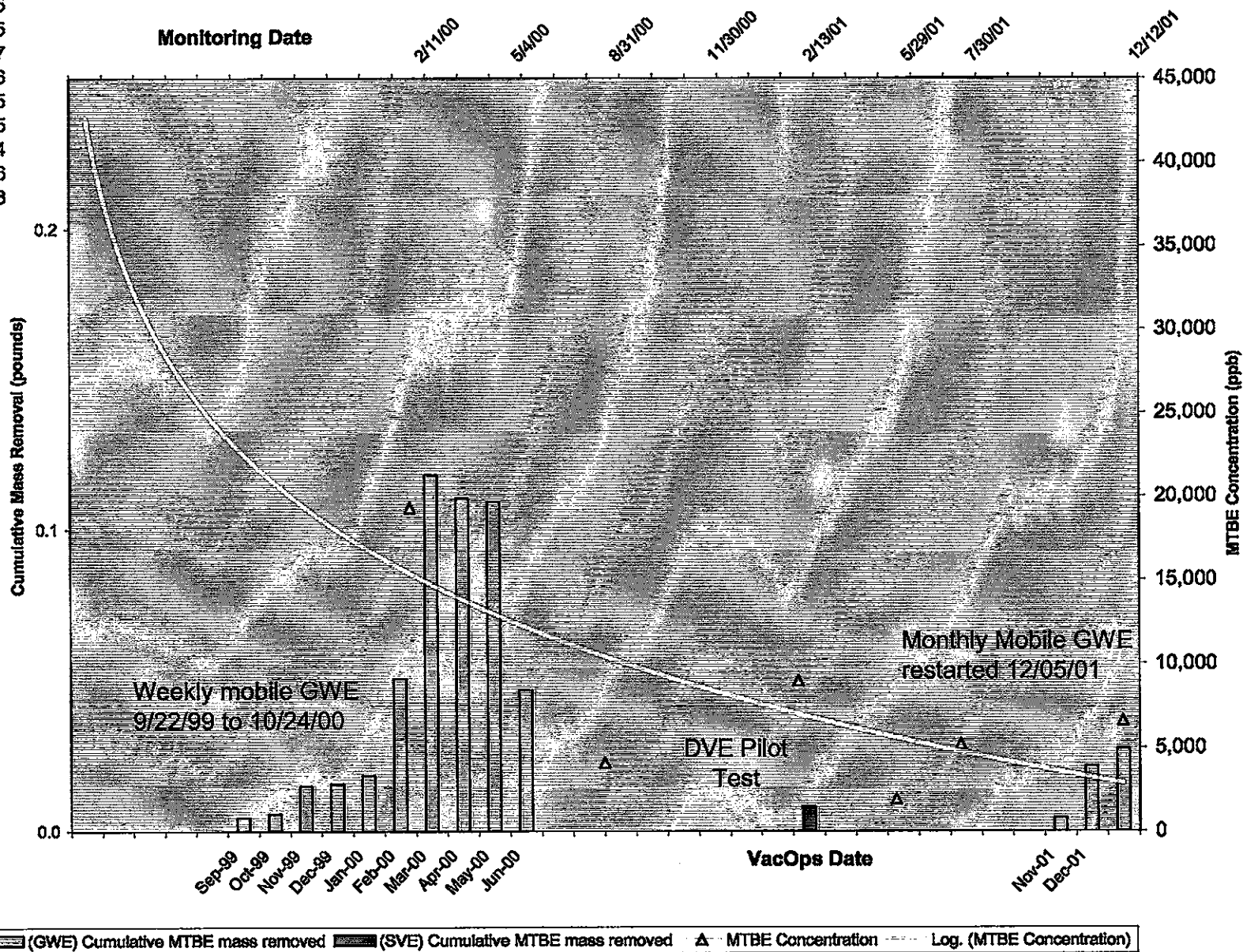


Figure 3



VacOps/DVE effect on MTBE concentration  
6039 College, Oakland - MW-4

Date	DTW-ft
2/11/00	14.82
5/4/00	12.64
8/31/00	16.47
11/30/00	17.67
2/13/01	13.30
5/31/01	15.08
7/30/01	16.28
12/12/01	13.81

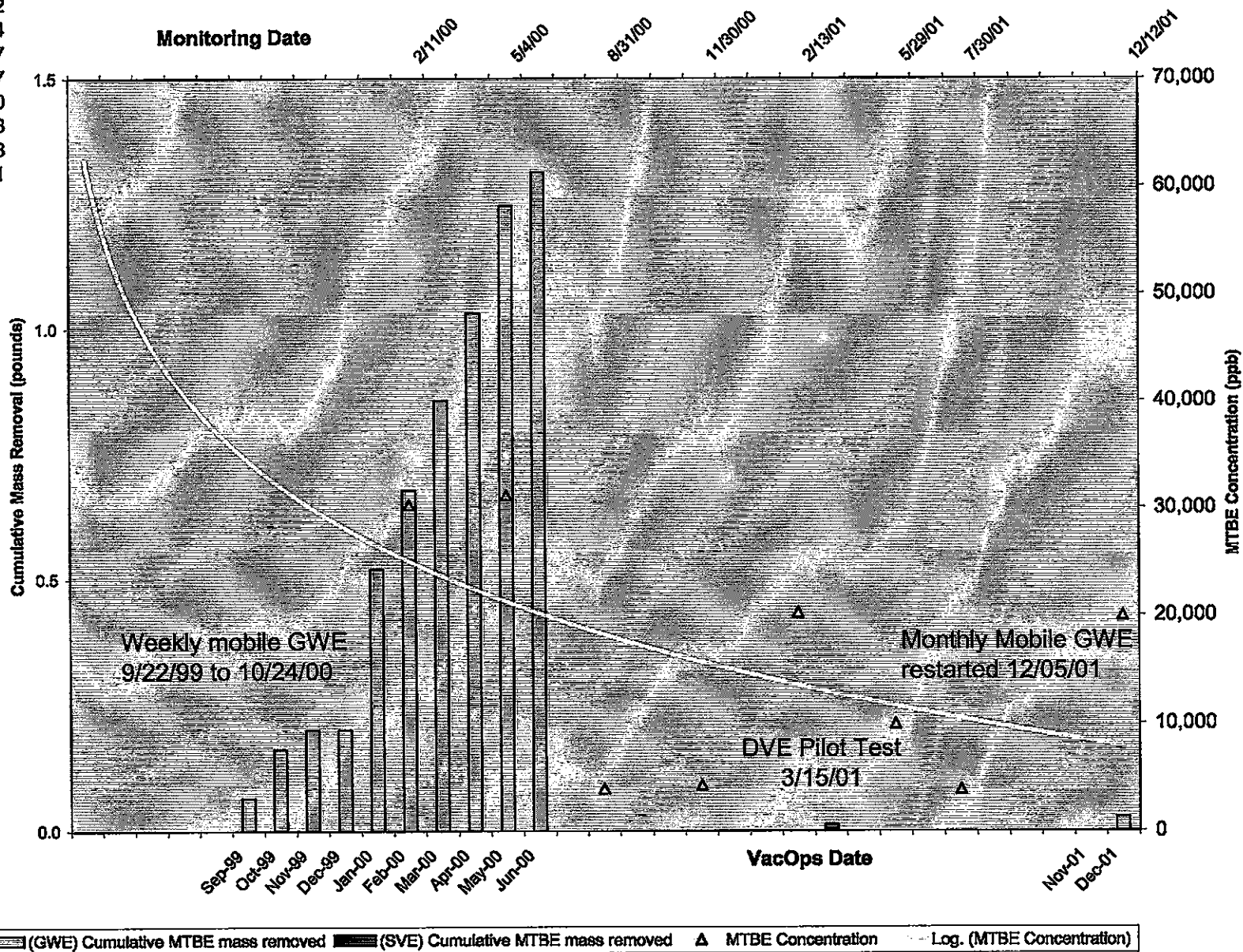


Figure 4

# CAMBRIA

**Table 1. Groundwater Analytical Data - Oxygenates - Shell-branded Service Station, Incident #98995745, 6039 College Avenue, Oakland, California**

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	Ethanol
		← (Concentrations in ppb) →					
MW-3	12/12/01	6,600	<100	<100	<100	<1,000	<1,000
MW-6	12/12/01	2,100	<5.0	<5.0	<5.0	97	<500

**Abbreviations:**

MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260  
 DIPE = Di-isopropyl ether, analyzed by EPA Method 8260  
 ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260  
 TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260  
 TBA = Tert-butyl alcohol, analyzed by EPA Method 8260  
 Ethanol analyzed by EPA Method 8260  
 ppb = Parts per billion



**Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995745, 6039 College 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)
09/22/99	MW-3	115	115	08/31/99	1,550	0.00149	0.00149	232	0.00022	0.00022	4,620	0.00443	0.00443
10/06/99	MW-3	40	155	08/31/99	1,550	0.00052	0.00200	232	0.00008	0.00030	4,620	0.00154	0.00598
10/14/99	MW-3	50	205	08/31/99	1,550	0.00065	0.00265	232	0.00010	0.00040	4,620	0.00193	0.00790
10/18/99	MW-3	30	235	08/31/99	1,550	0.00039	0.00304	232	0.00006	0.00045	4,620	0.00116	0.00906
10/29/99	MW-3	30	265	08/31/99	1,550	0.00039	0.00343	232	0.00006	0.00051	4,620	0.00116	0.01022
11/03/99	MW-3	30	295	08/31/99	1,550	0.00039	0.00382	232	0.00006	0.00057	4,620	0.00116	0.01137
11/10/99	MW-3	30	325	08/31/99	1,550	0.00039	0.00420	232	0.00006	0.00063	4,620	0.00116	0.01253
11/19/99	MW-3	169	494	08/31/99	1,550	0.00219	0.00639	232	0.00033	0.00096	4,620	0.00652	0.01904
11/24/99	MW-3	160	654	08/31/99	1,550	0.00207	0.00846	232	0.00031	0.00127	4,620	0.00617	0.02521
12/02/99	MW-3	200	854	08/31/99	1,550	0.00259	0.01105	232	0.00039	0.00165	4,620	0.00771	0.03292
12/10/99	MW-3	60	914	08/31/99	1,550	0.00078	0.01182	232	0.00012	0.00177	4,620	0.00231	0.03524
12/17/99	MW-3	150	1,064	08/31/99	1,550	0.00194	0.01376	232	0.00029	0.00206	4,620	0.00578	0.04102
01/03/00	MW-3	0	1,064	08/31/99	1,550	0.00000	0.01376	232	0.00000	0.00206	4,620	0.00000	0.04102
01/07/00	MW-3	0	1,064	08/31/99	1,550	0.00000	0.01376	232	0.00000	0.00206	4,620	0.00000	0.04102
01/13/00	MW-3	360	1,424	08/31/99	1,550	0.00466	0.01842	232	0.00070	0.00276	4,620	0.01388	0.05490
01/21/00	MW-3	40	1,464	08/31/99	1,550	0.00052	0.01894	232	0.00008	0.00283	4,620	0.00154	0.05644
01/25/00	MW-3	80	1,544	08/31/99	1,550	0.00103	0.01997	232	0.00015	0.00299	4,620	0.00308	0.05952
02/01/00	MW-3	165	1,709	08/31/99	1,550	0.00213	0.02210	232	0.00032	0.00331	4,620	0.00636	0.06588
02/11/00	MW-3	24	1,733	02/11/00	10,900	0.00218	0.02429	1,030	0.00021	0.00351	19,300	0.00387	0.06975
02/15/00	MW-3	150	1,883	02/11/00	10,900	0.01364	0.03793	1,030	0.00129	0.00480	19,300	0.02416	0.09391
02/23/00	MW-3	100	1,983	02/11/00	10,900	0.00910	0.04703	1,030	0.00086	0.00566	19,300	0.01610	0.11001
03/02/00	MW-3	168	2,151	02/11/00	10,900	0.01528	0.06231	1,030	0.00144	0.00711	19,300	0.02706	0.13707
03/10/00	MW-3	270	2,421	02/11/00	10,900	0.02456	0.08686	1,030	0.00232	0.00943	19,300	0.04348	0.18055
03/15/00	MW-3	96	2,517	02/11/00	10,900	0.00873	0.09559	1,030	0.00083	0.01025	19,300	0.01546	0.19601
03/21/00	MW-3	100	2,617	02/11/00	10,900	0.00910	0.10469	1,030	0.00086	0.01111	19,300	0.01610	0.21211
03/27/00	MW-3	100	2,717	02/11/00	10,900	0.00910	0.11378	1,030	0.00086	0.01197	19,300	0.01610	0.22822
04/07/00	MW-3	160	2,877	02/11/00	10,900	0.01455	0.12834	1,030	0.00138	0.01335	19,300	0.02577	0.25399
04/13/00	MW-3	120	2,997	02/11/00	10,900	0.01091	0.13925	1,030	0.00103	0.01438	19,300	0.01933	0.27331

**Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995745, 6039 College 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 To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)
04/18/00	MW-3	180	3,177	02/11/00	10,900	0.01637	0.15562	1,030	0.00155	0.01593	19,300	0.02899	0.30230
04/26/00	MW-3	225	3,402	02/11/00	10,900	0.02046	0.17609	1,030	0.00193	0.01786	19,300	0.03624	0.33853
05/04/00	MW-3	160	3,562	02/11/00	10,900	0.01455	0.19064	1,030	0.00138	0.01923	19,300	0.02577	0.36430
05/09/00	MW-3	180	3,742	02/11/00	10,900	0.01637	0.20701	1,030	0.00155	0.02078	19,300	0.02899	0.39329
05/17/00	MW-3	138	3,880	02/11/00	10,900	0.01255	0.21956	1,030	0.00119	0.02197	19,300	0.02222	0.41551
05/22/00	MW-3	200	4,080	02/11/00	10,900	0.01819	0.23775	1,030	0.00172	0.02369	19,300	0.03221	0.44772
06/01/00	MW-3	120	4,200	02/11/00	10,900	0.01091	0.24867	1,030	0.00103	0.02472	19,300	0.01933	0.46705
06/08/00	MW-3	170	4,370	02/11/00	10,900	0.01546	0.26413	1,030	0.00146	0.02618	19,300	0.02738	0.49443
11/05/01	MW-3	100	4,470	07/30/01	2,700	0.00225	0.26638	250	0.00021	0.02639	5,200	0.00434	0.49877
12/05/01	MW-3	500	4,970	07/30/01	2,700	0.01126	0.27765	250	0.00104	0.02743	5,200	0.02170	0.52046
01/25/02	MW-3	500	5,470	12/12/01	<10,000	0.02086	0.29851	720	0.00300	0.03043	6,600	0.02754	0.54800
09/22/99	MW-4	100	100	11/03/97	32,000	0.02670	0.02670	1,100	0.00092	0.00092	78,000	0.06509	0.06509
10/06/99	MW-4	60	160	11/03/97	32,000	0.01602	0.04272	1,100	0.00055	0.00147	78,000	0.03905	0.10414
10/14/99	MW-4	30	190	11/03/97	32,000	0.00801	0.05073	1,100	0.00028	0.00174	78,000	0.01953	0.12366
10/18/99	MW-4	30	220	11/03/97	32,000	0.00801	0.05874	1,100	0.00028	0.00202	78,000	0.01953	0.14319
10/29/99	MW-4	30	250	11/03/97	32,000	0.00801	0.06675	1,100	0.00028	0.00229	78,000	0.01953	0.16271
11/03/99	MW-4	30	280	11/03/97	32,000	0.00801	0.07477	1,100	0.00028	0.00257	78,000	0.01953	0.18224
11/10/99	MW-4	30	310	11/03/97	32,000	0.00801	0.08278	1,100	0.00028	0.00285	78,000	0.01953	0.20177
11/19/99	MW-4	0	310	11/03/97	32,000	0.00000	0.08278	1,100	0.00000	0.00285	78,000	0.00000	0.20177
11/24/99	MW-4	0	310	11/03/97	32,000	0.00000	0.08278	1,100	0.00000	0.00285	78,000	0.00000	0.20177
12/02/99	MW-4	0	310	11/03/97	32,000	0.00000	0.08278	1,100	0.00000	0.00285	78,000	0.00000	0.20177
12/10/99	MW-4	0	310	11/03/97	32,000	0.00000	0.08278	1,100	0.00000	0.00285	78,000	0.00000	0.20177
12/17/99	MW-4	0	310	11/03/97	32,000	0.00000	0.08278	1,100	0.00000	0.00285	78,000	0.00000	0.20177
01/03/00	MW-4	0	310	11/03/97	32,000	0.00000	0.08278	1,100	0.00000	0.00285	78,000	0.00000	0.20177
01/07/00	MW-4	0	310	11/03/97	32,000	0.00000	0.08278	1,100	0.00000	0.00285	78,000	0.00000	0.20177
01/13/00	MW-4	350	660	11/03/97	32,000	0.09346	0.17623	1,100	0.00321	0.00606	78,000	0.22780	0.42957
01/21/00	MW-4	40	700	11/03/97	32,000	0.01068	0.18691	1,100	0.00037	0.00643	78,000	0.02603	0.45560

**Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995745, 6039 College 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)
01/25/00	MW-4	100	800	11/03/97	32,000	0.02670	0.21362	1,100	0.00092	0.00734	78,000	0.06509	0.52069
02/01/00	MW-4	165	965	11/03/97	32,000	0.04406	0.25767	1,100	0.00151	0.00886	78,000	0.10739	0.62808
02/11/00	MW-4	19	984	02/11/00	47,200	0.00748	0.26516	905	0.00014	0.00900	27,400	0.00434	0.63242
02/15/00	MW-4	100	1,084	02/11/00	47,200	0.03939	0.30454	905	0.00076	0.00976	27,400	0.02286	0.65529
02/23/00	MW-4	100	1,184	02/11/00	47,200	0.03939	0.34393	905	0.00076	0.01051	27,400	0.02286	0.67815
03/02/00	MW-4	270	1,454	02/11/00	47,200	0.10634	0.45027	905	0.00204	0.01255	27,400	0.06173	0.73988
03/10/00	MW-4	220	1,674	02/11/00	47,200	0.08665	0.53692	905	0.00166	0.01421	27,400	0.05030	0.79018
03/15/00	MW-4	96	1,770	02/11/00	47,200	0.03781	0.57473	905	0.00072	0.01494	27,400	0.02195	0.81213
03/21/00	MW-4	100	1,870	02/11/00	47,200	0.03939	0.61411	905	0.00076	0.01569	27,400	0.02286	0.83499
03/27/00	MW-4	100	1,970	02/11/00	47,200	0.03939	0.65350	905	0.00076	0.01645	27,400	0.02286	0.85786
04/07/00	MW-4	113	2,083	02/11/00	47,200	0.04451	0.69800	905	0.00085	0.01730	27,400	0.02584	0.88369
04/13/00	MW-4	110	2,193	02/11/00	47,200	0.04332	0.74133	905	0.00083	0.01813	27,400	0.02515	0.90884
04/18/00	MW-4	225	2,418	02/11/00	47,200	0.08862	0.82994	905	0.00170	0.01983	27,400	0.05144	0.96029
04/26/00	MW-4	315	2,733	02/11/00	47,200	0.12406	0.95401	905	0.00238	0.02221	27,400	0.07202	1.03231
05/04/00	MW-4	150	2,883	02/11/00	47,200	0.05908	1.01308	905	0.00113	0.02334	27,400	0.03430	1.06660
05/09/00	MW-4	315	3,198	02/11/00	47,200	0.12406	1.13715	905	0.00238	0.02572	27,400	0.07202	1.13862
05/17/00	MW-4	270	3,468	02/11/00	47,200	0.10634	1.24349	905	0.00204	0.02776	27,400	0.06173	1.20035
05/22/00	MW-4	200	3,668	02/11/00	47,200	0.07877	1.32226	905	0.00151	0.02927	27,400	0.04573	1.24608
06/05/00	MW-4	125	3,793	02/11/00	47,200	0.04923	1.37149	905	0.00094	0.03021	27,400	0.02858	1.27466
06/08/00	MW-4	170	3,963	02/11/00	47,200	0.06696	1.43845	905	0.00128	0.03150	27,400	0.03887	1.31353
11/05/01	MW-4*	0	3,963	07/30/01	6,700	0.00000	1.43845	260	0.00000	0.03150	3,900	0.00000	1.31353
12/05/01	MW-4	850	4,813	07/30/01	6,700	0.04752	1.48597	260	0.00184	0.03334	3,900	0.02766	1.34119
01/25/02	MW-4	578	5,391	12/12/01	15,000	0.07235	1.55831	1,300	0.00627	0.03961	20,000	0.09646	1.43765
<b>Total Gallons Extracted:</b>		<b>10,861</b>		<b>Total Pounds Removed:</b>		<b>1.85682</b>		<b>0.07005</b>		<b>1.98565</b>		<b>0.32027</b>	
				<b>Total Gallons Removed:</b>		<b>0.30440</b>		<b>0.00960</b>					

**Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995745, 6039 College Avenue, Oakland, California**

Date	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE			
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)	

**Abbreviations & Notes:**

TPPH = Total purgeable hydrocarbons as gasoline

MtBE = Methyl tert-butyl ether

ppb = Parts per billion

gal = Gallon

Mass removed based on the formula: volume extracted (gal) x Concentration ( $\mu\text{g/L}$ ) x ( $\text{g}/10^6\mu\text{g}$ ) 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 analyzed by EPA Method 8015/8020

MTBE analyzed by EPA Method 8260 in bold font, all other MTBE analyzed by EPA Method 8020

Concentrations based on most recent groundwater monitoring results

Groundwater extracted by vacuum trucks provided by ACTI between September 22, 1999 and November 10, 1999, and from November 5, 2001 and on, and by Blaine Tech Services from November 19, 1999 to June 8, 2000. Water disposed of at a Martinez refinery.

\* = Well dry.

**ATTACHMENT A**  
**Blaine Groundwater Monitoring Report**  
**and Field Notes**

**BLAINE**  
TECH SERVICES, INC.



1680 ROGERS AVENUE  
SAN JOSE, CA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE  
CONTRACTOR'S LICENSE #746684  
www.blainetech.com

January 10, 2002

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

Fourth Quarter 2001 Groundwater Monitoring at  
Shell-branded Service Station  
6039 College Avenue  
Oakland, CA

Monitoring performed on December 12, 2001

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**Groundwater Monitoring Report 011212-CW-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, 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. Purge water (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,

Leon Gearhart  
Project Coordinator

LG/jt

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

cc: Anni Kreml  
Cambria Environmental Technologies, Inc.  
1144 65<sup>th</sup> Street, Suite C  
Oakland, CA 94608



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
MW-1	02/15/1990	95	650	ND	0.67	0.37	3.2	NA	NA	195.89	17.73	NA	178.16	NA	NA
MW-1	04/19/1990	NA	NA	NA	NA	NA	NA	NA	NA	195.89	18.51	NA	177.38	NA	NA
MW-1	05/14/1990	95	ND	0.7	0.57	0.71	3.5	NA	NA	195.89	18.92	NA	176.97	NA	NA
MW-1	06/21/1990	NA	NA	NA	NA	NA	NA	NA	NA	195.89	18.21	NA	177.68	NA	NA
MW-1	09/12/1990	ND	84	ND	ND	ND	ND	NA	NA	195.89	19.81	NA	176.08	NA	NA
MW-1	11/27/1990	NA	NA	NA	NA	NA	NA	NA	NA	195.89	20.39	NA	175.50	NA	NA
MW-1	03/08/1991	ND	50	ND	ND	ND	ND	NA	NA	195.89	16.85	NA	179.04	NA	NA
MW-1	06/03/1991	ND	ND	ND	ND	ND	ND	NA	NA	195.89	17.82	NA	178.07	NA	NA
MW-1	08/30/1991	16.85	520	ND	ND	ND	ND	NA	NA	195.89	19.87	NA	176.02	NA	NA
MW-1	11/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	20.58	NA	175.31	NA	NA
MW-1	03/18/1992	<30	<50	<0.3	<0.3	<0.3	<0.3	NA	NA	195.89	13.55	NA	182.34	NA	NA
MW-1	05/28/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	17.08	NA	178.81	NA	NA
MW-1	08/19/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	19.07	NA	176.82	NA	NA
MW-1	11/17/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	20.11	NA	175.78	NA	NA
MW-1	02/12/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	12.10	NA	183.79	NA	NA
MW-1	06/10/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	14.87	NA	181.02	NA	NA
MW-1	08/18/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	16.90	NA	178.99	NA	NA
MW-1	11/19/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	19.72	NA	176.17	NA	NA
MW-1	02/28/1994	<50	NA	<0.5	<0.5	<0.5	1.7	NA	NA	195.89	15.08	NA	180.81	NA	NA
MW-1	05/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	17.20	NA	178.69	NA	NA
MW-1	08/10/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	18.76	NA	177.13	NA	NA
MW-1	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	16.00	NA	179.89	NA	NA
MW-1	02/01/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	10.18	NA	185.71	NA	NA
MW-1	05/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	11.88	NA	184.01	NA	NA
MW-1	08/24/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	15.60	NA	180.29	NA	NA
MW-1	11/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	18.24	NA	177.65	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
MW-1	02/24/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	195.89	9.88	NA	186.01	NA	NA
MW-1	05/22/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	195.89	12.24	NA	183.65	NA	NA
MW-1	08/19/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	195.89	15.86	NA	180.03	NA	NA
MW-1	12/05/1996	160	NA	7.3	8.2	5.5	23	<2.5	NA	195.89	16.21	NA	179.68	NA	NA
MW-1	01/08/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	195.89	9.73	NA	186.16	NA	NA
MW-1	02/20/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	195.89	11.60	NA	184.29	NA	NA
MW-1	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	195.89	15.02	NA	180.87	NA	NA
MW-1	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	195.89	17.20	NA	178.69	NA	NA
MW-1	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	195.89	16.02	NA	179.87	NA	NA
MW-1	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	195.89	9.35	NA	186.54	NA	NA
MW-1	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	195.89	11.75	NA	184.14	NA	NA
MW-1	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	195.89	13.32	NA	182.57	NA	NA
MW-1	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	195.89	14.01	NA	181.88	NA	NA
MW-1	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	195.89	15.62	NA	180.27	NA	NA
MW-1	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	195.89	14.72	NA	181.17	NA	NA
MW-1	08/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	195.89	17.00	NA	178.89	NA	NA
MW-1	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	195.89	18.36	NA	177.53	NA	NA
MW-1	02/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	195.89	15.09	NA	180.80	NA	NA
MW-1	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	195.89	12.97	NA	182.92	NA	NA
MW-1	08/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	195.89	15.02	NA	180.87	NA	NA
MW-1	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	195.89	12.90	NA	182.99	NA	NA
MW-1	02/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	195.89	14.28	NA	181.61	NA	NA
MW-1	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	195.89	16.04	NA	179.85	NA	NA
MW-1	07/30/2001	NA	NA	NA	NA	NA	NA	NA	NA	195.89	17.53	NA	178.36	NA	NA
MW-1	12/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	195.89	14.79	NA	181.10	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
MW-2	02/15/1990	ND	560	ND	ND	ND	ND	NA	NA	194.27	16.90	NA	177.37	NA	NA
MW-2	04/19/1990	NA	NA	NA	NA	NA	NA	NA	NA	194.27	17.69	NA	176.58	NA	NA
MW-2	05/14/1990	ND	ND	ND	ND	ND	ND	NA	NA	194.27	18.01	NA	176.26	NA	NA
MW-2	06/21/1990	NA	NA	NA	NA	NA	NA	NA	NA	194.27	17.39	NA	176.88	NA	NA
MW-2	09/12/1990	ND	ND	ND	ND	ND	ND	NA	NA	194.27	19.00	NA	175.27	NA	NA
MW-2	11/27/1990	ND	ND	ND	ND	ND	ND	NA	NA	194.27	19.44	NA	174.83	NA	NA
MW-2	03/08/1991	ND	ND	ND	ND	ND	ND	NA	NA	194.27	15.96	NA	178.31	NA	NA
MW-2	06/03/1991	ND	ND	ND	ND	ND	ND	NA	NA	194.27	17.00	NA	177.27	NA	NA
MW-2	08/30/1991	ND	ND	ND	ND	ND	ND	NA	NA	194.27	18.95	NA	175.32	NA	NA
MW-2	11/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	19.55	NA	174.72	NA	NA
MW-2	03/18/1992	<30	NA	<0.3	<0.3	<0.3	<0.3	NA	NA	194.27	12.91	NA	181.36	NA	NA
MW-2	05/28/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	16.25	NA	178.02	NA	NA
MW-2	08/19/1992	<50	NA	<0.5	2	1.2	1.9	NA	NA	194.27	18.21	NA	176.06	NA	NA
MW-2	11/17/1992	<50	NA	<0.5	2	1.2	1.9	NA	NA	194.27	19.15	NA	175.12	NA	NA
MW-2	02/12/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	11.60	NA	182.67	NA	NA
MW-2	06/10/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	14.14	NA	180.13	NA	NA
MW-2	08/18/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	16.10	NA	178.17	NA	NA
MW-2	11/19/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	18.77	NA	175.50	NA	NA
MW-2	02/28/1994	<50	NA	<0.5	<0.5	<0.5	1.6	NA	NA	194.27	14.35	NA	179.92	NA	NA
MW-2	05/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	16.34	NA	177.93	NA	NA
MW-2	08/10/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	15.79	NA	178.48	NA	NA
MW-2	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	15.04	NA	179.23	NA	NA
MW-2	02/01/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	10.08	NA	184.19	NA	NA
MW-2	05/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	11.68	NA	182.59	NA	NA
MW-2	08/24/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	14.94	NA	179.33	NA	NA
MW-2	11/10/1995	<50	NA	1.7	0.8	1.4	4.9	NA	NA	194.27	13.36	NA	180.91	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
MW-2	02/24/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	194.27	9.90	NA	184.37	NA	NA
MW-2	05/22/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	194.27	11.80	NA	182.47	NA	NA
MW-2	08/19/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	194.27	15.08	NA	179.19	NA	NA
MW-2	12/05/1996	<50	NA	1.5	1.6	1.2	5.2	<2.5	NA	194.27	15.16	NA	179.11	NA	NA
MW-2	01/08/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	194.27	9.76	NA	184.51	NA	NA
MW-2	02/20/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	194.27	11.47	NA	182.80	NA	NA
MW-2	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	194.27	14.30	NA	179.97	NA	NA
MW-2	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.33	NA	177.94	NA	NA
MW-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.54	NA	178.73	NA	NA
MW-2	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	194.27	9.43	NA	184.84	NA	NA
MW-2	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	194.27	11.45	NA	182.82	NA	NA
MW-2	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	194.27	12.71	NA	181.56	NA	NA
MW-2	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	194.27	13.98	NA	180.29	NA	NA
MW-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.01	NA	179.26	NA	NA
MW-2	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	194.27	13.93	NA	180.34	NA	NA
MW-2	08/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.22	NA	178.05	NA	NA
MW-2	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	194.27	17.58	NA	176.69	NA	NA
MW-2	02/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	194.27	14.10	NA	180.17	NA	NA
MW-2	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	194.27	12.72	NA	181.55	NA	NA
MW-2	08/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	194.27	14.39	NA	179.88	NA	NA
MW-2	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	194.27	17.00	NA	177.27	NA	NA
MW-2	02/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	194.27	13.58	NA	180.69	NA	NA
MW-2	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	194.27	15.26	NA	179.01	NA	NA
MW-2	07/30/2001	NA	NA	NA	NA	NA	NA	NA	NA	194.27	16.67	NA	177.60	NA	NA
MW-2	12/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	194.27	13.91	NA	180.36	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
MW-3	02/15/1990	4,700	3,100	320	29	110	33	NA	NA	192.52	15.81	NA	176.71	NA	NA
MW-3	04/19/1990	NA	NA	NA	NA	NA	NA	NA	NA	192.52	16.57	NA	175.95	NA	NA
MW-3	05/14/1990	1,400	60	130	8.6	40	17	NA	NA	192.52	16.97	NA	175.55	NA	NA
MW-3	06/21/1990	NA	NA	NA	NA	NA	NA	NA	NA	192.52	16.27	NA	176.25	NA	NA
MW-3	09/12/1990	2,000	1,500	58	5.8	16	15	NA	NA	192.52	18.78	NA	173.74	NA	NA
MW-3	11/27/1990	540	240	18	1.5	8.7	2.5	NA	NA	192.52	18.27	NA	174.25	NA	NA
MW-3	03/08/1991	3,400	2,100	630	33	270	18	NA	NA	192.52	14.86	NA	177.66	NA	NA
MW-3	06/03/1991	1,700	690a	260	13	98	24	NA	NA	192.52	15.84	NA	176.68	NA	NA
MW-3	08/30/1991	870	370a	44	6.1	10	2.9	NA	NA	192.52	17.79	NA	174.73	NA	NA
MW-3	11/22/1991	310	140	18	1.2	3.3	2.9	NA	NA	192.52	18.40	NA	174.12	NA	NA
MW-3	03/18/1992	67,100	1,900	620	28	220	38	NA	NA	192.52	12.03	NA	180.49	NA	NA
MW-3	05/28/1992	2,300	1,100a	200	9	71	17	NA	NA	192.52	15.16	NA	177.36	NA	NA
MW-3	08/19/1992	5,700	1,000a	71	77	52	130	NA	NA	192.52	17.03	NA	175.49	NA	NA
MW-3	11/17/1992	3,600	160a	16	8.6	24	50	NA	NA	192.52	17.94	NA	174.58	NA	NA
MW-3	02/12/1993	4,700	560a	820	58	130	77	NA	NA	192.52	9.16	NA	183.36	NA	NA
MW-3	06/10/1993	2,200	NA	310	23	89	23	NA	NA	192.52	13.20	NA	179.32	NA	NA
MW-3	08/18/1993	260	NA	27	2	7	2.2	NA	NA	192.52	14.93	NA	177.59	NA	NA
MW-3	11/19/1993	1,500a	NA	24	54	37	17	NA	NA	192.52	17.58	NA	174.94	NA	NA
MW-3	02/28/1994	2,700	NA	65	5.2	16	6.3	NA	NA	192.52	13.30	NA	179.22	NA	NA
MW-3	05/04/1994	780	NA	120	7.5	21	6.9	NA	NA	192.52	15.25	NA	177.27	NA	NA
MW-3	08/10/1994	920	NA	20	2.3	3	2.2	NA	NA	192.52	16.63	NA	175.89	NA	NA
MW-3	11/08/1994	1,300	NA	180	16	7	12	NA	NA	192.52	13.88	NA	178.64	NA	NA
MW-3	02/01/1995	1,400	NA	210	8.5	11	8.7	NA	NA	192.52	9.25	NA	183.27	NA	NA
MW-3	05/10/1995	460	NA	97	10	1	19	NA	NA	192.52	10.76	NA	181.74	NA	NA
MW-3	08/24/1995	640	NA	68	21	14	19	NA	NA	192.52	13.90	NA	178.62	NA	NA
MW-3	11/10/1995	350	NA	15	2.3	1.2	2.5	NA	NA	192.52	16.20	NA	176.32	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
MW-3	02/24/1996	3,300	NA	240	53	38	55	NA	NA	192.52	8.93	NA	183.59	NA	NA
MW-3	05/22/1996	1,300	NA	110	15	<10	<10	3,500	NA	192.52	10.86	NA	181.66	NA	NA
MW-3	08/19/1996	350	NA	15	3.3	3.4	3.3	340	NA	192.52	13.97	NA	178.55	NA	NA
MW-3	12/05/1996	290	NA	12	7.6	5.4	16	370	NA	192.52	14.06	NA	178.46	NA	NA
MW-3	02/20/1997	980	NA	69	7.9	14	15	3,200	NA	192.52	10.60	NA	181.92	NA	NA
MW-3	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	192.52	13.26	NA	179.26	NA	NA
MW-3	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	192.52	15.21	NA	177.31	NA	NA
MW-3	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	192.52	14.49	NA	178.03	NA	NA
MW-3	01/20/1998	3,100	NA	360	1,000	73	420	59,000	NA	192.52	8.43	NA	184.09	NA	NA
MW-3	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	192.52	10.55	NA	181.97	NA	NA
MW-3	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	192.52	11.80	NA	180.72	NA	NA
MW-3	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	192.52	11.97	NA	180.55	NA	NA
MW-3	02/03/1999	<10,000	NA	840	131	<100	316	27,600	NA	192.52	13.55	NA	178.97	NA	2.3
MW-3	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	192.52	12.90	NA	179.62	NA	NA
MW-3	08/31/1999	1,550	NA	232	<10.0	125	293	4,620	2,460b	192.52	14.99	NA	177.53	NA	3.4
MW-3	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	192.52	16.35	NA	176.17	NA	NA
MW-3	02/11/2000	10,900	NA	1,030	<50.0	308	1,000	19,300	NA	192.52	12.85	NA	179.67	NA	1.0
MW-3	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	192.52	17.05	NA	175.47	NA	NA
MW-3	08/31/2000	2,560	NA	165	7.19	77.6	183	4,090	NA	192.52	14.26	NA	178.26	NA	c
MW-3	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	192.52	15.75	NA	176.77	NA	NA
MW-3	02/13/2001	5,880	NA	563	<50.0	282	472	8,960	NA	192.52	13.05	NA	179.47	NA	3.6
MW-3	05/29/2001	1,800	NA	130	<5.0	84	100	NA	1,900	192.52	13.84	NA	178.68	NA	NA
MW-3	07/30/2001	2,700	NA	250	8.8	130	120	NA	5,200	192.52	15.46	NA	177.06	NA	NA
MW-3	12/12/2001	<10,000	NA	720	<100	260	260	NA	6,600	192.52	12.93	NA	179.59	NA	NA
MW-4	02/15/1990	ND	1,200	ND	ND	ND	ND	NA	NA	193.37	16.73	NA	176.65	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
MW-4	04/19/1990	NA	NA	NA	NA	NA	NA	NA	NA	193.37	17.48	NA	175.89	NA	NA
MW-4	05/14/1990	650	350	160	7	1.9	3.1	NA	NA	193.37	17.88	NA	175.49	NA	NA
MW-4	06/21/1990	NA	NA	NA	NA	NA	NA	NA	NA	193.37	17.18	NA	176.19	NA	NA
MW-4	09/12/1990	440	260	91	1.1	0.75	0.79	NA	NA	193.37	17.85	NA	175.52	NA	NA
MW-4	11/27/1990	470	2,400	64	1.2	0.8	2.7	NA	NA	193.37	19.16	NA	174.21	NA	NA
MW-4	03/08/1991	1,100	2,600	330	3.5	88	5.8	NA	NA	193.37	15.77	NA	177.60	NA	NA
MW-4	06/03/1991	670	1,100	240	2.3	1.6	2.3	NA	NA	193.37	16.77	NA	176.60	NA	NA
MW-4	08/30/1991	570	280	64	1.8	0.9	0.9	NA	NA	193.37	18.71	NA	174.66	NA	NA
MW-4	11/22/1991	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA
MW-4	01/15/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA
MW-4	02/15/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA
MW-4	03/18/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	13.15	NA	180.41	0.24	NA
MW-4	04/29/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA
MW-4	05/28/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	16.22	NA	177.25	0.12	NA
MW-4	08/19/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	18.05	NA	175.39	0.09	NA
MW-4	11/17/1992	NA	NA	NA	NA	NA	NA	NA	NA	193.37	18.89	NA	174.48	NA	NA
MW-4	02/12/1993	NA	NA	NA	NA	NA	NA	NA	NA	193.37	11.78	NA	181.59	<0.01	NA
MW-4	06/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.20	NA	179.17	0.02	NA
MW-4	08/18/1993	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.95	NA	177.43	0.01	NA
MW-4	11/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	193.37	18.48	NA	174.90	0.01	NA
MW-4	02/28/1994	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.60	NA	178.77	0.01	NA
MW-4	05/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	193.37	16.15	NA	177.22	<0.01	NA
MW-4	08/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	193.37	17.58	NA	175.81	0.02	NA
MW-4	11/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.05	NA	178.36	0.05	NA
MW-4	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	193.37	10.71	NA	182.69	0.04	NA
MW-4	05/10/1995	NA	NA	NA	NA	NA	NA	NA	NA	193.37	11.90	NA	181.52	0.06	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)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
MW-4	08/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.97	NA	178.42	0.02	NA
MW-4	11/10/1995	4,700	NA	100	22	23	38	NA	NA	193.37	17.27	NA	176.10	<0.01	NA
MW-4	02/24/1996	NA	NA	NA	NA	NA	NA	NA	NA	193.37	10.44	NA	182.95	0.03	NA
MW-4	05/22/1996	NA	NA	NA	NA	NA	NA	NA	NA	193.37	11.88	NA	181.51	0.03	NA
MW-4	08/19/1996	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.23	NA	178.16	0.02	NA
MW-4	12/05/1996	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.70	NA	178.69	0.02	NA
MW-4	01/08/1997	<10,000	NA	<100	<100	<100	<100	24,000	NA	193.37	11.60	NA	181.79	0.02	NA
MW-4	02/20/1997	<10,000	NA	490	<100	<100	<100	59,000	NA	193.37	11.91	NA	181.46	NA	NA
MW-4	05/30/1997	<2,000	NA	72	<20	<20	<20	6,100	NA	193.37	14.68	NA	178.69	NA	NA
MW-4	08/18/1997	<5,000	NA	150	570	<50	130	31,000	NA	193.37	15.07	NA	178.30	NA	NA
MW-4	11/03/1997	32,000	NA	1,100	6,100	640	3,600	78,000	NA	193.37	15.87	NA	177.50	NA	NA
MW-4	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	193.37	10.25	NA	183.62	0.62	NA
MW-4	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	193.37	11.62	NA	181.80	0.06	NA
MW-4	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	193.37	13.93	NA	179.51	0.09	NA
MW-4	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.07	14.03	179.33	0.04	NA
MW-4	12/09/1998	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.84	15.81	177.55	0.03	NA
MW-4	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.58	15.55	177.81	0.03	NA
MW-4	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	193.37	14.04	14.02	179.35	0.02	NA
MW-4	08/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	193.37	16.15	16.12	177.24	0.03	NA
MW-4	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	193.37	17.41	17.31	176.04	0.10	NA
MW-4	02/11/2000	47,200	NA	905	<200	479	3,690	27,400	30,300b	193.37	14.82	NA	178.55	NA	0.6
MW-4	05/04/2000	30,800	NA	1,650	<100	574	3,310	28,600	31,200b	193.37	12.64	NA	180.73	NA	2.1
MW-4	08/31/2000	5,470	NA	366	<10.0	296	834	3,950	NA	193.37	16.47	NA	176.90	NA	c
MW-4	11/30/2000	20,700	NA	525	<50.0	447	1,570	2,440	4,280b	193.37	17.67	NA	175.70	NA	3.3
MW-4	02/13/2001	16,200	NA	909	<50.0	514	2,390	21,300	20,300	193.37	13.30	NA	180.07	NA	2.4
MW-4	05/29/2001	Well Inaccessible		NA	NA	NA	NA	NA	NA	193.37	NA	NA	NA	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
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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)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
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MW-4	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	193.37	15.08	15.03	178.33	0.05	NA
MW-4	07/30/2001	6,700	NA	260	5.7	190	280	NA	3,900	193.37	16.29	16.28	177.09	0.01	NA
MW-4	12/12/2001	15,000	NA	1,300	<50	520	990	NA	20,000	193.37	13.81	NA	179.56	NA	NA

MW-5	08/30/1991	ND	80	ND	ND	ND	ND	NA	NA	190.35	16.74	NA	173.61	NA	NA
MW-5	11/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	17.27	NA	173.08	NA	NA
MW-5	03/18/1992	<30	<50	<0.3	<0.3	<0.3	<0.3	NA	NA	190.35	11.28	NA	179.07	NA	NA
MW-5	05/28/1992	Well Inaccessible		NA	NA	NA	NA	NA	NA	190.35	NA	NA	NA	NA	NA
MW-5	08/19/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	15.99	NA	174.36	NA	NA
MW-5	11/17/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	16.84	NA	173.51	NA	NA
MW-5	02/12/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	10.30	NA	180.05	NA	NA
MW-5	06/10/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	12.36	NA	177.99	NA	NA
MW-5	08/18/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	14.02	NA	176.33	NA	NA
MW-5	11/19/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	16.50	NA	173.85	NA	NA
MW-5	02/28/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	12.55	NA	177.80	NA	NA
MW-5	05/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	14.27	NA	176.08	NA	NA
MW-5	08/10/1994	70a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	15.60	NA	174.75	NA	NA
MW-5	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	12.85	NA	177.50	NA	NA
MW-5	02/01/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	8.98	NA	181.37	NA	NA
MW-5	05/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	10.16	NA	180.19	NA	NA
MW-5	08/24/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	12.98	NA	177.37	NA	NA
MW-5	11/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	190.35	15.12	NA	175.23	NA	NA
MW-5	02/24/1996	NA	NA	NA	NA	NA	NA	NA	NA	190.35	NA	NA	NA	NA	NA
MW-5	05/22/1996	<2,000	NA	<20	<20	<20	<20	NA	NA	190.35	10.10	NA	180.25	NA	NA
MW-5	08/19/1996	<2,500	NA	<25	<25	<25	<25	NA	NA	190.35	13.09	NA	177.26	NA	NA
MW-5	12/05/1996	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	NA	190.35	13.31	NA	177.04	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
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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)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
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MW-5	02/20/1997	<1,000	NA	<10	<10	<10	<10	NA	NA	190.35	9.55	NA	180.80	NA	NA
MW-5	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	190.35	12.40	NA	177.95	NA	NA
MW-5	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	190.35	14.19	NA	176.16	NA	NA
MW-5	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	190.35	13.66	NA	176.69	NA	NA
MW-5	01/20/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	1,600	NA	190.35	8.06	NA	182.29	NA	NA
MW-5	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	190.35	9.95	NA	180.40	NA	NA
MW-5	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	190.35	11.10	NA	179.25	NA	NA
MW-5	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	190.35	12.21	NA	178.14	NA	NA
MW-5	02/03/1999	<500	NA	<5.00	<5.00	<5.00	<5.00	2850	NA	190.35	12.99	NA	177.36	NA	2.4
MW-5	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	190.35	12.08	NA	178.27	NA	NA
MW-5	08/31/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	4,260	NA	190.35	14.05	NA	176.30	NA	2.7
MW-5	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	190.35	15.41	NA	174.94	NA	NA
MW-5	02/11/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	190.35	12.42	NA	177.93	NA	1.7
MW-5	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	190.35	11.13	NA	179.22	NA	NA
MW-5	08/31/2000	<500	NA	<5.00	<5.00	<5.00	<5.00	13,000	15,700b	190.35	13.53	NA	176.82	NA	c
MW-5	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	190.35	14.65	NA	175.70	NA	NA
MW-5	02/13/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	2,440	NA	190.35	12.05	NA	178.30	NA	4.1
MW-5	05/29/2001	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	1,300	190.35	13.26	NA	177.09	NA	NA
MW-5	07/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	310	190.35	14.49	NA	175.86	NA	NA
MW-5	12/12/2001	<200	NA	<2.0	<2.0	<2.0	<2.0	NA	350	190.35	12.08	NA	178.27	NA	NA

MW-6	09/21/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	14.64	NA	174.41	NA	NA
MW-6	11/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	189.05	NA	NA	NA	NA	NA
MW-6	02/28/1994	98a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	12.18	NA	176.87	NA	NA
MW-6	05/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	13.62	NA	175.43	NA	NA
MW-6	08/10/1994	80a	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	14.98	NA	174.07	NA	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)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
MW-6	11/08/1994	NA	NA	NA	NA	NA	NA	NA	NA	189.05	12.20	NA	176.85	NA	NA
MW-6	02/01/1995	120	NA	3.5	21	3.4	22	NA	NA	189.05	8.70	NA	180.35	NA	NA
MW-6	05/10/1995	NA	NA	NA	NA	NA	NA	NA	NA	189.05	9.86	NA	179.19	NA	NA
MW-6	08/24/1995	80	NA	<0.5	<0.5	1.8	2.4	NA	NA	189.05	12.46	NA	176.59	NA	NA
MW-6	11/10/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	14.56	NA	174.49	NA	NA
MW-6	11/10/1995	60	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	189.05	14.56	NA	174.49	NA	NA
MW-6	02/24/1996	NA	NA	NA	NA	NA	NA	NA	NA	189.05	NA	NA	NA	NA	NA
MW-6	05/22/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	290	NA	189.05	10.23	NA	178.82	NA	NA
MW-6	08/19/1996	<1,250	NA	<12	<12	<12	<12	1,100	NA	189.05	12.61	NA	176.44	NA	NA
MW-6	12/05/1996	<125	NA	<1.2	<1.2	<1.2	<1.2	440	NA	189.05	12.47	NA	176.58	NA	NA
MW-6	02/20/1997	<100	NA	<1.0	<1.0	<1.0	<1.0	480	NA	189.05	9.85	NA	179.20	NA	NA
MW-6	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	189.05	11.96	NA	177.09	NA	NA
MW-6	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	189.05	13.65	NA	175.40	NA	NA
MW-6	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	189.05	NA	NA	NA	NA	NA
MW-6	01/20/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	340	NA	189.05	7.76	NA	181.29	NA	NA
MW-6	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	189.05	9.85	NA	179.20	NA	NA
MW-6	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	189.05	10.99	NA	178.06	NA	NA
MW-6	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	189.05	11.36	NA	177.69	NA	NA
MW-6	02/03/1999	Well Inaccessible		NA	NA	NA	NA	NA	NA	189.05	NA	NA	NA	NA	NA
MW-6	06/04/1999	Well Inaccessible		NA	NA	NA	NA	NA	NA	189.05	NA	NA	NA	NA	NA
MW-6	06/22/1999	<5,000	NA	<50.0	<50.0	<50.0	<50.0	2,800	NA	189.05	12.15	NA	176.90	NA	2.1
MW-6	08/31/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	3,390	NA	189.05	13.62	NA	175.43	NA	2.5
MW-6	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	189.05	14.98	NA	174.07	NA	NA
MW-6	02/11/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	189.05	12.00	NA	177.05	NA	1.1
MW-6	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	189.05	10.94	NA	178.11	NA	NA
MW-6	08/31/2000	<250	NA	<2.50	<2.50	<2.50	<2.50	4,460	NA	189.05	13.19	NA	175.86	NA	c

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
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MW-6	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	189.05	14.28	NA	174.77	NA	NA
MW-6	02/13/2001	Well Inaccessible		NA	NA	NA	NA	NA	NA	189.05	NA	NA	NA	NA	NA
MW-6	02/16/2001	<500	NA	<5.00	<5.00	<5.00	<5.00	3,910	NA	189.05	12.10	NA	176.95	NA	3.8
MW-6	05/29/2001	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	2,000	189.05	12.94	NA	176.11	NA	NA
MW-6	07/30/2001	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	2,700	189.05	14.10	NA	174.95	NA	NA
MW-6	12/12/2001	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	2,100	189.05	12.11	NA	176.94	NA	NA

T-1	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	08/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	02/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	08/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	02/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	07/30/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-1	12/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
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T-2	05/30/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	08/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	01/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	07/23/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	06/04/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	08/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	12/10/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	02/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	05/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	08/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	11/30/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.50	NA	NA	NA	NA
T-2	02/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	07/30/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA
T-2	12/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6039 College Avenue**  
**Oakland, CA**  
**Wic #204-5508-3301**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO (ppm)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 29, 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 May 29, 2001, analyzed by EPA Method 8020.

MTBE = methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

ppm = parts per million

msl = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

ND = Not detected at or above the minimum quantitation limits.

Notes:

a = Chromatogram patterns indicate an unidentified hydrocarbon.

b = Sample was analyzed outside the EPA recommended holding time.

c = DO Readings not taken this event.

When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation:

Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).





Report Number : 23870

Date : 12/28/2001

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

Subject : 4 Water Samples  
Project Name : 6039 College Avenue, Oakland  
Project Number :  
P.O. Number : 98995745

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,



Joel Kiff



Report Number : 23870

Date : 12/28/2001

Project Name : 6039 College Avenue, Oakland

Project Number :

Sample : MW-3

Matrix : Water

Lab Number : 23870-01

Sample Date :12/12/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	720	100	ug/L	EPA 8260B	12/22/2001
Toluene	< 100	100	ug/L	EPA 8260B	12/22/2001
Ethylbenzene	260	100	ug/L	EPA 8260B	12/22/2001
Total Xylenes	260	100	ug/L	EPA 8260B	12/22/2001
Methyl-t-butyl ether (MTBE)	6600	100	ug/L	EPA 8260B	12/22/2001
Diisopropyl ether (DIPE)	< 100	100	ug/L	EPA 8260B	12/22/2001
Ethyl-t-butyl ether (ETBE)	< 100	100	ug/L	EPA 8260B	12/22/2001
Tert-amyl methyl ether (TAME)	< 100	100	ug/L	EPA 8260B	12/22/2001
Tert-Butanol	< 1000	1000	ug/L	EPA 8260B	12/22/2001
Ethanol	< 1000	1000	ug/L	EPA 8260B	12/22/2001
TPH as Gasoline	< 10000	10000	ug/L	EPA 8260B	12/22/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/22/2001
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/22/2001

Approved By:  Joel Kiff



Report Number : 23870

Date : 12/28/2001

Project Name : 6039 College Avenue, Oakland

Project Number :

Sample : MW-4

Matrix : Water

Lab Number : 23870-02

Sample Date :12/12/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>1300</b>	50	ug/L	EPA 8260B	12/23/2001
<b>Toluene</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	12/23/2001
<b>Ethylbenzene</b>	<b>520</b>	50	ug/L	EPA 8260B	12/23/2001
<b>Total Xylenes</b>	<b>990</b>	50	ug/L	EPA 8260B	12/23/2001
<b>Methyl-t-butyl ether (MTBE)</b>	<b>20000</b>	500	ug/L	EPA 8260B	12/23/2001
<b>TPH as Gasoline</b>	<b>15000</b>	5000	ug/L	EPA 8260B	12/23/2001
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	12/23/2001
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/23/2001

Approved By:  Joel Kiff



Report Number : 23870

Date : 12/28/2001

Project Name : 6039 College Avenue, Oakland

Project Number :

Sample : MW-5

Matrix : Water

Lab Number : 23870-03

Sample Date :12/12/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 2.0	2.0	ug/L	EPA 8260B	12/24/2001
Toluene	< 2.0	2.0	ug/L	EPA 8260B	12/24/2001
Ethylbenzene	< 2.0	2.0	ug/L	EPA 8260B	12/24/2001
Total Xylenes	< 2.0	2.0	ug/L	EPA 8260B	12/24/2001
Methyl-t-butyl ether (MTBE)	350	20	ug/L	EPA 8260B	12/24/2001
TPH as Gasoline	< 200	200	ug/L	EPA 8260B	12/24/2001
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	12/24/2001
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/24/2001

Approved By:  Joel Kiff



Report Number : 23870

Date : 12/28/2001

Project Name : 6039 College Avenue, Oakland

Project Number :

Sample : MW-6

Matrix : Water

Lab Number : 23870-04

Sample Date :12/12/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 5.0	5.0	ug/L	EPA 8260B	12/21/2001
<b>Toluene</b>	< 5.0	5.0	ug/L	EPA 8260B	12/21/2001
<b>Ethylbenzene</b>	< 5.0	5.0	ug/L	EPA 8260B	12/21/2001
<b>Total Xylenes</b>	< 5.0	5.0	ug/L	EPA 8260B	12/21/2001
<b>Methyl-t-butyl ether (MTBE)</b>	2100	5.0	ug/L	EPA 8260B	12/21/2001
<b>Diisopropyl ether (DIPE)</b>	< 5.0	5.0	ug/L	EPA 8260B	12/21/2001
<b>Ethyl-t-butyl ether (ETBE)</b>	< 5.0	5.0	ug/L	EPA 8260B	12/21/2001
<b>Tert-amyl methyl ether (TAME)</b>	< 5.0	5.0	ug/L	EPA 8260B	12/21/2001
<b>Tert-Butanol</b>	97	50	ug/L	EPA 8260B	12/21/2001
<b>Ethanol</b>	< 500	500	ug/L	EPA 8260B	12/21/2001
<b>TPH as Gasoline</b>	< 500	500	ug/L	EPA 8260B	12/21/2001
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	12/21/2001
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	12/21/2001

Approved By:  Joel Kiff

Report Number : 23870

Date : 12/28/2001

**QC Report : Method Blank Data**

Project Name : **6039 College Avenue, Oakland**

Project Number :

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/19/2001
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/19/2001
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/19/2001
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/19/2001
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/19/2001
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/19/2001
Ethanol	< 500	500	ug/L	EPA 8260B	12/19/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/19/2001
Toluene - d8 (Surr)	99.4		%	EPA 8260B	12/19/2001
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	12/19/2001

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

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

Approved By:  \_\_\_\_\_  
Joel Kiff

Report Number : 23870

Date : 12/28/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate


Project Name : 6039 College Avenue,

Project Number :

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 Recov. Limit	Relative Percent Diff. Limit
Benzene	23788-05	<0.50	19.5	19.7	19.6	20.0	ug/L	EPA 8260B	12/19/2001	100	101	0.792	70-130	25
Toluene	23788-05	<0.50	19.5	19.7	20.0	20.3	ug/L	EPA 8260B	12/19/2001	102	103	0.438	70-130	25
Tert-Butanol	23788-05	<5.0	97.6	98.5	105	108	ug/L	EPA 8260B	12/19/2001	108	110	1.87	70-130	25
Methyl-t-Butyl Ether	23788-05	<0.50	19.5	19.7	17.9	17.7	ug/L	EPA 8260B	12/19/2001	91.6	90.0	1.73	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By:  Joel Kiff



Report Number : 23870

Date : 12/28/2001

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **6039 College Avenue,**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	20.0	ug/L	EPA 8260B	12/19/200	102	70-130
Toluene	20.0	ug/L	EPA 8260B	12/19/200	104	70-130
Tert-Butanol	100	ug/L	EPA 8260B	12/19/200	108	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	12/19/200	89.6	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

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be invoiced:

SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 CRMT HOUSTON

Karen Petryna  
**23870**

INDEPENDENT NUMBER (SEE 01111)  
 9 8 9 9 5 7 4 5

DATE: \_\_\_\_\_  
 PAGE: \_\_\_\_\_ of \_\_\_\_\_

SAMPLING COMPANY: **Blaine Tech Services** LOG CODE: **BTSS** SITE ADDRESS (Street and City): **6039 College Avenue, Oakland** GLOBAL ID NO.: **T0600101272**

ADDRESS: **1680 Rogers Avenue, San Jose, CA 95112** EDP DELIVERABLE TO (Responsible Party or Designee): **Annli Kreml** PHONE NO.: **610-420-3335** E-MAIL: **akreml@cambria-env.com** CONSULTANT PROJECT NO.: \_\_\_\_\_

PROJECT CONTACT (Hardcopy or PDF Report to): **Nick Sudano** SAMPLER NAME(S) (P/N): \_\_\_\_\_ LAB USE ONLY

TELEPHONE: **408-673-0565** FAX: **408-673-7771** EMAIL: **nsudano@blainetech.com**

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

LA - RWQCB REPORT FORMAT  UST AGENCY: \_\_\_\_\_

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: \_\_\_\_\_ TEMPERATURE ON RECEIPT (°) \_\_\_\_\_

**REQUESTED ANALYSIS**

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 6ppb RL)	MTBE (8260B - 0.6ppb RL)	Oxygenates (6) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	EPA 8270	Oil & Grease (8520B/F)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
	DATE	TIME																			
	MW-3	12/12	1055	U	3	X	X	X	X	X											01
	MW-4	↓	1133	↓	↓	X	X	X													02
	MW-5	↓	940	↓	↓	X	X	X													03
	MW-6	↓	1019	↓	↓	X	X	X	X	X											04

Relinquished by: (Signature) <i>Chris Wagner</i> <b>CHRIS WAGNER</b>	Received by: (Signature) _____	Date: <b>12/13/01</b>	Time: <b>1143</b>
Relinquished by: (Signature) _____	Received by: (Signature) _____	Date: _____	Time: _____
Relinquished by: (Signature) _____	Received by: (Signature) <i>Kiff</i> <b>KIFF</b>	Date: <b>121301</b>	Time: <b>1143</b>

## WELL GAUGING DATA

Project # 011212-CW-1 Date 12-12-01 Client Egvin

Site 6039 College 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: TOB or <u>TOC</u>	TOB order
MW-3	4	odor	gauge		w/stinger in well	12.93	24.73		3
MW-4	4	odor				13.81	24.31		4
MW-5	4					12.08	28.49		1
MW-6	2					12.11	24.11	x	2
			Gauge only						
MW-1	4					14.79	24.35		
MW-2	4					13.91	24.20		
T-1	4					DRY	4.15	f	
T-2	4					DRY	7.89	←	

## EQUIVA WELL MONITORING DATA SHEET

BTS #: 011212-CW-1	Site: 6039 College Ave. Oakland
Sampler: Chris W.	Date: 12.12.01
Well I.D.: MW-3	Well Diameter: 2 3 <b>4</b> 6 8
Total Well Depth: 24.73	Depth to Water: 12.93
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: **Bailer**      Water      Sampling Method: **Bailer**  
 Disposable Bailer      Peristaltic      Disposable Bailer  
 Middleburg      Extraction Pump      Extraction Port  
**Electric Submersible**      Other \_\_\_\_\_      Dedicated Tubing

$7.7$ (Gals.) X $3$ = $23.1$ 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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1036	63.6	6.7	568	31	7.7	odor / sheen
1038	65.5	6.6	690	29	15.4	"
1042	65.8	6.6	743	12	23.1	"

Did well dewater? Yes **No**      Gallons actually evacuated: 23.1

Sampling Time: 1055      Sampling Date: 12.12.01

Sample I.D.: MW-3      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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## EQUIVA WELL MONITORING DATA SHEET

BTS #: 011212-CW-1	Site: 6039 College Ave. Oakland
Sampler: Chris W.	Date: 12.12.01
Well I.D.: MW-4	Well Diameter: 2 3 <b>4</b> 6 8
Total Well Depth: 24.31	Depth to Water: 13.81
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer Disposable Bailer Middleburg <b>Electric Submersible</b>	Waters Peristaltic Extraction Pump Other _____	Sampling Method: <b>Bailer</b> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$6.8$ (Gals.) X $3$ = $20.4$ Gals. 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td><b>0.55</b></td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	<b>0.55</b>	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	<b>0.55</b>														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1120	60.7	6.6	833.9	52	6.8	odor/shreen g
1122	63.8	6.6	867.1	30	13.6	"
1124	64.7	6.6	854	11	20.4	"

Did well dewater? Yes  No  Gallons actually evacuated: 20.4

Sampling Time: 1133      Sampling Date: 12.12.01

Sample I.D.: MW-4      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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV



# EQUIVA WELL MONITORING DATA SHEET

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BTS #: 011212-CW-1	Site: 6039 College Ave. Oakland
Sampler: Chris W.	Date: 12.12.01
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8
Total Well Depth: 24.11	Depth to Water: 12.11
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: \_\_\_\_\_

$2 \text{ (Gals.)} \times 3 = 6 \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>(0.16)</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	(0.16)	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	(0.16)	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1004	64.3	6.6	626.3	142	2	
1008	65.0	6.6	618.2	7200	4	
1013	64.9	6.6	614	>200	6	

Did well dewater? Yes  No  Gallons actually evacuated: 6

Sampling Time: 1019      Sampling Date: 12.12.01

Sample I.D.: MW-6      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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV