

C A M B R I A

Alameda County

SEP 19 2002

September 16, 2002

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

Environmental Health

Re: **Second Quarter 2002 Monitoring Report**
Shell-branded Service Station
610 Market Street
Oakland, California 94607
Incident #99895750
Cambria Project #244-0594-002



Dear Mr. Chan:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d. The site is located on Market Street between Sixth and Seventh Streets in Oakland, California (Figures 1 and 2).

REMEDIATION SUMMARY

Mobile Dual-Phase Vacuum Extraction Treatment (DVE): From March to October 2000, Cambria coordinated mobile DVE from wells MW-2 and MW-3. Mobile 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. DVE was discontinued in October 2000 due to low groundwater-extraction volumes. The estimated mass of total petroleum hydrocarbons as gasoline (TPHg) and methyl tertiary butyl ether (MTBE) removed by groundwater extraction during DVE events is summarized in Table 1, and the estimated mass removed by vapor extraction is summarized in Table 2.

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

DVE and Soil Vapor Extraction (SVE) Pilot Test: On March 22, 2001, Cambria performed a short-term (1 day) DVE test on well MW-3 and a short-term (1 day) SVE test on tank backfill well T-1. The tests were conducted using an internal combustion engine for vapor abatement, as

opposed to the carbon treatment system used during mobile DVE. The estimated mass of TPHg and MTBE removed by groundwater extraction during the DVE test on well MW-3 is included in Table 1. The estimated mass of TPHg and MTBE removal removed by vapor extraction during the DVE pilot test on well MW-3 and the SVE pilot test on well T-1 is included in Table 2.

SVE Pilot Test: Between October 8 and 12, 2001, Cambria conducted a long-term (5 day) SVE pilot test on tank backfill well T-1. The cumulative mass removal of TPHg and MTBE during the SVE pilot test was approximately 14.7 pounds and 32.8 pounds, respectively. The estimated total mass removed by vapor extraction at the site is included on Table 2.



Mobile Groundwater Extraction (GWE): As recommended in the August 29, 2001 *Site Conceptual Model and Pilot Test Report*, Cambria began coordinating weekly GWE from well MW-3 using a vacuum truck in August 2001. Well MW-2 was added to the weekly GWE schedule at the site beginning in January 2002, as recommended in our December 19, 2001 *Soil Vapor Extraction Pilot Test Report and Investigation Work Plan*. The recommendation to extract from well MW-2 was approved in a January 2, 2002 Alameda County Health Care Services Agency (ACHCSA) letter. Cumulative groundwater purge volume by GWE and previous DVE, and estimated mass removal data are presented in Table 1. The estimated mass of TPHg and MTBE removed through GWE during mobile GWE and previous DVE through the second quarter 2002 is 2.05 pounds and 53.75 pounds, respectively. Figure 3 shows MTBE concentrations and mass removal estimates over time for well MW-2. The trend line for MTBE concentrations shows decreasing trend over time in well MW-2, likely due to the combination of SVE and GWE completed at the site. Figure 4 shows MTBE concentrations and mass removal estimates over time for well MW-3. The mass removal estimates shown on Figures 3 and 4 include liquid-phase and vapor-phase MTBE mass removed by GWE and by previous DVE. The total cumulative estimated mass of TPHg and MTBE removed to date at the site, including that removed by GWE, DVE and SVE, is 55.04 pounds and 100.94 pounds, respectively.

SECOND QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California developed recently installed wells MW-4 and MW-5 on May 13, 2002, and returned to sample those wells on May 20, 2002. On June 6, 2002, Blaine gauged and sampled the site wells. Blaine calculated groundwater elevations and compiled the analytical data. Cambria prepared a vicinity map which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map using the data collected on June 6, 2002 (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Monthly Vapor Sampling: As described in our December 19, 2001 *Soil Vapor Extraction Pilot Test Report and Investigation Work Plan*, Cambria coordinated monthly vapor measurements in the tank backfill wells using a photo-ionization detector (PID). Due to the elevated concentrations detected on February 7, 2002, Cambria began collecting monthly samples from well T-2 to be submitted to an analytical laboratory in addition to collecting PID readings. Results of the vapor sampling are summarized on Table 3. Analytical laboratory reports for the vapor samples are included as Attachment B.

ANTICIPATED THIRD QUARTER 2002 ACTIVITIES



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

Monthly Vapor Sampling: Cambria will continue with monthly field measurements in tank backfill wells T-1 and T-2 using a PID and collection of a laboratory sample from well T-2.

Investigation Report: In accordance with Cambria's December 19, 2001 *Soil Vapor Extraction Pilot Test Report and Investigation Work Plan*, Cambria installed three soil borings and two groundwater monitoring wells at the site on April 16 and 17, 2002. Cambria submitted a *Subsurface Investigation Report* on August 12, 2002.

Investigation and Interim Remediation Work Plan: On August 19, 2002, Cambria submitted an *Investigation and Interim Remediation Work Plan* proposing further investigation and the installation of a fixed GWE system at the site. This work plan was approved in an August 23, 2002 ACHCSA letter. Cambria will move forward with scheduling and permitting for the proposed extraction/monitoring well installations. In addition, Cambria has begun the final design and permitting for the proposed GWE system.

Mobile GWE: Weekly GWE is scheduled to continue pending fixed GWE system installation.

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Mr. Barney Chan
September 16, 2002

CLOSING

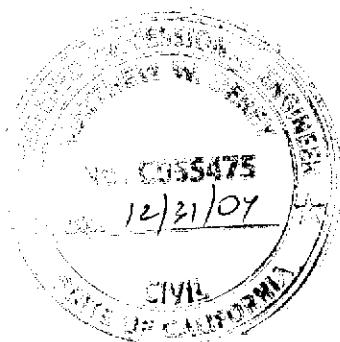
We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



Jacquelyn L. Jones
Project Geologist

Matthew W. Derby, P.E.
Senior Project Engineer



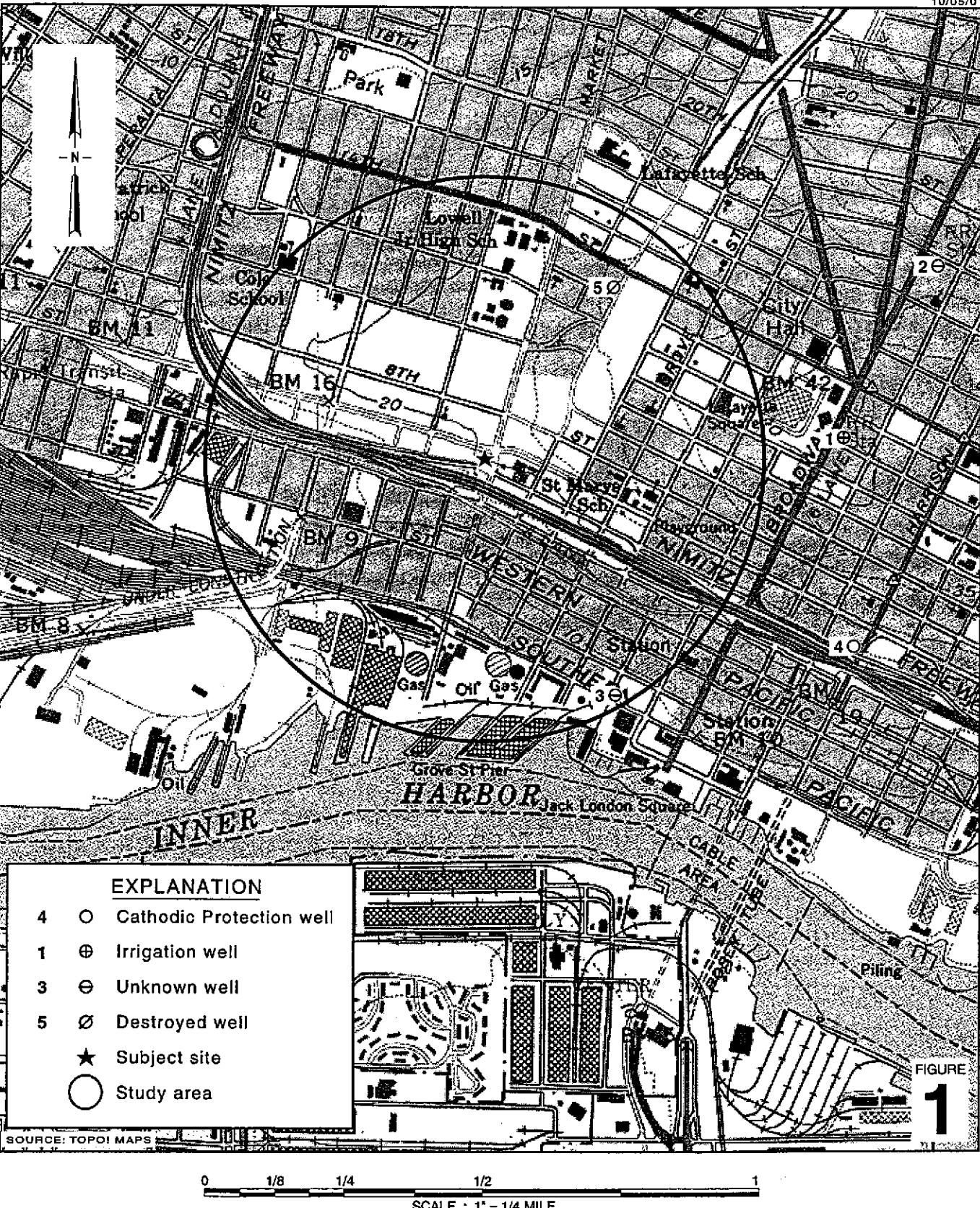
Figures: 1 - Vicinity/Area Well Survey Map
 2 - Groundwater Elevation Contour Map
 3 - MTBE and Mass Removal – Well MW-2
 4 - MTBE and Mass Removal – Well MW-3

Tables: 1 - Groundwater Extraction – Mass Removal Data
 2 - Vapor Extraction – Mass Removal Data
 3 - Tank Backfill Well Vapor Concentrations

Attachments: A - Blaine Groundwater Monitoring Report and Field Notes
 B - Vapor Sampling Analytical Laboratory Reports

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, California 91510-7869
 Virginia R. Rawson, Tr., 1860 Tice Creek Drive #1353, Walnut Creek, CA 94595

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Shell-branded Service Station
610 Market Street
Oakland, California
Incident #98995750



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**Vicinity / Area Well
Survey Map**

1/2 Mile Radius

Groundwater Elevation Contour Map

June 6, 2002

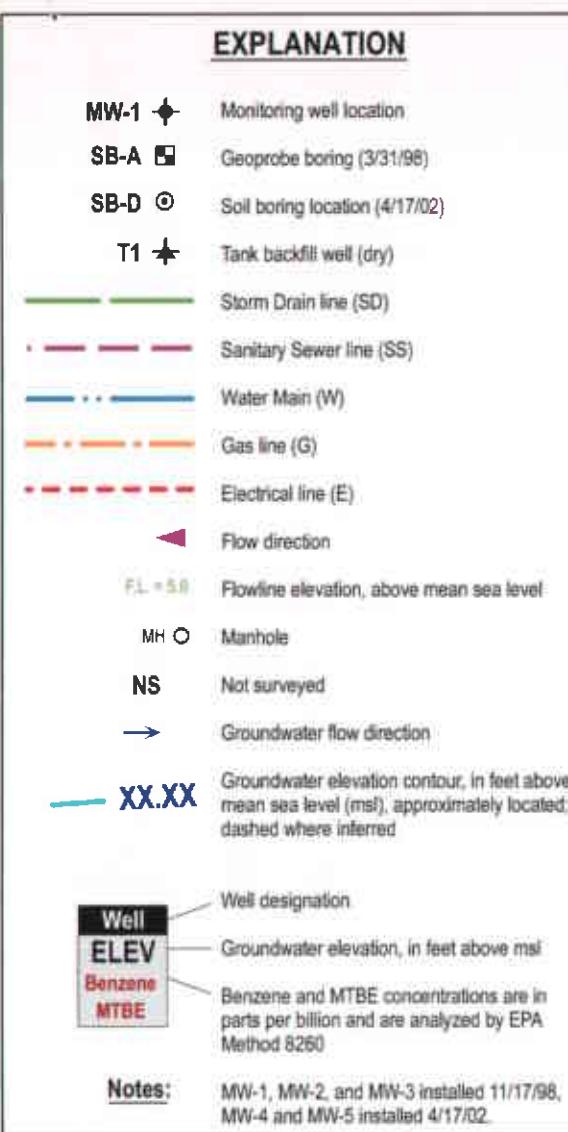


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Shell-branded Service Station

610 Market Street
Oakland, California
Incident #989995750

FIGURE
2



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Scale (ft)

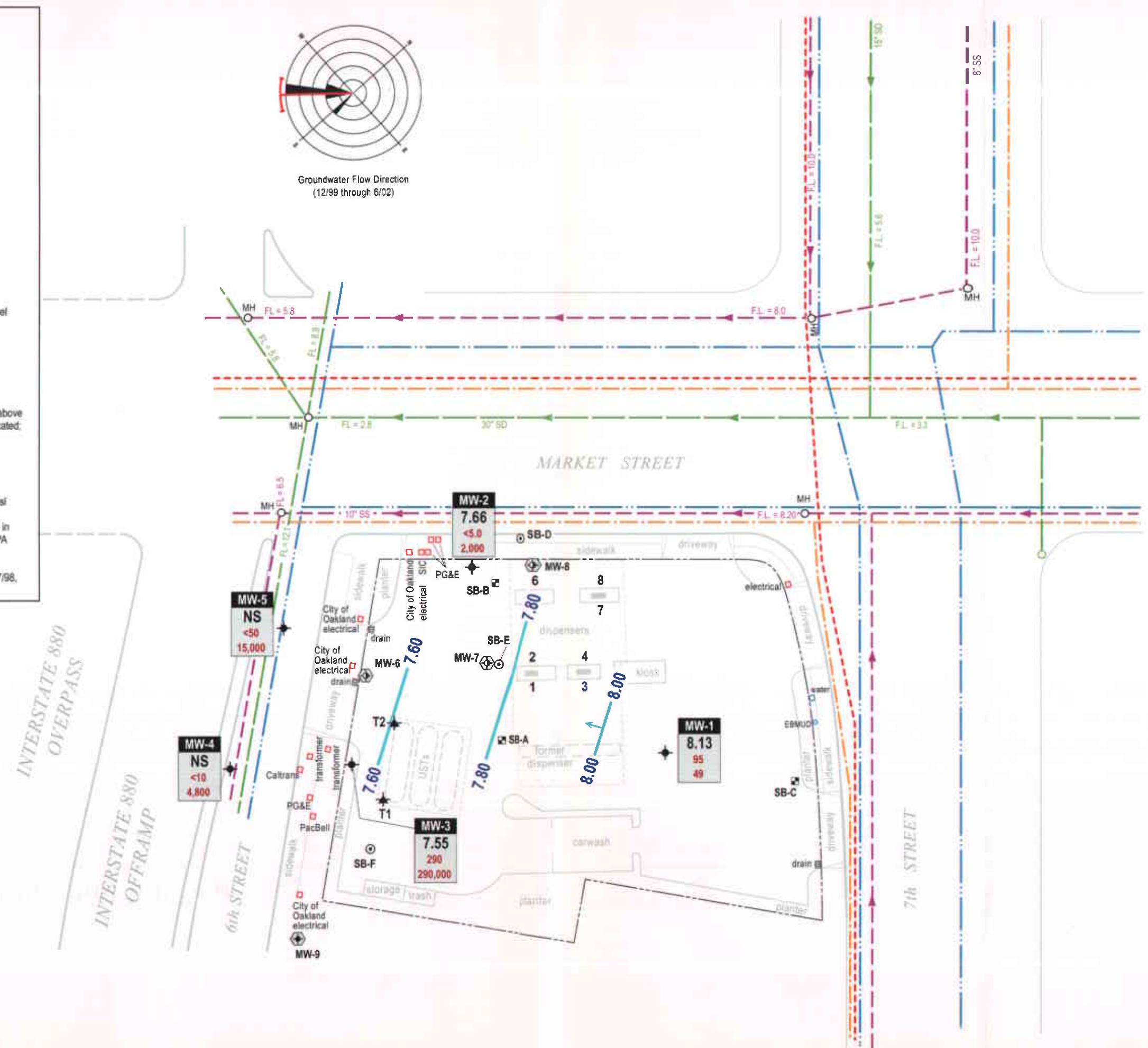


Figure 3
MTBE and Mass Removal
Well MW-2

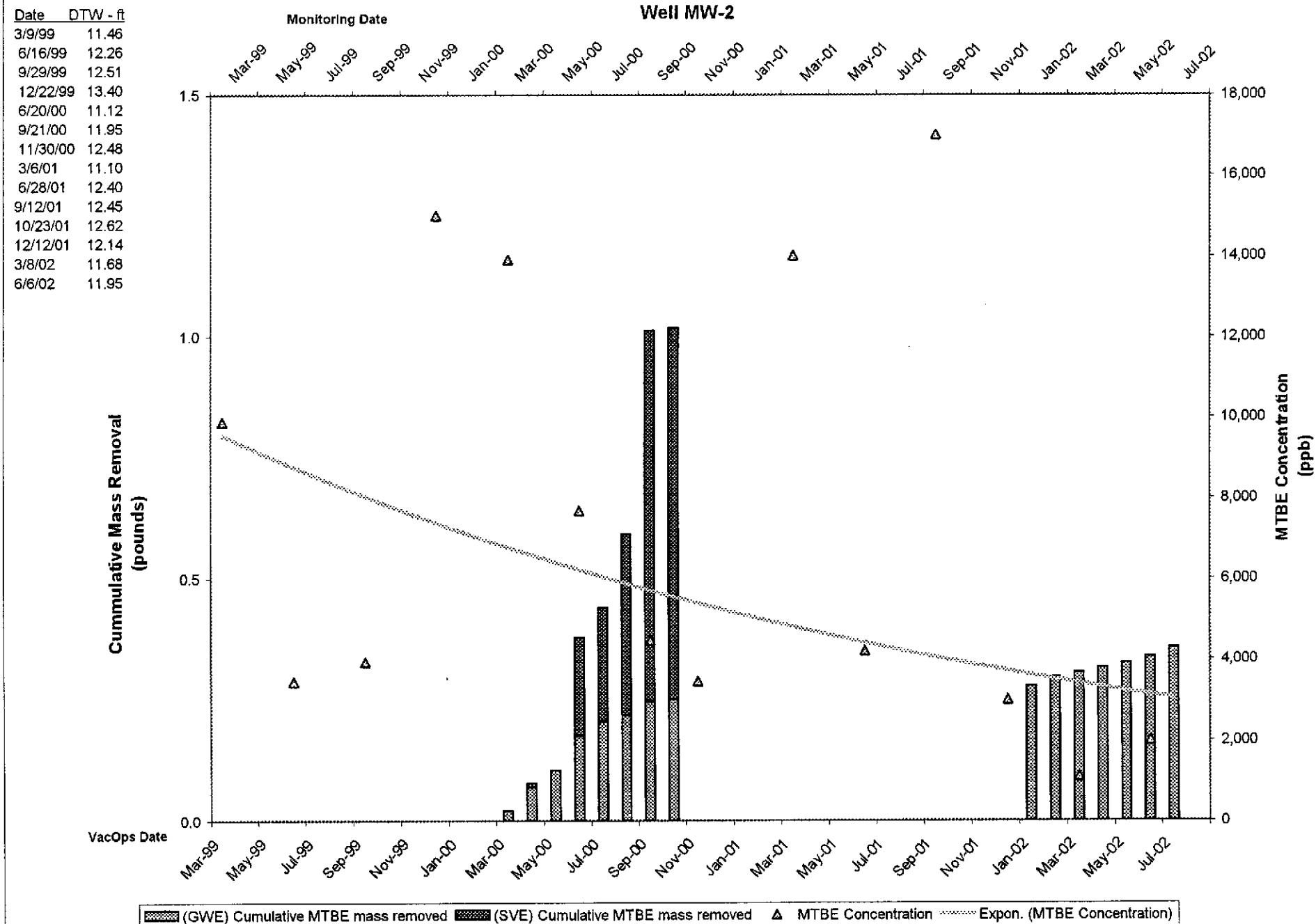


Figure 4
MTBE and Mass Removal
Well MW-3

Date	DTW - ft
3/9/99	11.03
6/16/99	11.89
9/29/99	12.35
12/22/99	13.45
3/21/00	10.00
6/20/00	11.15
9/21/00	11.58
11/30/00	12.10
3/6/01	11.00
6/28/01	11.96
9/12/01	12.05
10/23/01	12.62
12/12/01	11.83
3/8/02	11.26
6/6/02	11.50

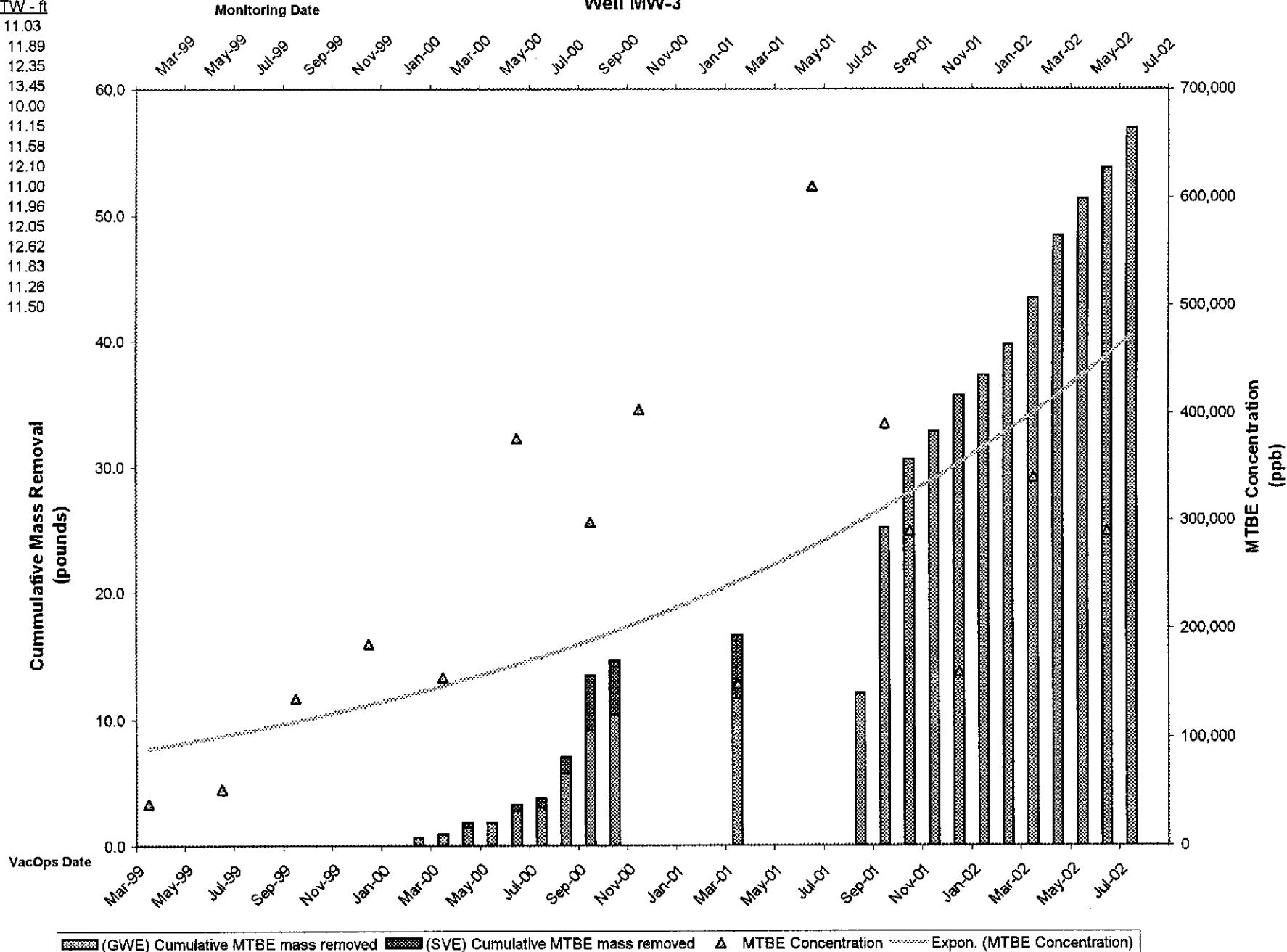


Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, California

Date Purged	Well ID	Cumulative			TPPH			Benzene			MTBE		
		Volume Pumped (gal)	Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)
03/15/00	MW-2	0	0	03/21/00	<5,000	0.00000	0.00000	94.7	0.00000	0.00000	13,900	0.00000	0.00000
03/22/00	MW-2	100	100	03/21/00	<5,000	0.00209	0.00209	94.7	0.00008	0.00008	13,900	0.01160	0.01160
03/27/00	MW-2	75	175	03/21/00	<5,000	0.00156	0.00365	94.7	0.00006	0.00014	13,900	0.00870	0.02030
04/03/00	MW-2	100	275	03/21/00	<5,000	0.00209	0.00574	94.7	0.00008	0.00022	13,900	0.01160	0.03190
04/17/00	MW-2	200	475	03/21/00	<5,000	0.00417	0.00991	94.7	0.00016	0.00038	13,900	0.02320	0.05509
04/24/00	MW-2	125	600	03/21/00	<5,000	0.00261	0.01252	94.7	0.00010	0.00047	13,900	0.01450	0.06959
05/01/00	MW-2	50	650	03/21/00	<5,000	0.00104	0.01356	94.7	0.00004	0.00051	13,900	0.00580	0.07539
05/15/00	MW-2	75	725	03/21/00	<5,000	0.00156	0.01512	94.7	0.00006	0.00057	13,900	0.00870	0.08409
05/22/00	MW-2	100	825	03/21/00	<5,000	0.00209	0.01721	94.7	0.00008	0.00065	13,900	0.01160	0.09569
05/29/00	MW-2	75	900	03/21/00	<5,000	0.00156	0.01877	94.7	0.00006	0.00071	13,900	0.00870	0.10439
06/05/00	MW-2	617	1,517	03/21/00	<5,000	0.01287	0.03165	94.7	0.00049	0.00120	13,900	0.07156	0.17595
07/07/00	MW-2	460	1,977	06/20/00	101	0.00039	0.03203	5.95	0.00002	0.00122	7,670	0.02944	0.20539
08/17/00	MW-2	665	2,642	06/20/00	101	0.00056	0.03259	5.95	0.00003	0.00123	7,670	0.04256	0.21851
09/13/00	MW-2	429	3,071	06/20/00	101	0.00036	0.03296	5.95	0.00002	0.00125	7,670	0.02746	0.24597
10/27/00*	MW-2	75	3,146	06/20/00	101	0.00006	0.03302	5.95	0.00000	0.00126	7,670	0.00480	0.25077
01/16/02*	MW-2	230	3,376	12/12/01	<1,000	0.00096	0.03398	<10	0.00001	0.00127	3,000	0.00576	0.25653
01/23/02	MW-2	535	3,911	12/12/01	<1,000	0.00223	0.03621	<10	0.00002	0.00129	3,000	0.01339	0.26992
01/30/02	MW-2	300	4,211	12/12/01	<1,000	0.00125	0.03746	<10	0.00001	0.00130	3,000	0.00751	0.27743
02/05/02	MW-2	175	4,386	12/12/01	<1,000	0.00073	0.03819	<10	0.00001	0.00131	3,000	0.00438	0.28181
02/12/02	MW-2	289	4,675	12/12/01	<1,000	0.00121	0.03940	<10	0.00001	0.00132	3,000	0.00723	0.28904
02/19/02	MW-2	461	5,136	03/08/02	<250	0.00048	0.03988	<2.5	0.00000	0.00133	1,100	0.00423	0.29328
02/26/02	MW-2	250	5,386	03/08/02	<250	0.00026	0.04014	<2.5	0.00000	0.00133	1,100	0.00229	0.29557
03/05/02	MW-2	250	5,636	03/08/02	<250	0.00026	0.04040	<2.5	0.00000	0.00133	1,100	0.00229	0.29787
03/12/02	MW-2	300	5,936	03/08/02	<250	0.00031	0.04071	<2.5	0.00000	0.00133	1,100	0.00275	0.30062
03/19/02	MW-2	400	6,336	03/08/02	<250	0.00042	0.04113	<2.5	0.00000	0.00134	1,100	0.00367	0.30429
03/26/02	MW-2	100	6,436	03/08/02	<250	0.00010	0.04123	<2.5	0.00000	0.00134	1,100	0.00092	0.30521

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		Volume Pumped (gal)	Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE To Date (lb)
04/02/02	MW-2	200	6,636	03/08/02	<250	0.00021	0.04144	<2.5	0.00000	0.00134	1,100	0.00184	0.30704
04/09/02	MW-2	179	6,815	03/08/02	<250	0.00019	0.04163	<2.5	0.00000	0.00134	1,100	0.00164	0.30869
04/17/02	MW-2	250	7,065	03/08/02	<250	0.00026	0.04189	<2.5	0.00000	0.00135	1,100	0.00229	0.31098
04/23/02	MW-2	242	7,307	03/08/02	<250	0.00025	0.04214	<2.5	0.00000	0.00135	1,100	0.00222	0.31320
04/30/02	MW-2	250	7,557	03/08/02	<250	0.00026	0.04240	<2.5	0.00000	0.00135	1,100	0.00229	0.31550
05/07/02	MW-2	150	7,707	03/08/02	<250	0.00016	0.04256	<2.5	0.00000	0.00135	1,100	0.00138	0.31687
05/19/02	MW-2	272	7,979	03/08/02	<250	0.00028	0.04284	<2.5	0.00000	0.00136	1,100	0.00250	0.31937
05/21/02	MW-2	400	8,379	03/08/02	<250	0.00042	0.04326	<2.5	0.00000	0.00136	1,100	0.00367	0.32304
05/28/02	MW-2	250	8,629	03/08/02	<250	0.00026	0.04352	<2.5	0.00000	0.00136	1,100	0.00229	0.32534
06/03/02	MW-2	250	8,879	03/08/02	<250	0.00026	0.04378	<2.5	0.00000	0.00136	1,100	0.00229	0.32763
06/11/02	MW-2	189	9,068	06/06/02	<500	0.00039	0.04418	<5.0	0.00000	0.00137	2,000	0.00315	0.33079
06/18/02	MW-2	200	9,268	06/06/02	<500	0.00042	0.04459	<5.0	0.00000	0.00137	2,000	0.00334	0.33412
06/25/02	MW-2	241	9,509	06/06/02	<500	0.00050	0.04510	<5.0	0.00001	0.00138	2,000	0.00402	0.33815
07/02/02	MW-2	250	9,759	06/06/02	<500	0.00052	0.04562	<5.0	0.00001	0.00138	2,000	0.00417	0.34232
07/09/02	MW-2	200	9,959	06/06/02	<500	0.00042	0.04604	<5.0	0.00000	0.00139	2,000	0.00334	0.34566
07/16/02	MW-2	225	10,184	06/06/02	<500	0.00047	0.04651	<5.0	0.00000	0.00139	2,000	0.00375	0.34941
07/23/02	MW-2	256	10,440	06/06/02	<500	0.00053	0.04704	<5.0	0.00001	0.00140	2,000	0.00427	0.35368
07/30/02	MW-2	182	10,622	06/06/02	<500	0.00038	0.04742	<5.0	0.00000	0.00140	2,000	0.00304	0.35672
08/06/02	MW-2	300	10,922	06/06/02	<500	0.00063	0.04804	<5.0	0.00001	0.00141	2,000	0.00501	0.36173
03/15/00	MW-3	500	500	03/21/00	<25,000	0.01043	0.01043	466	0.00194	0.00194	155,000	0.64669	0.64669
03/22/00	MW-3	100	600	03/21/00	<25,000	0.00782	0.01825	466	0.00039	0.00233	155,000	0.12934	0.77603
03/27/00	MW-3	75	675	03/21/00	<25,000	0.01043	0.02868	466	0.00029	0.00262	155,000	0.09700	0.87303
04/03/00	MW-3	100	775	03/21/00	<25,000	0.02086	0.04954	466	0.00039	0.00301	155,000	0.12934	1.00237
04/17/00	MW-3	200	975	03/21/00	<25,000	0.01304	0.06258	466	0.00078	0.00379	155,000	0.25868	1.26104
04/24/00	MW-3	125	1,100	03/21/00	<25,000	0.01043	0.07301	466	0.00049	0.00428	155,000	0.16167	1.42271

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, California

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		Volume Pumped (gal)	Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)
05/01/00	MW-3	100	1,200	03/21/00	<25,000	0.00782	0.08084	466	0.00039	0.00467	155,000	0.12934	1.55205
05/15/00	MW-3	75	1,275	03/21/00	<25,000	0.00522	0.08605	466	0.00029	0.00496	155,000	0.09700	1.64905
05/22/00	MW-3	50	1,325	03/21/00	<25,000	0.00782	0.09387	466	0.00019	0.00515	155,000	0.06467	1.71372
05/29/00	MW-3	75	1,400	03/21/00	<25,000	0.07041	0.16428	466	0.00029	0.00544	155,000	0.09700	1.81073
06/05/00	MW-3	675	2,075	03/21/00	<25,000	0.03744	0.20172	466	0.00262	0.00807	155,000	0.87303	2.68375
07/07/00	MW-3	68	2,143	06/20/00	16,200	0.09679	0.29851	1,140	0.00065	0.00872	579,000	0.32853	3.01229
08/17/00	MW-3	554	2,697	06/20/00	16,200	0.07489	0.37340	1,140	0.00527	0.01399	579,000	2.67659	5.68887
09/13/00	MW-3	716	3,413	06/20/00	16,200	0.09679	0.47019	1,140	0.00681	0.02080	579,000	3.45927	9.14814
10/27/00*	MW-3	250	3,663	06/20/00	16,200	0.03379	0.50398	1,140	0.00238	0.02317	579,000	1.20785	10.35599
03/22/01	MW-3	383	4,046	03/22/01	<20,000	0.03196	0.53594	<200	0.00032	0.02349	390,000	1.24640	11.60239
08/22/01	MW-3	90	4,136	06/28/01	<50,000	0.01877	0.55472	1,200	0.00090	0.02440	610,000	0.45811	12.06049
08/28/01	MW-3	600	4,736	06/28/01	<50,000	0.12517	0.67988	1,200	0.00601	0.03040	610,000	3.05403	15.11452
09/05/01	MW-3	750	5,486	06/28/01	<50,000	0.15646	0.83634	1,200	0.00751	0.03791	610,000	3.81754	18.93207
09/18/01	MW-3	1,900	7,386	09/12/01	<20,000	0.15854	0.99488	430	0.00682	0.04473	390,000	6.18317	25.11524
10/10/01	MW-3	500	7,886	09/12/01	<20,000	0.04172	1.03660	430	0.00179	0.04652	390,000	1.62715	26.74239
10/16/01	MW-3	200	8,086	09/12/01	<20,000	0.01669	1.05329	430	0.00072	0.04724	390,000	0.65086	27.39324
10/26/01	MW-3	1,300	9,386	10/23/01	11,000	0.11932	1.17262	350	0.00380	0.05104	290,000	3.14582	30.53907
10/31/01	MW-3	150	9,536	10/23/01	11,000	0.01377	1.18638	350	0.00044	0.05148	290,000	0.36298	30.90205
11/07/01	MW-3	280	9,816	10/23/01	11,000	0.02570	1.21209	350	0.00082	0.05229	290,000	0.67756	31.57961
11/17/01	MW-3	100	9,916	10/23/01	11,000	0.00918	1.22126	350	0.00029	0.05259	290,000	0.24199	31.82159
11/21/01	MW-3	400	10,316	10/23/01	11,000	0.03672	1.25798	350	0.00117	0.05375	290,000	0.96795	32.78954
12/01/01	MW-3	300	10,616	10/23/01	11,000	0.02754	1.28552	350	0.00088	0.05463	290,000	0.72596	33.51550
12/05/01	MW-3	350	10,966	10/23/01	11,000	0.03213	1.31764	350	0.00102	0.05565	290,000	0.84695	34.36245
12/12/01	MW-3	500	11,466	12/12/01	<20,000	0.04172	1.35936	280	0.00117	0.05682	160,000	0.66755	35.03000
12/19/01	MW-3	450	11,916	12/12/01	<20,000	0.03755	1.39691	280	0.00105	0.05787	160,000	0.60079	35.63079
01/09/02	MW-3	190	12,106	12/12/01	<20,000	0.01585	1.41277	280	0.00044	0.05832	160,000	0.25367	35.88446

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, California

Date Purged	Well ID	Cumulative			TPPH			Benzene			MTBE		
		Volume Pumped (gal)	Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)
01/16/02*	MW-3	450	12,556	12/12/01	<20,000	0.03755	1.45032	280	0.00105	0.05937	160,000	0.60079	36.48526
01/23/02	MW-3	300	12,856	12/12/01	<20,000	0.02503	1.47535	280	0.00070	0.06007	160,000	0.40053	36.88578
01/30/02	MW-3	278	13,134	12/12/01	<20,000	0.02320	1.49855	280	0.00065	0.06072	160,000	0.37116	37.25694
02/05/02	MW-3	347	13,481	12/12/01	<20,000	0.02895	1.52750	280	0.00081	0.06153	160,000	0.46328	37.72022
02/12/02	MW-3	300	13,781	12/12/01	<20,000	0.02503	1.55254	280	0.00070	0.06223	160,000	0.40053	38.12075
02/19/02	MW-3	250	14,031	03/08/02	<20,000	0.02086	1.57340	270	0.00056	0.06279	340,000	0.70927	38.83002
02/26/02	MW-3	299	14,330	03/08/02	<20,000	0.02495	1.59835	270	0.00067	0.06347	340,000	0.84829	39.67831
03/05/02	MW-3	462	14,792	03/08/02	<20,000	0.03855	1.63690	270	0.00104	0.06451	340,000	1.31073	40.98904
03/12/02	MW-3	194	14,986	03/08/02	<20,000	0.01619	1.65308	270	0.00044	0.06495	340,000	0.55039	41.53943
03/19/02	MW-3	213	15,199	03/08/02	<20,000	0.01777	1.67086	270	0.00048	0.06543	340,000	0.60430	42.14373
03/26/02	MW-3	447	15,646	03/08/02	<20,000	0.03730	1.70816	270	0.00101	0.06643	340,000	1.26818	43.41191
04/02/02	MW-3	437	16,083	03/08/02	<20,000	0.03646	1.74462	270	0.00098	0.06742	340,000	1.23980	44.65171
04/09/02	MW-3	358	16,441	03/08/02	<20,000	0.02987	1.77449	270	0.00081	0.06822	340,000	1.01568	45.66739
04/17/02	MW-3	352	16,793	03/08/02	<20,000	0.02937	1.80387	270	0.00079	0.06902	340,000	0.99865	46.66604
04/23/02	MW-3	300	17,093	03/08/02	<20,000	0.02503	1.82890	270	0.00068	0.06969	340,000	0.85112	47.51716
04/30/02	MW-3	309	17,402	03/08/02	<20,000	0.02578	1.85468	270	0.00070	0.07039	340,000	0.87666	48.39382
05/07/02	MW-3	198	17,600	03/08/02	<20,000	0.01652	1.87121	270	0.00045	0.07083	340,000	0.56174	48.95556
05/19/02	MW-3	200	17,800	03/08/02	<20,000	0.01669	1.88789	270	0.00045	0.07129	340,000	0.56742	49.52298
05/21/02	MW-3	400	18,200	03/08/02	<20,000	0.03338	1.92127	270	0.00090	0.07219	340,000	1.13483	50.65781
05/28/02	MW-3	237	18,437	03/08/02	<20,000	0.01978	1.94105	270	0.00053	0.07272	340,000	0.67239	51.33020
06/03/02	MW-3	270	18,707	03/08/02	<20,000	0.02253	1.96358	270	0.00061	0.07333	340,000	0.76601	52.09621
06/11/02	MW-3	300	19,007	06/06/02	<50,000	0.06258	2.02616	290	0.00073	0.07405	290,000	0.72596	52.82217
06/18/02	MW-3	179	19,186	06/06/02	<50,000	0.03734	2.06350	290	0.00043	0.07449	290,000	0.43316	53.25533
06/25/02	MW-3	200	19,386	06/06/02	<50,000	0.04172	2.10522	290	0.00048	0.07497	290,000	0.48397	53.73930
07/02/02	MW-3	270	19,656	06/06/02	<50,000	0.05632	2.16155	290	0.00065	0.07562	290,000	0.65336	54.39266
07/09/02	MW-3	287	19,943	06/06/02	<50,000	0.05987	2.22142	290	0.00069	0.07632	290,000	0.69450	55.08716

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, California

Date Purged	Well ID	Cumulative			TPPH			Benzene			MTBE		
		Volume Pumped (gal)	Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)
07/16/02	MW-3	233	20,176	06/06/02	<50,000	0.04861	2.27002	290	0.00056	0.07688	290,000	0.56383	55.65099
07/23/02	MW-3	300	20,476	06/06/02	<50,000	0.06258	2.33261	290	0.00073	0.07761	290,000	0.72596	56.37695
07/30/02	MW-3	221	20,697	06/06/02	<50,000	0.04610	2.37871	290	0.00053	0.07814	290,000	0.53479	56.91174
08/06/02	MW-3	237	20,934	06/06/02	<50,000	0.04944	2.42815	290	0.00057	0.07872	290,000	0.57351	57.48525
Total Gallons Extracted:			31,856		Total Pounds Removed:			2,47620			0.08015		57.87641
					Total Gallons Removed:			0.40593			0.01098		9.33491

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline

MtBE = Methyl tert-butyl ether

ppb = Parts per billion

lb = Pound

gal = Gallon

* = Groundwater volume pumped estimated; data not available

a = Dual-phase Vacuum Extraction (DVE) Pilot test using a RSI V3 Internal Combustion Engine with Bioslurp Tank on well MW-3 on March 22, 2001.

Details of mass removal estimates reported in Cambria's August 29, 2001 Site Conceptual Model and Pilot Test Report , Table 2.

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

Data in bold font analyzed by EPA Method 8260, all others analyzed by EPA Method 8020

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 Onyx Industrial; water disposed of at a Martinez refinery

Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, California

Date	Well	ID	Interval Hours of Operation	System Flow Rate (CFM)	Hydrocarbon Concentrations			TPHg		Benzene		MTBE	
					TPHg	Benzene	MTBE	TPHg Removal Rate (#/hour)	Cumulative TPHg Removed (#)	Benzene Removal Rate (#/hour)	Cumulative Benzene Removed (#)	MTBE Removal Rate (#/hour)	Cumulative MTBE Removed (#)
					(Concentrations in ppmv)								
03/15/00	MW-2	0	0	NA	NA	NA	NA	0.000	0.000	0.000	0.000	0.000	0.000
04/17/00	MW-2	1.25	0.86	15.9	0.340	519	0.000	0.000	0.000	0.000	0.006	0.008	
06/05/00	MW-2	4.00	9.8	1,910	62.7	363	0.250	1.001	0.007	0.030	0.049	0.202	
07/07/00	MW-2	4.00	13.7	473	<3.1	42	0.087	1.348	0.000	0.031	0.008	0.234	
08/17/00	MW-2	4.00	17	1,799	61	149	0.409	2.983	0.013	0.081	0.035	0.372	
09/13/00	MW-2	1.20	38	3,300	<15.7	631	1.676	4.995	0.004	0.085	0.328	0.766	
10/27/00	MW-2	1.75	5.8	16.8	0.229	9.29	0.001	4.997	0.000	0.085	0.001	0.767	
03/15/00	MW-3	0.22	0.87	3,400	50	410	0.040	0.009	0.001	0.000	0.005	0.001	
03/15/00	MW-3	2.75	0.74	3,700	47	410	0.037	0.109	0.000	0.001	0.004	0.012	
04/17/00	MW-3	1.25	7.8	246	8.05	2,850	0.026	0.141	0.001	0.002	0.304	0.393	
06/05/00	MW-3	4.00	5	2,130	23.0	529	0.142	0.711	0.001	0.008	0.036	0.537	
07/07/00	MW-3	4.00	0.8	<2,833	57	3,861	0.015	0.771	0.001	0.010	0.042	0.706	
08/17/00	MW-3	4.00	2.8	22,833	346	4,222	0.855	4.190	0.012	0.057	0.162	1.353	
09/13/00	MW-3	3.75	34	15,200	<31.4	1,670	6.909	30.097	0.006	0.081	0.777	4.266	
10/27/00	MW-3	1.50	6.4	11.7	0.215	9.27	0.001	30.098	0.000	0.081	0.001	4.267	
03/22/01	MW-3	0.583	3.0	2,800	10	2,100	0.112	30.164	0.000	0.082	0.086	4.317	a
03/22/01	MW-3	3.333	8.9	3,000	10	2,600	0.357	31.354	0.001	0.085	0.317	5.372	a
03/22/01	T-1	1.000	3	6,300	42	4,400	0.253	0.253	0.002	0.002	0.181	0.181	a
03/22/01	T-1	1.667	4.04	5,000	39	8,700	0.270	0.703	0.002	0.005	0.481	0.982	a
10/08/01	T-1	2.000	2	1,100	11	340	0.029	0.762	0.000	0.005	0.009	1.001	b
10/08/01	T-1	2.800	2	15,000	140	2,600	0.401	1.885	0.003	0.015	0.071	1.200	b
10/09/01	T-1	12.800	70.8	900	90	2,300	0.852	12.788	0.077	1.004	2.227	29.711	b
10/10/01	T-1	8.300	22	550	55	2,200	0.162	14.130	0.015	1.125	0.662	35.206	b

Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, California

Date	Well	ID	Interval Hours of Operation	System Flow Rate (CFM)	Hydrocarbon Concentrations (Concentrations in ppmv)			TPHg		Benzene		MTBE		Notes:
					TPHg	Benzene	MTBE	TPHg Removal Rate (#/hour)	Cumulative TPHg Removed (#)	Benzene Removal Rate (#/hour)	Cumulative Benzene Removed (#)	MTBE Removal Rate (#/hour)	Cumulative MTBE Removed (#)	
10/11/01	T-1	6.900	22	630	63	82		0.185	15.409	0.017	1.241	0.025	35.376	b
10/12/01	T-1	4.200	2	510	51	610		0.014	15.466	0.001	1.247	0.017	35.447	b
10/12/01	T-1	5.000	80	140	14	270		0.150	16.214	0.014	1.314	0.295	36.924	b
Total Pounds Removed:					TPHg = 52.565		Benzene = 1.485		MTBE = 43.063					

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.

a = Dual-phase Vacuum Extraction (DVE) Pilot test using a RSI V3 Internal Combustion Engine with Bioslurp Tank on wells MW-3 and T-1 on March 22, 2001;

details of mass removal estimates reported in Cambria's August 29, 2001 *Site Conceptual Model and Pilot Test Report*, Table 3; daily averages included herein.b = 5-day SVE test on well T-1; details of mass removal estimates reported in Cambria's *Soil Vapor Extraction Pilot Test Report and Investigation Work Plan*, Table 1; daily averages included herein.

Table 3. Tank Backfill Well Vapor Concentrations -
 Shell-branded Service Station, Incident # 98995750, 610 Market Street, Oakland, California.

Well I.D.	Date	OVA	Laboratory Results					
		Reading	TPHg	MTBE	Benzene (ppmv)	Toluene	Ethylbenzene	Xylenes
T-1	11/19/01	240	--	--	--	--	--	--
	02/07/02	63,890	--	--	--	--	--	--
	02/12/02	--	--	--	--	--	--	--
	02/25/02	128	--	--	--	--	--	--
	03/01/02*	195	--	--	--	--	--	--
	04/19/02	1,024	--	--	--	--	--	--
	05/09/02	--	--	--	--	--	--	--
	06/05/02	400	--	--	--	--	--	--
	07/12/02	714	--	--	--	--	--	--
	08/02/02	982	--	--	--	--	--	--
T-2	11/19/01	459	--	--	--	--	--	--
	02/07/02	63,930	--	--	--	--	--	--
	02/12/02	--	4,800	990	24	4.3	<3.3	<3.3
	02/25/02	154	--	--	--	--	--	--
	03/01/02*	650	2,600	1,100	15	<3.3	<3.3	5.0
	04/19/02	6,922	2,600	1,600	8.6	<4.0	<4.0	<4.0
	05/09/02	--	1,300	600	2.3	<2.0	<2.0	<2.0
	06/05/02	2,487	11	2.2	0.11	0.31	0.16	0.75
	07/12/02	1,889	51	87	0.098	0.070	0.17	0.60
	08/02/02	> 3,000	5,400	2,200	21	140	22	100

Abbreviations and Notes:

Note: Five-day SVE test conducted 10/8/01 through 10/12/01

OVA = Organic Vapor Analyzer, typically Horiba model MEXA554JU

TPHg = Total petroleum hydrocarbons as gasoline, analyzed by modified EPA Method 8260B

Benzene, toluene, ethylbenzene and total xylenes, analyzed by EPA Method 8260B

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8020 or EPA Method 8260B.

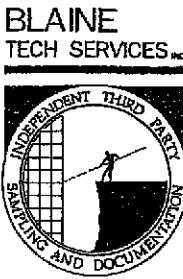
-- = measurements were not taken

* = On 3/1/02 sealant applied around outside edge of fill port spill bucket.

ATTACHMENT A

Blaine Groundwater Monitoring Report

and Field Notes



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June 20, 2002

Karen Petryna
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Second Quarter 2002 Groundwater Monitoring at
Shell-branded Service Station
610 Market Street
Oakland, CA

Monitoring performed on May 13, 20 and June 6, 2002

Groundwater Monitoring Report **020606-MM-2**

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

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

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

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA
WIC #204-5508-5702

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-1	12/17/1998	2,200	20	<10	110	420	<50	NA	21.70	13.71	7.99
MW-1	03/09/1999	4,320	25.8	<10.0	338	474	<100	NA	21.70	13.03	8.67
MW-1	06/16/1999	6,150	107	84.0	615	1,050	<250	NA	21.70	13.82	7.88
MW-1	09/29/1999	3,440	97.3	58.7	433	578	89.1	NA	21.70	14.45	7.25
MW-1	12/22/1999	1,370	34.5	4.38	196	49.1	29.3	NA	21.70	15.39	6.31
MW-1	03/21/2000	2,550	10.3	3.36	164	312	65.6	NA	21.70	11.94	9.76
MW-1	06/20/2000	4,770	64.3	18.6	387	732	51.3	NA	21.70	13.15	8.55
MW-1	09/21/2000	7,490	350	229	690	1,490	160	NA	21.70	13.65	8.05
MW-1	11/30/2000	5,410	420	168	494	1,170	167	NA	21.70	14.20	7.50
MW-1	03/06/2001	965	25.7	9.14	13.3	9.12	<25.0	NA	21.70	12.99	8.71
MW-1	06/28/2001	5,900	190	71	360	910	NA	110	21.70	13.98	7.72
MW-1	09/12/2001	7,400	240	110	460	1,300	NA	130	21.70	14.15	7.55
MW-1	12/12/2001	1,700	100	30	120	300	NA	98	21.70	13.75	7.95
MW-1	03/08/2002	1,100	63	12	74	83	NA	50	21.70	13.22	8.48
MW-1	06/06/2002	2,300	95	31	130	290	NA	49	21.70	13.57	8.13

MW-2	12/17/1998	<5,000	<50	<50	<50	<50	11,000	NA	19.61	12.07	7.54
MW-2	03/09/1999	<250	5.20	<2.50	<2.50	<2.50	9,870	NA	19.61	11.46	8.15
MW-2	06/16/1999	<50.0	0.569	<0.500	<0.500	<0.500	3,440	NA	19.61	12.26	7.35
MW-2	09/29/1999	58.6	2.51	0.978	<0.500	<0.500	3,930	NA	19.61	12.51	7.10
MW-2	12/22/1999	<2,000	50.4	<20.0	<20.0	<20.0	15,000	NA	19.61	13.40	6.21
MW-2	03/21/2000	<5,000	94.7	<50.0	<50.0	<50.0	13,900	NA	19.61	10.36	9.25
MW-2	06/20/2000	101	5.95	<0.500	<0.500	0.552	7,670	NA	19.61	11.12	8.49
MW-2	09/21/2000	<2,000	<20.0	<20.0	<20.0	<20.0	4,460	NA	19.61	11.95	7.66
MW-2	11/30/2000	81.1	4.46	0.924	0.841	3.23	3,450	NA	19.61	12.48	7.13
MW-2	03/06/2001	<500	183	<5.00	<5.00	<5.00	14,000	NA	19.61	11.10	8.51

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA
WIC #204-5508-5702

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	06/28/2001	<1,000	<10	<10	<10	<10	NA	4,200	19.61	12.40	7.21
MW-2	09/12/2001	<2,000	120	<20	<20	<20	NA	17,000	19.61	12.45	7.16
MW-2	12/12/2001	<1,000	<10	<10	<10	<10	NA	3,000	19.61	12.14	7.47
MW-2	03/08/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	1,100	19.61	11.68	7.93
MW-2	06/06/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	2,000	19.61	11.95	7.66
MW-3	12/17/1998	30,000	890	110	2,100	4,300	42,000	43,000	19.05	11.65	7.40
MW-3	03/09/1999	22,700	536	<200	1,030	1,510	35,400	38,500	19.05	11.03	8.02
MW-3	06/16/1999	19,300	625	129	805	1,210	42,400	51,600	19.05	11.89	7.16
MW-3	09/29/1999	20,200	727	155	1,000	1,180	84,100	136,000a	19.05	12.35	6.70
MW-3	12/22/1999	44,500	767	64.4	1,810	2,090	191,000	186,000a	19.05	13.45	5.60
MW-3	03/21/2000	<25,000	466	<250	727	2,280	126,000	155,000	19.05	10.00	9.05
MW-3	06/20/2000	16,200	1,140	98.8	1,140	1,410	579,000	376,000a	19.05	11.15	7.90
MW-3	09/21/2000	<50,000	712	<500	520	795	293,000	298,000	19.05	11.58	7.47
MW-3	11/30/2000	18,000	1,050	124	1,120	2,010	543,000a	403,000a	19.05	12.10	6.95
MW-3	03/06/2001	19,900	1,290	115	1,450	1,760	706,000	149,000	19.05	11.00	8.05
MW-3	06/28/2001	<50,000	1,200	<250	1,100	1,300	NA	610,000	19.05	11.96	7.09
MW-3	09/12/2001	<20,000	430	<200	230	480	NA	390,000	19.05	12.05	7.00
MW-3	10/23/2001	11,000	350	<100	210	440	NA	290,000	19.05	12.62	6.43
MW-3	12/12/2001	<20,000	280	<200	<200	<200	NA	160,000	19.05	11.83	7.22
MW-3	03/08/2002	<20,000	270	<200	<200	<200	NA	340,000	19.05	11.26	7.79
MW-3	06/06/2002	<50,000	290	<250	<250	<250	NA	290,000	19.05	11.50	7.55
MW-4	05/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	10.64	NA
MW-4	05/20/2002	<1,000	<10	<10	<10	<10	NA	4,600	NA	10.64	NA
MW-4	06/06/2002	<1,000	<10	<10	<10	<10	NA	4,800	NA	10.61	NA

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA
WIC #204-5508-5702

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
---------	------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------

MW-5	05/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	10.40	NA
MW-5	05/20/2002	<2,500	<25	<25	<25	<25	NA	17,000	NA	10.41	NA
MW-5	06/06/2002	<5,000	<50	<50	<50	<50	NA	15,000	NA	10.36	NA

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

Notes:

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

Wells MW-1, MW-2, and MW-3 surveyed December 9, 1998, by Virgil Chavez Land Surveying of Vallejo, California.



Report Number : 26495

Date : 6/29/2002

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 2 Water Samples
Project Name : 610 Market Street, Oakland
Project Number : 020520-MN3
P.O. Number : 98995750

Dear Mr. Gearhart,

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".

Joel Kiff



Report Number : 26495

Date : 6/29/2002

Project Name : 610 Market Street, Oakland

Project Number : 020520-MN3

Sample : MW-4

Matrix : Water

Lab Number : 26495-01

Sample Date : 5/20/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 10	10	ug/L	EPA 8260B	5/25/2002
Toluene	< 10	10	ug/L	EPA 8260B	5/25/2002
Ethylbenzene	< 10	10	ug/L	EPA 8260B	5/25/2002
Total Xylenes	< 10	10	ug/L	EPA 8260B	5/25/2002
Methyl-t-butyl ether (MTBE)	4600	100	ug/L	EPA 8260B	5/25/2002
TPH as Gasoline	< 1000	1000	ug/L	EPA 8260B	5/25/2002
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	5/25/2002
4-Bromofluorobenzene (Surr)	96.1		% Recovery	EPA 8260B	5/25/2002

Sample : MW-5

Matrix : Water

Lab Number : 26495-02

Sample Date : 5/20/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 25	25	ug/L	EPA 8260B	5/23/2002
Toluene	< 25	25	ug/L	EPA 8260B	5/23/2002
Ethylbenzene	< 25	25	ug/L	EPA 8260B	5/23/2002
Total Xylenes	< 25	25	ug/L	EPA 8260B	5/23/2002
Methyl-t-butyl ether (MTBE)	17000	250	ug/L	EPA 8260B	5/23/2002
TPH as Gasoline	< 2500	2500	ug/L	EPA 8260B	5/23/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/23/2002
4-Bromofluorobenzene (Surr)	97.4		% Recovery	EPA 8260B	5/23/2002

Approved By: Joel Kiff

QC Report : Method Blank Data

Project Name : 610 Market Street, Oakland

Project Number : 020520-MN3

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/23/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/23/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/23/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/23/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	5/23/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/23/2002
Toluene - d8 (Surrogate)	102		%	EPA 8260B	5/23/2002
4-Bromofluorobenzene (Surrogate)	99.1		%	EPA 8260B	5/23/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Report Number : 26495

Date : 6/29/2002

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 26495

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 6/29/2002

Project Name : 610 Market Street, Oakland

Project Number : 020520-MN3

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
Benzene	26492-04	<0.50	39.3	39.2	39.4	39.0	ug/L	EPA 8260B	5/23/02	100	99.5	0.850	70-130	25
Toluene	26492-04	<0.50	39.3	39.2	39.8	39.6	ug/L	EPA 8260B	5/23/02	101	101	0.321	70-130	25
Tert-Butanol	26492-04	<5.0	196	196	191	192	ug/L	EPA 8260B	5/23/02	97.2	97.8	0.523	70-130	25
Methyl-t-Butyl Ether	26492-04	<0.50	39.3	39.2	37.6	37.1	ug/L	EPA 8260B	5/23/02	95.7	94.6	1.10	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 26495

Date : 6/29/2002

QC Report : Laboratory Control Sample (LCS)

Project Name : 610 Market Street, Oakland

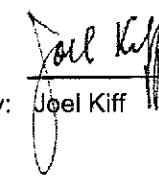
Project Number : 020520-MN3

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	20.0	ug/L	EPA 8260B	5/23/02	101	70-130
Toluene	20.0	ug/L	EPA 8260B	5/23/02	103	70-130
Tert-Butanol	100	ug/L	EPA 8260B	5/23/02	97.9	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	5/23/02	93.0	70-130

KIFF ANALYTICAL, LLC

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

Approved By:


Joel Kiff

LAB: KITT

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

<input checked="" type="checkbox"/> SCIENCE & ENGINEERING
<input type="checkbox"/> TECHNICAL SERVICES
<input type="checkbox"/> CRM/HOUSTON

Karen Petryna

26495

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 0

SAF or CRM# NUMBER (TS/CRM#)

DATE: 5/20/02PAGE: 1 of 1

SAMPLING COMPANY:

Blaine Tech Services

LOG CODE:

BTSS

SITE ADDRESS (Street and City):

610 Market Street, Oakland

GLOBAL ID NO.:

T0600102121

ADDRESS:

1880 Rogers Avenue, San Jose, CA 95112

PROJECT CONTACT (Handcopy or PDF Report to):

Leon Gearhart

TELEPHONE:

408-573-0555

408-573-7771

E-MAIL:
lgearhart@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: CHECK BOX IF EDD IS NOT NEEDED

LAB USE ONLY

Field Sample Identification

SAMPLING
DATE

TIME

MATRIX

NO. OF
CONT.

TPH - Gas, Purgeable

BTEX

MTBE (8201B - 5ppb RL)

MTBE (8260B - 0.5ppb RL)

Oxygenates (5) by (8260B)

Ethanol (8260B)

Methanol

1,2-DCA (8260B)

EDB (8260B)

TPH - Diesel, Extractable (8015m)

FIELD NOTES:

Container/Preservative
or PID Readings
or Laboratory Notes

TEMPERATURE ON RECEIPT C°

-01-02

Relinquished by: (Signature)

W.C.

Received by: (Signature)

Date: 5/21/02Time: 11:00

Relinquished by: (Signature)

Received by: (Signature)

Date: Time:

Relinquished by: (Signature)

Received by: (Signature)

Date: Time: 11:00

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

John Cutts/Kiff Analytical 052102

10/16/00 Revision



Report Number : 26777

Date : 06/18/2002

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 5 Water Samples
Project Name : 610 Market Street, Oakland
Project Number : 020606-MM2
P.O. Number : 98995750

Dear Mr. Gearhart,

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 fluid and cursive, with a large, stylized "J" at the beginning.

Joel Kiff



Report Number : 26777

Date : 06/18/2002

Subject : 5 Water Samples
Project Name : 610 Market Street, Oakland
Project Number : 020606-MM2
P.O. Number : 98995750

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples MW-1, MW-3, MW-4, MW-5, MW-2 for the analyte Benzene were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800



Report Number : 26777

Date : 06/18/2002

Project Name : 610 Market Street, Oakland

Project Number : 020606-MM2

Sample : MW-1

Matrix : Water

Lab Number : 26777-01

Sample Date : 06/06/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	95	0.50	ug/L	EPA 8260B	06/12/2002
Toluene	31	0.50	ug/L	EPA 8260B	06/12/2002
Ethylbenzene	130	0.50	ug/L	EPA 8260B	06/12/2002
Total Xylenes	290	0.50	ug/L	EPA 8260B	06/12/2002
Methyl-t-butyl ether (MTBE)	49	5.0	ug/L	EPA 8260B	06/12/2002
TPH as Gasoline	2300	50	ug/L	EPA 8260B	06/12/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	06/12/2002
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	06/12/2002

Sample : MW-2

Matrix : Water

Lab Number : 26777-02

Sample Date : 06/06/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 5.0	5.0	ug/L	EPA 8260B	06/18/2002
Toluene	< 5.0	5.0	ug/L	EPA 8260B	06/18/2002
Ethylbenzene	< 5.0	5.0	ug/L	EPA 8260B	06/18/2002
Total Xylenes	< 5.0	5.0	ug/L	EPA 8260B	06/18/2002
Methyl-t-butyl ether (MTBE)	2000	50	ug/L	EPA 8260B	06/18/2002
TPH as Gasoline	< 500	500	ug/L	EPA 8260B	06/18/2002
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	06/18/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	06/18/2002

Approved By: Joel Kiff



Report Number : 26777

Date : 06/18/2002

Project Name : 610 Market Street, Oakland

Project Number : 020606-MM2

Sample : MW-3

Matrix : Water

Lab Number : 26777-03

Sample Date : 06/06/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	290	250	ug/L	EPA 8260B	06/16/2002
Toluene	< 250	250	ug/L	EPA 8260B	06/16/2002
Ethylbenzene	< 250	250	ug/L	EPA 8260B	06/16/2002
Total Xylenes	< 250	250	ug/L	EPA 8260B	06/16/2002
Methyl-t-butyl ether (MTBE)	290000	5000	ug/L	EPA 8260B	06/18/2002
TPH as Gasoline	< 50000	50000	ug/L	EPA 8260B	06/16/2002
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	06/16/2002
4-Bromofluorobenzene (Surr)	97.1		% Recovery	EPA 8260B	06/16/2002

Sample : MW-4

Matrix : Water

Lab Number : 26777-04

Sample Date : 06/06/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 10	10	ug/L	EPA 8260B	06/16/2002
Toluene	< 10	10	ug/L	EPA 8260B	06/16/2002
Ethylbenzene	< 10	10	ug/L	EPA 8260B	06/16/2002
Total Xylenes	< 10	10	ug/L	EPA 8260B	06/16/2002
Methyl-t-butyl ether (MTBE)	4800	100	ug/L	EPA 8260B	06/16/2002
TPH as Gasoline	< 1000	1000	ug/L	EPA 8260B	06/16/2002
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	06/16/2002
4-Bromofluorobenzene (Surr)	97.6		% Recovery	EPA 8260B	06/16/2002

Approved By: Joel Kiff



Report Number : 26777

Date : 06/18/2002

Project Name : 610 Market Street, Oakland

Project Number : 020606-MM2

Sample : MW-5

Matrix : Water

Lab Number : 26777-05

Sample Date : 06/06/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 50	50	ug/L	EPA 8260B	06/16/2002
Toluene	< 50	50	ug/L	EPA 8260B	06/16/2002
Ethylbenzene	< 50	50	ug/L	EPA 8260B	06/16/2002
Total Xylenes	< 50	50	ug/L	EPA 8260B	06/16/2002
Methyl-t-butyl ether (MTBE)	15000	500	ug/L	EPA 8260B	06/16/2002
TPH as Gasoline	< 5000	5000	ug/L	EPA 8260B	06/16/2002
Toluene - d8 (Surrogate)	97.5		% Recovery	EPA 8260B	06/16/2002
4-Bromofluorobenzene (Surrogate)	97.7		% Recovery	EPA 8260B	06/16/2002

Approved By: Joel Kiff

QC Report : Method Blank DataProject Name : **610 Market Street, Oakland**Project Number : **020606-MM2**Report Number : **26777**Date : **06/18/2002**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/12/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/12/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/12/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/12/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	06/12/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/12/2002
Toluene - d8 (Surrogate)	102	%		EPA 8260B	06/12/2002
4-Bromofluorobenzene (Surrogate)	100	%		EPA 8260B	06/12/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff

Report Number : 26777

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 06/18/2002

Project Name : 610 Market Street, Oakland

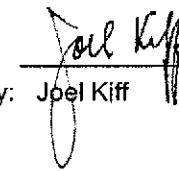
Project Number : 020606-MM2

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
Benzene	26777-01	95	39.4	39.1	122	120	ug/L	EPA 8260B	6/12/02	67.5	64.8	4.05	70-130	25
Toluene	26777-01	30	39.4	39.1	65.0	65.6	ug/L	EPA 8260B	6/12/02	87.6	89.7	2.38	70-130	25
Tert-Butanol	26777-01	5.7	197	195	203	202	ug/L	EPA 8260B	6/12/02	100	101	0.400	70-130	25
Methyl-t-Butyl Ether	26777-01	49	39.4	39.1	80.6	79.0	ug/L	EPA 8260B	6/12/02	80.9	77.4	4.39	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 : 26777

Date : 06/18/2002

Project Name : **610 Market Street, Oakland**Project Number : **020606-MM2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	6/12/02	100	70-130
Toluene	40.0	ug/L	EPA 8260B	6/12/02	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/12/02	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/12/02	90.1	70-130

KIFF ANALYTICAL, LLC

Approved By: Joel Kiff

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

LAB: KIE8

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be Invoiced:

<input checked="" type="checkbox"/> SCIENCE & ENGINEERING
<input type="checkbox"/> TECHNICAL SERVICES
<input type="checkbox"/> CRMT HOUSTON

Karen Petryna

26777

INCIDENT NUMBER (SICL ONLY)

9 8 9 9 5 7 5 0

SAP or CRMT NUMBER (TS/CRMT)

DATE: 6/6/02PAGE: 1 of 1

SAMPLING COMPANY:

Blaine Tech Services

LOG CODE:

BTSS

SITE ADDRESS (Street and City):

610 Market Street, Oakland

GLOBAL ID NO.:

T0600102121

ADDRESS:
1680 Rogers Avenue, San Jose, CA 95112PROJECT CONTACT (Handcopy or PDF Report to):
Leon Gearhart

TELEPHONE: 408-573-0555 FAX: 408-573-7771 E-MAIL: lgearhart@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: CHECK BOX IF EDD IS NOT NEEDED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8200B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	FIELD NOTES:		
		DATE	TIME													Container/Preservative or PID Readings or Laboratory Notes		
✓	MW-1	6/6	1310	W	3	X X X												TEMPERATURE ON RECEIPT C°
✓	MW-2	6/6	1230	W	3	X X X												-01
✓	MW-3	6/6	1258	W	3	X X X												-02
✓	MW-4	6/6	1150	W	3	X X X												-03
✓	MW-5	6/6	1265	W	3	X X X												-04
																		-05

Relinquished by: (Signature)

Matthew Miller

Received by: (Signature)

Date: 6/7/02Time: 11:24

Relinquished by: (Signature)

Received by: (Signature)

Date: 6/7/02Time:

Relinquished by: (Signature)

Received by: (Signature)

Date: 6/6/02Time: 11:24

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

John Little/Kiff Analytical

060702

10/16/00 Revision

WELL GAUGING DATA

Project # 020606-mm2 Date 6/6/02 Client Shell

Site 610 Market St Oakland

SHELL WELL MONITORING DATA SHEET

BTS #:	020606-mm2		Site:	610 Market St				
Sampler:	MJM		Date:	6/6/02				
Well I.D.:	MW-1		Well Diameter:	2	3	4	6	8
Total Well Depth:	24.70		Depth to Water:	13.57				
Depth to Free Product:			Thickness of Free Product (feet):					
Referenced to:	PVC	Grade	D.O. Meter (if req'd):	YSI	HACH			

Purge Method: Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible

Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other: _____

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

7 (Gals.) X 3 = 21 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1256	71.3	6.67	883	89	7	cloudy/brown
1258	69.6	6.66	898	14	14	"
1305	70.0	6.63	921	16	21	"

Did well dewater? Yes No Gallons actually evacuated: 21

Sampling Time: 1310 Sampling Date: 6/6/02

Sample I.D.: MW-1 Laboratory: Kiff SPL 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

SHELL WELL MONITORING DATA SHEET

BTS #:	020606-mm2		Site:	610 Market St				
Sampler:	MJM		Date:	6/6/02				
Well I.D.:	MW-2		Well Diameter:	2	3	4	6	8
Total Well Depth:	19.79		Depth to Water:	11.95				
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
Watera Sampling Method: Bailer
 Peristaltic
 Extraction Pump
Other _____

Disposable Bailer
 Extraction Port
 Dedicated Tubing

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

5 (Gals.) X 3 = 15 Gals.
1 Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1220	70.7	6.61	756	30	5	clear
1221	70.2	6.65	802	5	10	11
1225	70.4	6.66	786	2	15	

Did well dewater? Yes No Gallons actually evacuated: 15

Sampling Time: 1230 Sampling Date: 6/6/02

Sample I.D.: MW-2 Laboratory: Kiff SPL 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

SHELL WELL MONITORING DATA SHEET

BTS #:	020606-mm2	Site:	610 Market St				
Sampler:	MJM	Date:	6/6/02				
Well I.D.:	MW-3	Well Diameter:	2	3	(4)	6	8
Total Well Depth:	19.70	Depth to Water:	11.50				
Depth to Free Product:		Thickness of Free Product (feet):					
Referenced to:	PVC	Grade	D.O. Meter (if req'd):	YSI	HACH		

Purge Method: Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible

Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other: _____

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

5 (Gals.) X 3 = 15 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1237	66.7	6.67	518	15	5	sweet odor
1239	70.4	6.66	573	43	10	11
1241	71.1	6.76	551		15	11

Did well dewater? Yes No Gallons actually evacuated: 15

Sampling Time: 1250 Sampling Date: 6/6/02

Sample I.D.: MW-3 Laboratory: Kiff SPL Other _____

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

SHELL WELL MONITORING DATA SHEET

BTS #:	020606-MMZ	Site:	610 Market St				
Sampler:	MJM	Date:	6/6/02				
Well I.D.:	MW-4	Well Diameter:	2	3	4	6	8
Total Well Depth:	19.80	Depth to Water:	10.61				
Depth to Free Product:		Thickness of Free Product (feet):					
Referenced to:	PVC	Grade	D.O. Meter (if req'd):	YSI	HACH		

Purge Method: Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible

Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other: _____

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

6 (Gals.) X 3 = 18 Gals.

1 Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1040	70.2	6.25	1033	84	6	clear
1141	68.7	6.66	1084	>200	12	cloudy
1143	67.8	6.75	1058	>200	18	"

Did well dewater? Yes No Gallons actually evacuated: 18

Sampling Time: 1150 Sampling Date: 6/6/02

Sample I.D.: MW-4 Laboratory: Kiff SPL Other _____

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

SHELL WELL MONITORING DATA SHEET

BTS #:	020606-mm2	Site:	610 Market St				
Sampler:	MJM	Date:	6/6/02				
Well I.D.:	MW-5	Well Diameter:	2	3	4	6	8
Total Well Depth:	20.15	Depth to Water:	10.36				
Depth to Free Product:		Thickness of Free Product (feet):					
Referenced to:	PVC	Grade	D.O. Meter (if req'd):	YSI	HACH		

Purge Method:	Bailer	Waterra	Sampling Method:	Bailer																
Disposable Bailer	Peristaltic		Disposable Bailer																	
Middleburg	Extraction Pump		Extraction Port																	
<u>Electric Submersible</u>	Other _____		Dedicated Tubing																	
Other: _____																				
$\frac{6 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 18 \text{ Gals.}$		<table border="1" style="margin-left: auto; margin-right: auto;"> <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>$\text{radius}^2 * 0.163$</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	$\text{radius}^2 * 0.163$
Well Diameter	Multiplier	Well Diameter	Multiplier																	
1"	0.04	4"	0.65																	
2"	0.16	6"	1.47																	
3"	0.37	Other	$\text{radius}^2 * 0.163$																	

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1157	68.4	6.92	1186	165	6	cloudy
1158	68.1	6.90	1244	7200	12	brown
1201 1201	68.2	6.94	1255	7200	18	"

Did well dewater? Yes No Gallons actually evacuated: 18

Sampling Time: 1205 Sampling Date: 6/6/02

Sample I.D.: MW-5 Laboratory: Kiff SPL Other _____

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

WELL GAUGING DATA

Project # 020520-mn3 Date 5/20/02 Client Egawa

Site 610 Market St Oakland

SHELL WELL MONITORING DATA SHEET

BTS #:	020520- MW ³	Site:	98995750
Sampler:	MWD	Date:	5/20/02
Well I.D.:	MW-4	Well Diameter:	2 3 <u>4</u> 6 8
Total Well Depth:	19.80	Depth to Water:	10.64
Depth to Free Product:		Thickness of Free Product (feet):	
Referenced to:	PVC	Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible

Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other: _____

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

6.0 (Gals.) X 3 = 18.0 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1453	67.7	6.9	974	7200	6.0	cloudy
1454	68.3	6.9	988	163	12.0	less cloudy
1455	68.3	6.9	984	197	18.0	cloudy, odor

Did well dewater? Yes No Gallons actually evacuated: 18.0

Sampling Time: 1500 Sampling Date: 5/20/02

Sample I.D.: MW-4 Laboratory: Kiff SPL 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
--------------------	------------	----	-------------	----

SHELL WELL MONITORING DATA SHEET

BTS #:	020520-2153	Site:	98995750
Sampler:	MDN	Date:	5/20/02
Well I.D.:	MW-5	Well Diameter:	2 3 (4) 6 8
Total Well Depth:	20.22	Depth to Water:	10.41
Depth to Free Product:		Thickness of Free Product (feet):	
Referenced to:	PVC	Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible

Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other: _____

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

6.4 (Gals.) X = 19.2 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1509	68.5	6.8	1061	>200	6.4	Cloudy
1511	67.5	6.8	1115	>200	12.8	"
1512	67.2	6.8	1085	>200	19.2	Increased clarity

Did well dewater? Yes No Gallons actually evacuated: 19.2

Sampling Time: 1517 Sampling Date: 5/20/02

Sample I.D.: MW-5 Laboratory: Kiff SPL Other _____

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
-------------------------------	----	-------------	----

WELL DEVELOPMENT DATA SHEET

Project #: 020517-MG-3	Client: Shell
Developer: MG	Date Developed: 5/17/02
Well I.D. MW-5	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth:	Depth to Water:
Before 20.10 After	Before 10.35 After
Reason not developed:	If Free Product, thickness:

Additional Notations:

Volume Conversion Factor (VCF):

$$(12 \times (\frac{d^2}{4}) \times \pi) / 231$$

where

12 = in / foot

d = diameter (in.)

$\pi = 3.1416$

231 = in 3/gal

Well dia. VCF

$$2" = 0.16$$

$$3" = 0.37$$

$$4" = 0.65$$

$$6" = 1.47$$

$$10" = 4.08$$

$$12" = 6.87$$

6.3	X	xx 6	37.8
1 Case Volume		Specified Volumes	= gallons

Purging Device: Bailer Electric Submersible
 Middleburg Suction Pump

Type of Installed Pump

Other equipment used Surge Block

TIME	TEMP (F)	pH	COND. (mS or μS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1442	69.4	7.7	1303	>200	7	Surge Block - 10 min
1444	68.0	7.4	1361	>200	14	Very turbid brown.
1445	Well dewatered @ \approx 15 gal/s. DTW=18.30'					Fine silt. Slow Recharge
1500	DTW= 15.90. Start Pump again.					
1501	Well dewatered @ \approx 18 gal/s DTW= 18.30					
	Recharge rate = 0.18 gal/s/min.					
1505	DTW= 17.40. Start Pump again					
1506	69.5	7.4	1317	>200	19	
1507	Well dewatered @ 19 gal/s DTW= 18.25'					
Did Well Dewater? <u>Yes</u>	If yes, note above.		Gallons Actually Evacuated:	19		

WELL GAUGING DATA

Project # 020513-DA-2 Date 5/13/02 Client Shell

Site 610 Market St. Oakland, CA

WELL DEVELOPMENT DATA SHEET

Project #: 020513-DA-2	Client: Shell
Developer: David Allbut	Date Developed: 5/13/02
Well I.D. Mw-4	Well Diameter: (circle one) <input checked="" type="radio"/> 3 <input type="radio"/> 6
Total Well Depth:	Depth to Water:
Before 19.77 After 19.73	Before 10.64 After 16.22
Reason not developed:	If Free Product, thickness:

Additional Notations: Surged 15 min. before purging

Volume Conversion Factor (VCF):

$$(12 \times (d^2/4) \times \pi) / 231$$

where

12 = in / foot

d = diameter (in.)

$\pi = 3.1416$

231 = in / gal

Well dia.	VCF
<input checked="" type="radio"/> 3"	0.16
3"	0.37
<input type="radio"/> 4"	0.65
6"	1.47
10"	4.08
12"	6.87

5.9	X	10	=	59
1 Case Volume		Specified Volumes	=	gallons

Purging Device: Bailer Electric Submersible
Middleburg Suction Pump

Type of Installed Pump _____

Other equipment used _____

TIME	TEMP (F)	pH	COND. (mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1537	66.8	7.5	122715	>200	6	Agitated bottom; hard bottom brown, cloudy, silty, Middlebury
1547	67.3	7.1	1183	>200	12	brown, cloudy, silty, ES
1548	67.5	7.1	1174	>200	18	" slight odor
1549	67.9	7.0	994	>200	24	"
1550	68.5	6.9	1027	>200	30	" less silty
1555	67.7	6.9	1018	>200	36	"
1557	68.2	6.9	1000	>200	42	clearing, less brown
1600	68.1	6.8	935	>200	48	still cloudy
1602	68.5	6.8	891	>200	54	"
1604	68.2	6.8	923	>200	59	"
Did Well Dewater? NO	If yes, note above.			Gallons Actually Evacuated:	59	

switched off ES

between case volumes

WELL DEVELOPMENT DATA SHEET

Project #: 020513-DA-2	Client: Shell
Developer: David A.	Date Developed: 5/13/02
Well I.D. MW-5	Well Diameter: (circle one) <input checked="" type="radio"/> 3 <input type="radio"/> 6
Total Well Depth: 20.17	Depth to Water:
Before 18.63 After 20.27	Before 10.40 After 18.47
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged 15 min before purging	

Volume Conversion Factor (VCF):
 $(12 \times (d^2/4) \times \pi) / 231$

Volume Conversion Factor (VCF)	Wet dia.	VCF
$\{12 \times (\pi^2/4) \times \pi\} / 231$	2"	0.16
where	3"	0.37
12 = in / foot	4"	0.65
d = diameter (in.)	5"	1.47
$\pi = 3.1416$	10"	4.08
231 = in 3/gal	12"	6.87

$$\frac{5.3}{1 \text{ Case Volume}} \times \frac{10}{\text{Specified Volumes}} = \frac{53}{\text{gallons}}$$

Purging Device: Bailer Electric Submersible
Middleburg Suction Pump

Type of Installed Pump _____
Other equipment used _____

ATTACHMENT B

Vapor Sample Analytical Laboratory Reports



Report Number : 26003
Date : 4/29/02

Stephan Bork
Cambria Environmental Technology, Inc.
1144 65th St. Suite B
Oakland, CA 94608

Subject : 1 Air Sample
Project Name : 610 Market St. Oakland, Ca
Project Number : 244-0594-006
P.O. Number : 98995750

Dear Mr. Bork,

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".

Joel Kiff



Report Number : 26003

Date : 4/29/02

Project Name : 610 Market St. Oakland, Ca

Project Number : 244-0594-006

Sample : T-2

Matrix : Air

Lab Number : 26003-01

Sample Date : 4/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	8.6	4.0	ppmv	EPA 8260B	4/20/02
Toluene	< 4.0	4.0	ppmv	EPA 8260B	4/20/02
Ethylbenzene	< 4.0	4.0	ppmv	EPA 8260B	4/20/02
Total Xylenes	< 4.0	4.0	ppmv	EPA 8260B	4/20/02
Methyl-t-butyl ether	1600	8.0	ppmv	EPA 8260B	4/20/02
TPH as Gasoline	2600	400	ppmv	EPA 8260B	4/20/02
Toluene - d8 (Surrogate)	96.5		% Recovery	EPA 8260B	4/20/02
4-Bromofluorobenzene (Surrogate)	106		% Recovery	EPA 8260B	4/20/02

Approved By: Joel Kiff

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

SHELL Chain Of Custody Record

26003

720 Olive Drive, Suite D Davis, CA 95616 (530) 297-4800 (530) 297-4803 fax				Shell Project Manager to be Invoiced: Karen Petryna				9899 5750				DATE: 4-19-02								
<input type="checkbox"/> SCIENCE & ENGINEERING <input type="checkbox"/> TECHNICAL SERVICES <input type="checkbox"/> GRIFF HOUOTON												PAGE: 1 of 1								
SAMPLING COMPANY: Cambria Env. Tech		LOG CODE:		SITE ADDRESS (Street and City): 610 Market St. Oakland, Ca				GLOBAL ID NO.:				CONSULTANT PROJECT NO.: 244-0594-006								
ADDRESS: 1144 65th St. Oakland Ca		PROJECT CONTACT (Handcopy or PDF Report to): Stephen Bork		EDD DELIVERABLE TO (Responsible Party or Designee): 510-420-0070				PHONE NO.:				E-MAIL:								
TELEPHONE: 510-420-0700		FAX: 510-420-9170		SAMPLER NAME(S) (PHO): Sanjiv Gill																
TURNAROUND TIME (BUSINESS DAYS): <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		REQUESTED ANALYSIS																		
<input type="checkbox"/> LA - RWQCB REPORT FORMAT <input type="checkbox"/> UST AGENCY: _____		FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes																		
GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____																				
SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED <input type="checkbox"/> Report results in PPMV																				
Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable												TEMPERATURE ON RECEIPT OF			
	DATE	TIME			BTEX	MTBE (0021B - 5ppb RL)	MTBE (0350B - 0.5ppb RL)	Oxygenate (5) by (0260B)	Ethanol (0260B)	Methanol	EDDS & 1,2-DCA (0260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (0021B)	TRPH (413.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 2416m)	Vapor or Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	TPH - Diesel, Extractable (5015m)
T-2	4-19-02	5:30	air	1	X	X	X													101
Rerigualted by: (Signature) <i>J. M. H.</i>				Received by: (Signature) ____												Date: 042002	Time: 9:30			
Rerigualted by: (Signature)				Received by: (Signature)												Date: _____	Time: _____			
Rerigualted by: (Signature) <i>Kris A. Frazee</i>				Received by: (Signature) <i>Kris A. Frazee / KIFF ANALYTICAL</i>												Date: 042002	Time: 9:30			
LAZ 042002 9:30																				

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

100% *vegan* Bar + Biscuit

દ્વારા વિના



Report Number : 26223

Date : 5/9/02

Stephan Bork
Cambria Environmental Technology, Inc.
1144 65th St. Suite B
Oakland, CA 94608

Subject : 1 Air Sample
Project Name : 610 Market St. Oakland, Ca
Project Number : 244-0594-006
P.O. Number : 98995756

Dear Mr. Bork,

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". Below the signature, the name "Joel Kiff" is printed in a smaller, black, sans-serif font.



Report Number : 26223

Date : 5/9/02

Project Name : 610 Market St. Oakland, Ca

Project Number : 244-0594-006

Sample : T-2

Matrix : Air

Lab Number : 26223-01

Sample Date : 5/3/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.3	2.0	ppmv	EPA 8260B	5/5/02
Toluene	< 2.0	2.0	ppmv	EPA 8260B	5/5/02
Ethylbenzene	< 2.0	2.0	ppmv	EPA 8260B	5/5/02
Total Xylenes	< 2.0	2.0	ppmv	EPA 8260B	5/5/02
Methyl-t-butyl ether	600	4.0	ppmv	EPA 8260B	5/5/02
TPH as Gasoline	1300	200	ppmv	EPA 8260B	5/5/02
Toluene - d8 (Surr)	95.6		% Recovery	EPA 8260B	5/5/02
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	5/5/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL

EQUIVA Services LLC Chain Of Custody Record 26223

720 Olive Drive, Suite D
Davis, CA 95616
(530) 297-4800 (530) 297-4803 fax

Equiva Project Manager to be invoiced:

- SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRM/HOUSTON

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 6

SAF/9 CRMT NUMBER (TS/CRMT)

DATE: 5-3-02

PAGE: 1 of 1

SAMPLING COMPANY: Cambria Environmental Technology	LOG CODE: 610	SITE ADDRESS (Street and City): 610 Market St. Oakland, Ca	GLOBAL ID NO.:																		
ADDRESS: 14465+ St. Oakland, Ca		TO DELIVERABLE TO (Responsible Party or Designee): SD-680-0700	PHONE NO.:																		
PROJECT CONTACT (Handcopy or PDF Report to): Stephen Bork		SAMPLER NAME(S) (Print): Sanjiv Gill	E-MAIL:																		
TELEPHONE: 510-420-0700	FAX: 510-420-9170	CONSULTANT PROJECT NO.: 244-0594-006																			
TURNAROUND TIME (BUSINESS DAYS): <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS																					
REQUESTED ANALYSIS																					
<p><input type="checkbox"/> LA - RWQCB REPORT FORMAT <input type="checkbox"/> UST AGENCY:</p> <p>GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____</p> <p>SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°</p> <p>Report results in PPMV</p>																					
<p>FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes</p> <p>UST REPORTING REQUIRED</p> <p>- O </p>																					
LAB/ TEST ONLY	Field Sample Identification	SAMPLING		NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (80/21B - 5ppb RI)	MTBE (62/30B - 0.5ppb RI)	Oxygenates (5) by (2260B)	Ethanol (2260B)	EDB & 1,2-DCA (2260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (80/21B)	TPH (4115.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3116m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	TPH - Diesel, Extractable (80/5m)	MTBE (8260B) Confirmation, See Note
		DATE	TIME																		
	T-2	53026:00	air	1	X	X															
Relinquished by: (Signature) <i>J. Gill</i>		Received by: (Signature)																Date:	Time:		
Relinquished by: (Signature)		Received by: (Signature)																Date:	Time:		
Relinquished by: (Signature)		Received by: (Signature)																Date:	Time:		

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Receiving by: (Signature)
Ram A. Kumar / KIFF ANALYTICAL

050402 1035

10/16/00 Revision



Report Number : 26766

Date : 6/13/2002

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

Subject : 1 Air Sample
Project Name : 610 Market St. Oakland, Ca
Project Number : 244-0594-006
P.O. Number : 98995750

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,

A handwritten signature in black ink that reads "Joel Kiff".

Joel Kiff



Report Number : 26766

Date : 6/13/2002

Project Name : 610 Market St. Oakland, Ca

Project Number : 244-0594-006

Sample : T-2

Matrix : Air

Lab Number : 26766-01

Sample Date : 6/5/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.11	0.050	ppmv	EPA 8260B	6/7/2002
Toluene	0.31	0.050	ppmv	EPA 8260B	6/7/2002
Ethylbenzene	0.16	0.050	ppmv	EPA 8260B	6/7/2002
Total Xylenes	0.75	0.050	ppmv	EPA 8260B	6/7/2002
Methyl-t-butyl ether	2.2	0.10	ppmv	EPA 8260B	6/7/2002
TPH as Gasoline	11	5.0	ppmv	EPA 8260B	6/7/2002
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	6/7/2002
4-Bromofluorobenzene (Surr)	97.5		% Recovery	EPA 8260B	6/7/2002

Approved By: Joel Kiff

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

SHELL Chain Of Custody Record

26766

720 Olive Drive, Suite D

Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CMMT-HOUSTON

98995750

DATE: 6-5-02

PAGE: 1 of 1

SAMPLING COMPANY:

Cambria Environmental

ADDRESS:

1144 65th St. Oakland, Ca.

PROJECT CONTACT (Name/Title or PDF Report by:

Jacquelyn Jones

TELEPHONE:

510-620-3316

FAX:

510-620-3316 6/0-420-470

EMAIL:

6/0-420-470

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: CHECK BOX IF EDD IS NOT NEEDED

Karen Petryna

LOG CODE:

SITE ADDRESS (Street and City):

610 Market St. Oakland, Ca

GLOBAL ID NO.:

DELIVERABLE TO (Recipient Party or Designee):

PHONE NO.:

SAMPLER NAME(S) (PWS):

Sarah Hill

CONSULTANT PROJECT NO:
244-0594-006

REQUESTED ANALYSIS

Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (0021B - 0ppb RL)	MTBE (0020B - 0.5ppb RL)	Oxygenates (5) by (02006)	Ethanol (A2600)	Methanol	EDTA A 1,2-DCA (82003)	EPA 8030 Extraction for Volatiles	VOCs Halogenated/Aromatic (0021B)	TPH (410.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full Line (TO-15)	Vapor TPH (ASTM D116m)	Vapor Fixed Gases (ASTM D156)	Test for Disposal (43-)	TPH - Diesel, Extractable (0015m)	MTBE (02003) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT OF	
	DATE	TIME																							
T-2	6-5-02	5:40	air	1	X	X	X																		-01
Retainquested by: (Signature)	Received by: (Signature)																								
J. Hill	secure location																								
Retainquested by: (Signature)	Received by: (Signature)																								
	John Cullen/Kiff Analytical 060702																								
Retainquested by: (Signature)	Received by: (Signature)																								
	John Cullen/Kiff Analytical 060702																								

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



Report Number : 27473

Date : 7/15/2002

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

Subject : 1 Air Sample
Project Name : 610 Market St. Oakland, Ca
Project Number : 244-0594-006
P.O. Number : 98995750

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,

A handwritten signature in blue ink that reads "Joel Kiff". Below the signature, the name "Joel Kiff" is printed in a smaller, black, sans-serif font.



Report Number : 27473

Date : 7/15/2002

Project Name : 610 Market St. Oakland, Ca

Project Number : 244-0594-006

Sample : T-2

Matrix : Air

Lab Number : 27473-01

Sample Date : 7/12/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.098	0.050	ppmv	EPA 8260B	7/13/2002
Toluene	0.070	0.050	ppmv	EPA 8260B	7/13/2002
Ethylbenzene	0.17	0.050	ppmv	EPA 8260B	7/13/2002
Total Xylenes	0.60	0.050	ppmv	EPA 8260B	7/13/2002
Methyl-t-butyl ether	87	0.40	ppmv	EPA 8260B	7/14/2002
TPH as Gasoline	51	5.0	ppmv	EPA 8260B	7/13/2002
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	7/13/2002
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	7/13/2002

Approved By: Joel Kiff

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

KIFF ANALYTICAL

EQUIVA Services LLC Chain Of Custody Record 27473

720 Olive Drive, Suite D Davis, CA 95616 (530) 297-4800 (530) 297-4803 fax		Equiva Project Manager to be Invoiced: <input checked="" type="checkbox"/> SCIENCE & ENGINEERING <input type="checkbox"/> TECHNICAL SERVICES <input type="checkbox"/> GENT HOUSTON		INCIDENT NUMBER (S&E ONLY) 9 8 9 9 5 7 5 0 SAP or CRMT NUMBER (TS/CRMT) [REDACTED]		DATE: 7-12-02 PAGE: 1 of 1	
CAMP/PART COMPANY: Cambria Environmental Technology		LOG CODE: 1144 65th St Oakland, Ca		SITE ADDRESS (Street and City): 610 Market St. Oakland, Ca		GL/ID/ID NO.: 2M4-0594-006	
ADDRESS: PROJECT CONTACT (Handbox or POF Report No): Jacquelyn Jones		POF DELIVERABLE TO (Responsible Party or Designee): Sanjiv Gill		PHONE NO.: E-MAIL:		CONSULTANT PROJECT NO.: [REDACTED]	
TELEPHONE: 50-420-3316 FAX: 510-420-9170 EMAIL:		SAMPLE NAME(S) (Part): Sanjiv Gill		LAB USE ONLY: [REDACTED]		[REDACTED]	
TURNAROUND TIME (BUSINESS DAYS): <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS							
REQUESTED ANALYSIS							
LA - RWQCB REPORT FORMAT <input type="checkbox"/> UST AGENCY: _____		GCMS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____		SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C: _____		FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
Field Sample Identification		SAMPLING DATE	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable BTX MTBE (8021B - 5ppb RL) MTBE (6250B - 0.2ppb RL) Oxygenates (5) by (8250B) Ethanol (8250B)	EDB & 1,2-DCA (5200B) EPA 5035 Extraction for Volatiles VOCs Halogenated/Aromatic (8021B) TPH (418-1) Vapor VOCs BTX / MTBE (TO-15) Vapor VOCs Full List (TO-15) Vapor TPH (ASTM 3416n) Vapor Fixed Gases (ASTM D1346) Test for Disposal (4B- _____)	TPH - Diesel, Extractable (8015m) MTBE (8250B) Confirmation, See Note -01
Field Sample Identification		SAMPLING TIME					UST REPORTING REQUIRED
T-2		7-12-02 5:45 am	air	1	X X X		
Received by: (Signature) [REDACTED]		Received by: (Signature) [REDACTED]				Date: 7-12-02	Time: 7:45
Received by: (Signature) [REDACTED]		Received by: (Signature) [REDACTED]				Date: [REDACTED]	Time: [REDACTED]
Received by: (Signature) [REDACTED]		Received by: (Signature) [REDACTED]		R-12-1 OCTA Agar (cont'd)		Date: 07/12/02	Time: 1945

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10/16/00 Printfile



Report Number : 27841

Date : 8/9/02

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

Subject : 1 Air Sample
Project Name : 610 Market St. Oakland, Ca
Project Number : 244-0594-006
P.O. Number : 98995756

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,

A handwritten signature in black ink that reads "Joel Kiff".

Joel Kiff



Report Number : 27841

Date : 8/9/02

Project Name : 610 Market St. Oakland, Ca

Project Number : 244-0594-006

Sample : T-2

Matrix : Air

Lab Number : 27841-01

Sample Date : 8/2/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	21	0.20	ppmv	EPA 8260B	8/3/02
Toluene	140	5.0	ppmv	EPA 8260B	8/4/02
Ethylbenzene	22	0.20	ppmv	EPA 8260B	8/3/02
Total Xylenes	100	0.20	ppmv	EPA 8260B	8/3/02
Methyl-t-butyl ether	2200	13	ppmv	EPA 8260B	8/5/02
TPH as Gasoline	5400	500	ppmv	EPA 8260B	8/4/02
Toluene - d8 (Surrogate)	91.2		% Recovery	EPA 8260B	8/3/02
4-Bromofluorobenzene (Surrogate)	86.4		% Recovery	EPA 8260B	8/3/02

Approved By: Joel Kiff

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

SHELL Chain Of Custody Record

27841

Shell Project Manager to be Invoiced: <input checked="" type="checkbox"/> SCIENCE & ENGINEERING <input type="checkbox"/> TECHNICAL SERVICES <input type="checkbox"/> GRANT HUSTON				INCIDENT NUMBER (SCE-001-1) 9 8 9 9 5 7 5 6 CASE # - CRM NUMBER (135-054-17)		DATE: 8-2-02 PAGE: 1 of 1	
SAMPLING COMPANY: Cambria Env. Tech ADDRESS: 1144 65th St. Oakland, Ca. PROJECT CONTACT (Name/Title or POF Report No.): Jacqueline Jones		LOG CODE: 610		SITE ADDRESS (Street and City): 610 Market St - Oakland, Ca.		GLOBAL ID NO.: 510-420-0700	
TELEPHONE: 510-420-0700 FAX: 510-420-9174 EMAIL:				EDF DELIVERABLE TO (Responsible Party or Designee): SANJIV GILL		PHONE NO.: 510-420-0700	
				SAMPLER NAME(S) (PHM): SANJIV GILL		E-MAIL: CONSULTANT PROJECT NO.: 244-0594-006	
TURNAROUND TIME (BUSINESS DAYS): <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS							
REQUESTED ANALYSIS							
LA - RWQCB REPORT FORMAT <input type="checkbox"/> UST AGENCY:							
GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____							
SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED <input type="checkbox"/> <i>Report results in PPMV</i>							
Field Sample Identification		SAMPLING DATE 8-2002 TIME 6:00		MATRIX air		NO. OF CONT. 1	
						TPH + Gas, Purgeable	
						BTEX MTBE (002/03 - 5ppb RL) MTBE (026/03 - 0.5ppb RL)	
						Oxigenates (5) by (026/03) Ethanol (026/03)	
						EPA 505S Extraction for Volatiles VOCs Halogenated/Aromatic (022/03)	
						TRPH (418.1) Vapor VOCs BTEX / MTBE (TO-15)	
						Vapor VOCs Full List (TO-15) Vapor TPH (ASTM D4160)	
						Vapor Fluid Gases (ASTM D1946) Test for Disposal (4B)	
						MTBE (026/03) Confirmation, See Note TEMPERATURE ON RECEIPT C° -01	
Released by: (Signature) 		Received by: (Signature) 					
		Date: 8-2-02 Time: 12:10					
Released by: (Signature) 		Received by: (Signature) 					
		Date: Time:					
Released by: (Signature) 		Received by: (Signature) <i>Karen A. Petryna / KIFF ANALYTICAL</i>					
		Date: 080302 Time: 1210					