EQUILON
ENTERPRISES LLC
Shell & Texaco Working Together

MAY 2 8 2002

May 22, 2002

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

RO 493

RE: EQUILON ENTERPRISES LLC / Equiva Services LLC dba SHELL OIL PRODUCTS US

Dear Sir or Madam:

The Shell purchase of Texaco's interest in Equilon Enterprises LLC and Equiva Services LLC has been approved by government authorities and was completed in early February.

Please be advised that effective March 1, 2002, Equilon Enterprises LLC and Equiva Services LLC will begin doing business as (DBA) "Shell Oil Products US." Since Equilon Enterprises LLC will remain the owner and/or the responsible Party of remediation activities at 610 Market Street, Oakland, California, no changes are needed or requested for permits.

If you have any questions please contact Ms. Karen Petryna at 559.645.9306.

Yours truly,

(Cambria)
for

Karen Petryna
Sr. Environmental Engineer

CAMBRIA

R0493

May 22, 2002

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

MAY 2 8 2002

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

Dear Mr. Chan:

Effective March 1, 2002, Equiva Services LLC and Equilon Enterprises LLC are now doing business as (dba) Shell Oil Products US (Shell). On behalf of Shell, 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 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. 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. T[redacted]e estimated mass of TPHg and MTBE removed to date at the site, including that removed by GWE, DVE and SVE, is 54.34 pounds and 90.56 pounds, respectively.

6.2#/gal

FIRST QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells, 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 (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. Shell coordinated the installation of sealant around the outside edge of the fill-port spill-containment manhole on March 1, 2002. TPHg vapor concentrations in tank backfill well T-2 have been stable to decreasing since sealant application.

Agency Response: Cambria submitted a *Soil Vapor Extraction Pilot Test Report and Investigation Work Plan* on December 19, 2001. In a January 2, 2002 ACHCSA letter, the scope of work described in the work plan was approved and additional written response was requested. On February 7, 2002, Cambria submitted an *Agency Response* to the January 2, 2002 letter.

ANTICIPATED SECOND QUARTER 2002 ACTIVITIES

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

Mobile GWE: [redacted] Continued GWE will be based on extracted groundwater volumes and concentration trends.

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. [redacted]

Investigation Status: 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 will submit an investigation report including recommendations for future remediation at the site during the second quarter 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

Diane M. Lundquist. P.E.
Principal 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

Attachment:
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
Ronald L. & Cathy L. Labatt, PO Box 462, Kamiah, ID 83536

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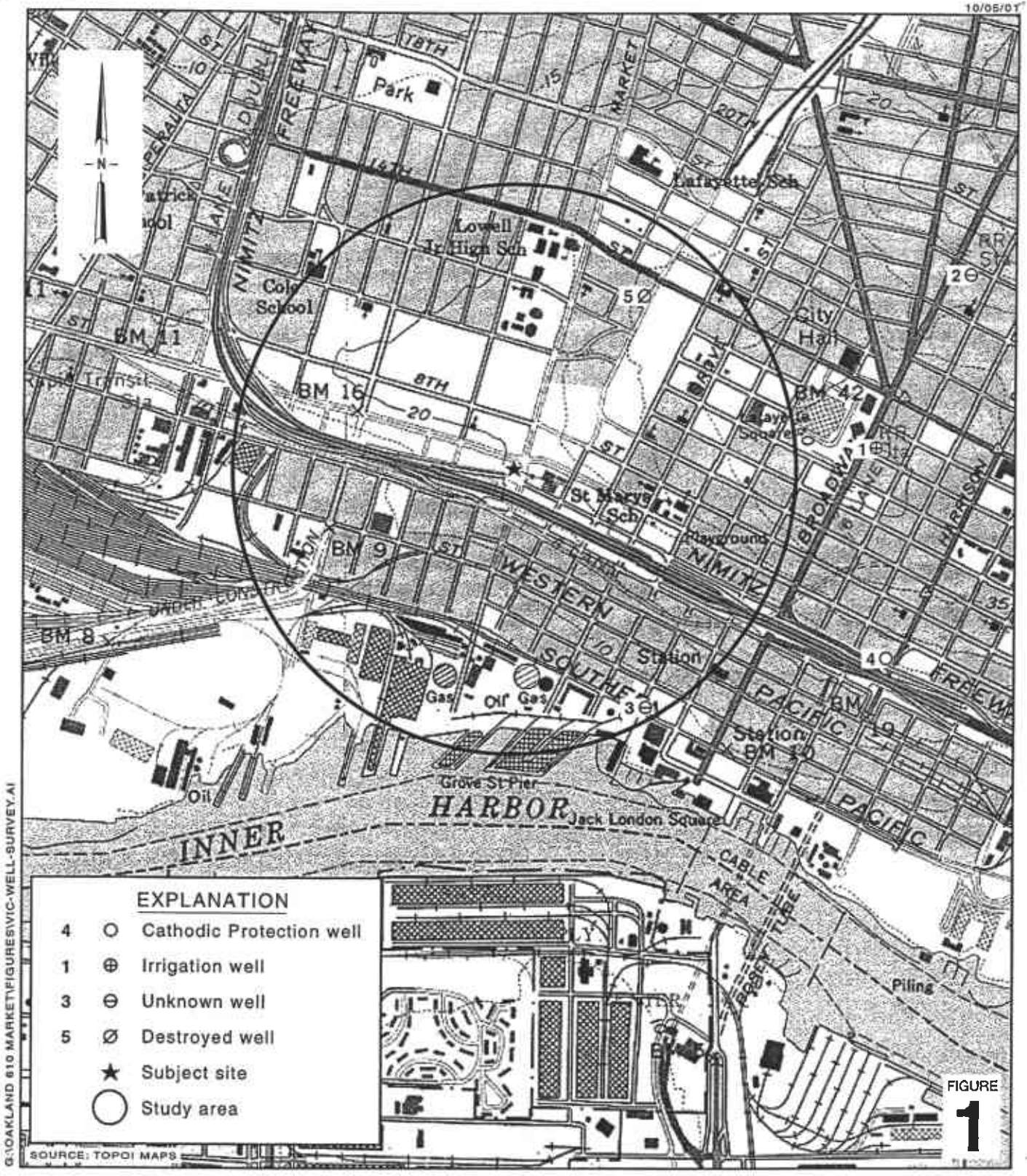

Shell-branded Service Station
610 Market Street
Oakland, California
Incident #98995750

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Vicinity / Area Well Survey Map
1/2 Mile Radius

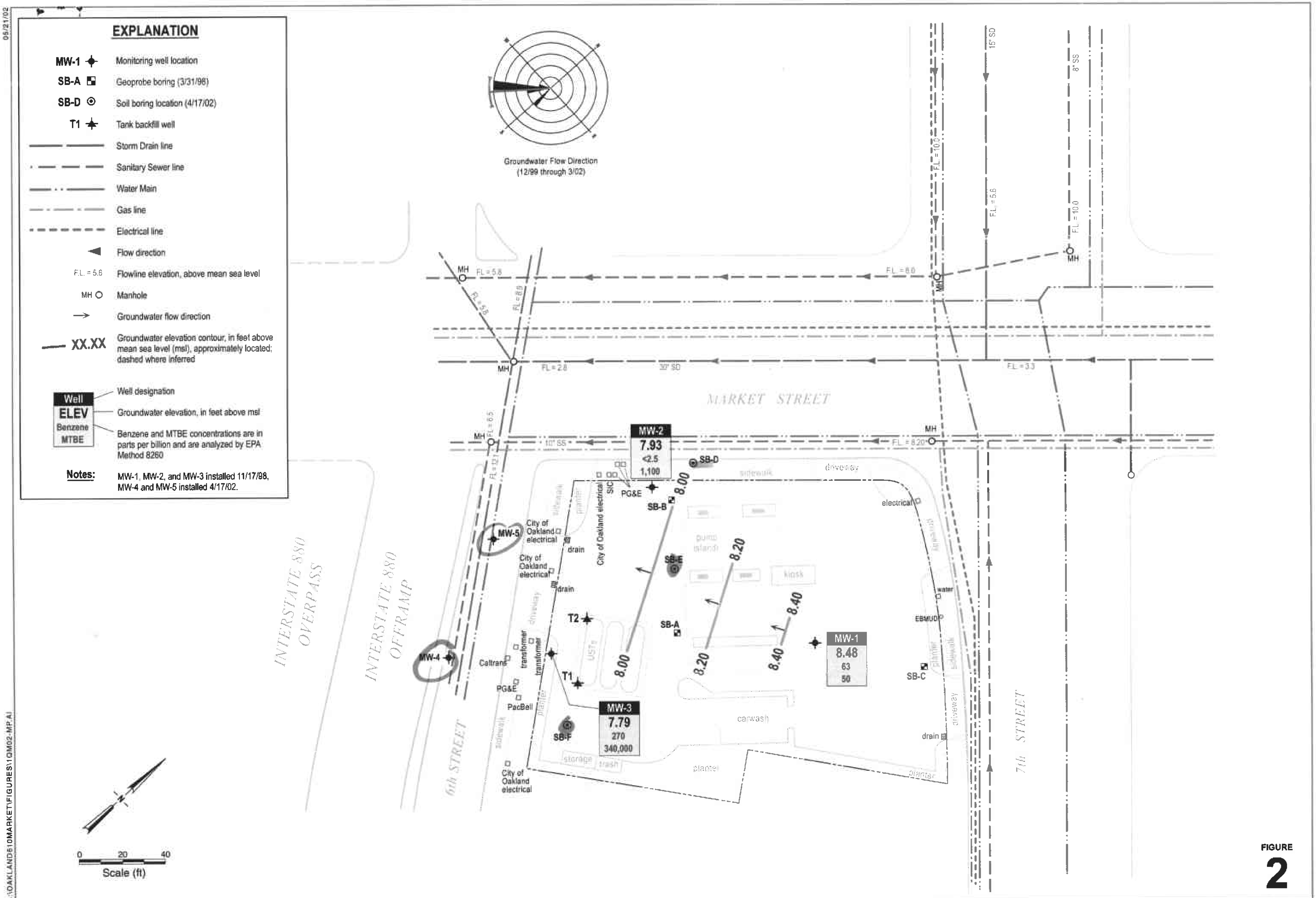

EXPLANATION
MW-1 Monitoring well location
SB-A Geoprobe boring (3/31/98)
SB-D Soil boring location (4/17/02)
T1 Tank backfill well
Storm Drain line
Sanitary Sewer line
Water Main
Gas line
Electrical line
Flow direction
F.L. = 5.6 Flowline elevation, above mean sea level
MH Manhole
Groundwater flow direction
XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
Well
ELEV
Benzene
MTBE
Well designation
Groundwater elevation, in feet above msl
Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260
Notes: MW-1, MW-2, and MW-3 installed 11/17/98, MW-4 and MW-5 installed 4/17/02.
Groundwater Flow Direction
(12/99 through 3/02)
MARKET STREET
INTERSTATE 880 OVERPASS
INTERSTATE 880 OFFRAMP
6th STREET
7th STREET
MW-2
7.93
<2.5
1,100
MW-1
8.48
63
50
MW-3
7.79
270
340,000
MW-4
MW-5
8.00
8.20
8.40
SB-A
SB-B
SB-C
SB-D
SB-E
SB-F
T1
T2
kiosk
carwash
pump island
USTs
Scale (ft)
0
20
40

FIGURE
2

Groundwater Elevation Contour Map

March 8, 2002

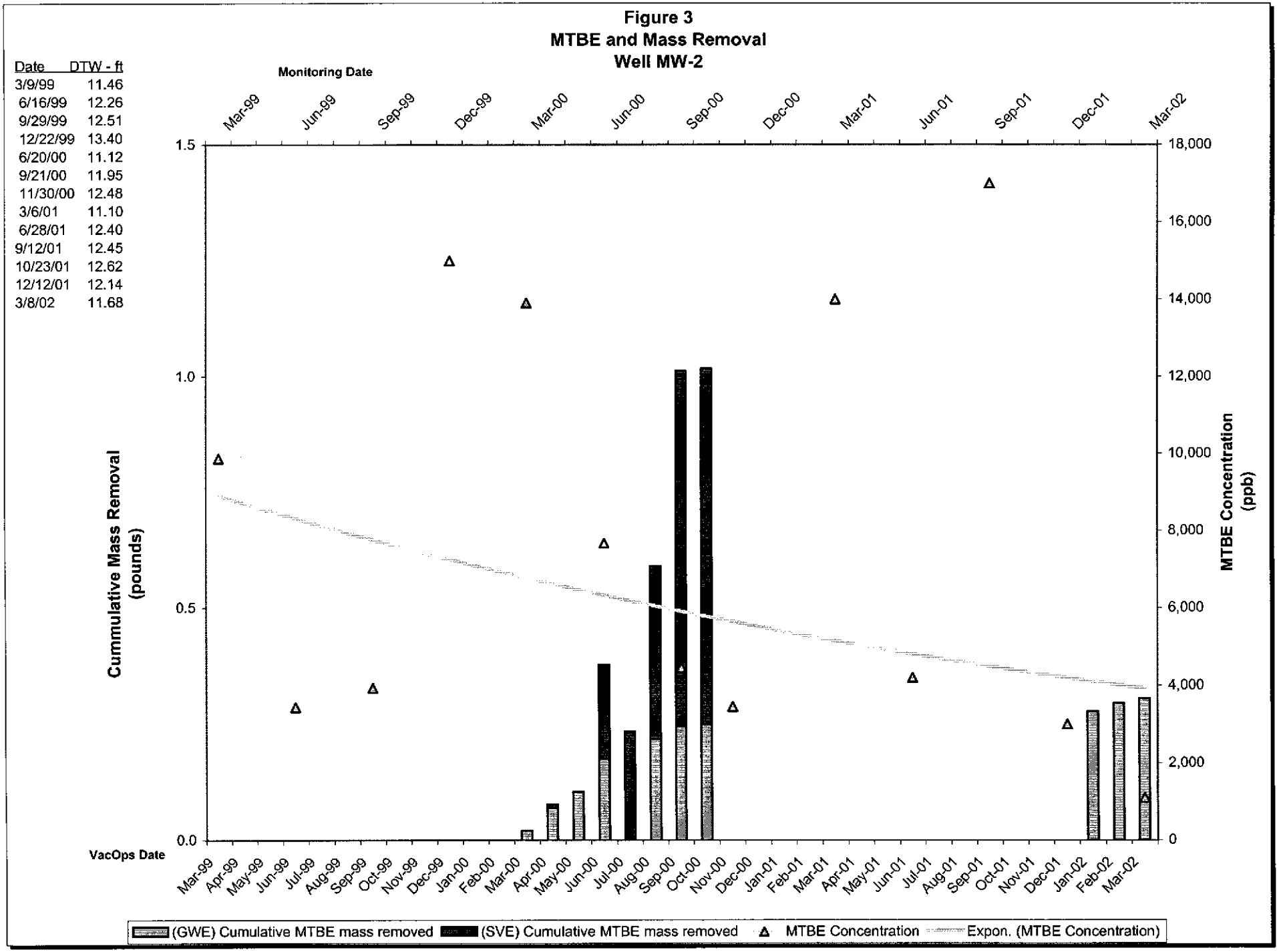
CAMBRIA

Shell-branded Service Station

610 Market Street
Oakland, California
Incident #98995750

Figure 3
MTBE and Mass Removal
Well MW-2

Date	DTW - ft
3/9/99	11.46
6/16/99	12.26
9/29/99	12.51
12/22/99	13.40
6/20/00	11.12
9/21/00	11.95
11/30/00	12.48
3/6/01	11.10
6/28/01	12.40
9/12/01	12.45
10/23/01	12.62
12/12/01	12.14
3/8/02	11.68

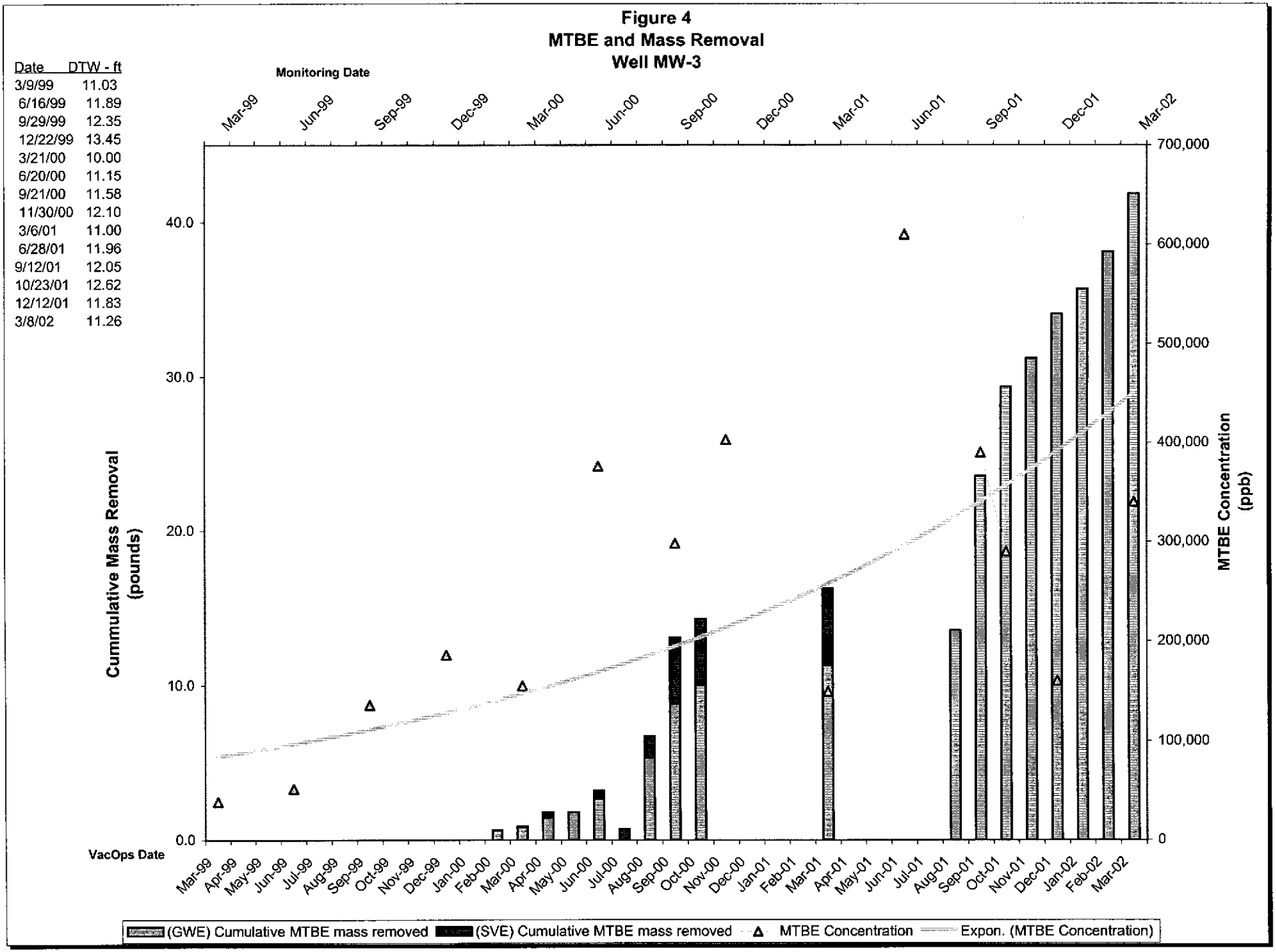


610 Market Street, Oakland

G:\Oakland 610 Market\Vac Ops\MTBE Graphs\1q02 - 610 Market MTBE graph

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



610 Market Street, Oakland

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

					TPPH			Benzene			MTBE			
Date Purged	Well ID	Volume Pumped (gal)	Cumulative 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)	Notes:
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	
08/17/00	MW-2	665	2,182	06/20/00	101	0.00056	0.03221	5.95	0.00003	0.00123	7,670	0.04256	0.21851	
09/13/00	MW-2	429	2,611	06/20/00	101	0.00036	0.03257	5.95	0.00002	0.00125	7,670	0.02746	0.24597	
10/27/00*	MW-2	75	2,686	06/20/00	101	0.00006	0.03263	5.95	0.00000	0.00126	7,670	0.00480	0.25077	
01/16/02*	MW-2	230	2,916	12/12/01	**<1,000**	0.00096	0.03359	**<10**	0.00001	0.00127	**3,000**	0.00576	0.25653	
01/23/02	MW-2	535	3,451	12/12/01	**<1,000**	0.00223	0.03582	**<10**	0.00002	0.00129	**3,000**	0.01339	0.26992	
01/30/02	MW-2	300	3,751	12/12/01	**<1,000**	0.00125	0.03707	**<10**	0.00001	0.00130	**3,000**	0.00751	0.27743	
02/05/02	MW-2	175	3,926	12/12/01	**<1,000**	0.00073	0.03780	**<10**	0.00001	0.00131	**3,000**	0.00438	0.28181	
02/12/02	MW-2	289	4,215	12/12/01	**<1,000**	0.00121	0.03901	**<10**	0.00001	0.00132	**3,000**	0.00723	0.28904	
02/19/02	MW-2	461	4,676	03/08/02	**<250**	0.00048	0.03949	**<2.5**	0.00000	0.00133	**1,100**	0.00423	0.29328	
02/26/02	MW-2	250	4,926	03/08/02	**<250**	0.00026	0.03975	**<2.5**	0.00000	0.00133	**1,100**	0.00229	0.29557	
03/05/02	MW-2	250	5,176	03/08/02	**<250**	0.00026	0.04001	**<2.5**	0.00000	0.00133	**1,100**	0.00229	0.29787	
03/12/02	MW-2	300	5,476	03/08/02	**<250**	0.00031	0.04033	**<2.5**	0.00000	0.00133	**1,100**	0.00275	0.30062	
03/19/02	MW-2	400	5,876	03/08/02	**<250**	0.00042	0.04074	**<2.5**	0.00000	0.00134	**1,100**	0.00367	0.30429	
03/26/02	MW-2	100	5,976	03/08/02	**<250**	0.00010	0.04085	**<2.5**	0.00000	0.00134	**1,100**	0.00092	0.30521	
04/02/02	MW-2	200	6,176	03/08/02	**<250**	0.00021	0.04106	**<2.5**	0.00000	0.00134	**1,100**	0.00184	0.30704	
04/09/02	MW-2	179	6,355	03/08/02	**<250**	0.00019	0.04124	**<2.5**	0.00000	0.00134	**1,100**	0.00164	0.30869	
04/17/02	MW-2	250	6,605	03/08/02	**<250**	0.00026	0.04150	**<2.5**	0.00000	0.00135	**1,100**	0.00229	0.31098	
04/23/02	MW-2	242	6,847	03/08/02	**<250**	0.00025	0.04176	**<2.5**	0.00000	0.00135	**1,100**	0.00222	0.31320	

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

Date Purged	Well ID	Volume Pumped (gal)	Cumulative 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)	Notes:
					TPPH			**Benzene**			**MTBE**			
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	
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	
08/17/00	MW-3	554	2,629	06/20/00	16,200	0.07489	0.27661	1,140	0.00527	0.01334	579,000	2.67659	5.36034	
09/13/00	MW-3	716	3,345	06/20/00	16,200	0.09679	0.37340	1,140	0.00681	0.02015	579,000	3.45927	8.81961	
10/27/00*	MW-3	250	3,595	06/20/00	16,200	0.03379	0.40720	1,140	0.00238	0.02253	579,000	1.20785	10.02745	
03/22/01	MW-3	383	3,978	03/22/01	<20,000	0.03196	0.43915	<200	0.00032	0.02285	**390,000**	1.24640	11.27385	a
08/22/01	MW-3	90	4,068	06/28/01	<50,000	0.01877	0.42597	1,200	0.00090	0.02343	**610,000**	0.45811	10.48556	
08/28/01	MW-3	600	4,668	06/28/01	<50,000	0.12517	0.55114	1,200	0.00601	0.02944	**610,000**	3.05403	13.53959	
09/05/01	MW-3	750	5,418	06/28/01	<50,000	0.15646	0.70759	1,200	0.00751	0.03695	**610,000**	3.81754	17.35714	
09/18/01	MW-3	1,900	7,318	09/12/01	**<20,000**	0.15854	0.86614	**430**	0.00682	0.04376	**390,000**	6.18317	23.54031	
10/10/01	MW-3	500	7,818	09/12/01	**<20,000**	0.04172	0.90786	**430**	0.00179	0.04556	**390,000**	1.62715	25.16745	
10/16/01	MW-3	200	8,018	09/12/01	**<20,000**	0.01669	0.92455	**430**	0.00072	0.04628	**390,000**	0.65086	25.81831	
10/26/01	MW-3	1,300	9,318	10/23/01	**11,000**	0.11932	1.04387	**350**	0.00380	0.05007	**290,000**	3.14582	28.96414	
10/31/01	MW-3	150	9,468	10/23/01	**11,000**	0.01377	1.05764	**350**	0.00044	0.05051	**290,000**	0.36298	29.32712	
11/07/01	MW-3	280	9,748	10/23/01	**11,000**	0.02570	1.08334	**350**	0.00082	0.05133	**290,000**	0.67756	30.00468	
11/17/01	MW-3	100	9,848	10/23/01	**11,000**	0.00918	1.09252	**350**	0.00029	0.05162	**290,000**	0.24199	30.24666	
11/21/01	MW-3	400	10,248	10/23/01	**11,000**	0.03672	1.12923	**350**	0.00117	0.05279	**290,000**	0.96795	31.21461	
12/01/01	MW-3	300	10,548	10/23/01	**11,000**	0.02754	1.15677	**350**	0.00088	0.05366	**290,000**	0.72596	31.94057	
12/05/01	MW-3	350	10,898	10/23/01	**11,000**	0.03213	1.18889	**350**	0.00102	0.05469	**290,000**	0.84695	32.78752	
12/12/01	MW-3	500	11,398	12/12/01	**<20,000**	0.04172	1.23062	**280**	0.00117	0.05586	**160,000**	0.66755	33.45507	
12/19/01	MW-3	450	11,848	12/12/01	**<20,000**	0.03755	1.26817	**280**	0.00105	0.05691	**160,000**	0.60079	34.05586	

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

					TPPH			Benzene			MTBE			
Date Purged	Well ID	Volume Pumped (gal)	Cumulative 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)	Notes:
01/09/02	MW-3	190	12,038	12/12/01	**<20,000**	0.01585	1.28402	**280**	0.00044	0.05735	**160,000**	0.25367	34.30953	
01/16/02*	MW-3	450	12,488	12/12/01	**<20,000**	0.03755	1.32157	**280**	0.00105	0.05840	**160,000**	0.60079	34.91033	
01/23/02	MW-3	300	12,788	12/12/01	**<20,000**	0.02503	1.34660	**280**	0.00070	0.05910	**160,000**	0.40053	35.31085	
01/30/02	MW-3	278	13,066	12/12/01	**<20,000**	0.02320	1.36980	**280**	0.00065	0.05975	**160,000**	0.37116	35.68201	
02/05/02	MW-3	347	13,413	12/12/01	**<20,000**	0.02895	1.39876	**280**	0.00081	0.06056	**160,000**	0.46328	36.14529	
02/12/02	MW-3	300	13,713	12/12/01	**<20,000**	0.02503	1.42379	**280**	0.00070	0.06126	**160,000**	0.40053	36.54582	
02/19/02	MW-3	250	13,963	03/08/02	**<20,000**	0.02086	1.44465	**270**	0.00056	0.06183	**340,000**	0.70927	37.25509	
02/26/02	MW-3	299	14,262	03/08/02	**<20,000**	0.02495	1.46960	**270**	0.00067	0.06250	**340,000**	0.84829	38.10338	
03/05/02	MW-3	462	14,724	03/08/02	**<20,000**	0.03855	1.50815	**270**	0.00104	0.06354	**340,000**	1.31073	39.41411	
03/12/02	MW-3	194	14,918	03/08/02	**<20,000**	0.01619	1.52434	**270**	0.00044	0.06398	**340,000**	0.55039	39.96450	
03/19/02	MW-3	213	15,131	03/08/02	**<20,000**	0.01777	1.54211	**270**	0.00048	0.06446	**340,000**	0.60430	40.56880	
03/26/02	MW-3	447	15,578	03/08/02	**<20,000**	0.03730	1.57941	**270**	0.00101	0.06547	**340,000**	1.26818	41.83698	
04/02/02	MW-3	437	16,015	03/08/02	**<20,000**	0.03646	1.61588	**270**	0.00098	0.06645	**340,000**	1.23980	43.07678	
04/09/02	MW-3	358	16,373	03/08/02	**<20,000**	0.02987	1.64575	**270**	0.00081	0.06726	**340,000**	1.01568	44.09245	
04/17/02	MW-3	352	16,725	03/08/02	**<20,000**	0.02937	1.67512	**270**	0.00079	0.06805	**340,000**	0.99865	45.09111	
04/23/02	MW-3	300	17,025	03/08/02	**<20,000**	0.02503	1.70015	**270**	0.00068	0.06873	**340,000**	0.85112	45.94223	
Total Gallons Extracted:			**23,872**		**Total Pounds Removed:**		**1.77387**			**0.07039**			**47.50183**	
					Total Gallons Removed:		**0.29080**			**0.00964**			**7.66159**	

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 (µg/L) x ($g/10^6 \mu g$) 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

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

					TPPH			**Benzene**			**MTBE**			
Date Purged	Well ID	Volume Pumped (gal)	Cumulative 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)	Notes:

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 (hours)	System Flow Rate (CFM)	Hydrocarbon Concentrations (Concentrations in ppmv) TPHg	Benzene	MTBE	TPHg Removal Rate (#/hour)	TPHg Cumulative TPHg Removed (#)	Benzene Removal Rate (#/hour)	Benzene Cumulative Benzene Removed (#)	MTBE Removal Rate (#/hour)	MTBE Cumulative MTBE Removed (#)	Notes:
							TPHg		**Benzene**		**MTBE**		
03/15/00	MW-2	0	0	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 (hours)	System Flow Rate (CFM)	Hydrocarbon Concentrations (Concentrations in ppmv) TPHg	Benzene	MTBE	TPHg Removal Rate (#/hour)	TPHg Cumulative TPHg Removed (#)	Benzene Removal Rate (#/hour)	Benzene Cumulative Benzene Removed (#)	MTBE Removal Rate (#/hour)	MTBE Cumulative MTBE Removed (#)	Notes:
							TPHg		**Benzene**		**MTBE**		
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 Reading	Laboratory Results (ppmv) TPHg	MTBE	Benzene	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	--	--	--	--	--	--	--
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

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

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
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March 29, 2002

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

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

Monitoring performed on March 8, 2002

Groundwater Monitoring Report **020308-DW-1**

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

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)
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-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
MW-2	06/28/2001	<1,000	<10	<10	<10	<10	NA	4,200	19.61	12.40	7.21

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	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-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**

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)

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:
Wells MW-1, MW-2, and MW-3 surveyed December 9, 1998, by Virgil Chavez Land Surveying of Vallejo, California.
a = Sample was analyzed outside the EPA recommended holding time.

KIFF ANALYTICAL LLC

Report Number : 25261
Date : 3/26/2002

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

Subject : 3 Water Samples
Project Name : 610 Market Street, Oakland
Project Number : 020308-DW-1
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,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 25261
Date : 3/26/2002

Project Name : **610 Market Street, Oakland**
Project Number : **020308-DW-1**

Sample : **MW-1** Matrix : Water Lab Number : 25261-01
Sample Date :3/8/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**63**	0.50	ug/L	EPA 8260B	3/17/2002
Toluene	**12**	0.50	ug/L	EPA 8260B	3/17/2002
Ethylbenzene	**74**	0.50	ug/L	EPA 8260B	3/17/2002
Total Xylenes	**83**	0.50	ug/L	EPA 8260B	3/17/2002
Methyl-t-butyl ether (MTBE)	**50**	5.0	ug/L	EPA 8260B	3/17/2002
TPH as Gasoline	**1100**	50	ug/L	EPA 8260B	3/17/2002
Toluene - d8 (Surr)	94.4		% Recovery	EPA 8260B	3/17/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	3/17/2002

Sample : **MW-2** Matrix : Water Lab Number : 25261-02
Sample Date :3/8/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 2.5**	2.5	ug/L	EPA 8260B	3/20/2002
Toluene	**< 2.5**	2.5	ug/L	EPA 8260B	3/20/2002
Ethylbenzene	**< 2.5**	2.5	ug/L	EPA 8260B	3/20/2002
Total Xylenes	**< 2.5**	2.5	ug/L	EPA 8260B	3/20/2002
Methyl-t-butyl ether (MTBE)	**1100**	25	ug/L	EPA 8260B	3/20/2002
TPH as Gasoline	**< 250**	250	ug/L	EPA 8260B	3/21/2002
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	3/20/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	3/20/2002

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 25261
Date : 3/26/2002

Project Name : **610 Market Street, Oakland**
Project Number : **020308-DW-1**

Sample : **MW-3** Matrix : Water Lab Number : 25261-03
Sample Date :3/8/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**270**	200	ug/L	EPA 8260B	3/22/2002
Toluene	**< 200**	200	ug/L	EPA 8260B	3/22/2002
Ethylbenzene	**< 200**	200	ug/L	EPA 8260B	3/22/2002
Total Xylenes	**< 200**	200	ug/L	EPA 8260B	3/22/2002
Methyl-t-butyl ether (MTBE)	**340000**	5000	ug/L	EPA 8260B	3/22/2002
TPH as Gasoline	**< 20000**	20000	ug/L	EPA 8260B	3/22/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	3/22/2002
4-Bromofluorobenzene (Surr)	95.1		% Recovery	EPA 8260B	3/22/2002

Approved By: Joel Kiff

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

Report Number : 25261

Date : 3/26/2002

QC Report : Method Blank Data

Project Name : **610 Market Street, Oakland**

Project Number : **020308-DW-1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/23/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/23/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/23/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/23/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	3/23/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/23/2002
Toluene - d8 (Surr)	100		%	EPA 8260B	3/23/2002
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	3/23/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/19/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/19/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/19/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/19/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	3/19/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/19/2002
Toluene - d8 (Surr)	98.2		%	EPA 8260B	3/19/2002
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	3/19/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/17/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/17/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/17/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/17/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	3/17/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/17/2002
Toluene - d8 (Surr)	95.1		%	EPA 8260B	3/17/2002
4-Bromofluorobenzene (Surr)	97.7		%	EPA 8260B	3/17/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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Report Number : 25261

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 3/26/2002

Project Name : **610 Market Street, Oakland**

Project Number : **020308-DW-1**

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	25397-01	<0.50	20.0	20.1	19.0	19.3	ug/L	EPA 8260B	3/23/02	95.0	96.3	1.44	70-130	25
Toluene	25397-01	<0.50	20.0	20.1	19.0	19.2	ug/L	EPA 8260B	3/23/02	95.0	95.8	0.943	70-130	25
Tert-Butanol	25397-01	<5.0	99.9	100	96.6	97.3	ug/L	EPA 8260B	3/23/02	96.7	96.9	0.207	70-130	25
Methyl-t-Butyl Ether	25397-01	2.0	20.0	20.1	21.0	21.0	ug/L	EPA 8260B	3/23/02	94.9	94.8	0.106	70-130	25
Benzene	25390-09	<0.50	40.0	40.0	37.4	37.2	ug/L	EPA 8260B	3/19/02	93.4	93.0	0.510	70-130	25
Toluene	25390-09	<0.50	40.0	40.0	39.0	39.2	ug/L	EPA 8260B	3/19/02	97.4	98.0	0.589	70-130	25
Tert-Butanol	25390-09	12	200	200	192	199	ug/L	EPA 8260B	3/19/02	89.9	93.7	4.12	70-130	25
Methyl-t-Butyl Ether	25390-09	250	40.0	40.0	288	296	ug/L	EPA 8260B	3/19/02	104	124	17.7	70-130	25
Benzene	25174-06	<0.50	40.0	40.0	43.5	43.5	ug/L	EPA 8260B	3/17/02	109	109	0.0460	70-130	25
Toluene	25174-06	<0.50	40.0	40.0	42.2	41.3	ug/L	EPA 8260B	3/17/02	105	103	2.20	70-130	25
Tert-Butanol	25174-06	<5.0	200	200	216	216	ug/L	EPA 8260B	3/17/02	108	108	0.0416	70-130	25
Methyl-t-Butyl Ether	25174-06	<0.50	40.0	40.0	41.4	39.7	ug/L	EPA 8260B	3/17/02	104	99.4	4.14	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 25261

QC Report : Laboratory Control Sample (LCS)

Date : 3/26/2002

Project Name : **610 Market Street, Oakland**

Project Number : **020308-DW-1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	20.0	ug/L	EPA 8260B	3/22/02	99.0	70-130
Toluene	20.0	ug/L	EPA 8260B	3/22/02	99.3	70-130
Tert-Butanol	100	ug/L	EPA 8260B	3/22/02	103	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	3/22/02	84.2	70-130
Benzene	40.0	ug/L	EPA 8260B	3/19/02	94.8	70-130
Toluene	40.0	ug/L	EPA 8260B	3/19/02	98.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/19/02	97.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/19/02	89.6	70-130
Benzene	40.0	ug/L	EPA 8260B	3/17/02	111	70-130
Toluene	40.0	ug/L	EPA 8260B	3/17/02	106	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/17/02	110	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/17/02	96.4	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

LAB: KTT

EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

2-5261

INCIDENT NUMBER (SEE ONLY): 9 8 9 9 5 7 5 0

SAP or CRMT NUMBER (TS/CRMT):

DATE: 3-8-02

PAGE: 1 of 1

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS (Street and City):	GLOBAL ID NO.:
Blaine Tech Services	BTSS	610 Market Street, Oakland	T0600102121

ADDRESS:	EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
1680 Rogers Avenue, San Jose, CA 95112	Anni Kreml	510-420-3335	ShellOaklandEDF@cambria-env.com	BTS #020308-DW-1

PROJECT CONTACT (Hardcopy or PDF Report to):	TELEPHONE:	FAX:	E-MAIL:	SAMPLER NAME(S) (Print):
Leon Gearhart	408-573-0555	408-573-7771	lgearhart@blainetech.com	Dave Walter

LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

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

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes / TEMPERATURE ON RECEIPT C°
	MW-1	3-8	10:26	W	3	X	X	X									-01
	MW-2	3-8	10:03	↓	↓	X	X	X									-02
	MW-3	3-8	10:47	↓	↓	X	X	X									-03

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
David C. Blatt			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	John Cuttle Kiff Analytical	031102	1142

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10/16/00 Revision

WELL GAUGING DATA

Project # 020308-Qu-1 Date 3-8-02 Client Equiva

Site 610 Market St Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4					13.22	24.70		
MW-2	4	*				11.68	19.79		
MW-3	4	*				11.26	19.70		
		* Gauged w/ Stinger in well							

EQUIVA WELL MONITORING DATA SHEET

BTS #: 020308-DW-1	Site: 610 Market St Oakland
Sampler: Dave Keller	Date: 3-8-02
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 24.70	Depth to Water: 13.22
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer; Disposable Bailer; Middleburg; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

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

7.5 (Gals.) X 3 = 22.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
10:17	64.0	6.6	838	190	8	
10:19	64.8	6.4	905	98	16	
10:21	64.7	6.5	931	46	24	

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

Sampling Time: 10:26 Sampling Date: 3-8-02

Sample I.D.: MW-1 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

BLAINE TECH SERVICES, Inc. 1680 ROGERS AVE. • SAN JOSE, CA 95112-1105 • (408) 573-0555 • FAX (408) 573-7771 • CONTRACTOR'S LICENSE #746684

EQUIVA WELL MONITORING DATA SHEET

BTS #: 020308-DW-1	Site: 610 Market St Oakland
Sampler: Dave Walter	Date: 3-8-02
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.79	Depth to Water: 11.68
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra Peristaltic, Extraction Pump, Other_____

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

5.3 (Gals.) X 3 = 15.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
9:54	63.8	6.0	849	7200	6	very cloudy
9:56	65.9	6.2	836	27	12	clear
9:58	65.7	6.4	837	22	18	"

Did well dewater? Yes (No) Gallons actually evacuated: 18

Sampling Time: 10:07 Sampling Date: 3-8-02

Sample I.D.: MW-2 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 #: 020308-DW-1	Site: 610 Market St Oakland
Sampler: Dave Walter	Date: 3-8-02
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.70	Depth to Water: 11.26
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer / Disposable Bailer / Middleburg / X Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

5.5 (Gals.) X	3	= 16.5 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
10:38	63.6	6.8	608	27	6	
10:40	65.4	6.7	576	67	12	
10:42	66.3	6.7	603	59	18	

Did well dewater? Yes (No) Gallons actually evacuated: 18

Sampling Time: 10:47 Sampling Date: 3-8-02

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

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WELLHEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client Equiva Inspection Date 3-8-02

Site Address 610 Market St Oakland Inspected By Dave Walter

1. Lid on box?	6. Casing secure?	12. Water standing in wellbox?	15. Well cap functional?
2. Lid broken?	7. Casing cut level?	12a. Standing above the top of casing?	16. Can cap be pulled loose?
3. Lid bolts missing?	8. Debris in wellbox?	12b. Standing below the top of casing?	17. Can cap seal out water?
4. Lid bolts stripped?	9. Wellbox is too far above grade?	12c. Water even with the top of casing?	18. Padlock present?
5. Lid seal intact?	10. Wellbox is too far below grade?	13. Well cap present?	19. Padlock functional?
	11. Wellbox is crushed/damaged?	14. Well cap found secure?	

[X] Check box if no deficiencies were found. Note below deficiencies you were able to correct.

Well I.D.	Deficiency	Corrective Action Taken

Note below all defiencies that could not be corrected and still need to be corrected.

Well I.D.	Persisting Deficiency	BTS Office assigns or defers Correction to:	Date assigned	Date corrected

ATTACHMENT B

Vapor Sample Analytical Laboratory Reports

KIFF ANALYTICAL LLC

Report Number : 24738
Date : 2/15/2002

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

Subject : 1 Air Sample
Project Name : 610 MARKET ST., OAKLAND
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,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 24738
Date : 2/15/2002

Project Name : **610 MARKET ST., OAKLAND**
Project Number : **244-0594-006**

Sample : **T-2** Matrix : Air Lab Number : 24738-01
Sample Date :2/12/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**24**	3.3	ppmv	EPA 8260B	2/14/2002
Toluene	**4.3**	3.3	ppmv	EPA 8260B	2/14/2002
Ethylbenzene	**< 3.3**	3.3	ppmv	EPA 8260B	2/14/2002
Total Xylenes	**< 3.3**	3.3	ppmv	EPA 8260B	2/14/2002
Methyl-t-butyl ether	**990**	6.7	ppmv	EPA 8260B	2/14/2002
TPH as Gasoline	**4800**	330	ppmv	EPA 8260B	2/14/2002
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	2/14/2002
4-Bromofluorobenzene (Surr)	81.1		% Recovery	EPA 8260B	2/14/2002

Approved By: Joel Kiff

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

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

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

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced: K. PETERMA

☒ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

24738

INCIDENT NUMBER (SAP ONLY): 98995750

SAP/C CRMT NUMBER (TSACRM):

DATE: 2/12/02

PAGE: 1 of 1

SAMPLING COMPANY: CAMBRIA	LOG CODE:	SITE ADDRESS (Street and City): 610 MARKET ST., OAKLAND	GLOBAL ID NO.:
ADDRESS: 1144 65th ST., OAKLAND, CA 94608		EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.: / E-MAIL: / CONSULTANT PROJECT NO.: 244-0594-06
PROJECT CONTACT (Hardcopy or PDF Report to): J. JONES		SAMPLER NAME(S) (Print): ROWAN FENNELL	
TELEPHONE: 510 420 3316	FAX: 510 420 9170	E-MAIL: JJONES@CAMBRIA-ENV.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 NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1945)	Test for Disposal (48-)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note
	T-2	2/12/2	10am	AIR	1	✓	✓	✓																	

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°

FEDEX BAG-01

Relinquished by: (Signature)	Received by: (Signature) Secured Location	Date: 2/12/02 Time: 10:15 AM
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
Relinquished by: (Signature)	Received by: (Signature) John Cuttle / Kiff Analytical	Date: 021202 Time: 1107

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10/16/00 Revision

C&C Graphic (714) 898-9702

KIFF ANALYTICAL LLC

Report Number : 25099
Date : 3/11/02

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,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 25099
Date : 3/11/02

Project Name : **610 Market St. Oakland, Ca**
Project Number : **244-0594-006**

Sample : **T-2** Matrix : Air Lab Number : 25099-01
Sample Date :3/1/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**15**	3.3	ppmv	EPA 8260B	3/3/02
Toluene	**< 3.3**	3.3	ppmv	EPA 8260B	3/3/02
Ethylbenzene	**< 3.3**	3.3	ppmv	EPA 8260B	3/3/02
Total Xylenes	**5.0**	3.3	ppmv	EPA 8260B	3/3/02
Methyl-t-butyl ether	**1100**	6.7	ppmv	EPA 8260B	3/3/02
TPH as Gasoline	**2600**	330	ppmv	EPA 8260B	3/3/02
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	3/3/02
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	3/3/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

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

EQUIVA Services LLC Chain Of Custody Record 25099

Equiva Project Manager to be invoiced: Karen Petryna

☒ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY):

SAP or CRMT NUMBER (TS/CRMT):

DATE: 3-1-02

PAGE: 1 of 1

SAMPLING COMPANY: Cambria Environmental Technology

LOG CODE:

SITE ADDRESS (Street and City): 610 Market St. Oakland, Ca

GLOBAL ID NO.:

ADDRESS: 6262 Hollis St. Emeryville Ca

EDF DELIVERABLE TO (Responsible Party or Designee):

PHONE NO.: 510 420-3344

E-MAIL:

CONSULTANT PROJECT NO.: 244-0594-006

PROJECT CONTACT (Hardcopy or PDF Report to): Stephan Bork

TELEPHONE: 510-420-0344

FAX: 510-420-9170

E-MAIL:

SAMPLER NAME(S) (Print): Sanjiv Gill

FOR LUFT FIELD QA/QC USE ONLY

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:

Report Results in PPMV

TEMPERATURE ON RECEIPT C°:

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B- ____)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	UST REPORTING REQUIRED
	T-2	3-1-02	6:00	air	1	X	X	X																		-01

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature) S. Gill	Received by: (Signature)	Date: 03/02/02	Time: 1523
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) Luis A. Zuniga / KIFF ANALYTICAL	Date: 03/02/02	Time: 1523

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

10/16/00 Revision

Q&Q Graphic (714) 895-6702

KIFF ANALYTICAL LLC

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,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

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 (Surr)	96.5		% Recovery	EPA 8260B	4/20/02
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	4/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL

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:
☐ SCIENCE & ENGINEERING Karen Petryna
☐ TECHNICAL SERVICES
☐ GMT HOUSTON

9899750

DATE: 4-19-02
PAGE: 1 of 1

SAMPLING COMPANY: Cambria Env. Tech	LOG CODE:	SITE ADDRESS (Street and City): 610 Market St. Oakland, Ca	GLOBAL ID NO.:
ADDRESS: 1144 65th St. Oakland Ca		EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.: 510-420-0070
PROJECT CONTACT (Hardcopy or PDF Report to): Stephan Bork			E-MAIL:
TELEPHONE: 510-420-0700	FAX: 510-420-9170	E-MAIL:	SAMPLER NAME(S) (Print): Sanjiv Gill

CONSULTANT PROJECT NO.: 244-0594-006

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 ☐
Report results in PPMV

REQUESTED ANALYSIS

Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 2416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (45-__)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	TEMPERATURE ON RECEIPT C°
T-2	4-19-02	5:30	air	1	X	X	X																		-01

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature)		Received by: (Signature)	Date: 042002 Time: 9:30
Relinquished by: (Signature)		Received by: (Signature)	Date: Time:
Relinquished by: (Signature) LAZ 042002 930		Received by: (Signature) KIFF ANALYTICAL	Date: 042002 Time: 9:30

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

10/16/00 Revision

KIFF ANALYTICAL LLC

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,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

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