

RO-367



Shell Oil Products US

March 18, 2003

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

Alameda County
MAR 24 2003
Environmental Health

Subject: Shell-branded Service Station
1784 150th Avenue
San Leandro, California

Dear Ms. chu:

Attached for your review and comment is a copy of the *Fourth Quarter 2002 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna
Sr. Environmental Engineer

March 18, 2003

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

Re: **Fourth Quarter 2002 Monitoring Report**
Shell-branded Service Station
1784 150th Avenue
San Leandro, California
Incident #98996068
Cambria Project #245-0612-002



Dear Ms. chu:

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.

FOURTH QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose gauged all site wells, sampled selected 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.

Additional Oxygenate Analysis: As requested in a letter dated October 22, 2002 from Alameda County Health Care Services Agency (ACHCSA), groundwater samples were analyzed for the presence of methyl tert-butyl ether (MTBE), tert-butyl alcohol (TBA), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), di-isopropyl ether (DIPE), 1,2-dichloroethane (1,2-DCA) and 1,2-dibromoethane (or ethylene dibromide) (EDB) using EPA Method 8260. No analytes were detected in any of the groundwater samples from offsite wells. Analytical results showed MTBE concentrations of 230 parts per billion (ppb) and 19,000 ppb, and TBA concentrations of 310 ppb and 10,000 ppb in onsite wells MW-1 and MW-2, respectively. In addition, 31 ppb of 1,2-DCA were detected in MW-1, and 55 ppb of TAME were detected in MW-2. Analytical results are presented in Table 1.

**Cambria
Environmental
Technology, Inc.**

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

Mobile Groundwater Extraction (GWE): In July 2002, Onyx Industrial Services (Onyx) of Benicia, California began conducting semi-monthly GWE using monitoring well MW-2 for three events, continuing on a monthly basis thereafter. Through the end of December 2002, approximately 2.2 pounds of total petroleum hydrocarbons as gasoline and approximately 0.8 pounds of MTBE were removed from the subsurface (Table 2). The effect of GWE on the MTBE concentrations in well MW-2 is depicted graphically in Figure 3.

ANTICIPATED FIRST QUARTER 2003 ACTIVITIES



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

Volatile Organic Compounds (VOC) Analysis Reduction Proposal: Groundwater from wells MW-1, MW-2 and MW-3 has been analyzed annually for VOCs by EPA Method 8260B since 1995. Given that concentrations are typically below or very near the method detection limits for all wells except MW-3, in the *Third Quarter 2002 Monitoring Report*, Cambria proposed to reduce annual analysis for VOCs to include well MW-3 only. Cambria will contact the caseworker prior to the second quarter 2003 monitoring event to confirm acceptance of the reduced analysis proposal.

Additional Oxygenate Analysis: Due to the concentrations of oxygenates and lead scavengers detected in groundwater samples from onsite wells MW-1 and MW-2 in the fourth quarter of 2002, Cambria recommends continuing to analyze groundwater from onsite wells for MTBE, TAME, TBA and 1,2-DCA in the first quarter of 2003.

GWE: Onyx will continue conducting monthly GWE using monitoring well MW-2.

Soil and Groundwater Investigation: Cambria submitted a *Soil and Water Investigation Work Plan and Well Screen Interval Evaluation* on March 10, 2003 as requested in an ACHCSA letter dated December 19, 2002. Cambria proposed to install one onsite and five offsite Geoprobe® soil borings to further define the extent of the chemical plume west and northwest of the site. Cambria will proceed with permitting and scheduling upon receipt of written approval of the work plan from ACHCSA.

CLOSING

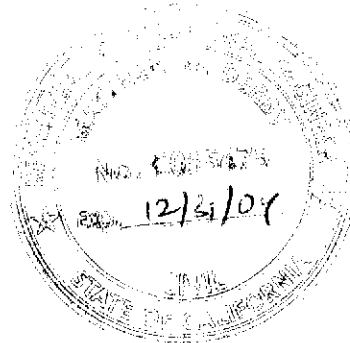
We appreciate the opportunity to work with you on this project. Please call Melody Munz at (510) 420-3324 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



Melody Munz
Project Engineer

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



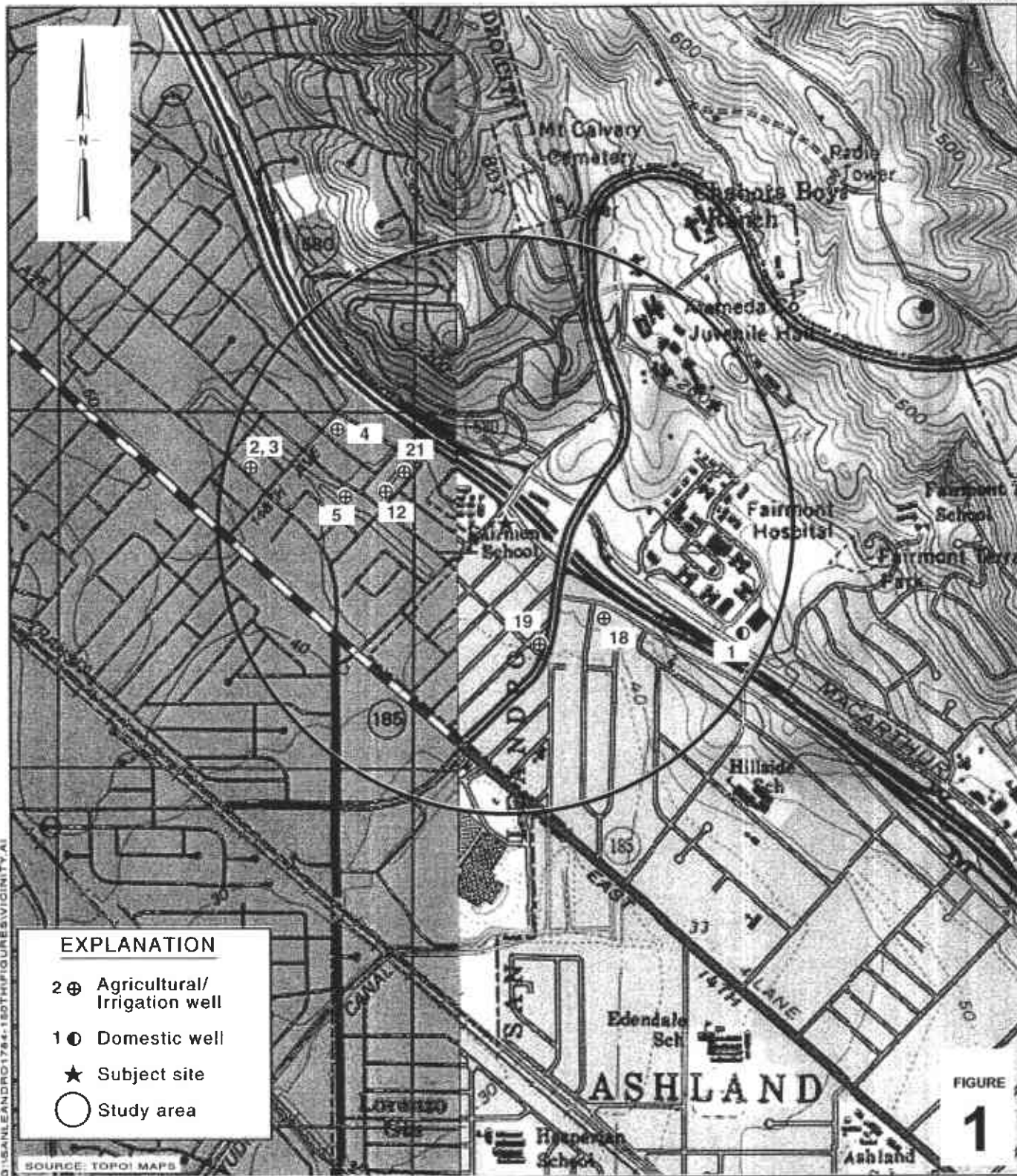
Figures: 1 - Vicinity/Area Well Survey Map
 2 - Groundwater Elevation Contour Map
 3 - GWE VacOps Effect on MTBE Concentrations (MW-2)

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

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869

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Shell-branded Service Station

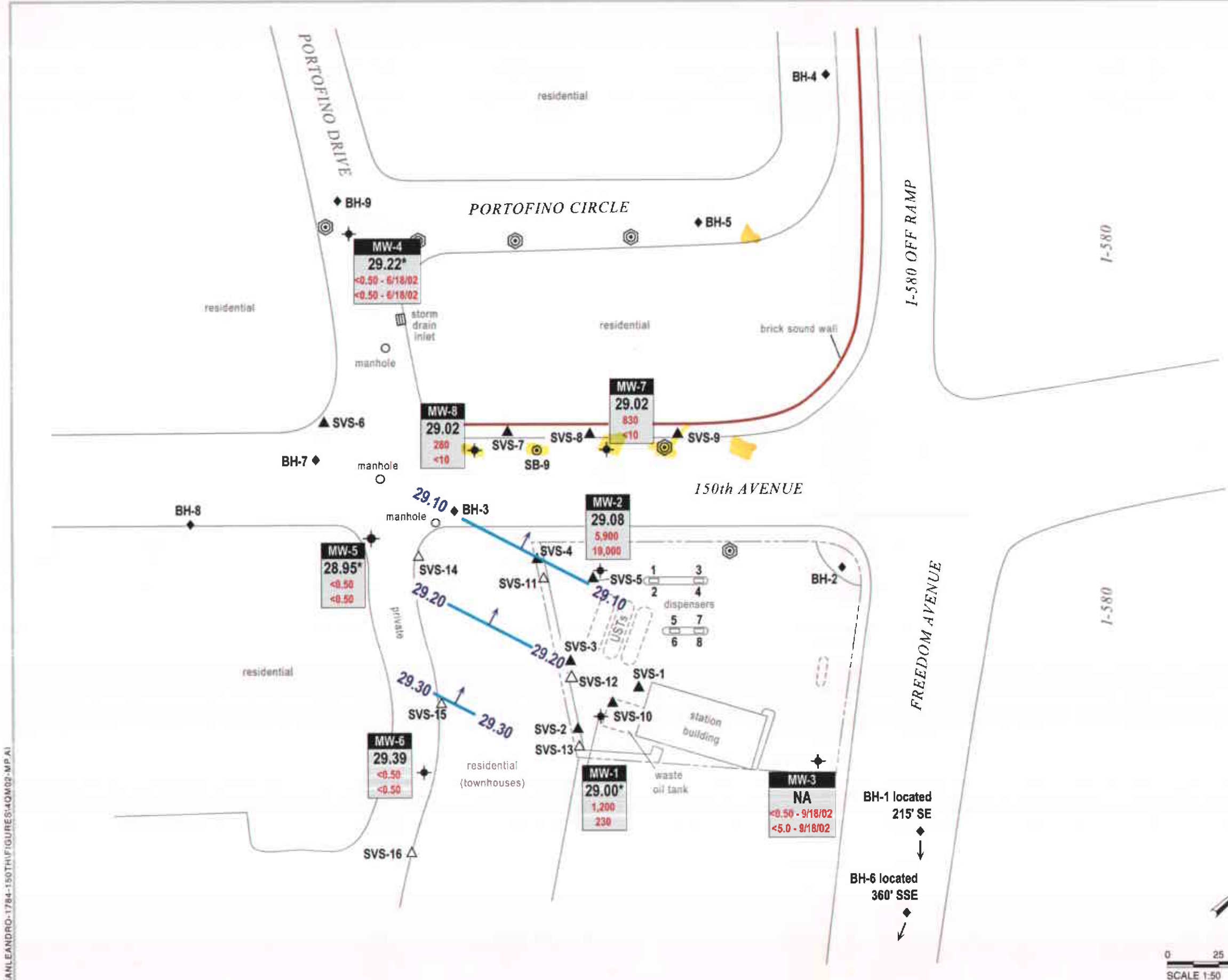
1784 150th Avenue
 San Leandro, California
 Incident #98996068



C A M B R I A

Vicinity/Area Well Survey Map

1/2-Mile Radius



EXPLANATION

- SB-10 Proposed soil boring location
- MW-1 Monitoring well location
- BH-1 Weiss soil boring location (6/94)
- BH-7 Weiss soil boring location (3/95)
- SVS-1 Cambria soil boring location (7/96)
- SVS-11 Cambria soil boring location (11/98)
- SB-9 Cambria soil boring location (10/03/02)
- NA Not available
- Data anomalous, not used for contouring
- Groundwater flow direction
- Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred

Well

- ELEV** Groundwater elevation, in feet above msl
- Benzene** Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.
- MTBE**



Groundwater Gradient Direction (06/14/99 to 12/27/02)



FIGURE
2

G:\SANLEANDRO-1784-150TH\FIGURES\40M02.MP.A1

**GWE VacOps Effect on MTBE Concentration
1784 150th Street, San Leandro, MW-2**

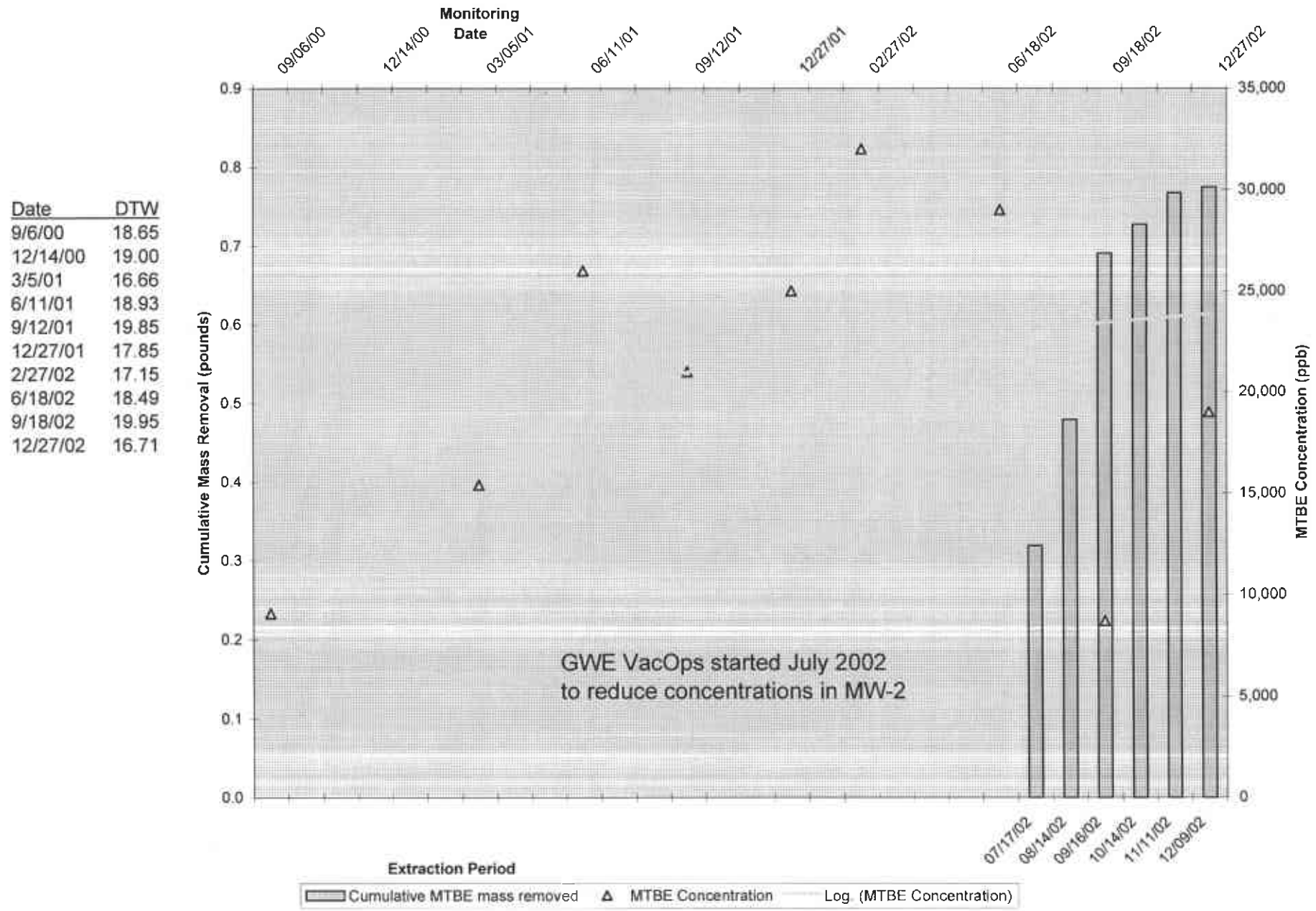


Figure 3

CAMBRIA

Table 1. Groundwater Analytical Data - Oxygenates - Shell-branded Service Station, Incident #98996068, 1784 150th Avenue, San Leandro, California

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
		(Concentrations in ppb)						
MW-1	12/27/02	230	<5.0	<5.0	<5.0	310	31	<5.0
MW-2	12/27/02	19,000	<50	<50	55	10,000	<50	<50
MW-5	12/27/02	<0.50	<2.0	<2.0	<2.0	<50	<2.0	<2.0
MW-6	12/27/02	<0.50	<2.0	<2.0	<2.0	<50	<2.0	<2.0
MW-7	12/27/02	<10	<10	<10	<10	<100	<10	<10
MW-8	12/27/02	<10	<10	<10	<10	<100	<10	<10

Abbreviations:

MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260
 DIPE = Di-isopropyl ether, analyzed by EPA Method 8260
 ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260
 TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260
 TBA = Tert-butyl alcohol, analyzed by EPA Method 8260
 1,2-DCA = 1,2-dichloroethane, analyzed by EPA Method 8260
 EDB = 1,2-dibromomethane or ethylene dibromide, analyzed by EPA Method 8260
 ppb = Parts per billion
 --- = Not analyzed

ATTACHMENT A
Blaine Groundwater Monitoring Report
and Field Notes

BLAINE
TECH SERVICES, INC.



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

January 23, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Fourth Quarter 2002 Groundwater Monitoring at
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Monitoring performed on October 21
and December 27, 2002

Groundwater Monitoring Report 021227-MN-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/jt

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98996068, 1784 150th Avenue, San Leandro, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE			
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)	
07/03/02	MW-2	482	482	06/18/02	72,000	0.28958	0.28958	9,500	0.03821	0.03821	29,000	0.11664	0.11664	
07/17/02	MW-2	834	1,316	06/18/02	72,000	0.50106	0.79064	9,500	0.06611	0.10432	29,000	0.20182	0.31845	
07/31/02	MW-2	213	1,529	06/18/02	72,000	0.12797	0.91861	9,500	0.01688	0.12121	29,000	0.05154	0.37000	
08/14/02	MW-2	664	2,193	06/18/02	72,000	0.39893	1.31754	9,500	0.05264	0.17384	29,000	0.16068	0.53068	
09/16/02	MW-2	662	2,855	06/18/02	72,000	0.39773	1.71527	9,500	0.05248	0.22632	29,000	0.16019	0.69087	
10/14/02	MW-2	501	3,356	09/18/02	48,000	0.20067	1.91593	7,600	0.03177	0.25809	8,700	0.03637	0.72724	
11/11/02	MW-2	547	3,903	09/18/02	48,000	0.21909	2.13502	7,600	0.03469	0.29278	8,700	0.03971	0.76695	
12/09/02	MW-2	106	4,009	09/18/02	48,000	0.04246	2.17748	7,600	0.00672	0.29950	8,700	0.00770	0.77465	
01/08/03	MW-2	652	4,661	12/27/02	40,000	0.21762	2.39510	5,900	0.03210	0.33160	19,000	0.10337	0.87802	
02/04/03	MW-2	326	4,987	12/27/02	40,000	0.10881	2.50391	5,900	0.01605	0.34765	19,000	0.05168	0.92970	
Total Gallons Extracted:			4,987	Total Pounds Removed:			2.50391	Total Pounds Removed:			0.34765	Total Pounds Removed:		0.92970
				Total Gallons Removed:			0.41048				0.04762			0.14995

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

ppb = Parts per billion

gal = Gallon

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

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

TPPH, benzene, and MTBE analyzed by EPA Method 8260

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. Water disposed of at a Martinez Refinery.

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	03/08/1990	510	120	1.5	0.8	<0.5	5.4	NA	NA	49.13	25.29	23.84	NA	NA
MW-1	06/12/1990	390	100	86	1.3	0.7	6.2	NA	NA	49.13	25.85	23.28	NA	NA
MW-1	09/13/1990	100	130	56	0.75	2.4	2.8	NA	NA	49.13	27.49	21.64	NA	NA
MW-1	12/18/1990	480	<50	54	1.7	3.3	3.7	NA	NA	49.13	27.41	21.72	NA	NA
MW-1	03/07/1991	80	<50	266	<0.5	1.2	<1.5	NA	NA	49.13	25.79	23.34	NA	NA
MW-1	06/07/1991	510	<50	130	3.8	6.1	11	NA	NA	49.13	25.64	23.49	NA	NA
MW-1	09/17/1991	330	120a	67	<0.5	3.0	2.2	NA	NA	49.13	27.54	21.59	NA	NA
MW-1	12/09/1991	140a	80	<0.5	<0.5	1.7	4.7	NA	NA	49.13	27.81	21.32	NA	NA
MW-1	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	25.57	23.56	NA	NA
MW-1	02/24/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	22.83	26.30	NA	NA
MW-1	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	23.09	26.04	NA	NA
MW-1	03/01/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	49.13	23.26	25.87	NA	NA
MW-1	06/03/1992	1,500	NA	520	180	72	230	NA	NA	49.13	24.64	24.49	NA	NA
MW-1	09/01/1992	130	NA	16	1.4	1.8	3.4	NA	NA	49.13	26.74	22.39	NA	NA
MW-1	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	27.18	21.95	NA	NA
MW-1	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	27.99	21.14	NA	NA
MW-1	12/04/1992	150	NA	360	0.7	1.8	2.1	NA	NA	49.13	27.14	21.99	NA	NA
MW-1	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	20.09	29.04	NA	NA
MW-1	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	24.26	24.87	NA	NA
MW-1	03/03/1993	<50	NA	1.5	<0.5	<0.5	<0.5	NA	NA	49.13	20.50	28.63	NA	NA
MW-1	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	21.70	27.43	NA	NA
MW-1	06/17/1993	1,600	NA	340	120	120	440	NA	NA	49.13	22.42	26.71	NA	NA
MW-1	09/10/1993	2,600	NA	670	340	310	730	NA	NA	49.13	24.11	25.02	NA	NA
MW-1	12/13/1993	11,000	NA	470	320	380	2,300	NA	NA	49.13	23.73	25.40	NA	NA
MW-1	03/03/1994	16,000	NA	700	690	480	3,200	NA	NA	49.13	22.08	27.05	NA	NA
MW-1	06/06/1994	7,500	NA	420	280	200	1,000	NA	NA	49.13	23.10	26.03	NA	NA
MW-1	09/12/1994	1,200	NA	110	21	3.3	420	NA	NA	49.13	25.19	23.94	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	12/19/1994	4,600	NA	470	330	230	1,300	NA	NA	49.13	23.06	26.07	NA	NA
MW-1	02/28/1995	500	NA	59	32	6.8	68	NA	NA	49.13	20.90	28.23	NA	NA
MW-1	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	49.13	18.28	30.85	NA	NA
MW-1	06/26/1995	5,500	NA	740	420	300	1,800	NA	NA	49.13	20.40	28.73	NA	NA
MW-1	09/13/1995	84,000	NA	1,900	2,600	3,000	14,000	NA	NA	49.13	22.62	26.51	NA	NA
MW-1	12/19/1995	80,000	NA	660	350	170	18,000	NA	NA	49.13	22.10	27.03	NA	NA
MW-1	03/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	49.13	18.83	30.34	0.05	NA
MW-1	06/28/1996	270,000	NA	2,800	820	1,000	16,000	<0.5	NA	49.13	21.46	27.67	NA	NA
MW-1 (D)	06/28/1996	790,000	NA	2,200	780	1,000	13,000	15,000	NA	49.13	21.46	27.67	NA	NA
MW-1	09/26/1996	29,000	NA	1,100	260	270	1,900	<1,000	NA	49.13	23.57	25.57	0.01	NA
MW-1	09/26/1996	25,000	NA	1,200	320	240	1,900	<1,000	NA	49.13	NA	NA	NA	NA
MW-1	12/10/1996	13,000	NA	510	240	230	1,200	100	NA	49.13	21.43	27.70	NA	1.0
MW-1 (D)	12/10/1996	8,400	NA	420	130	140	680	81	NA	49.13	21.43	27.70	NA	1.0
MW-1	03/10/1997	4,200	NA	13	8.8	16	74	<12	NA	49.13	20.08	29.05	NA	2.0
MW-1 (D)	03/10/1997	5,100	NA	12	8.9	17	79	<25	NA	49.13	20.08	29.05	NA	2.0
MW-1	06/30/1997	5,700	NA	320	120	140	700	47	NA	49.13	21.68	27.45	NA	1.6
MW-1 (D)	06/30/1997	5,300	NA	300	95	120	580	45	NA	49.13	21.68	27.45	NA	1.6
MW-1	09/12/1997	6,300	NA	120	26	82	260	30	NA	49.13	21.78	27.35	NA	2.1
MW-1 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	49.13	20.78	28.35	NA	1.3
MW-1	02/02/1998	84	NA	5.1	<0.50	<0.50	2.1	2.5	NA	49.13	19.65	29.48	NA	2.0
MW-1	06/24/1998	13,000	NA	3,000	260	410	1,400	<250	NA	49.13	19.65	29.48	NA	2.5
MW-1 (D)	06/24/1998	12,000	NA	3,800	250	47	1,400	710	NA	49.13	19.65	29.48	NA	2.5
MW-1	08/26/1998	3,100	NA	1,200	27	170	50	88	NA	49.13	20.49	28.64	NA	2.1
MW-1	12/23/1998	45,000	NA	5,300	220	1,000	3,600	970	NA	49.13	21.22	27.91	NA	3.8
MW-1	03/01/1999	22,300	NA	2,540	436	753	3,370	<400	NA	49.13	19.27	29.86	NA	1.8
MW-1	06/14/1999	18,800	NA	6,820	210	436	958	1,360	NA	49.13	20.80	28.33	NA	2.2
MW-1	09/28/1999	21,500	NA	7,470	281	467	927	1,800	NA	49.13	22.55	26.58	NA	2.0

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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MW-1	12/08/1999	22,300	NA	6,140	135	256	367	232	NA	49.13	23.12	26.01	NA	2.1
MW-1	03/14/2000	6,690	NA	1,880	63.5	134	307	460	NA	49.13	18.87	30.26	NA	2.3
MW-1	06/28/2000	8,080	NA	2,690	85.1	149	514	701	NA	49.13	21.12	28.01	NA	2.4
MW-1	09/06/2000	17,800	NA	7,390	212	329	1,270	<1,000	NA	49.13	21.90	27.23	NA	3.0
MW-1	12/14/2000	8,900	NA	4,870	79.2	106	370	1,840	673*	49.13	22.60	26.53	NA	2.0
MW-1	03/05/2001	7,520	NA	2,120	66.0	107	129	668	NA	49.13	20.06	29.07	NA	0.4
MW-1	06/11/2001	30,000	NA	7,400	390	600	2,300	NA	170	49.13	22.39	26.74	NA	1.6
MW-1	09/12/2001	23,000	NA	7,500	120	280	910	NA	320	49.13	23.37	25.76	NA	2.2
MW-1	12/27/2001	16,000	NA	2,400	190	330	1,500	NA	350	49.13	20.97	28.16	NA	1.3
MW-1	02/27/2002	26,000	NA	6,100	330	510	2,000	NA	210	49.10	20.47	28.63	NA	1.3
MW-1	06/18/2002	29,000	NA	8,100	280	510	1,800	NA	140	49.10	21.99	27.11	NA	2.2
MW-1	09/18/2002	34,000	NA	5,900	350	700	3,000	NA	<250	49.10	23.21	25.89	NA	0.8
MW-1	12/27/2002	7,500	NA	1,200	30	120	410	NA	230	49.10	20.10	29.00	NA	0.6

MW-2	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	22.22	23.61	NA	NA
MW-2	02/24/1992	17,000	2,700a	6,200	1,600	550	1,900	NA	NA	45.83	19.61	26.22	NA	NA
MW-2	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	19.92	25.91	NA	NA
MW-2	03/01/1992	86,000	1,000a	30,000	34,000	2,300	16,000	NA	NA	45.83	21.11	24.72	NA	NA
MW-2	06/03/1992	87,000	NA	28,000	18,000	2,000	10,000	NA	NA	45.83	21.58	24.25	NA	NA
MW-2	09/01/1992	110,000	NA	21,000	13,000	1,900	7,800	NA	NA	45.83	23.46	22.37	NA	NA
MW-2	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	23.99	21.84	NA	NA
MW-2	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.83	24.25	21.58	NA	NA
MW-2	12/04/1992	42,000	NA	15,000	2,400	960	2,900	NA	NA	45.83	23.89	21.94	NA	NA
MW-2	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.83	17.03	28.80	NA	NA
MW-2	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.83	18.08	27.75	NA	NA
MW-2	03/03/1993	160,000	NA	36,000	3,800	32,000	21,000	NA	NA	45.83	17.28	28.55	NA	NA
MW-2 (D)	03/03/1993	150,000	NA	31,000	3,100	20,000	14,000	NA	NA	45.83	17.28	28.55	NA	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-2	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.83	18.41	27.42	NA	NA
MW-2	06/17/1993	65,000	NA	34,000	15,000	3,200	11,000	NA	NA	45.83	19.06	26.77	NA	NA
MW-2 (D)	06/17/1993	62,000	NA	28,000	14,000	2,700	10,000	NA	NA	45.83	19.06	26.77	NA	NA
MW-2	09/10/1993	72,000	NA	24,000	16,000	2,300	11,000	NA	NA	45.83	20.88	24.95	NA	NA
MW-2 (D)	09/10/1993	71,000	NA	23,000	15,000	2,300	10,000	NA	NA	45.83	20.88	24.95	NA	NA
MW-2	12/13/1993	19,000	NA	5,400	4,900	680	3,100	NA	NA	45.83	20.42	25.41	NA	NA
MW-2 (D)	12/13/1993	17,000	NA	6,200	5,500	720	3,500	NA	NA	45.83	20.42	25.41	NA	NA
MW-2	03/03/1994	110,000	NA	21,000	24,000	2,000	13,000	NA	NA	45.83	18.48	27.35	NA	NA
MW-2 (D)	03/03/1994	93,000	NA	19,000	22,000	1,800	12,000	NA	NA	45.83	18.48	27.35	NA	NA
MW-2	06/06/1994	10,000	NA	1,900	3,300	2,500	13,000	NA	NA	45.83	20.26	25.57	NA	NA
MW-2 (D)	06/06/1994	99,000	NA	9,900	12,000	2,400	12,000	NA	NA	45.83	20.26	25.57	NA	NA
MW-2	09/12/1994	160,000	NA	22,000	33,000	3,400	23,000	NA	NA	45.83	21.80	24.03	NA	NA
MW-2 (D)	09/12/1994	150,000	NA	23,000	34,000	3,500	23,000	NA	NA	45.83	21.80	24.03	NA	NA
MW-2	12/19/1994	80,000	NA	17,000	16,000	2,300	14,000	NA	NA	45.83	19.66	26.17	NA	NA
MW-2 (D)	12/19/1994	100,000	NA	28,000	26,000	3,400	20,000	NA	NA	45.83	19.66	26.17	NA	NA
MW-2	02/28/1995	100,000	NA	24,000	18,000	2,300	17,000	NA	NA	45.83	17.51	28.32	NA	NA
MW-2 (D)	02/28/1995	100,000	NA	31,000	21,000	3,200	18,000	NA	NA	45.83	17.51	28.32	NA	NA
MW-2	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	45.83	14.88	30.95	NA	NA
MW-2	06/26/1995	45,000	NA	14,000	12,000	1,500	7,500	NA	NA	45.83	17.58	28.25	NA	NA
MW-2 (D)	06/26/1995	68,000	NA	13,000	11,000	1,800	7,700	NA	NA	45.83	17.58	28.25	NA	NA
MW-2	09/13/1995	110,000	NA	19,000	19,000	2,800	15,000	NA	NA	45.83	19.28	26.55	NA	NA
MW-2 (D)	09/13/1995	120,000	NA	20,000	20,000	2,900	15,000	NA	NA	45.83	19.28	26.55	NA	NA
MW-2	12/19/1995	180,000	NA	18,000	29,000	4,100	24,000	NA	NA	45.83	18.61	27.22	NA	NA
MW-2 (D)	12/19/1995	160,000	NA	18,000	28,000	3,800	24,000	NA	NA	45.83	18.61	27.22	NA	NA
MW-2	03/06/1996	120,000	NA	28,000	15,000	3,900	17,000	NA	NA	45.83	15.41	30.42	NA	NA
MW-2	06/28/1996	96,000	NA	20,000	20,000	4,100	22,000	2,400	NA	45.83	17.84	27.99	NA	NA
MW-2	09/26/1996	87,000	NA	7,600	11,000	2,500	15,000	990	840	45.83	19.60	26.23	NA	NA

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MW-2	12/10/1996	NA	NA	NA	NA	NA	NA	NA	NA	45.83	18.15	27.88	0.25	NA
MW-2	03/10/1997	NA	NA	NA	NA	NA	NA	NA	NA	45.83	17.02	28.97	0.20	NA
MW-2	06/30/1997	57,000	NA	3,600	4,600	1,300	9,700	2,300	NA	45.83	19.42	26.41	NA	2.4
MW-2	09/12/1997	88,000	NA	7,800	8,800	2,600	16,000	3,200	NA	45.83	19.40	26.43	NA	1.7
MW-2 (D)	09/12/1997	90,000	NA	8,300	9,400	2,700	17,000	3,400	NA	45.83	19.40	26.43	NA	1.7
MW-2 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	45.83	17.56	28.27	NA	1.3
MW-2	02/02/1998	<50	NA	0.6	1.9	0.93	6.0	9.3	NA	45.83	18.14	27.69	NA	2
MW-2 (D)	02/02/1998	56	NA	1.0	2.8	1.4	9.3	13	NA	45.83	18.14	27.69	NA	2
MW-2	06/24/1998	20,000	NA	<200	620	560	4,500	<1,000	NA	45.83	16.08	29.75	NA	2.4
MW-2	08/26/1998	22,000	NA	380	1,100	560	4,400	330	NA	45.83	19.25	26.58	NA	NA
MW-2 (D)	08/26/1998	11,000	NA	180	130	290	500	1,400	NA	45.83	19.25	26.58	NA	NA
MW-2	12/23/1998	100,000	NA	4,100	6,500	2,400	16,000	<500	NA	45.83	18.29	27.54	NA	3.8
MW-2	03/01/1999	50,800	NA	3,910	7,480	1,890	13,100	9,620	NA	45.83	22.81	23.02	NA	2.0
MW-2	06/14/1999	4,930	NA	128	270	139	1,040	2,200	2,540*	45.83	18.86	26.97	NA	1.6
MW-2	09/28/1999	16,200	NA	647	1,070	542	4,130	5,320	4,790	45.83	21.41	24.42	NA	1.8
MW-2	12/08/1999	25,700	NA	1,670	2,110	977	6,600	6,190	5,970	45.83	21.89	23.94	NA	1.8
MW-2	03/14/2000	45,100	NA	2,070	4,710	1,920	12,800	16,700	18,300*	45.83	15.57	30.26	NA	2.0
MW-2	06/28/2000	52,100	NA	5,150	4,200	1,880	13,300	15,500	13,500*	45.83	17.79	28.04	NA	1.9
MW-2	09/06/2000	39,500	NA	4,490	3,290	2,100	14,000	18,500	9,060*	45.83	18.65	27.18	NA	3.5
MW-2	12/14/2000	209	NA	3.51	1.11	1.00	64.4	79.4	NA	45.83	19.00	26.83	NA	1.5
MW-2	03/05/2001	38,200	NA	2,010	927	1,250	8,300	13,100	15,400	45.83	16.66	29.17	NA	1.0
MW-2	06/11/2001	50,000	NA	4,400	2,200	1,800	11,000	NA	26,000	45.83	18.93	26.90	NA	1.7
MW-2	09/12/2001	59,000	NA	6,100	2,800	2,300	14,000	NA	21,000	45.83	19.85	25.98	NA	1.6
MW-2	12/27/2001	74,000	NA	8,600	2,500	2,500	17,000	NA	25,000	45.83	17.85	27.98	NA	2.6
MW-2	02/27/2002	70,000	NA	8,100	2,600	2,100	13,000	NA	32,000	45.79	17.15	28.64	NA	2.0
MW-2	06/18/2002	72,000	NA	9,500	3,000	2,200	13,000	NA	29,000	45.79	18.49	27.30	NA	0.6
MW-2	09/18/2002	48,000	NA	7,600	850	1,300	6,300	NA	8,700	45.79	19.95	25.84	NA	1.0

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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MW-2	12/27/2002	40,000	NA	5,900	1,200	1,400	7,800	NA	19,000	45.79	16.71	29.08	NA	1.0
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MW-3	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	27.97	24.00	NA	NA
MW-3	02/24/1992	4,500	1,300a	97	<5	78	18	NA	NA	51.97	25.60	26.37	NA	NA
MW-3	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	25.88	26.09	NA	NA
MW-3	03/01/1992	2,200	440	69	<0.5	<0.5	<0.5	NA	NA	51.97	26.00	25.97	NA	NA
MW-3	06/03/1992	4,100	NA	13	72	44	65	NA	NA	51.97	27.70	24.27	NA	NA
MW-3	09/01/1992	1,900	NA	20	6.8	5.5	<5	NA	NA	51.97	29.46	22.51	NA	NA
MW-3 (D)	09/01/1992	1,900	NA	21	6.6	3.4	<5	NA	NA	51.97	29.46	22.51	NA	NA
MW-3	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	30.01	21.96	NA	NA
MW-3	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	30.26	21.71	NA	NA
MW-3	12/04/1992	2,400	NA	8.2	<5	<5	<5	NA	NA	51.97	29.93	22.04	NA	NA
MW-3 (D)	12/04/1992	2,100	NA	11	<0.5	5.7	<0.5	NA	NA	51.97	29.93	22.04	NA	NA
MW-3	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	22.76	29.21	NA	NA
MW-3	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.40	30.57	NA	NA
MW-3	03/03/1993	5,100	NA	63	61	75	150	NA	NA	51.97	23.08	28.89	NA	NA
MW-3	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	24.51	27.46	NA	NA
MW-3	06/17/1993	4,000	NA	94	140	82	150	NA	NA	51.97	25.21	26.76	NA	NA
MW-3	09/10/1993	3,200	NA	140	12.5	12.5	12.5	NA	NA	51.97	26.95	25.02	NA	NA
MW-3	12/13/1993	6,200	NA	<12.5	<12.5	<12.5	<12.5	NA	NA	51.97	26.52	25.45	NA	NA
MW-3	03/03/1994	4,500	NA	73	<5	<5	<5	NA	NA	51.97	24.50	27.47	NA	NA
MW-3	06/06/1994	3,200	NA	<0.5	<0.5	3.1	<0.5	NA	NA	51.97	26.33	25.64	NA	NA
MW-3	09/12/1994	3,900	NA	<0.5	<0.5	9.6	4.1	NA	NA	51.97	27.98	23.99	NA	NA
MW-3	12/19/1994	2,400	NA	21	22	4.2	2.6	NA	NA	51.97	25.63	26.34	NA	NA
MW-3	02/28/1995	4,000	NA	58	<0.5	7.1	3.5	NA	NA	51.97	23.45	28.52	NA	NA
MW-3	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.07	30.90	NA	NA
MW-3	06/26/1995	3,900	NA	8.1	<0.5	12	2.4	NA	NA	51.97	23.64	28.33	NA	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-3	09/13/1995	4,100	NA	58	5.5	5.5	<0.5	NA	NA	51.97	25.40	26.57	NA	NA
MW-3	12/19/1995	3,600	NA	<0.5	4.3	2.1	1.1	NA	NA	51.97	24.53	27.44	NA	NA
MW-3	03/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.59	30.41	0.04	NA
MW-3	06/28/1996	2,400	NA	55	<0.5	<0.5	11	120	NA	51.97	23.95	28.02	NA	NA
MW-3	09/26/1996	2,500	NA	<5.0	<5.0	<5.0	<5.0	160	NA	51.97	25.89	26.08	NA	NA
MW-3	12/10/1996	1,600	NA	28	4.2	<2.0	3.9	110	NA	51.97	24.22	27.75	NA	0.8
MW-3	03/10/1997	130	NA	<0.50	<0.50	<0.50	1.4	4.2	NA	51.97	23.05	28.92	NA	2.8
MW-3	06/30/1997	1,200	NA	21	2.3	<2.0	<2.0	69	NA	51.97	24.34	27.63	NA	2.3
MW-3	09/12/1997	440	NA	8.3	0.82	<0.50	1.9	3.4	NA	51.97	24.47	27.50	NA	1.9
MW-3 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	51.97	23.54	28.43	NA	0.8
MW-3	02/02/1998	400	NA	9.3	0.68	<0.50	<0.50	9	NA	51.97	21.92	30.05	NA	1.5
MW-3	06/24/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	51.97	22.35	29.62	NA	1.9
MW-3	08/26/1998	140	NA	7.4	<0.50	<0.50	2.5	13	NA	51.97	23.45	28.52	NA	1.3
MW-3	12/23/1998	1,200	NA	50	<2.0	<2.0	<2.0	69	NA	51.97	24.01	27.96	NA	4.2
MW-3	03/01/1999	2,550	NA	<0.500	<0.500	<0.500	0.658	32.4	NA	51.97	22.08	29.89	NA	2.0
MW-3	06/14/1999	514	NA	18.1	0.728	<0.500	<0.500	15.9	NA	51.97	23.15	28.82	NA	1.7
MW-3	09/28/1999	1,180	NA	<1.00	<1.00	<1.00	<1.00	<10.0	NA	51.97	25.36	26.61	NA	1.2
MW-3	12/08/1999	1,740	NA	71.5	23.0	24.2	61.3	103	NA	51.97	25.75	26.22	NA	2.0
MW-3	03/14/2000	1,410	NA	5.63	35.6	<5.00	8.41	38.7	NA	51.97	21.64	30.33	NA	2.1
MW-3	06/28/2000	2,460	NA	<5.00	9.48	<5.00	28.4	64.0	NA	51.97	23.84	28.13	NA	2.87
MW-3	09/06/2000	887	NA	<1.00	<1.00	<1.00	<1.00	<10.0	NA	51.97	24.73	27.24	NA	2.0
MW-3	12/14/2000	955	NA	25.4	1.96	<0.500	1.13	10.2	NA	51.97	25.45	26.52	NA	2.1
MW-3	03/05/2001	2,100	NA	4.90	56.5	<2.00	3.62	261	NA	51.97	22.83	29.14	NA	0.8
MW-3	06/11/2001	2,000	NA	1.0	<0.50	<0.50	<0.50	NA	<0.50	51.97	25.20	26.77	NA	0.7
MW-3	09/12/2001	1,500	NA	0.50	0.54	<0.50	1.8	NA	<5.0	51.97	26.15	25.82	NA	1.5
MW-3	12/27/2001	2,100	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.97	23.67	28.30	NA	1.9
MW-3	02/27/2002	2,300	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.92	23.23	28.69	NA	1.5

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MW-3	06/18/2002	2,000	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	51.92	24.74	27.18	NA	2.0
MW-3	09/18/2002	2,600	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.92	26.05	25.87	NA	1.4
MW-3	12/27/2002	Well inaccessible		NA	NA	NA	NA	NA	NA	51.92	NA	NA	NA	NA
MW-4	03/24/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	9.16	31.35	NA	NA
MW-4	06/26/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	12.06	28.45	NA	NA
MW-4	09/13/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	13.90	26.61	NA	NA
MW-4	12/19/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	12.90	27.61	NA	NA
MW-4	03/06/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	9.63	30.88	NA	NA
MW-4	06/28/1996	40	NA	<0.5	0.59	0.97	3.8	26	NA	40.51	12.30	28.21	NA	NA
MW-4	09/26/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	40.51	14.12	26.39	NA	NA
MW-4	12/10/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	40.51	12.31	28.20	NA	1.2
MW-4	03/10/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.34	29.17	NA	NA
MW-4	06/30/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	13.80	26.71	NA	1.9
MW-4	09/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	13.99	26.52	NA	1.7
MW-4 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	40.51	12.02	28.49	NA	1.8
MW-4	02/02/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.23	29.28	NA	1
MW-4	06/24/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	10.58	29.93	NA	1.9
MW-4	08/26/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.75	28.76	NA	1.2
MW-4	12/23/1998	<50	NA	0.60	<0.50	<0.50	<0.50	<2.5	NA	40.51	12.41	28.10	NA	4.2
MW-4	03/01/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	40.51	10.38	30.13	NA	2.1
MW-4	06/14/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	11.91	28.60	NA	2.4
MW-4	09/28/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	40.51	10.19	30.32	NA	2.2
MW-4	12/08/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	10.67	29.84	NA	1.8
MW-4	03/14/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	9.95	30.56	NA	2.5
MW-4	06/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	40.51	12.22	28.29	NA	0.9
MW-4	09/06/2000	NA	NA	NA	NA	NA	NA	NA	NA	40.51	13.17	27.34	NA	3.0

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-4	12/14/2000	NA	NA	NA	NA	NA	NA	NA	NA	40.51	8.65	31.86	NA	NA
MW-4	03/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	40.51	11.07	29.44	NA	NA
MW-4	06/11/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	40.51	13.62	26.89	NA	1.3
MW-4	09/12/2001	NA	NA	NA	NA	NA	NA	NA	NA	40.51	14.61	25.90	NA	NA
MW-4	12/27/2001	NA	NA	NA	NA	NA	NA	NA	NA	40.51	12.19	28.32	NA	NA
MW-4	02/27/2002	NA	NA	NA	NA	NA	NA	NA	NA	40.45	11.64	28.81	NA	NA
MW-4	06/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	40.45	13.22	27.23	NA	0.6
MW-4	09/18/2002	NA	NA	NA	NA	NA	NA	NA	NA	40.45	14.46	25.99	NA	NA
MW-4	12/27/2002	NA	NA	NA	NA	NA	NA	NA	NA	40.45	11.23	29.22	NA	NA
MW-5	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	41.46	12.82	28.64	NA	NA
MW-5	02/27/2002	190	NA	<0.50	<0.50	0.85	1.5	NA	<5.0	41.46	12.85	28.61	NA	1.9
MW-5	06/18/2002	650	NA	1.4	3.0	52	28	NA	<0.50	41.46	13.65	27.81	NA	0.8
MW-5	09/18/2002	390	NA	0.72	0.51	<0.50	<0.50	NA	<5.0	41.46	15.57	25.89	NA	1.1
MW-5	12/27/2002	380	NA	<0.50	<0.50	0.56	<0.50	NA	<0.50	41.46	12.51	28.95	NA	1.9
MW-6	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	41.50	3.88	37.62	NA	NA
MW-6	01/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	41.50	12.43	29.07	NA	NA
MW-6	02/27/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	41.50	12.82	28.68	NA	4.1
MW-6	06/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	41.50	4.26	37.24	NA	3.9
MW-6	09/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	41.50	5.26	36.24	NA	4.2
MW-6	12/27/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	41.50	12.11	29.39	NA	3.0
MW-7	10/21/2002	NA	NA	NA	NA	NA	NA	NA	NA	44.45	18.90	25.55	NA	NA
MW-7	12/27/2002	49,000	NA	830	980	2,000	5,200	NA	<10	44.45	15.43	29.02	NA	2.1
MW-8	10/21/2002	NA	NA	NA	NA	NA	NA	NA	NA	43.27	17.70	25.57	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-8	12/27/2002	30,000	NA	280	220	2,000	5,300	NA	<10	43.27	14.25	29.02	NA	1.2

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 11, 2001, analyzed by EPA Method 8015.

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

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 11, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

Notes:

a = Chromatogram pattern indicates an unidentified hydrocarbon.

b = Samples not analyzed due to laboratory oversight.

* = Sample analyzed out of EPA recommended hold time.

Site surveyed January 23, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

Survey data for wells MW-7 and MW-8 provided by Cambria Environmental Technology.



Report Number : 30651

Date : 1/6/2003

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

Subject : 6 Water Samples
Project Name : 1784 150th Ave., San Leandro
Project Number : 021227-MW1
P.O. Number : 98996068

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



Report Number : 30651

Date : 1/6/2003

Subject : 6 Water Samples
Project Name : 1784 150th Ave., San Leandro
Project Number : 021227-MW1
P.O. Number : 98996068

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples MW-1, MW-8, MW-7, MW-2 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample. Matrix Spike/Matrix Spike Duplicate Results associated with sample MW-6 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By:  _____
Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 916-297-4800



Report Number : 30651

Date : 1/6/2003

Project Name : 1784 150th Ave., San Leandro

Project Number : 021227-MW1

Sample : MW-1

Matrix : Water

Lab Number : 30651-01

Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1200	5.0	ug/L	EPA 8260B	1/3/2003
Toluene	30	5.0	ug/L	EPA 8260B	1/3/2003
Ethylbenzene	120	5.0	ug/L	EPA 8260B	1/3/2003
Total Xylenes	410	5.0	ug/L	EPA 8260B	1/3/2003
Methyl-t-butyl ether (MTBE)	230	5.0	ug/L	EPA 8260B	1/3/2003
Diisopropyl ether (DIPE)	< 5.0	5.0	ug/L	EPA 8260B	1/3/2003
Ethyl-t-butyl ether (ETBE)	< 5.0	5.0	ug/L	EPA 8260B	1/3/2003
Tert-amyl methyl ether (TAME)	< 5.0	5.0	ug/L	EPA 8260B	1/3/2003
Tert-Butanol	310	50	ug/L	EPA 8260B	1/3/2003
TPH as Gasoline	7500	500	ug/L	EPA 8260B	1/3/2003
1,2-Dichloroethane	31	5.0	ug/L	EPA 8260B	1/3/2003
1,2-Dibromoethane	< 5.0	5.0	ug/L	EPA 8260B	1/3/2003
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	1/3/2003
4-Bromofluorobenzene (Surr)	109		% Recovery	EPA 8260B	1/3/2003
Dibromofluoromethane (Surr)	106		% Recovery	EPA 8260B	1/3/2003
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	1/3/2003

Approved By:  Joel Kiff



Report Number : 30651

Date : 1/6/2003

Project Name : 1784 150th Ave., San Leandro

Project Number : 021227-MW1

Sample : MW-2

Matrix : Water

Lab Number : 30651-02

Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	5900	50	ug/L	EPA 8260B	1/3/2003
Toluene	1200	50	ug/L	EPA 8260B	1/3/2003
Ethylbenzene	1400	50	ug/L	EPA 8260B	1/3/2003
Total Xylenes	7800	50	ug/L	EPA 8260B	1/3/2003
Methyl-t-butyl ether (MTBE)	19000	50	ug/L	EPA 8260B	1/3/2003
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	1/3/2003
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	1/3/2003
Tert-amyl methyl ether (TAME)	55	50	ug/L	EPA 8260B	1/3/2003
Tert-Butanol	10000	500	ug/L	EPA 8260B	1/3/2003
TPH as Gasoline	40000	5000	ug/L	EPA 8260B	1/3/2003
1,2-Dichloroethane	< 50	50	ug/L	EPA 8260B	1/3/2003
1,2-Dibromoethane	< 50	50	ug/L	EPA 8260B	1/3/2003
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	1/3/2003
4-Bromofluorobenzene (Surr)	111		% Recovery	EPA 8260B	1/3/2003
Dibromofluoromethane (Surr)	108		% Recovery	EPA 8260B	1/3/2003
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	1/3/2003

Approved By:  Joel Kiff



Report Number : 30651

Date : 1/6/2003

Project Name : 1784 150th Ave., San Leandro

Project Number : 021227-MW1

Sample : MW-5

Matrix : Water

Lab Number : 30651-03

Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	0.56	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	380	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	112		% Recovery	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	111		% Recovery	EPA 8260B	12/31/2002

Approved By:  Joel Kiff



Report Number : 30651

Date : 1/6/2003

Project Name : 1784 150th Ave., San Leandro

Project Number : 021227-MW1

Sample : MW-6

Matrix : Water

Lab Number : 30651-04

Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	94.1		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	92.9		% Recovery	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	110		% Recovery	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	12/31/2002

Approved By:  Joel Kiff



Report Number : 30651

Date : 1/6/2003

Project Name : 1784 150th Ave., San Leandro

Project Number : 021227-MW1

Sample : MW-7

Matrix : Water

Lab Number : 30651-05

Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	830	10	ug/L	EPA 8260B	1/3/2003
Toluene	980	10	ug/L	EPA 8260B	1/3/2003
Ethylbenzene	2000	10	ug/L	EPA 8260B	1/3/2003
Total Xylenes	5200	10	ug/L	EPA 8260B	1/3/2003
Methyl-t-butyl ether (MTBE)	< 10	10	ug/L	EPA 8260B	1/3/2003
Diisopropyl ether (DIPE)	< 10	10	ug/L	EPA 8260B	1/3/2003
Ethyl-t-butyl ether (ETBE)	< 10	10	ug/L	EPA 8260B	1/3/2003
Tert-amyl methyl ether (TAME)	< 10	10	ug/L	EPA 8260B	1/3/2003
Tert-Butanol	< 100	100	ug/L	EPA 8260B	1/3/2003
TPH as Gasoline	49000	1000	ug/L	EPA 8260B	1/3/2003
1,2-Dichloroethane	< 10	10	ug/L	EPA 8260B	1/3/2003
1,2-Dibromoethane	< 10	10	ug/L	EPA 8260B	1/3/2003
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	1/3/2003
4-Bromofluorobenzene (Surr)	111		% Recovery	EPA 8260B	1/3/2003
Dibromofluoromethane (Surr)	105		% Recovery	EPA 8260B	1/3/2003
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	1/3/2003

Approved By:  Joel Kiff



Report Number : 30651

Date : 1/6/2003

Project Name : 1784 150th Ave., San Leandro

Project Number : 021227-MW1

Sample : MW-8

Matrix : Water

Lab Number : 30651-06

Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	280	10	ug/L	EPA 8260B	1/3/2003
Toluene	220	10	ug/L	EPA 8260B	1/3/2003
Ethylbenzene	2000	10	ug/L	EPA 8260B	1/3/2003
Total Xylenes	5300	10	ug/L	EPA 8260B	1/3/2003
Methyl-t-butyl ether (MTBE)	< 10	10	ug/L	EPA 8260B	1/3/2003
Diisopropyl ether (DIPE)	< 10	10	ug/L	EPA 8260B	1/3/2003
Ethyl-t-butyl ether (ETBE)	< 10	10	ug/L	EPA 8260B	1/3/2003
Tert-amyl methyl ether (TAME)	< 10	10	ug/L	EPA 8260B	1/3/2003
Tert-Butanol	< 100	100	ug/L	EPA 8260B	1/3/2003
TPH as Gasoline	30000	1000	ug/L	EPA 8260B	1/3/2003
1,2-Dichloroethane	< 10	10	ug/L	EPA 8260B	1/3/2003
1,2-Dibromoethane	< 10	10	ug/L	EPA 8260B	1/3/2003
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	1/3/2003
4-Bromofluorobenzene (Surr)	109		% Recovery	EPA 8260B	1/3/2003
Dibromofluoromethane (Surr)	104		% Recovery	EPA 8260B	1/3/2003
1,2-Dichloroethane-d4 (Surr)	98.6		% Recovery	EPA 8260B	1/3/2003

Approved By:  Joel Kiff

QC Report : Method Blank Data

Project Name : 1784 150th Ave., San Leandro

Project Number : 021227-MW1

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/2/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/2/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/2/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/2/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/2/2003
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	1/2/2003
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	1/2/2003
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	1/2/2003
Tert-Butanol	< 50	50	ug/L	EPA 8260B	1/2/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/2/2003
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	1/2/2003
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	1/2/2003
Toluene - d8 (Surr)	93.3		%	EPA 8260B	1/2/2003
4-Bromofluorobenzene (Surr)	114		%	EPA 8260B	1/2/2003
Dibromofluoromethane (Surr)	106		%	EPA 8260B	1/2/2003
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	1/2/2003

Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/30/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/30/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Toluene - d8 (Surr)	95.2		%	EPA 8260B	12/30/2002
4-Bromofluorobenzene (Surr)	94.1		%	EPA 8260B	12/30/2002
Dibromofluoromethane (Surr)	109		%	EPA 8260B	12/30/2002
1,2-Dichloroethane-d4 (Surr)	105		%	EPA 8260B	12/30/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	94.3		%	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	92.9		%	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	110		%	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	106		%	EPA 8260B	12/31/2002

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis, CA 95616 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 1784 150th Ave., San

Project Number : 021227-MW1

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	30653-02	<0.50	198	198	214	213	ug/L	EPA 8260B	1/3/03	108	108	0.464	70-130	25
Toluene	30653-02	<0.50	198	198	187	188	ug/L	EPA 8260B	1/3/03	94.2	95.2	1.00	70-130	25
Tert-Butanol	30653-02	19	990	990	944	956	ug/L	EPA 8260B	1/3/03	93.5	94.7	1.26	70-130	25
Methyl-t-Butyl Ether	30653-02	640	198	198	761	794	ug/L	EPA 8260B	1/3/03	60.7	77.7	24.6	70-130	25
Benzene	30597-05	82	40.0	40.0	120	116	ug/L	EPA 8260B	12/30/02	93.2	85.6	8.56	70-130	25
Toluene	30597-05	0.55	40.0	40.0	41.0	40.0	ug/L	EPA 8260B	12/30/02	101	98.7	2.52	70-130	25
Tert-Butanol	30597-05	140	200	200	345	331	ug/L	EPA 8260B	12/30/02	104	96.8	7.04	70-130	25
Methyl-t-Butyl Ether	30597-05	330	40.0	40.0	379	385	ug/L	EPA 8260B	12/30/02	129	143	10.8	70-130	25
Benzene	30660-01	<0.50	40.0	40.0	42.2	40.6	ug/L	EPA 8260B	12/31/02	106	101	4.03	70-130	25
Toluene	30660-01	<0.50	40.0	40.0	40.9	39.0	ug/L	EPA 8260B	12/31/02	102	97.5	4.68	70-130	25
Tert-Butanol	30660-01	<5.0	200	200	199	195	ug/L	EPA 8260B	12/31/02	99.6	97.5	2.07	70-130	25
Methyl-t-Butyl Ether	30660-01	1.2	40.0	40.0	40.6	39.1	ug/L	EPA 8260B	12/31/02	98.4	94.8	3.72	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : 1784 150th Ave., San

Project Number : 021227-MW1

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	1/2/03	105	70-130
Toluene	40.0	ug/L	EPA 8260B	1/2/03	93.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/2/03	91.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/2/03	101	70-130
Benzene	40.0	ug/L	EPA 8260B	12/30/02	105	70-130
Toluene	40.0	ug/L	EPA 8260B	12/30/02	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/30/02	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/30/02	95.5	70-130
Benzene	40.0	ug/L	EPA 8260B	12/31/02	94.4	70-130
Toluene	40.0	ug/L	EPA 8260B	12/31/02	92.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/31/02	89.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/31/02	85.0	70-130

KIFF ANALYTICAL, LLC

Approved By:  _____
Joel Kiff

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

Karen Petryna

30651

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 6 0 6 8

SAP or CRMT NUMBER (TS/CRMT)

DATE: 12/27/02

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services		LOG CODE: BTSS	SITE ADDRESS (Street and City): 1784 150th Ave., San Leandro		GLOBAL ID NO.: T0600101230
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112			EDF DELIVERABLE TO (Responsible Party or Designer): Anni Kream	PHONE NO.: (510) 420-3335	E-MAIL: ShellOaklandEDF@cambria-env.com
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart			CONSULTANT PROJECT NO.: BTS # 021227-MW		LAB USE ONLY
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com	SAMPLER NAME(S) (PIN): Michael Ninoskata		

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

TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EOB & 1,2-DCA (8260B)	TPH - Diesel, Extractable (8015m)	LAB USE ONLY	MTBE (8260B) Confirmation, See Note
X	X	X	X	X			X			
X	X	X	X	X			X			
X	X	X	X	X			X			
X	X	X	X	X			X			
X	X	X	X	X			X			
X	X	X	X	X			X			

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

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
	MW-1	12/17/02	1010	W	3
	MW-2		1033		
	MW-5		945		
	MW-6		825		
	MW-7		901		
	MW-8		925		

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 12/30/02	Time: 1112
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) <i>John Cutler K Analytical</i>	Date: 12/30/02	Time: 1112

WELL GAUGING DATA

Project # 021227-MW1 Date 12/27/02 Client Shell

Site 1784 150th, San Leandro

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					20.10	44.40	
MW-2	4	Gauge w/ string in well				16.71	44.68	
MW-3	4	Car parked over well				---	41.50	
MW-4	2					11.23	24.90	
MW-5	2					12.51	24.80	
MW-6	2					12.11	19.80	
MW-7	2					15.43	26.95	
MW-8	2					14.25	24.19	
* All caps opened 15 min prior to gauge *								

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-MN1	Site: 98996068
Sampler: MN	Date: 12/27/02
Well I.D.: MN-1	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): 4440	Depth to Water (DTW): 20.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 24.96	

Purge Method: <input type="checkbox"/> Bailor <input type="checkbox"/> Disposable Bailor <input type="checkbox"/> Middleburg <input checked="" type="checkbox"/> Electric Submersible	Water: <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Disposable Bailor <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other: _____
--	---	--

16.0 (Gals.) X 3 = 48.0 Gals.
 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>(µS)</u>)	Turbidity (NTUs)	Gals. Removed	Observations
958	65.9	7.1	1711	9	16.0	clear, strong HC odor
1201	66.8	6.7	1759	2	32.0	clear, strong HC odor
1004	66.6	6.7	1777	2	48.0	clear, strong HC odor
						- Well keeps up
			* Light Sheen observed on samples *			

Did well dewater? Yes (No) Gallons actually evacuated: 48.0

Sampling Date: 12/27/02 Sampling Time: 1010 Depth to Water: 22.99

Sample I.D.: MN-1 Laboratory: (Rif) SPL Other: _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: Oxy's, EDB, 1,2 DCA (8240)

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

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	<u>1.6</u> mg/L
	O.R.P. (if req'd):	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-MN1	Site: 98996068
Sampler: MON	Date: 12/27/02
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 44.68	Depth to Water (DTW): 16.71
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.31	

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

18.0 (Gals.) X 3 = 54.0 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multplier	Well Diameter	Multplier
1"	0.01	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1020	67.6	7.0	882	11	18.0	clear, strong HC odor
1024	67.8	6.7	1099	4	36.0	clear, strong HC odor
1028	67.8	6.7	1193	8	54.0	clear, strong HC odor
						DTW = 26.92
						~ Fast Recharge

Did well dewater? Yes No Gallons actually evacuated: 54.0

Sampling Date: 12/27/02 Sampling Time: 1033 Depth to Water: 22.20

Sample I.D.: MW-2 Laboratory: Riff SPL Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXY'S, EDB, 1,2 DCA (8260)

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: 1.0 mg/L

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

SHELL WELL MONITORING DATA SHEET

BTS #: 02-1227-MN1	Site: 98996068
Sampler: MON	Date: 12/27/02
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 430	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible	Waters Peristaltic Extraction Pump Other:	Sampling Method: *Bailer Disposable Bailer Extraction Port Dedicated Tubing Other:
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(Gals.) X <u>3</u> = _____ Gals. Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius 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	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
						Car parked over well
						No Gauge / Sample

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 12/27/02 Sampling Time: Depth to Water:

Sample I.D.: MW-3 Laboratory: KIT SPL Other:

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXY'S, EDB, 1,2 DCA (8260)

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

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-MW1	Site: 98996068
Sampler: MON	Date: 12/27/02
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 24.80	Depth to Water (DTW): 12.51
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.97	

Purge Method: <input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Disposable Bailor <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible	Water: <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Disposable Bailor <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other: _____
--	---	--

2.0 (Gals.) X	3	= 6.0 Gals.
I Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (S))	Turbidity (NTUs)	Gals. Removed	Observations
935	67.1	7.4	1625	7200	2.0	Light Brown, Cloudy
938	66.8	7.4	1566	7200	4.0	Light Brown, Cloudy
941	66.9	7.5	1464	7200	6.0	Light Brown, Cloudy
						- Well keeps up -

Did well dewater? Yes No Gallons actually evacuated: 6.0

Sampling Date: 12/27/02 Sampling Time: 945 Depth to Water: 13.39

Sample I.D.: MW-5 Laboratory: (Kitt) SPL Other: _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: (DXY'S) (EDB) (1,2 DCA) (82-60)

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

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

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 1.9 mg/L

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

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-MN1	Site: 98996068
Sampler: MON	Date: 12/27/02
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 19.80	Depth to Water (DTW): 17.61 12.11
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.65	

Purge Method: Bailor Water Sampling Method: Bailor

Disposable Bailor Peristaltic Disposable Bailor
 Middleburg Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

$1.2 \text{ (Gals.)} \times 3 = 3.6 \text{ Gals.}$ <p>Case Volume Specified Volumes Calculated Volume</p>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <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>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius 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	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or (S))	Turbidity (NTUs)	Gals. Removed	Observations
7:15	59.1	6.2	582	7200	1.2	Brown, cloudy
8:17	59.9	6.2	568	7200	2.4	Brown, cloudy
8:19	59.1	6.4	564	7200	3.6	Brown, cloudy
						- well keeps up -

Did well dewater? Yes No Gallons actually evacuated: 3.6

Sampling Date: 12/27/02 Sampling Time: 8:25 Depth to Water: 12.70

Sample I.D.: MW-6 Laboratory: (KITT) SPL Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: Oxy's, EDB, 1,2 DCA (8260)

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: 3.0 mg/L

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

SHELL WELL MONITORING DATA SHEET

BTS #: 02-1227-MN1	Site: 98996068
Sampler: MON	Date: 12/27/02
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 26.95	Depth to Water (DTW): 15.43
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.74	

Purge Method: Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible

Water: Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other: _____

1.8 (Gals.) X 3 = 5.4 Gals.
 Case Volume Specified Volume Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
850	67.5	6.6	3698	2700	1.8	Grey, cloudy, HC odor
853	67.6	6.6	3638	2700	3.6	Grey, cloudy, HC odor
856	67.5	6.6	3553	2200	5.4	Grey, cloudy HC Light odor, streak

Did well dewater? Yes No Gallons actually evacuated: 5.4

Sampling Date: 12/27/02 Sampling Time: 901 Depth to Water: 17.42

Sample I.D.: MW-7 Laboratory: (Riff) SPL Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: OXY'S, EDB, 1,2 DCA (8260)

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

SHELL WELL MONITORING DATA SHEET

BTS #: 02-1227-MW1	Site: 98996068
Sampler: MDN	Date: 12/27/02
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 24.19	Depth to Water (DTW): 14.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.24	

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

$1.6 \text{ (Gals.)} \times 3 = 4.8 \text{ Gals.}$ Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multplier</th> <th>Well Diameter</th> <th>Multplier</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>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multplier	Well Diameter	Multplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multplier	Well Diameter	Multplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
9:15	66.8	7.0	1633	7700	1.6	Light cloudy HC grey, odor
9:17	67.0	6.8	1598	7200	3.2	Light cloudy HC grey, odor
9:19	66.9	6.7	1618	7700	4.8	Light grey cloudy HC, odor
						Fast recharge

Did well dewater? Yes No Gallons actually evacuated: 4.8

Sampling Date: 12/27/02 Sampling Time: 9:25 Depth to Water: 16.20

Sample I.D.: MW-8 Laboratory: (Kiff) SPL Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: Dxy's, EDB, 1,2 DCA (8260)

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:	mB/l	Post-purge:	1.2	mB/l
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

WELL GAUGING DATA

Project # 021021-SS2 Date 10/21/02 Client EQURVA

Site 1784 150th St. SAN LEANDRO CA.

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-7	2					16.90	26.85	↓	
MW-8	2					17.70	24.10	↓	

WELL DEVELOPMENT DATA SHEET

Project #: <u>021021-552</u>	Client: <u>EQUVA</u>
Developer: <u>SOOCH</u>	Date Developed: <u>10/21/02</u>
Well I.D. <u>MW-7</u>	Well Diameter: (circle one) <u>(2)</u> 3 4 6
Total Well Depth: Before <u>26.85</u> After <u>26.85</u>	Depth to Water: Before <u>18.90</u> After <u>22.00</u>
Reason not developed:	If Free Product, thickness:
Additional Notations: <u>GURGED WELL FOR 15 MIN PRIOR TO PURGE.</u>	

Volume Conversion Factor (VCF):
 $(12 \times (d^2/4) \times \pi) / 231$
 where
 $12 = \text{in / foot}$
 $d = \text{diameter (in.)}$
 $\pi = 3.1416$
 $231 = \text{in}^3/\text{gal}$

Well dia.	VCF
2" =	0.16
3" =	0.37
4" =	0.65
6" =	1.47
10" =	4.08
12" =	6.87

<u>1.3</u>	X	<u>10</u>	=	<u>13</u>
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer Electric Submersible
 Middleburg Suction Pump

Type of Installed Pump _____
 Other equipment used 2" SUBGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or μS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1421	70.0	6.7	4131	>200	1.3	GAS ODOOR / SWTY / LIGHT SHEEN
1423	68.9	6.7	4001	>200	2.6	" "
GENERATOR OVERLOADED, STOPPED PURGING.						
1434	68.2	6.7	3660	>200	3.9	" "
1437	68.2	6.6	3550	>200	5.2	" "
1440	68.2	6.6	3497	>200	6.5	CLOUDY / GAS ODOOR
1443	68.4	6.6	3467	>200	7.8	HARD BOTTOM
1445	68.3	6.6	3454	>200	9.1	CLOUDY GREY
1447	68.3	6.7	3435	>200	10.4	CLOUDY
1450	68.4	6.6	3422	>200	11.7	"
1452	68.4	6.7	3400	>200	13.0	"

Did Well Dewater? <u>N</u>	If yes, note above.	Gallons Actually Evacuated: <u>13</u>
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Equva

WELL DEVELOPMENT DATA SHEET

Project #: <u>021021-552</u>	Client: <u>Equiva</u>
Developer: <u>Sooch</u>	Date Developed: <u>10/21/02</u>
Well I.D. <u>MW 8</u>	Well Diameter: (circle one) <u>(2)</u> 3 4 6
Total Well Depth: Before <u>24.10</u> After <u>24.10</u>	Depth to Water: Before <u>17.70</u> After <u>21.45</u>
Reason not developed:	If Free Product, thickness:
Additional Notations: <u>SURGED WEL FOR 15 MIN. PRIOR TO PURGE.</u>	

Volume Conversion Factor (VCF):

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

where

12 = in / foot

d = diameter (in.)

$\pi = 3.1416$

231 = in³/gal

Well dia.

2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

VCF

<u>1</u>	X	<u>10</u>	=	<u>10</u>
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer Electric Submersible
 Middleburg Suction Pump

Type of Installed Pump _____

Other equipment used 2" SURGE BLOCK

60% RECHARGE = 18.98'

TIME	TEMP (F)	pH	Cond. (mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1515	70.3	6.9	2730	>200	1	GREY, SILTY, GAS ODDOR
1517	68.9	7.0	2684	>200	2	" " "
1519	68.0	6.9	2535	>200	3	HARD BOTTOM / LIGHT SKEED
1521	67.7	6.9	2433	>200	4	GREY, CLOUDY, ODDOR
1523	67.6	6.9	2294	>200	5	" " "
1525	67.4	6.9	2001	>200	6	" " "
WEL DEWATERED @ 6 gal.						DW = 21.95
* SURGED WEL FOR 10 MIN. PRIOR TO RESTARTING PURGE.						
1600	66.5	6.8	1910	>200	7	GREY, CLOUDY, ODDOR
1602	66.9	6.7	1884	>200	8	" " "
1604	66.9	6.7	1955	>200	9	" " "
1606	66.9	6.7	2043	>200	10	" " "
Did Well Dewater? <u>Y</u>						If yes, note above.
						Gallons Actually Evacuated: <u>10</u>