



Shell Oil Products US

December 3, 2003

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

Alameda County
DEC 05 2003
Environmental Health

Subject: **Shell-branded Service Station**
 610 Market Street
 Oakland, California

Dear Mr. Chan:

Attached for your review and comment is a copy of the *Third Quarter 2003 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

Karen Petryna
Sr. Environmental Engineer

C A M B R I A

December 3, 2003

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

Re: **Third Quarter 2003 Monitoring Report**
Shell-branded Service Station
610 Market Street
Oakland, California
Incident #99895750
Cambria Project #245-0594-002



Dear Mr. Chan:

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

REMEDIATION SUMMARY

Mobile Dual-Phase Vacuum Extraction Treatment (DVE): From March to October 2000, Cambria coordinated mobile DVE from wells MW-2 and MW-3. Mobile DVE utilized a vacuum truck for extraction and off-hauling of groundwater. Carbon absorption vessels were used to abate extracted vapors. DVE was discontinued in October 2000 due to low groundwater-extraction volumes.

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 as the extraction and abatement device.

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 test was conducted using an internal combustion engine as the extraction and abatement device.

Cambria
Environmental
Technology, Inc.

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

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. Beginning in January 2002, well MW-2 was added to the weekly GWE schedule at the site. Mobile GWE was discontinued on January 8, 2003 in anticipation of starting the GWE system.

GWE System: As recommended in the August 19, 2002 *Interim Remedial Action Plan*, a GWE system was installed to address the elevated methyl tertiary butyl ether (MTBE) concentrations detected in groundwater beneath the site. The GWE system was started on February 18, 2003.

The following table summarizes the estimated total petroleum hydrocarbon as gasoline (TPHg), benzene, and MTBE mass removed by application of the remedial methods discussed:

Table A - Mass Removal Summary

Method	Period	TPHg (pounds)		Benzene (pounds)		MTBE (pounds)	
		Vapor-phase	Dissolved-phase	Vapor-phase	Dissolved-phase	Vapor-phase	Dissolved-phase
Mobile DVE	03/15/00 – 10/27/00	35.1	0.537	1.49	0.024	5.03	10.6
DVE/SVE Test	03/22/01	1.96	0.032	0.009	0	2.08	1.25
SVE Test	10/08/01 – 10/12/01	15.8	NA	1.33	NA	35.9	NA
Mobile GWE	03/22/01 – 01/28/03	NA	2.84	NA	0.063	NA	60.0
GWE System	02/18/03 – 11/06/03	NA	43.6	NA	0.331	NA	125.1
Subtotal (per phase)		52.9	47.0	2.83	0.418	43.0	197
Total Mass Removed		99.9 pounds		3.25 pounds		240 pounds	

THIRD QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, 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.

Remedial Activities: Cambria started operation of the fixed GWE system on February 18, 2003. Wells MW-2, MW-3, MW-6, MW-7, and MW-8 are used as extraction wells. System analytical data are summarized in Table 1. Groundwater level measurements and flow meter readings have been recorded at various times of operation to assess system production. Table 2 summarizes the field data and system operation and calculates mass removal. Based on the field data, the GWE system operated at an average flow rate of approximately 2.21 gallons per minute.

As of November 19, 2003, a total of 810,123 gallons of groundwater has been extracted. A total of 43.6 pounds of TPHg, 0.331 pounds of benzene, and 125.1 pounds of MTBE has been recovered. Mass removal data are presented in Table 2.

ANTICIPATED FOURTH QUARTER 2003 ACTIVITIES

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

Remedial Activities: Per Cambria's standard operating procedures and East Bay Municipal Utilities District (EBMUD) treatment system monitoring requirements, Cambria will perform routine operation and maintenance of the GWE system. Cambria will monitor concentration trends and GWE system effectiveness. Cambria will prepare a quarterly discharge compliance report in accordance with the EBMUD wastewater discharge permit.

C A M B R I A

Mr. Barney Chan
December 3, 2003

CLOSING

We appreciate the opportunity to work with you on this project. Please call Dan Lescure at (510) 420-3306 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



Dan Lescure
Senior Project Engineer

Matthew W. Derby
for

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



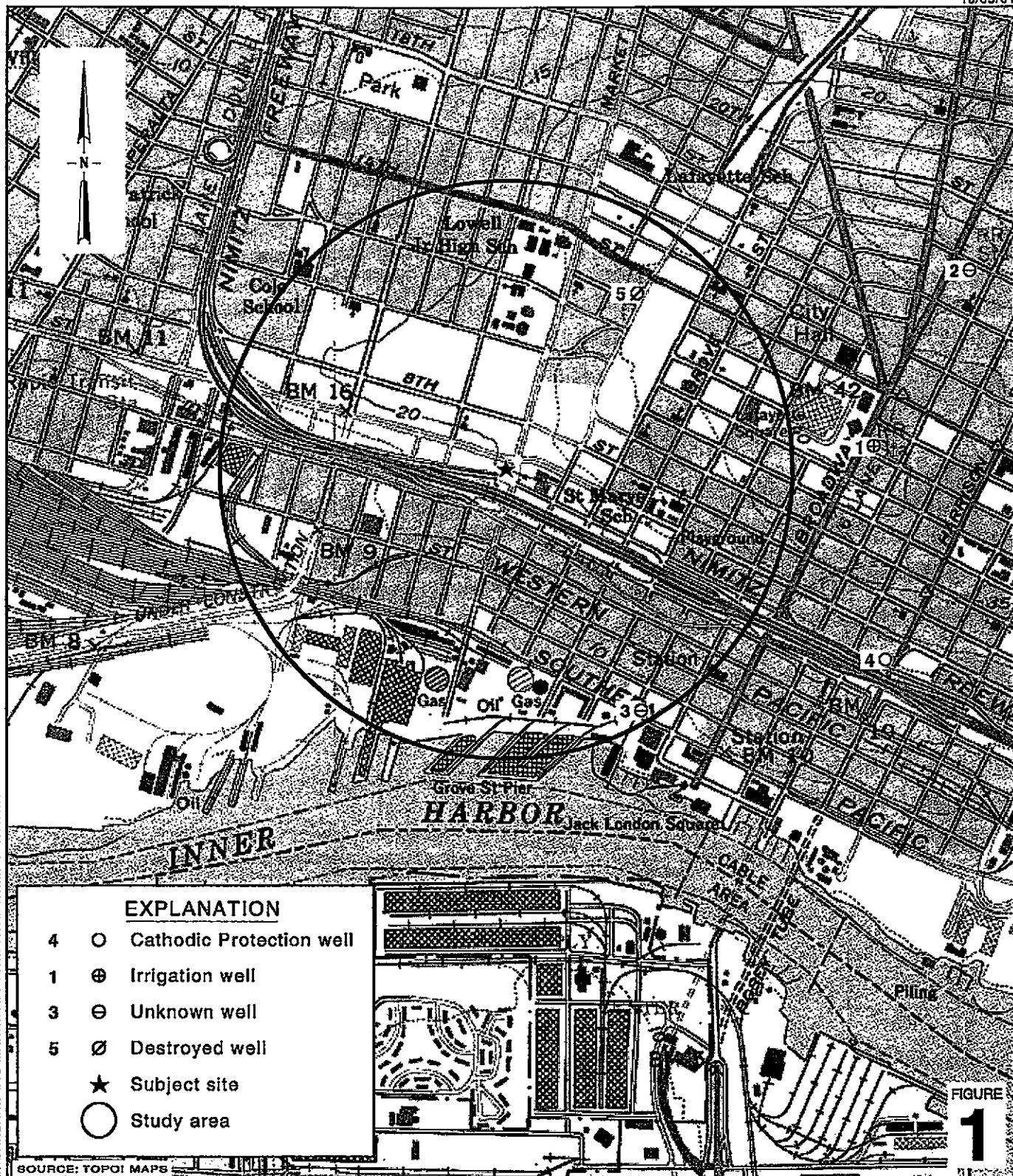
Figures: 1 - Vicinity/Area Well Survey Map
 2 - Groundwater Elevation Contour Map

Tables: 1 - Groundwater Extraction – System Analytical Data
 2 - Groundwater Extraction – Operation and 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
 Virginia R. Rawson, Tr., 1860 Tice Creek Drive #1353, Walnut Creek, CA 94595
 Roger Schmidt, 1224 Contra Costa Dr., El Cerrito, CA 94530

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


C A M B R I A

Vicinity / Area Well Survey Map
1/2 Mile Radius

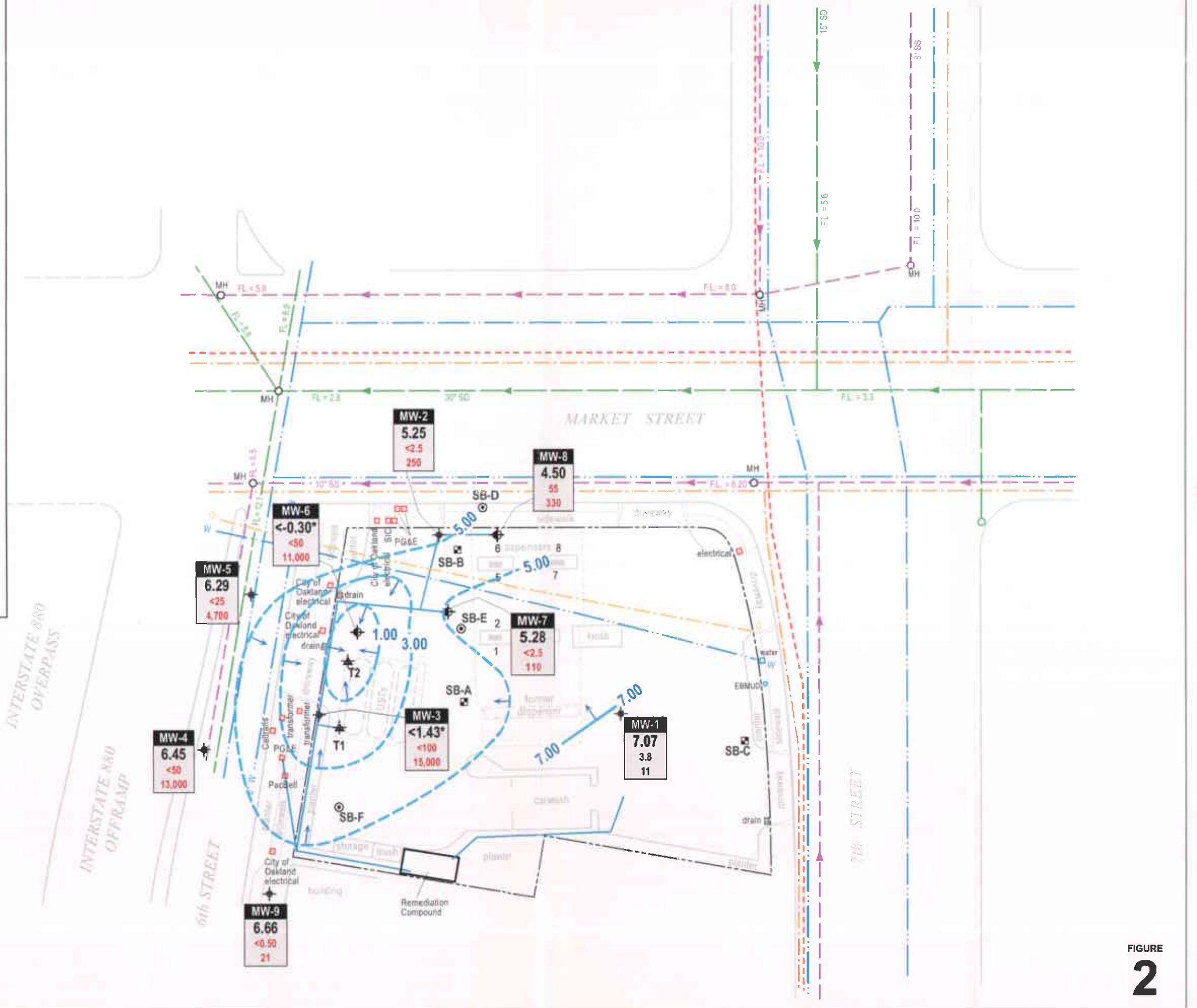
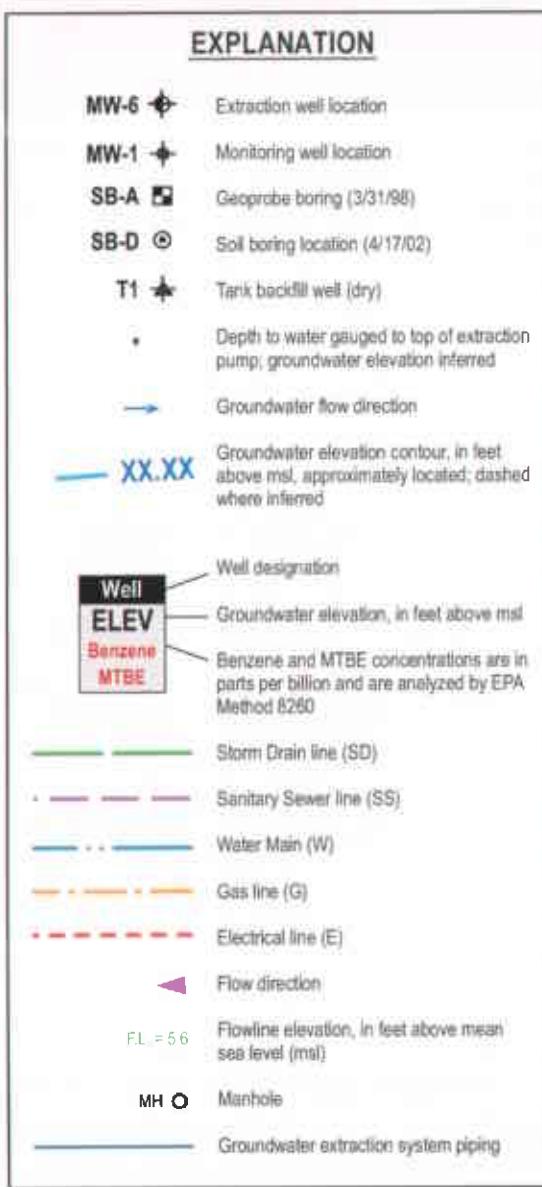


FIGURE
2

Shell-branded Service Station
610 Market Street
Oakland, California
Incident #989995750

Groundwater Elevation Contour Map
September 26, 2003

CAMBRIA

Table 1: Groundwater Extraction - System Analytical Data - Shell-branded Service Station, Incident #98995750, 610 Market St, Oakland, California

Sample Date (mm/dd/yy)	Influent			Midfluent 1			Midfluent 2			Effluent		
	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)									
02/18/2003	<20,000	270	93,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
02/25/2003	<20,000	<200	74,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
03/11/2003	<10,000	<100	47,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
03/25/2003	<10,000	<100	38,000	<250	<2.5	<25	<50	<0.50	<5.0	<50	<0.50	<5.0
04/07/2003	30,000	<250	33,000	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
04/22/2003	<25,000	<250	26,000	<50	<0.50	2.6	<50	<0.50	<0.50	<50	<0.50	<0.50
05/01/2003	<10,000	<100	25,000	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
05/20/2003	<10,000	<100	17,000	<500	<5.0	610	640	<0.50	<0.5	<50	<0.50	<0.5
06/03/2003	<10,000	<100	15,000	<5,000	<50	4000	<50	<0.50	<0.5	<50	<0.50	<0.5
06/17/2003	<10,000	<100	17,000	<25,000	<250	16,000	<50	<0.50	<5.0	<50	<0.50	<5.0
07/28/2003	<5,000	<50	7,100	<250	<2.5	420	<50	<0.50	<0.50	<50	<0.50	<0.50
08/11/2003	<2,500	<25	4,900	<250	<2.5	280	<50	<0.50	<0.50	<50	<0.50	<0.50
08/28/2003	<2,500	<25	7,700	<100	<1.0	260	<50	<0.50	<0.50	<50	<0.50	<0.50
09/08/2003	<2,500	<25	6,600	<50	<0.50	140	<50	<0.50	<0.50	<50	<0.50	<0.50
09/22/2003	<5,000	<50	5,700	<250	<2.5	230	<50	<0.50	<0.50	<50	<0.50	<0.50
10/08/2003	<2,500	<25	3,100	<50	<0.50	140	<50	<0.50	<0.50	<50	<0.50	<0.50
10/21/2003	<5,000	<50	3,800	<250	<2.5	180	<50	<0.50	<0.50	<50	<0.50	<0.50
11/06/2003	<1,000	<10	3,500	<50	<0.50	150	<50	<0.50	<0.50	<50	<0.50	<0.50

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Conc. = Concentration

ppb = parts per billion, equivalent to µg/l

CAMBRIA

Table 1: Groundwater Extraction - System Analytical Data - Shell-branded Service Station, Incident #98995750, 610 Market St, Oakland, California

Sample Date (mm/dd/yy)	Influent			Midfluent 1			Midfluent 2			Effluent		
	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)									
TPHg, benzene, and MTBE analyzed by EPA Method 8260B												

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

Site Visit (mm/dd/yy)	Hour Meter (hours)	Flow Meter Reading (gal)	Period			TPHg			Benzene			MTBE		
			Period Volume (gal)	Operational Flow Rate (gpm)	Cumulative Volume (gal)	TPHg Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	Benzene Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	MTBE Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)
02/18/03	0.0	100	0	0.00	0	<20,000	0.00000	0.00000	270	0.00000	0.00000	93,000	0.00000	0.00000
02/18/03	3.5	1,024	924	4.40	924		0.07710	0.07710		0.00208	0.00208		0.71705	0.71705
02/25/03	140.2	30,312	29,288	3.57	30,212	<20,000	2.44390	2.52100	<200	0.02444	0.02652	74,000	18.08482	18.80187
03/11/03	475.8	84,666	54,354	2.70	84,566	<10,000	2.26775	4.78874	<100	0.02268	0.04920	47,000	21.31681	40.11868
03/13/03	524.0	92,030	7,364	2.55	91,930		0.30724	5.09598		0.00307	0.05227		2.88805	43.00673
03/25/03	527.0	92,840	810	4.50	92,740	<10,000	0.03379	5.12978	<100	0.00034	0.05261	38,000	0.25684	43.26357
04/07/03	838.6	142,754	49,914	2.67	142,654	30,000	12.49501	17.62478	<250	0.05206	0.10467	33,000	13.74451	57.00807
04/14/03	985.4	165,205	22,451	2.55	165,105		5.62017	23.24496		0.02342	0.12809		6.18219	63.19027
04/22/03	1,184.1	197,360	32,155	2.70	197,260	<25,000	3.35391	26.59887	<250	0.03354	0.16163	26,000	6.97613	70.16640
04/29/03	1,305.4	216,450	19,090	2.62	216,350		1.99117	28.59004		0.01991	0.18154		4.14164	74.30804
05/01/03	1,351.3	223,850	7,400	2.69	223,750	<10,000	0.30874	28.89878	<100	0.00309	0.18463	25,000	1.54371	75.85174
05/20/03	1,783.0	291,620	67,770	2.62	291,520	<10,000	2.82749	31.72626	<100	0.02827	0.21290	17,000	9.61345	85.46519
06/03/03	2,122.1	341,643	50,023	2.46	341,543	<10,000	2.08705	33.81331	<100	0.02087	0.23377	15,000	6.26115	91.72634
06/17/03	2,456.1	388,001	46,358	2.31	387,901	<10,000	1.93414	35.74745	<100	0.01934	0.25311	17,000	6.57607	98.30241
06/30/03	2,766.0	429,880	41,879	2.25	429,780		1.74727	37.49472		0.01747	0.27059		5.94071	104.24311
07/14/03	3,095.9	473,549	43,669	2.21	473,449		1.82195	39.31667		0.01822	0.28881		6.19462	110.43774
07/28/03	3,423.7	514,826	41,277	2.10	514,726	<5,000	0.86107	40.17774	<50	0.00861	0.29742	7,100	2.44545	112.88319
08/11/03	3,761.9	545,750	30,924	1.52	545,650	<2,500	0.32255	40.50029	<25	0.00323	0.30064	4,900	1.26440	114.14759
08/28/03	4,171.0	595,525	49,775	2.03	595,425	<2,500	0.51918	41.01947	<25	0.00519	0.30583	7,700	3.19812	117.34571
09/08/03	4,435.4	626,720	31,195	1.97	626,620	<2,500	0.32538	41.34485	<25	0.00325	0.30909	6,600	1.71799	119.06371
09/22/03	4,769.9	665,449	38,729	1.93	665,349	<5,000	0.80792	42.15277	<50	0.00808	0.31717	5,700	1.84206	120.90577
10/08/03	5,084.6	701,104	35,655	1.89	701,004	<2,500	0.37190	42.52466	<25	0.00372	0.32089	3,100	0.92231	121.82807
10/21/03	5,396.7	735,644	34,540	1.84	735,544	<5,000	0.72054	43.24520	<50	0.00721	0.32809	3,800	1.09521	122.92329
11/06/03	5,785.7	778,218	42,574	1.82	778,118	<1,000	0.17763	43.42283	<10	0.00178	0.32987	3,500	1.24338	124.16667
11/19/03	6,097.1	810,223	32,005	1.71	810,123		0.13353	43.55636		0.00134	0.33120		0.93471	125.10139
Total Extracted Volume:			810,123	Total Pounds Removed:			43.55636	Total Pounds Removed:			0.33120	Total Pounds Removed:		
Average Period Operational Flow Rate:			2.21	Total Gallons Removed:			7,150.49	Total Gallons Removed:			0.04562	Total Gallons Removed:		

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Conc. = Concentration

ppb = Parts per billion, equivalent to µg/L

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

Site Visit (mm/dd/yy)	Hour Meter (hours)	Flow Meter Reading (gal)	Period Volume (gal)	Period Operational Flow Rate (gpm)		TPHg Conc. (ppb)	TPHg Period Removal (pounds)	Cumulative Removal (pounds)	Benzene			MTBE Conc. (ppb)	MTBE Period Removal (pounds)	Cumulative Removal (pounds)
				Cumulative Volume (gal)	Benzene Period Removal (pounds)				MTBE Removal (pounds)	MTBE Removal (pounds)	MTBE Removal (pounds)			

µg/L = Micrograms per liter

L = Liter

gal = Gallon

g = Gram

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

When constituents are not detected, the concentration is assumed to be equal to half the detection limit in subsequent calculations.

Volume removal data based on the formula: mass (pounds) x (density)⁻¹ (cc/g) x 453.6 (g/pound) x (L/1000 cc) * (gal/3.785 L)

Density inputs: TPHg = 0.73 g/cc, TPHd = 0.87 g/cc, MTBE = 0.74 g/cc

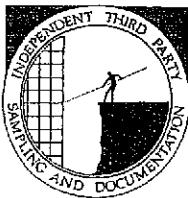
TPHg, BTEX, and MTBE analyzed by EPA Method 8260B

ATTACHMENT A

Blaine Groundwater Monitoring Report

and Field Notes

BLAINE
TECH SERVICESTM



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

October 27, 2003

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

Third Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
610 Market Street
Oakland, CA

Monitoring performed on September 26, 2003

Groundwater Monitoring Report 030926-BA-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

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-1	12/17/1998	2,200	20	<10	110	420	<50	NA	21.70	13.71	7.99
MW-1	03/09/1999	4,320	25.8	<10.0	338	474	<100	NA	21.70	13.03	8.67
MW-1	06/16/1999	6,150	107	84.0	615	1,050	<250	NA	21.70	13.82	7.88
MW-1	09/29/1999	3,440	97.3	58.7	433	578	89.1	NA	21.70	14.45	7.25
MW-1	12/22/1999	1,370	34.5	4.38	196	49.1	29.3	NA	21.70	15.39	6.31
MW-1	03/21/2000	2,550	10.3	3.36	164	312	65.6	NA	21.70	11.94	9.76
MW-1	06/20/2000	4,770	64.3	18.6	387	732	51.3	NA	21.70	13.15	8.55
MW-1	09/21/2000	7,490	350	229	690	1,490	160	NA	21.70	13.65	8.05
MW-1	11/30/2000	5,410	420	168	494	1,170	167	NA	21.70	14.20	7.50
MW-1	03/06/2001	965	25.7	9.14	13.3	9.12	<25.0	NA	21.70	12.99	8.71
MW-1	06/28/2001	5,900	190	71	360	910	NA	110	21.70	13.98	7.72
MW-1	09/12/2001	7,400	240	110	460	1,300	NA	130	21.70	14.15	7.55
MW-1	12/12/2001	1,700	100	30	120	300	NA	98	21.70	13.75	7.95
MW-1	03/08/2002	1,100	63	12	74	83	NA	50	21.70	13.22	8.48
MW-1	06/06/2002	2,300	95	31	130	290	NA	49	21.70	13.57	8.13
MW-1	09/09/2002	3,600	150	44	200	590	NA	54	21.70	14.05	7.65
MW-1	12/12/2002	2,200	130	14	120	310	NA	46	21.70	14.20	7.50
MW-1	02/26/2003	580	30	2.9	25	48	NA	27	21.70	13.57	8.13
MW-1	04/15/2003	NA	NA	NA	NA	NA	NA	NA	21.70	13.67	8.03
MW-1	06/13/2003	440	18	6.1	33	88	NA	24	21.70	13.85	7.85
MW-1	09/26/2003	54	3.8	0.51	4.7	7.5	NA	11	21.70	14.63	7.07

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

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-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
MW-2	09/12/2001	<2,000	120	<20	<20	<20	NA	17,000	19.61	12.45	7.16
MW-2	12/12/2001	<1,000	<10	<10	<10	<10	NA	3,000	19.61	12.14	7.47
MW-2	03/08/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	1,100	19.61	11.68	7.93
MW-2	06/06/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	2,000	19.61	11.95	7.66
MW-2	09/09/2002	<200	<2.0	<2.0	<2.0	<2.0	NA	740	19.62	12.38	7.24
MW-2	12/12/2002	<200	<2.0	<2.0	<2.0	<2.0	NA	1,000	19.62	12.40	7.22
MW-2	02/26/2003	<500	<5.0	<5.0	<5.0	<5.0	NA	1,600	19.62	12.69	6.93
MW-2	04/15/2003	NA	NA	NA	NA	NA	NA	NA	19.62	12.81	6.81
MW-2	06/13/2003	<500	<5.0	<5.0	<5.0	<10	NA	790	19.62	12.65	6.97
MW-2	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	250	18.20	12.95	5.25

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

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

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-3	11/30/2000	18,000	1,050	124	1,120	2,010	543,000a	403,000a	19.05	12.10	6.95
MW-3	03/06/2001	19,900	1,290	115	1,450	1,760	706,000	149,000	19.05	11.00	8.05
MW-3	06/28/2001	<50,000	1,200	<250	1,100	1,300	NA	610,000	19.05	11.96	7.09
MW-3	09/12/2001	<20,000	430	<200	230	480	NA	390,000	19.05	12.05	7.00
MW-3	10/23/2001	11,000	350	<100	210	440	NA	290,000	19.05	12.62	6.43
MW-3	12/12/2001	<20,000	280	<200	<200	<200	NA	160,000	19.05	11.83	7.22
MW-3	03/08/2002	<20,000	270	<200	<200	<200	NA	340,000	19.05	11.26	7.79
MW-3	06/06/2002	<50,000	290	<250	<250	<250	NA	290,000	19.05	11.50	7.55
MW-3	09/09/2002	<20,000	<200	<200	<200	<200	NA	230,000	19.06	11.92	7.14
MW-3	12/12/2002	<50,000	<200	<200	<200	<500	NA	190,000	19.06	10.95	8.11
MW-3	02/26/2003	<25,000	<250	<250	<250	<250	NA	210,000	19.06	15.01	4.05
MW-3	04/15/2003	NA	NA	NA	NA	NA	NA	NA	19.06	15.12	3.94
MW-3	06/13/2003	<25,000	<250	<250	<250	<500	NA	27,000	19.06	15.25	3.81
MW-3	09/26/2003	<10,000	<100	<100	<100	<200	NA	15,000	18.08	16.65 c	NA
MW-4	05/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	10.64	NA
MW-4	05/20/2002	<1,000	<10	<10	<10	<10	NA	4,600	NA	10.64	NA
MW-4	06/06/2002	<1,000	<10	<10	<10	<10	NA	4,800	NA	10.61	NA
MW-4	09/09/2002	Unable to sample		NA	NA	NA	NA	NA	18.03	11.07	6.96
MW-4	09/18/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	1,000	18.03	11.15	6.88
MW-4	12/12/2002	<100	<1.0	<1.0	<1.0	<1.0	NA	370	18.03	11.13	6.90
MW-4	02/26/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	18.03	10.61	7.42
MW-4	04/15/2003	NA	NA	NA	NA	NA	NA	NA	18.03	10.73	7.30
MW-4	06/13/2003	180 b	<0.50	110	<0.50	<1.0	NA	2.3	18.03	10.88	7.15
MW-4	09/26/2003	<5,000	<50	<50	<50	<100	NA	13,000	18.03	11.58	6.45

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-5	05/13/2002	NA	NA	NA	NA	NA	NA	NA	NA	10.40	NA
MW-5	05/20/2002	<2,500	<25	<25	<25	<25	NA	17,000	NA	10.41	NA
MW-5	06/06/2002	<5,000	<50	<50	<50	<50	NA	15,000	NA	10.36	NA
MW-5	09/09/2002	Unable to sample		NA	NA	NA	NA	NA	17.78	10.82	6.96
MW-5	09/18/2002	<2,500	<25	<25	<25	<25	NA	16,000	17.78	10.81	6.97
MW-5	12/12/2002	<2,500	<25	<25	<25	<25	NA	13,000	17.78	10.83	6.95
MW-5	02/26/2003	<2,000	<20	<20	<20	<20	NA	7,500	17.78	10.57	7.21
MW-5	04/15/2003	NA	NA	NA	NA	NA	NA	NA	17.78	10.69	7.09
MW-5	06/13/2003	<2,500	<25	<25	<25	<50	NA	4,400	17.78	10.82	6.96
MW-5	09/26/2003	<2,500	<25	<25	<25	<50	NA	4,700	17.78	11.49	6.29

MW-6	03/28/2003	Well inaccessible	NA	NA	NA	NA	NA	18.10	NA	NA
MW-6	04/07/2003	NA	NA	NA	NA	NA	NA	18.10	13.80	4.30
MW-6	04/15/2003	14,000	<250	<250	<250	<500	NA	41,000	18.10	15.05
MW-6	06/13/2003	<10,000	<100	<100	<100	<200	NA	27,000	18.10	14.42
MW-6	09/26/2003	<5,000	<50	<50	<50	<100	NA	11,000	18.05	18.35 c
										NA

MW-7	03/28/2003	Well inaccessible	NA	NA	NA	NA	NA	19.16	NA	NA
MW-7	04/07/2003	NA	NA	NA	NA	NA	NA	19.16	13.85	5.31
MW-7	04/15/2003	6,000	<100	<100	<100	<200	NA	19,000	19.16	13.95
MW-7	06/13/2003	<5,000	<50	<50	<50	<100	NA	5,700	19.16	13.92
MW-7	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	110	19.13	13.85
										5.28

MW-8	03/28/2003	Well inaccessible	NA	NA	NA	NA	NA	18.72	NA	NA
MW-8	04/07/2003	NA	NA	NA	NA	NA	NA	18.72	14.13	4.59
MW-8	04/15/2003	890	29	22	15	71	NA	430	18.72	14.10
										4.62

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

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-8	06/13/2003	NA	NA	NA	NA	NA	NA	NA	18.72	13.94	4.78
MW-8	09/26/2003	<250	55	51	33	140	NA	330	18.71	14.21	4.50
MW-9	03/28/2003	NA	NA	NA	NA	NA	NA	NA	18.78	11.19	7.59
MW-9	04/15/2003	420	<2.5	<2.5	<2.5	6.3	NA	37	18.78	11.24	7.54
MW-9	06/13/2003	290 b	<0.50	<0.50	<0.50	2.6	NA	34	18.78	11.39	7.39
MW-9	09/26/2003	540 b	<0.50	<0.50	<0.50	9.2	NA	21	18.78	12.12	6.66

WELL CONCENTRATIONS
Shell-branded Service Station
610 Market Street
Oakland, CA

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

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

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

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

Notes:

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

b = Hydrocarbon reported does not match the laboratory standard.

c = Measurement is depth to top of pump; unable to reach water with sounder.

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

Wells MW-6 through MW-9 surveyed April 10, 2003, by Virgil Chavez Land Surveying of Vallejo, California.

Wells MW-2, MW-3, MW-6, MW-7, and MW-8 surveyed September 23, 2003, by Virgil Chavez Land Surveying of Vallejo, California.

Blaine Tech Services, Inc.

October 09, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 030926-BA1
Project: 98995750
Site: 610 Market Street, Oakland

Dear Mr. Gearhart,

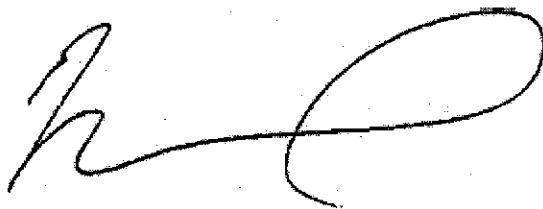
Attached is our report for your samples received on 09/26/2003 14:10
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
11/10/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,



Vincent Vancil
Project Manager

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	09/26/2003 10:50	Water	1
MW-2	09/26/2003 09:15	Water	2
MW-3	09/26/2003 11:05	Water	3
MW-4	09/26/2003 10:05	Water	4
MW-5	09/26/2003 10:25	Water	5
MW-6	09/26/2003 09:00	Water	6
MW-7	09/26/2003 09:10	Water	7
MW-8	09/26/2003 11:20	Water	8
MW-9	09/26/2003 09:40	Water	9

Gas/BTEX/MTBE by 8260B (C6-C12)

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2003-09-1009 -1
Sampled:	09/26/2003 10:50	Extracted:	10/3/2003 21:35
Matrix:	Water	QC Batch#:	2003/10/03-2A-65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	54	50	ug/L	1.00	10/03/2003 21:35	
Benzene	3.8	0.50	ug/L	1.00	10/03/2003 21:35	
Toluene	0.51	0.50	ug/L	1.00	10/03/2003 21:35	
Ethylbenzene	4.7	0.50	ug/L	1.00	10/03/2003 21:35	
Total xylenes	7.5	1.0	ug/L	1.00	10/03/2003 21:35	
Methyl tert-butyl ether (MTBE)	11	0.50	ug/L	1.00	10/03/2003 21:35	
Surrogate(s)						
1,2-Dichloroethane-d4	95.1	76-130	%	1.00	10/03/2003 21:35	
Toluene-d8	100.7	78-115	%	1.00	10/03/2003 21:35	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-2	Lab ID:	2003-09-1009 -2
Sampled:	09/26/2003 09:15	Extracted:	10/3/2003 21:57
Matrix:	Water	QC Batch#:	2003/10/03-2A.65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	10/03/2003 21:57	
Benzene	ND	2.5	ug/L	5.00	10/03/2003 21:57	
Toluene	ND	2.5	ug/L	5.00	10/03/2003 21:57	
Ethylbenzene	ND	2.5	ug/L	5.00	10/03/2003 21:57	
Total xylenes	ND	5.0	ug/L	5.00	10/03/2003 21:57	
Methyl tert-butyl ether (MTBE)	250	2.5	ug/L	5.00	10/03/2003 21:57	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	111.8	76-130	%	5.00	10/03/2003 21:57	
Toluene-d8	103.2	78-115	%	5.00	10/03/2003 21:57	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2003-09-1009 - 3
Sampled:	09/26/2003 11:05	Extracted:	10/3/2003 22:20
Matrix:	Water	QC Batch#:	2003/10/03-2A-65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	10000	ug/L	200.00	10/03/2003 22:20	
Benzene	ND	100	ug/L	200.00	10/03/2003 22:20	
Toluene	ND	100	ug/L	200.00	10/03/2003 22:20	
Ethylbenzene	ND	100	ug/L	200.00	10/03/2003 22:20	
Total xylenes	ND	200	ug/L	200.00	10/03/2003 22:20	
Methyl tert-butyl ether (MTBE)	15000	100	ug/L	200.00	10/03/2003 22:20	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	93.4	76-130	%	200.00	10/03/2003 22:20	
Toluene-d8	103.7	78-115	%	200.00	10/03/2003 22:20	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2003-09-1009-4
Sampled:	09/26/2003 10:05	Extracted:	10/3/2003 22:42
Matrix:	Water	QC Batch#:	2003/10/03-2A.65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	5000	ug/L	100.00	10/03/2003 22:42	
Benzene	ND	50	ug/L	100.00	10/03/2003 22:42	
Toluene	ND	50	ug/L	100.00	10/03/2003 22:42	
Ethylbenzene	ND	50	ug/L	100.00	10/03/2003 22:42	
Total xylenes	ND	100	ug/L	100.00	10/03/2003 22:42	
Methyl tert-butyl ether (MTBE)	13000	50	ug/L	100.00	10/03/2003 22:42	
Surrogate(s)						
1,2-Dichloroethane-d4	92.9	76-130	%	100.00	10/03/2003 22:42	
Toluene-d8	103.2	78-115	%	100.00	10/03/2003 22:42	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-5	Lab ID:	2003-09-1009 - 5
Sampled:	09/26/2003 10:25	Extracted:	10/3/2003 23:04
Matrix:	Water	QC Batch#:	2003/10/03-2A.65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	2500	ug/L	50.00	10/03/2003 23:04	
Benzene	ND	25	ug/L	50.00	10/03/2003 23:04	
Toluene	ND	25	ug/L	50.00	10/03/2003 23:04	
Ethylbenzene	ND	25	ug/L	50.00	10/03/2003 23:04	
Total xylenes	ND	50	ug/L	50.00	10/03/2003 23:04	
Methyl tert-butyl ether (MTBE)	4700	25	ug/L	50.00	10/03/2003 23:04	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	94.0	76-130	%	50.00	10/03/2003 23:04	
Toluene-d8	107.1	78-115	%	50.00	10/03/2003 23:04	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-6	Lab ID:	2003-09-1009-6
Sampled:	09/26/2003 09:00	Extracted:	10/3/2003 18:58
Matrix:	Water	GC Batch#:	2003/10/03-1D.65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	5000	ug/L	100.00	10/03/2003 18:58	
Benzene	ND	50	ug/L	100.00	10/03/2003 18:58	
Toluene	ND	50	ug/L	100.00	10/03/2003 18:58	
Ethylbenzene	ND	50	ug/L	100.00	10/03/2003 18:58	
Total xylenes	ND	100	ug/L	100.00	10/03/2003 18:58	
Methyl tert-butyl ether (MTBE)	11000	50	ug/L	100.00	10/03/2003 18:58	
Surrogate(s)						
1,2-Dichloroethane-d4	95.4	76-130	%	100.00	10/03/2003 18:58	
Toluene-d8	106.1	78-115	%	100.00	10/03/2003 18:58	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

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San Jose, CA 95112-1105

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Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-7	Lab ID:	2003-09-1009 - 7
Sampled:	09/26/2003 09:10	Extracted:	10/3/2003 19:21
Matrix:	Water	QC Batch#:	2003/10/03-1D-65

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	10/03/2003 19:21	
Benzene	ND	2.5	ug/L	5.00	10/03/2003 19:21	
Toluene	ND	2.5	ug/L	5.00	10/03/2003 19:21	
Ethylbenzene	ND	2.5	ug/L	5.00	10/03/2003 19:21	
Total xylenes	ND	5.0	ug/L	5.00	10/03/2003 19:21	
Methyl tert-butyl ether (MTBE)	110	2.5	ug/L	5.00	10/03/2003 19:21	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	96.3	76-130	%	5.00	10/03/2003 19:21	
Toluene-d8	105.1	78-115	%	5.00	10/03/2003 19:21	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-8	Lab ID:	2003-09-1009-8
Sampled:	09/26/2003 11:20	Extracted:	10/3/2003 19:43
Matrix:	Water	QC Batch#:	2003/10/03-1D-65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	10/03/2003 19:43	
Benzene	55	2.5	ug/L	5.00	10/03/2003 19:43	
Toluene	51	2.5	ug/L	5.00	10/03/2003 19:43	
Ethylbenzene	33	2.5	ug/L	5.00	10/03/2003 19:43	
Total xylenes	140	5.0	ug/L	5.00	10/03/2003 19:43	
Methyl tert-butyl ether (MTBE)	330	2.5	ug/L	5.00	10/03/2003 19:43	
Surrogate(s)						
1,2-Dichloroethane-d4	101.4	76-130	%	5.00	10/03/2003 19:43	
Toluene-d8	104.4	78-115	%	5.00	10/03/2003 19:43	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-9	Lab ID:	2003-09-1009 - 9
Sampled:	09/26/2003 09:40	Extracted:	10/6/2003 13:31
Matrix:	Water	QC Batch#:	2003/10/06-1A-62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	540	50	ug/L	1.00	10/06/2003 13:31	
Benzene	ND	0.50	ug/L	1.00	10/06/2003 13:31	
Toluene	ND	0.50	ug/L	1.00	10/06/2003 13:31	
Ethylbenzene	ND	0.50	ug/L	1.00	10/06/2003 13:31	
Total xylenes	9.2	1.0	ug/L	1.00	10/06/2003 13:31	
Methyl tert-butyl ether (MTBE)	21	0.50	ug/L	1.00	10/06/2003 13:31	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	97.4	76-130	%	1.00	10/06/2003 13:31	
Toluene-d8	88.3	78-115	%	1.00	10/06/2003 13:31	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch #: 2003/10/03-1D.65

MB: 2003/10/03-1D.65-039

Date Extracted: 10/03/2003 10:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/03/2003 10:39	
Benzene	ND	0.5	ug/L	10/03/2003 10:39	
Toluene	ND	0.5	ug/L	10/03/2003 10:39	
Ethylbenzene	ND	0.5	ug/L	10/03/2003 10:39	
Total xylenes	ND	1.0	ug/L	10/03/2003 10:39	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/03/2003 10:39	
Surrogates(s)					
1,2-Dichloroethane-d4	86.1	76-130	%	10/03/2003 10:39	
Toluene-d8	102.3	78-115	%	10/03/2003 10:39	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch # 2003/10/03-2A.65

MB: 2003/10/03-2A.65-051

Date Extracted: 10/03/2003 21:12

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/03/2003 21:12	
Benzene	ND	0.5	ug/L	10/03/2003 21:12	
Toluene	ND	0.5	ug/L	10/03/2003 21:12	
Ethylbenzene	ND	0.5	ug/L	10/03/2003 21:12	
Total xylenes	ND	1.0	ug/L	10/03/2003 21:12	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/03/2003 21:12	
Surrogates(s)					
1,2-Dichloroethane-d4	92.0	76-130	%	10/03/2003 21:12	
Toluene-d8	105.6	78-115	%	10/03/2003 21:12	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch # 2003/10/06-1A.62

MB: 2003/10/06-1A.62-047

Date Extracted: 10/06/2003 10:47

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/06/2003 10:47	
Benzene	ND	0.5	ug/L	10/06/2003 10:47	
Toluene	ND	0.5	ug/L	10/06/2003 10:47	
Ethylbenzene	ND	0.5	ug/L	10/06/2003 10:47	
Total xylenes	ND	1.0	ug/L	10/06/2003 10:47	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/06/2003 10:47	
Surrogates(s)					
1,2-Dichloroethane-d4	92.6	76-130	%	10/06/2003 10:47	
Toluene-d8	97.9	78-115	%	10/06/2003 10:47	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike**Water**

QC Batch # 2003/10/03-1D.65

LCS 2003/10/03-1D.65-054

Extracted: 10/03/2003

Analyzed: 10/03/2003 09:54

LCSD 2003/10/03-1D.65-016

Extracted: 10/03/2003

Analyzed: 10/03/2003 10:16

Compound	Conc.		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %	Flags	
	LCS	LCSD		LCS	LCSD			Rec.	RPD
Benzene	21.0	21.8	25	84.0	87.2	3.7	69-129	20	
Toluene	22.3	22.9	25	89.2	91.6	2.7	70-130	20	
Methyl tert-butyl ether (MTBE)	19.9	21.3	25	79.6	85.2	6.8	65-165	20	
Surrogates(s)									
1,2-Dichloroethane-d4	481	498	500	96.2	99.6		76-130		
Toluene-d8	494	513	500	98.8	102.6		78-115		

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike**Water**

QC Batch #: 2003/10/03-2A.65

LCS 2003/10/03-2A.65-028

Extracted: 10/03/2003

Analyzed: 10/03/2003 20:28

LCSD 2003/10/03-2A.65-050

Extracted: 10/03/2003

Analyzed: 10/03/2003 20:50

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	24.4	23.2	25	97.6	92.8	5.0	69-129	20		
Toluene	23.5	24.2	25	94.0	96.8	2.9	70-130	20		
Methyl tert-butyl ether (MTBE)	24.1	21.5	25	96.4	86.0	11.4	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	495	446	500	99.0	89.2		76-130			
Toluene-d8	496	503	500	99.2	100.6		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike**Water****QC Batch # 2003/10/06-1A.62**

LCS 2003/10/06-1A.62-002
LCSD 2003/10/06-1A.62-025

Extracted: 10/06/2003

Analyzed: 10/06/2003 10:02

Extracted: 10/06/2003

Analyzed: 10/06/2003 10:25

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	26.5	29.0	25	106.0	116.0	9.0	69-129	20		
Toluene	26.4	28.5	25	105.6	114.0	7.7	70-130	20		
Methyl tert-butyl ether (MTBE)	29.5	29.4	25	118.0	117.6	0.3	65-165	20		
<i>Surrogates(s)</i>										
1,2-Dichloroethane-d4	467	455	500	93.4	91.0		76-130			
Toluene-d8	505	519	500	101.0	103.8		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030926-BA1
98995750

Received: 09/26/2003 14:10

Site: 610 Market Street, Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

g

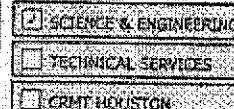
Hydrocarbon reported in the gasoline range does not match
our gasoline standard.

Lab Ident# (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be Invoiced:



Karen Petryna

INCIDENT NUMBER (SFE ONLY)

9 8 9 9 5 7 5 0

SAP or CRMT NUMBER (TS/CRMT)

DATE 9/26/03

PAGE 1 of 1

CLIENT COMPANY: Blaine Tech Services		CO2 CODE: BTSS	SITE ADDRESS (Street and City): 610 Market Street, Oakland	GLOBAL ID#: T0600102121
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EMERGENCY DELIVERABLE TO (Person/Party or Designation): Anni Kreml		E-MAIL: ShellOaklandEDF@cambrria-env.com
REQUEST CONTACT (Name of Person): Leon Gearhart		PHONE NO.: 510-420-3335		CONSULTANT PROJECT NO.: 030926-3A BTS #
TELEPHONE: 408-573-0555	FAX: 408-573-7771	SAMPLE NUMBER (ID#): Blane Alarms		LAB USE ONLY
TURNAROUND TIME (BUSINESS DAYS): <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> 3 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS				

 I.A. - ANVOCB REPORT FORMAT UST AGENCY

COMMITTEE CONFIRMATION: HIGHEST _____ HIGHEST OR BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF ECO IS NOT NEEDED

REQUESTED ANALYSIS

FIELD NOTES:

ContainPreservative
or PID Readings
or Laboratory Notes

21°C

TEMPERATURE ON RECEIPT °C

Field Sample Identification	SAMPLING		MATRIX	NO. OF CONC.	TPH Gas, Purgeable	BTX	MTBE (8021B - Spill RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015M)	
	DATE	TIME												
MW-1	9/26	1050	W	3	X X	X	MTBE (8021B - Spill RL)							
MW-2		0915		1	X X	X								
MW-3		1105		1	X X	X								
MW-4		1005		1	X X	X								
MW-5		1025		1	X X	X								
MW-6		0900		1	X X	X								
MW-7		0910		1	X X	X								
MW-8		1120		1	X X	X								
MW-9		0940		1	X X	X								

Reinqualify by (Signature)

Approved by (Signature)

Accepted by (Signature)

Received by (Signature)

Date: 9/26/03

Time: 1410

Reinqualify by (Signature)

Approved by (Signature)

Accepted by (Signature)

Received by (Signature)

Date: 9-26-03

Time: 1740

Comments: 9/26/03

WELL GAUGING DATA

Project # 030926-BA1 Date 9/26/03 Client Shell

Site 6010 Market St., Oakland

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

SHELL WELL MONITORING DATA SHEET

3TS #: 030926-BA1	Site: 610 Market St, Oakland	
Sampler: BRIAN ALMANS	Date: 9/26/03	
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8	
Total Well Depth (TD): 24.58	Depth to Water (DTW): 14.63	
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]: 16.62		

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing																
$\frac{6.5 \text{ (Gals.)} \times 3}{\text{Case Volume}} = 19.5 \text{ Gals.}$		Other: _____																
<table border="1"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>$\text{radius}^2 * 0.163$</td> </tr> </tbody> </table>			Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	$\text{radius}^2 * 0.163$
Well Diameter	Multiplier	Well Diameter	Multiplier															
1"	0.04	4"	0.65															
2"	0.16	6"	1.47															
3"	0.37	Other	$\text{radius}^2 * 0.163$															

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1040	69.7	6.4	819	47	6.5	clear
1042	69.9	6.4	859	50	13.0	"
1043	Wed	Dewatered			14.0	DTW 19.98
1050	71.6	6.4	910	69	—	clear

Did well dewater? Yes No Gallons actually evacuated: 14

Sampling Date: 9/26/03 Sampling Time: 1050 Depth to Water: 16.62

Sample I.D.: MW-1 Laboratory: STL Other: _____

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

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030926-BA1	Site: 610 Market St, Oakland		
Sampler: Brian Azcarraga	Date: 9/26/03		
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8		
Total Well Depth (TD):	Depth to Water (DTW): 12.95		
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]:

Purge Method:	Bailer Disposable Bailer Positive Air Displacement Electric Submersible		Sampling Method:	Bailer Disposable Bailer <u>Extraction Port</u> Dedicated Tubing
		Other		

PORT SAMPLE

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

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

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
09.5	71.4	6.4	844	18	/	clear

Did well dewater? Yes No Gallons actually evacuated: /

Sampling Date: 9/26/03 Sampling Time: 09.5 Depth to Water: 12.95

Sample I.D.: MW-2 Laboratory: STL Other

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030926-BA1	Site: 610 Market St, Oakland		
Sampler: Brian Alcorn	Date: 9/26/03		
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8		
Total Well Depth (TD):	Depth to Water (DTW): 16.65 To Pump off Pump		
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]:

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic <u>Extraction Pump</u>	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing																
Other: _____		Other: Hose at Wellhead																
(Gals.) X 1 Case Volume Specified Volumes = Calculated Volume		<table border="1"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>$\text{radius}^2 * 0.163$</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	$\text{radius}^2 * 0.163$
Well Diameter	Multiplier	Well Diameter	Multiplier															
1"	0.04	4"	0.65															
2"	0.16	6"	1.47															
3"	0.37	Other	$\text{radius}^2 * 0.163$															

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1105	69.9	6.7	991	143	✓	clear, colord, ^{mild} odor

Note: Unable to retrieve water at port in compound, collected sample by disconnecting 1" cam lock at wellhead. Hose reconnected.

Did well dewater? Yes No Gallons actually evacuated: ✓

Sampling Date: 9/26/03 Sampling Time: 1105 Depth to Water: ✓

Sample I.D.: MW-3 Laboratory: STL Other: _____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030926-BA1	Site: 610 Market St, Oakland
Sampler: Brian Alcorn	Date: 9/26/03
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 19.77	Depth to Water (DTW): 11.58
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC	D.O. Meter (if req'd): YSI HACH

DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Method: Bailer	Waterra	Sampling Method: Bailer
Disposable Bailer	Peristaltic	Disposable Bailer
Positive Air Displacement	Extraction Pump	Extraction Port
<u>Electric Submersible</u>	Other _____	Dedicated Tubing

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

5.5 (Gals.) X 3 = 16.5 Gals.

1 Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0959	69.4	6.5	758	149	5.5	clear, odor
1000	69.9	6.5	799	32	11.0	"
1001	Well Dewatered at				12.0	DTW 16.0 ft
1005	70.2	6.4	898	148	→	cloudy black gray, debris, odor

Did well dewater? Yes No Gallons actually evacuated: 12

Sampling Date: 9/26/03 Sampling Time: 1005 Depth to Water: 16.0 ft TRAFFIC
well

Sample I.D.: MW-4 Laboratory: STL Other _____

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

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

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

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

O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV
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SHELL WELL MONITORING DATA SHEET

BTS #: 030926-BA1	Site: 610 Market St, Oakland		
Sampler: BRIAN ALCONA	Date: 9/26/03		
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8		
Total Well Depth (TD): 20.02	Depth to Water (DTW): 11.49		
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]:			

Purge Method: Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible Water: Peristaltic Extraction Pump Other _____

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

$$\frac{5.5 \text{ (Gals.)}}{1 \text{ Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{16.5 \text{ Gals.}}{\text{Calculated Volume}}$$

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
1018	69.7	6.7	1,186	38	5.5	clear, mild odor
1019	70.5	6.8	1,218	114	11.0	cloudy gray, mild odor
1020	Well Dewatered				11.0	DTW 17.45
1025	71.7	6.6	1,183	>1,000	—	cloudy gray, mild odor

Did well dewater? Yes No Gallons actually evacuated: 11

Sampling Date: 9/26/03 Sampling Time: 1025 Depth to Water: 17.45 Traffic wall

Sample I.D.: MW-5 Laboratory: STL Other: _____

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

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

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

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

BTS #:	030926-BA1			Site:	610 Market St, Oakland		
Sampler:	BRIAN ALCONA			Date:	9/26/03		
Well I.D.:	MW-6			Well Diameter:	2	3	(4) 6 8
Total Well Depth (TD):	—			Depth to Water (DTW):	18.35	Top of Pump	
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]:							

Purge Method: Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible

Waterra
 Peristaltic
 Extraction Pump

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other:

PORT SAMPLE

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

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0900	70.2	6.3	706	21	—	clear, odor

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 9/26/03 Sampling Time: 0900 Depth to Water: —

Sample I.D.: MW-6 Laboratory: STL Other

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

EB I.D. (if applicable): ^④ Time Duplicate I.D. (if applicable):

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030926-BA1	Site: 610 Market St, Oakland		
Sampler: Brian Alcorn	Date: 9/26/03		
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8		
Total Well Depth (TD):	Depth to Water (DTW): 13.85		
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]:

Purge Method: Bailer	Waterra	Sampling Method: Bailer
Disposable Bailer	Peristaltic	Disposable Bailer
Positive Air Displacement	Extraction Pump	Extraction Port
Electric Submersible	Other _____	Dedicated Tubing

Port Sample

1 Case Volume	(Gals.) X Specified Volumes	=	Gals.	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
0910	71.6	6.5	635	22	/	clear, odor

Did well dewater? Yes No Gallons actually evacuated: /

Sampling Date: 9/26/03 Sampling Time: 0910 Depth to Water: /

Sample I.D.: MW-7 Laboratory: STL Other _____

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

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030926-BA1	Site: 6010 Market St, Oakland	
Sampler: Brian Alcorn	Date: 9/26/03	
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8	
Total Well Depth (TD):	Depth to Water (DTW): 14.21	
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]:

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other Hose at wellhead																
(Gals.) X Specified Volumes = Calculated Volume		<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>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
1120	72.3	6.6	913	209	—	

Note: Unable to retrieve water at port in compound, collected sample by disconnecting 1" camlock at wellhead. Hose reconnected.

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 9/26/03 Sampling Time: 1120 Depth to Water: 14.21

Sample I.D.: MW-8 Laboratory: STL Other

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

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030926-BA1	Site: 610 Market St, Oakland
Sampler: Brian Alcorn	Date: 9/26/03
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 19.74	Depth to Water (DTW): 12.12
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.64	

Purge Method: Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible

Watera
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other: _____

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

5.0 (Gals.) X 3 = 15.0 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
0935	67.2	6.1	2,045	50	5.0	clear, mild odor
0936	67.3	6.2	1,957	311	10.0	cloudy brown, mild odor
0937	Well Dewatered	2			13.0	DTW 16.30
0940	66.8	6.1	2,232	449	—	cloudy brown,

Did well dewater? Yes No Gallons actually evacuated: 13

Sampling Date: 9/26/03 Sampling Time: 0940 Depth to Water: 16.30 Traffic /wcu

Sample I.D.: MW-9 Laboratory: STL Other _____

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

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

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

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

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