



Shell Oil Products US

new CSU
Re 493 ✓

May 25, 2004

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

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

Alameda County
JUN 1 2004
Environmental Health

Dear Mr. Chan:

Attached for your review and comment is a copy of the *First Quarter 2004 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

May 25, 2004

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

ALC
JUN 3 2004
Environmental Health
Alameda County

Re: **First Quarter 2004 Monitoring Report**
Shell-branded Service Station
610 Market Street
Oakland, California
Incident #99895750
Cambria Project #246-0594-002



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 (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 – 04/13/04	NA	45.5	NA	0.358	NA	131.4
Subtotal (per phase)		52.9	48.9	2.83	0.445	43.0	203.3
Total Mass Removed		101.8 pounds		3.28 pounds		246.3 pounds	

FIRST QUARTER 2004 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.

The GWE system shutdown on February 28, 2004 due to short-circuiting of a power filter. The power filter was replaced on March 9, 2004, and the system was restarted. Blaine conducted the first quarter 2004 sampling event on March 1, 2004 while the system was off. Therefore, the groundwater elevation contour map does not reflect the typical drawdown induced by the GWE system. Furthermore, Blaine manually started the GWE system to collect samples from the extraction wells. While the system is operational, the extraction wells are being purged continuously. Since the system was off during this event, the wells should have been purged the required volume prior to sampling. Blaine's field notes do not note the purge volume or duration of pumping prior to sampling. Therefore, it is uncertain if the extraction wells were sufficiently purged and the samples are representative of the aquifer. Cambria has discussed this issue with Blaine to avoid the same situation during future sampling events.

Remedial Activities: Cambria started operating 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 2.40 gallons per minute.

As of April 13, 2004, a total of 1,191,129 gallons of groundwater has been extracted. A total of 45.5 pounds of TPHg, 0.358 pounds of benzene, and 131.4 pounds of MTBE has been recovered. Mass removal data are presented in Table 2.

ANTICIPATED SECOND QUARTER 2004 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.

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.

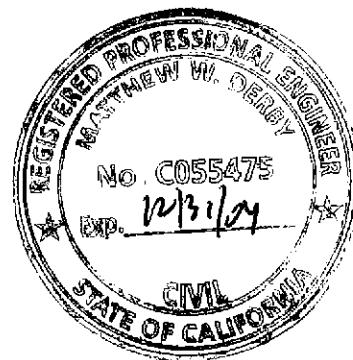
Sincerely,
Cambria Environmental Technology, Inc

A handwritten signature of Dan Lescure.

Dan Lescure
Senior Project Engineer

A handwritten signature of Matthew W. Derby.

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

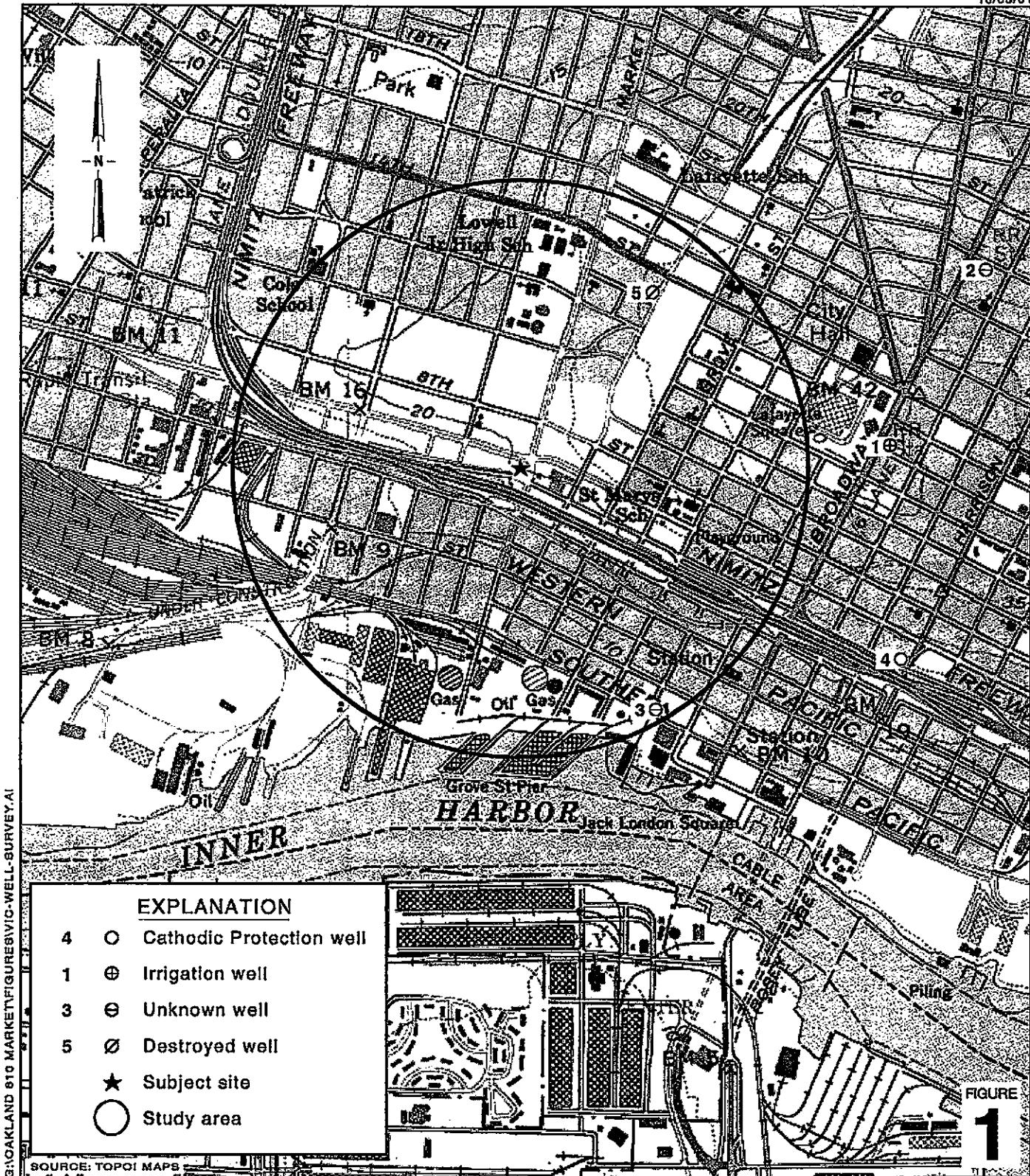


Figures: 1 - Vicinity/Area Well Survey Map
 2 - Groundwater Elevation Contour Map

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, 20945 S. Wilmington Ave., Carson, CA 90810
 Virginia R. Rawson, Tr., 1860 Tice Creek Drive #1353, Walnut Creek, CA 94595
 Roger Schmidt, 1224 Contra Costa Dr., El Cerrito, CA 94530



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

C
C A M B R I A

Vicinity / Area Well Survey Map
1/2 Mile Radius

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 Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)	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
12/05/2003	<2,000	<20	3,400	<50	<0.50	130	<50	<0.50	<0.50	<50	<0.50	<0.50
01/09/2004	<2,000	<20	2,700	<50	<0.50	210	<50	<0.50	<0.50	<50	<0.50	<0.50
02/09/2004	<250	7.8	250	<50	<0.50	180	<50	<0.50	<0.50	<50	<0.50	<0.50
03/09/2004	<250	8.6	700	<100	<1.0	270	<50	<0.50	<0.50	<50	<0.50	<0.50

Abbreviations & Notes:

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 = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Conc. = Concentration

ppb = parts per billion, equivalent to µg/l

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)	Uptime	Flow Meter Reading (gal)	Period			TPHg Conc. (ppb)	TPHg Period Removal (pounds)	Benzene Conc. (ppb)	Benzene			MTBE Conc. (ppb)	MTBE		
				Period Volume (gal)	Operational Flow Rate (gpm)	Cumulative Volume (gal)				Period Removal (pounds)	Cumulative Removal (pounds)	Period Removal (pounds)		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	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	0.71705
02/25/03	140.2	0.83	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	1.00	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	1.00	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	0.01	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	1.00	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	0.87	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	1.03	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	0.72	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	0.96	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	0.95	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	1.01	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	0.99	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	0.99	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	0.98	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	0.98	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	1.01	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	1.00	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	1.00	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	1.00	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	0.82	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	1.00	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	1.01	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	1.00	810,223	32,005	1.71	810,123		0.13353	43.55636		0.00134	0.33120		0.93471	125.10139	
12/05/03	6,481.6	1.00	849,610	39,387	1.71	849,510	<2,000	0.32866	43.88502	<20	0.00329	0.33449	3,400	1.11744	126.21883	
12/23/03	6,909.0	0.99	898,595	48,985	1.91	898,495		0.40875	44.29376		0.00409	0.33858		1.38974	127.60857	
01/02/04	7,057.2	0.62	917,835	19,240	2.16	917,735		0.16055	44.45431		0.00161	0.34018		0.54585	128.15443	
01/09/04	7,170.7	0.68	941,766	23,931	3.51	941,666	<2,000	0.19969	44.65400	<20	0.00200	0.34218	2,700	0.53916	128.69358	
01/21/04	7,461.1	1.01	986,590	44,824	2.57	986,490		0.37403	45.02803		0.00374	0.34592		1.00987	129.70346	
02/09/04	7,492.3	0.07	991,309	4,719	2.52	991,209	<250	0.00492	45.03295	7.8	0.00031	0.34623	250	0.00984	129.71330	
02/25/04	7,872.5	0.99	1,048,823	57,514	2.52	1,048,723		0.05999	45.09294		0.00374	0.34997		0.11998	129.83328	
03/09/04	7,952.6	0.26	1,062,912	14,089	2.93	1,062,812	<250	0.01470	45.10763	8.6	0.00101	0.35098	700	0.08229	129.91558	
03/23/04	8,285.0	0.99	1,117,340	54,428	2.73	1,117,240		0.05677	45.16440		0.00391	0.35489		0.31792	130.23349	

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 Uptime	Period Reading (gal)	Period		TPHg Conc. (ppb)	TPHg Period Removal (pounds)	Benzene Conc. (ppb)	Benzene		MTBE Conc. (ppb)	MTBE Period Removal (pounds)	Cumulative Removal (pounds)		
				Operational Volume (gal)	Cumulative Volume (gal)				Period Removal (pounds)	Cumulative Removal (pounds)					
04/13/04	8,792.3	1.01	1,191,229	73,889	2.43	<1,000	0.30828	45.47268	<10	0.00308	0.35797	1,900	1.17146	131.40495	
				Total Extracted Volume:	1,191,129	Total Pounds Removed:	45.47268	Total Pounds Removed:	0.35797	Total Pounds Removed:	0.35797	Average Operational Flow Rate:	2.40	Total Gallons Removed:	131.40495
						Total Gallons Removed:	7.46509	Total Gallons Removed:	0.04931	Total Gallons Removed:	0.04931			Total Gallons Removed:	21.28076

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Conc. = Concentration

ppb = Parts per billion, equivalent to $\mu\text{g/L}$ $\mu\text{g/L}$ = Micrograms per liter

L = Liter

gal = Gallon

g = Gram

Mass removed based on the formula: volume extracted (gal) x Concentration ($\mu\text{g/L}$) x ($\text{g}/10^6\mu\text{g}$) x (pound/453.6g) x (3.785 L/gal)

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 SERVICES INC.



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

April 9, 2004

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

First Quarter 2004 Groundwater Monitoring at
Shell-branded Service Station
610 Market Street
Oakland, CA

Monitoring performed on March 1, 2004

Groundwater Monitoring Report **040301-MD-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)
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-1	11/24/2003	120	5.6	0.87	8.4	20	NA	17	21.70	14.86	6.84
MW-1	03/01/2004	350	20	3.8	38	100	NA	18	21.70	12.85	8.85
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

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	06/16/1999	<50.0	0.569	<0.500	<0.500	<0.500	3,440	NA	19.61	12.26	7.35
MW-2	09/29/1999	58.6	2.51	0.978	<0.500	<0.500	3,930	NA	19.61	12.51	7.10
MW-2	12/22/1999	<2,000	50.4	<20.0	<20.0	<20.0	15,000	NA	19.61	13.40	6.21
MW-2	03/21/2000	<5,000	94.7	<50.0	<50.0	<50.0	13,900	NA	19.61	10.36	9.25
MW-2	06/20/2000	101	5.95	<0.500	<0.500	0.552	7,670	NA	19.61	11.12	8.49
MW-2	09/21/2000	<2,000	<20.0	<20.0	<20.0	<20.0	4,460	NA	19.61	11.95	7.66
MW-2	11/30/2000	81.1	4.46	0.924	0.841	3.23	3,450	NA	19.61	12.48	7.13
MW-2	03/06/2001	<500	183	<5.00	<5.00	<5.00	14,000	NA	19.61	11.10	8.51
MW-2	06/28/2001	<1,000	<10	<10	<10	<10	NA	4,200	19.61	12.40	7.21
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-2	11/24/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	87	18.20	12.89	5.31
MW-2	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	35	18.20	10.08	8.12

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

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-3	12/22/1999	44,500	767	64.4	1,810	2,090	191,000	186,000a	19.05	13.45	5.60
MW-3	03/21/2000	<25,000	466	<250	727	2,280	126,000	155,000	19.05	10.00	9.05
MW-3	06/20/2000	16,200	1,140	98.8	1,140	1,410	579,000	376,000a	19.05	11.15	7.90
MW-3	09/21/2000	<50,000	712	<500	520	795	293,000	298,000	19.05	11.58	7.47
MW-3	11/30/2000	18,000	1,050	124	1,120	2,010	543,000a	403,000a	19.05	12.10	6.95
MW-3	03/06/2001	19,900	1,290	115	1,450	1,760	706,000	149,000	19.05	11.00	8.05
MW-3	06/28/2001	<50,000	1,200	<250	1,100	1,300	NA	610,000	19.05	11.96	7.09
MW-3	09/12/2001	<20,000	430	<200	230	480	NA	390,000	19.05	12.05	7.00
MW-3	10/23/2001	11,000	350	<100	210	440	NA	290,000	19.05	12.62	6.43
MW-3	12/12/2001	<20,000	280	<200	<200	<200	NA	160,000	19.05	11.83	7.22
MW-3	03/08/2002	<20,000	270	<200	<200	<200	NA	340,000	19.05	11.26	7.79
MW-3	06/06/2002	<50,000	290	<250	<250	<250	NA	290,000	19.05	11.50	7.55
MW-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-3	11/24/2003	<10,000	<100	<100	<100	<200	NA	9,900	18.08	15.13	2.95
MW-3	03/01/2004	<10,000	<100	<100	<100	<200	NA	8,000	18.08	9.97	8.11

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	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

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-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	18.03	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
MW-4	11/24/2003	<13,000	<130	<130	<130	<250	NA	11,000	18.03	11.78	6.25
MW-4	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	18.03	9.47	8.56

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-5	11/24/2003	<10,000	<100	<100	<100	<200	NA	7,100	17.78	11.70	6.08
MW-5	03/01/2004	<2,000	<20	<20	<20	<40	NA	2,800	17.78	9.68	8.10

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	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	3.05
MW-6	06/13/2003	<10,000	<100	<100	<100	<200	NA	27,000	18.10	14.42	3.68
MW-6	09/26/2003	<5,000	<50	<50	<50	<100	NA	11,000	18.05	18.35 c	NA

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-6	11/24/2003	<10,000	<100	<100	<100	<200	NA	5,000	18.05	14.68	3.37
MW-6	03/01/2004	<1,000	<10	<10	<10	<20	NA	2,500	18.05	9.84	8.21
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	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	5.21
MW-7	06/13/2003	<5,000	<50	<50	<50	<100	NA	5,700	19.16	13.92	5.24
MW-7	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	110	19.13	13.85	5.28
MW-7	11/24/2003	<50	<0.50	0.59	<0.50	1.7	NA	7.6	19.13	13.99	5.14
MW-7	03/01/2004	67 b	<0.50	<0.50	<0.50	<1.0	NA	120	19.13	10.85	8.28
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	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
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-8	11/24/2003	<5,000	<50	<50	<50	<100	NA	5,600	18.71	14.16	4.55
MW-8	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	12	18.71	10.34	8.37
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
MW-9	11/24/2003	650 d	<0.50	<0.50	<0.50	6.3	NA	14	18.78	12.30	6.48
MW-9	03/01/2004	230 d	<0.50	<0.50	<0.50	1.7	NA	7.7	18.78	10.45	8.33

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.

d = Sample contains discrete peaks in addition to gasoline.

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.

March 17, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 040301-MD1
Project: 98995750
Site: 610 Market Street, Oakland

Dear Mr. Gearhart,

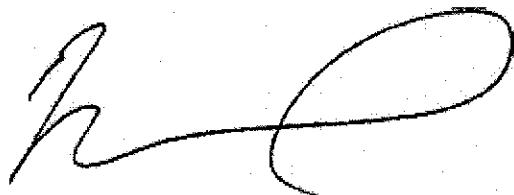
Attached is our report for your samples received on 03/02/2004 15:27
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
04/16/2004 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: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	03/01/2004 10:05	Water	1
MW-2	03/01/2004 10:10	Water	2
MW-3	03/01/2004 10:15	Water	3
MW-4	03/01/2004 09:20	Water	4
MW-5	03/01/2004 09:40	Water	5
MW-6	03/01/2004 10:20	Water	6
MW-7	03/01/2004 10:25	Water	7
MW-8	03/01/2004 10:30	Water	8
MW-9	03/01/2004 08:55	Water	9

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: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2004-03-0063-1
Sampled:	03/01/2004 10:05	Extracted:	3/10/2004 00:45
Matrix:	Water	QC Batch#:	2004/03/09-2A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	350	50	ug/L	1.00	03/10/2004 00:45	
Benzene	20	0.50	ug/L	1.00	03/10/2004 00:45	
Toluene	3.8	0.50	ug/L	1.00	03/10/2004 00:45	
Ethylbenzene	38	0.50	ug/L	1.00	03/10/2004 00:45	
Total xylenes	100	1.0	ug/L	1.00	03/10/2004 00:45	
Methyl tert-butyl ether (MTBE)	18	0.50	ug/L	1.00	03/10/2004 00:45	
Surrogate(s)						
1,2-Dichloroethane-d4	111.0	76-130	%	1.00	03/10/2004 00:45	
Toluene-d8	96.2	78-115	%	1.00	03/10/2004 00:45	

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: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B			
Sample ID:	MW-2	Lab ID:	2004-03-0063-2			
Sampled:	03/01/2004 10:10	Extracted:	3/10/2004 01:07			
Matrix:	Water	QC Batch#:	2004/03/09-2A-62			
Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/10/2004 01:07	
Benzene	ND	0.50	ug/L	1.00	03/10/2004 01:07	
Toluene	ND	0.50	ug/L	1.00	03/10/2004 01:07	
Ethylbenzene	ND	0.50	ug/L	1.00	03/10/2004 01:07	
Total xylenes	ND	1.0	ug/L	1.00	03/10/2004 01:07	
Methyl tert-butyl ether (MTBE)	35	0.50	ug/L	1.00	03/10/2004 01:07	
Surrogate(s)						
1,2-Dichloroethane-d4	109.2	76-130	%	1.00	03/10/2004 01:07	
Toluene-d8	98.3	78-115	%	1.00	03/10/2004 01:07	

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: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2004-03-0063-3
Sampled:	03/01/2004 10:15	Extracted:	3/10/2004 01:29
Matrix:	Water	QC Batch#:	2004/03/09-2A.62
Analysis Flag: o (See Legend and Note Section.)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	10000	ug/L	200.00	03/10/2004 01:29	
Benzene	ND	100	ug/L	200.00	03/10/2004 01:29	
Toluene	ND	100	ug/L	200.00	03/10/2004 01:29	
Ethylbenzene	ND	100	ug/L	200.00	03/10/2004 01:29	
Total xylenes	ND	200	ug/L	200.00	03/10/2004 01:29	
Methyl tert-butyl ether (MTBE)	8000	100	ug/L	200.00	03/10/2004 01:29	
Surrogate(s)						
1,2-Dichloroethane-d4	113.8	76-130	%	200.00	03/10/2004 01:29	
Toluene-d8	99.3	78-115	%	200.00	03/10/2004 01:29	

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: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-4	Lab ID:	2004-03-0063-4
Sampled:	03/01/2004 09:20	Extracted:	3/10/2004 12:10
Matrx:	Water	QC Batch#:	2004/03/10-1D-65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/10/2004 12:10	
Benzene	ND	0.50	ug/L	1.00	03/10/2004 12:10	
Toluene	ND	0.50	ug/L	1.00	03/10/2004 12:10	
Ethylbenzene	ND	0.50	ug/L	1.00	03/10/2004 12:10	
Total xylenes	ND	1.0	ug/L	1.00	03/10/2004 12:10	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	03/10/2004 12:10	
Surrogate(s)						
1,2-Dichloroethane-d4	85.4	76-130	%	1.00	03/10/2004 12:10	
Toluene-d8	87.7	78-115	%	1.00	03/10/2004 12:10	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-5	Lab ID:	2004-03-0063 - 5
Sampled:	03/01/2004 09:40	Extracted:	3/10/2004 12:32
Matrix:	Water	QC Batch#:	2004/03/10-1D-65

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	2000	ug/L	40.00	03/10/2004 12:32	
Benzene	ND	20	ug/L	40.00	03/10/2004 12:32	
Toluene	ND	20	ug/L	40.00	03/10/2004 12:32	
Ethylbenzene	ND	20	ug/L	40.00	03/10/2004 12:32	
Total xylenes	ND	40	ug/L	40.00	03/10/2004 12:32	
Methyl tert-butyl ether (MTBE)	2800	20	ug/L	40.00	03/10/2004 12:32	
Surrogate(s)						
1,2-Dichloroethane-d4	88.3	76-130	%	40.00	03/10/2004 12:32	
Toluene-d8	91.8	78-115	%	40.00	03/10/2004 12:32	

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

Blaine Tech Services, Inc.

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

Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Prep(s): 5030B

Sample ID: MW-6

Sampled: 03/01/2004 10:20

Matrix: Water

Test(s): 8260B

Lab ID: 2004-03-0063-6

Extracted: 3/10/2004 12:55

QC Batch#: 2004/03/10-1D.65

Analysis Flag: o (See Legend and Note Section.)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/L	20.00	03/10/2004 12:55	
Benzene	ND	10	ug/L	20.00	03/10/2004 12:55	
Toluene	ND	10	ug/L	20.00	03/10/2004 12:55	
Ethylbenzene	ND	10	ug/L	20.00	03/10/2004 12:55	
Total xylenes	ND	20	ug/L	20.00	03/10/2004 12:55	
Methyl tert-butyl ether (MTBE)	2500	10	ug/L	20.00	03/10/2004 12:55	
Surrogate(s)						
1,2-Dichloroethane-d4	86.3	76-130	%	20.00	03/10/2004 12:55	
Toluene-d8	87.6	78-115	%	20.00	03/10/2004 12:55	

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: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-7	Lab ID:	2004-03-0063 - 7
Sampled:	03/01/2004 10:25	Extracted:	3/9/2004 20:57
Matrix:	Water	QC Batch#:	2004/03/09-2A.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	67	50	ug/L	1.00	03/09/2004 20:57	g
Benzene	ND	0.50	ug/L	1.00	03/09/2004 20:57	
Toluene	ND	0.50	ug/L	1.00	03/09/2004 20:57	
Ethylbenzene	ND	0.50	ug/L	1.00	03/09/2004 20:57	
Total xylenes	ND	1.0	ug/L	1.00	03/09/2004 20:57	
Methyl tert-butyl ether (MTBE)	120	0.50	ug/L	1.00	03/09/2004 20:57	
Surrogate(s)						
1,2-Dichloroethane-d4	98.5	76-130	%	1.00	03/09/2004 20:57	
Toluene-d8	91.6	78-115	%	1.00	03/09/2004 20:57	

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

Blaine Tech Services, Inc.

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Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-8	Lab ID:	2004-03-0063-8
Sampled:	03/01/2004 10:30	Extracted:	3/11/2004 10:48
Matrix:	Water	QC Batch#:	2004/03/11-1C-65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/11/2004 10:48	
Benzene	ND	0.50	ug/L	1.00	03/11/2004 10:48	
Toluene	ND	0.50	ug/L	1.00	03/11/2004 10:48	
Ethylbenzene	ND	0.50	ug/L	1.00	03/11/2004 10:48	
Total xylenes	ND	1.0	ug/L	1.00	03/11/2004 10:48	
Methyl tert-butyl ether (MTBE)	12	0.50	ug/L	1.00	03/11/2004 10:48	
Surrogate(s)						
1,2-Dichloroethane-d4	99.5	76-130	%	1.00	03/11/2004 10:48	
Toluene-d8	90.9	78-115	%	1.00	03/11/2004 10:48	

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

Blaine Tech Services, Inc.

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

Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-9	Lab ID:	2004-03-0063 - 9
Sampled:	03/01/2004 08:55	Extracted:	3/9/2004 21:34
Matrix:	Water	QC Batch#:	2004/03/09-2A.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	230	50	ug/L	1.00	03/09/2004 21:34	g
Benzene	ND	0.50	ug/L	1.00	03/09/2004 21:34	
Toluene	ND	0.50	ug/L	1.00	03/09/2004 21:34	
Ethylbenzene	ND	0.50	ug/L	1.00	03/09/2004 21:34	
Total xylenes	1.7	1.0	ug/L	1.00	03/09/2004 21:34	
Methyl tert-butyl ether (MTBE)	7.7	0.50	ug/L	1.00	03/09/2004 21:34	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	96.7	76-130	%	1.00	03/09/2004 21:34	
Toluene-d8	82.9	78-115	%	1.00	03/09/2004 21:34	

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

Blaine Tech Services, Inc.

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

Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch #: 2004/03/09-2A-62

MB: 2004/03/09-2A-62-022

Date Extracted: 03/09/2004 18:22

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/09/2004 18:22	
Benzene	ND	0.5	ug/L	03/09/2004 18:22	
Toluene	ND	0.5	ug/L	03/09/2004 18:22	
Ethylbenzene	ND	0.5	ug/L	03/09/2004 18:22	
Total xylenes	ND	1.0	ug/L	03/09/2004 18:22	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	03/09/2004 18:22	
Surrogates(s)					
1,2-Dichloroethane-d4	88.5	76-130	%	03/09/2004 18:22	
Toluene-d8	96.6	78-115	%	03/09/2004 18:22	

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

Blaine Tech Services, Inc.

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

Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

QC Batch # 2004/03/09-2A-68

MB: 2004/03/09-2A-68-025

Water

Date Extracted: 03/09/2004 20:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/09/2004 20:25	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	03/09/2004 20:25	
Benzene	ND	0.5	ug/L	03/09/2004 20:25	
Toluene	ND	0.5	ug/L	03/09/2004 20:25	
Ethylbenzene	ND	0.5	ug/L	03/09/2004 20:25	
Total xylenes	ND	1.0	ug/L	03/09/2004 20:25	
Surrogates(s)					
1,2-Dichloroethane-d4	85.4	76-130	%	03/09/2004 20:25	
Toluene-d8	92.6	78-115	%	03/09/2004 20:25	

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

Blaine Tech Services, Inc.

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Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2004/03/10-1D.65

MB-2004/03/10-1D.65-040

Date Extracted: 03/10/2004 09:40

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/10/2004 09:40	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	03/10/2004 09:40	
Benzene	ND	0.5	ug/L	03/10/2004 09:40	
Toluene	ND	0.5	ug/L	03/10/2004 09:40	
Ethylbenzene	ND	0.5	ug/L	03/10/2004 09:40	
Total xylenes	ND	1.0	ug/L	03/10/2004 09:40	
Surrogates(s)					
1,2-Dichloroethane-d4	91.2	76-130	%	03/10/2004 09:40	
Toluene-d8	91.2	78-115	%	03/10/2004 09:40	

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

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Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Batch QC Report					
Prep(s): 5030B	Method Blank	Water	Test(s): 8260B	QC Batch #	Date Extracted:
				2004/03/11-1C.65	03/11/2004 09:42
ME: 2004/03/11-1C.65-042					
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/11/2004 09:42	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	03/11/2004 09:42	
Benzene	ND	0.5	ug/L	03/11/2004 09:42	
Toluene	ND	0.5	ug/L	03/11/2004 09:42	
Ethylbenzene	ND	0.5	ug/L	03/11/2004 09:42	
Total xylenes	ND	1.0	ug/L	03/11/2004 09:42	
Surrogates(s)					
1,2-Dichloroethane-d4	86.4	76-130	%	03/11/2004 09:42	
Toluene-d8	90.6	78-115	%	03/11/2004 09:42	

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

Blaine Tech Services, Inc.

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

Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike**Water**

QC Batch #: 2004/03/09-2A-62

LCS 2004/03/09-2A-62-038

Extracted: 03/09/2004

Analyzed: 03/09/2004 17:38

LCSD 2004/03/09-2A-62-000

Extracted: 03/09/2004

Analyzed: 03/09/2004 18:00

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	23.1	21.7	25	92.4	86.8	6.3	69-129	20		
Toluene	24.5	23.0	25	98.0	92.0	6.3	70-130	20		
Methyl tert-butyl ether (MTBE)	21.5	19.9	25	86.0	79.6	7.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	480	478	500	96.0	95.6		76-130			
Toluene-d8	489	474	500	97.8	94.8		78-115			

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

Blaine Tech Services, Inc.

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

Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike**Water****QC Batch # 2004/03/09-2A-68**

LCS 2004/03/09-2A-68-047

Extracted: 03/09/2004

Analyzed: 03/09/2004 19:47

LCSD 2004/03/09-2A-68-006

Extracted: 03/09/2004

Analyzed: 03/09/2004 20:06

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.2	21.5	25	96.8	86.0	11.8	65-165	20		
Benzene	23.8	23.2	25	95.2	92.8	2.6	69-129	20		
Toluene	25.2	24.0	25	100.8	96.0	4.9	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	405	405	500	81.0	81.0		76-130			
Toluene-d8	466	460	500	93.2	92.0		78-115			

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

Blaine Tech Services, Inc.

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

Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B						Test(s): 8260B			
Laboratory Control Spike		Water		QC Batch # 2004/03/10-1D.65					
LCS	2004/03/10-1D.65-053	Extracted: 03/10/2004		Analyzed: 03/10/2004 08:53					
LCSD	2004/03/10-1D.65-018	Extracted: 03/10/2004		Analyzed: 03/10/2004 09:16					
Compound	Conc. ug/L	Exp.Conc.	Recovery %	RPD	Ctrl.Limits %	Flags			
	LCS	LCSD	LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.1	24.7	25	96.4	98.8	2.5	65-165	20	
Benzene	24.1	25.3	25	96.4	101.2	4.9	69-129	20	
Toluene	25.3	26.2	25	101.2	104.8	3.5	70-130	20	
Surrogates(s)									
1,2-Dichloroethane-d4	418	414	500	83.6	82.8		76-130		
Toluene-d8	459	488	500	91.8	97.6		78-115		

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

Blaine Tech Services, Inc.

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Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

Site: 610 Market Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/03/11-1C-65

LCS 2004/03/11-1C-65-012

Extracted: 03/11/2004

Analyzed: 03/11/2004 10:12

LCSD 2004/03/11-1C-65-017

Extracted: 03/11/2004

Analyzed: 03/11/2004 09:17

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	17.9	19.8	25	71.6	79.2	10.1	65-165	20		
Benzene	19.6	19.9	25	78.4	79.6	1.5	69-129	20		
Toluene	20.4	20.5	25	81.6	82.0	0.5	70-130	20		
<i>Surrogates(s)</i>										
1,2-Dichloroethane-d4	417	427	500	83.4	85.4		76-130			
Toluene-d8	438	450	500	87.6	90.0		78-115			

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

Blaine Tech Services, Inc.

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

Project: 040301-MD1
98995750

Received: 03/02/2004 15:27

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.

03/16/2004 18:04

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

LAB: SPC

SHELL Chain Of Custody Record

83448

Lab identification if necessary:

Address:

City, State, Zip:

Shell Project Manager to be involved:

- SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMT/HOUSTON

Karen Petryna

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 0

SAR OR CRMT NUMBER (S&E/CRMT)

DATE: 3/1/04
PAGE: 1 of 12004-03-0063

CONSOLIDATING COMPANY	169-0226	SITE ADDRESS (Street and City)	610 Market Street, Oakland
Shine Tech Services	BTSS	TELEPHONE NO.	T0600102121
1680 Rogers Avenue, San Jose, CA 95112		E-MAIL	ShellOaklandEDF@cambria-env.com BTSS
PROJECT CONTACT INFORMATION FOR THIS REPORT		EMERGENCY CONTACT NUMBER	0403-01-MD1
Leon Gearhart	Ann Kremi	510-420-3335	LAB USE ONLY
TELEPHONE: 408-573-0555 FAX: 408-573-7771 EMAIL: lgearhart@shinetech.com	SAMPLE NUMBER (if any)	<u>Johnathan DeJong</u>	
TIME AND DATE (BUSINESS DAYS): <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS			
<input type="checkbox"/> USE RWIC'S REPORT FORMAT <input type="checkbox"/> LIST AGENCY SONGS HITE CONFIRMATION: HIGHEST HIGHEST per BORING ALL			
SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EOD IS NOT NEEDED: <input type="checkbox"/>			

REQUESTED ANALYSIS

LAB REF #	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas Permeable	TPH - BTX	TPH - MTBE (90/10 - Spod RT)	TPH - MTBE (90/10 - Samp RT)	Oxygenates (90/10 - Spod RT)	Oxygenates (90/10 - Samp RT)	BTEX (90/10B)	Method	120°C (90/20B)	BTEX (90/20B)	TPH - Diesel Extractable (80/15m)	TPH - Diesel Extractable (80/15m)	Temperature on Receipt
		DATE	TIME															
MW-1	3/1/04 005	40	3		3	✓	✓	✓	✓	✓	✓	✓						
MW-2	1019	3	3		3	✓	✓	✓	✓	✓	✓	✓						
MW-3	1015	3	3		3	✓	✓	✓	✓	✓	✓	✓						
MW-4	920	3	3		3	✓	✓	✓	✓	✓	✓	✓						
MW-5	940	3	3		3	✓	✓	✓	✓	✓	✓	✓						
MW-6	020	3	3		3	✓	✓	✓	✓	✓	✓	✓						
MW-7	025	3	3		3	✓	✓	✓	✓	✓	✓	✓						
MW-8	030	3	3		3	✓	✓	✓	✓	✓	✓	✓						
MW-9	355	3	3		3	✓	✓	✓	✓	✓	✓	✓						
RECEIVED BY (Signature)		RECEIVED BY (Signature)		RECEIVED BY (Signature)		RECEIVED BY (Signature)		RECEIVED BY (Signature)		RECEIVED BY (Signature)		RECEIVED BY (Signature)		RECEIVED BY (Signature)		RECEIVED BY (Signature)		
3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		
3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		
3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		3/1/04 1527		

DISTRIBUTION: White copy for lab reports, Green for PIR, Yellow and Pink for CCRs.

WELL GAUGING DATA

Project # 090301-MD1

Date 3/1/01

Client 98995750

Site 60 Market St., Oakland

SHELL WELL MONITORING DATA SHEET

BTS #: 040301-MD1	Site: 98995750		
Sampler: John DeJong	Date: 3/1/04		
Well I.D.: MW-1	Well Diameter: 2 3 ④ 6 8		
Total Well Depth (TD): 24.63	Depth to Water (DTW): 12.85		
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]: 15.21			

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: _____

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

7.7 (Gals.) X 3 = 23.1 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
820	66.1	6.1	863	38	8	cloudy
821	67.5	6.1	862	23	16	clear
823	68.2	6.2	911	20	24	"

Did well dewater? Yes Gallons actually evacuated: 24

Sampling Date: 3/1/04 Sampling Time: 1005 Depth to Water: 13.18

Sample I.D.: MW-1 Laboratory: STD 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
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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 #: 040301-MD1	Site: 98995750	
Sampler: John DeJong	Date: 3/1/04	
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8	
Total Well Depth (TD): —	Depth to Water (DTW): 10.08	
Depth to Free Product:	Thickness of Free Product (feet):	
Referenced to: <input checked="" type="checkbox"/> 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
<i>formed ext. system on</i> (Gals.) X _____ = _____ Gals.	I Case Volume Specified Volumes	Calculated Volume	Well Diameter Multiplier Well Diameter Multiplier	Other: _____

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1010	54.1	6.7	911	3	—	clear

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 3/1/04 Sampling Time: 1010 Depth to Water: —

Sample I.D.: MW-2 Laboratory: STD 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 #: 040301-MD	Site: 98995750
Sampler: John DeJong	Date: 3/1/04
Well I.D.: MN-3	Well Diameter: 2 3 4 6 8
Total Well Depth (TD):	Depth to Water (DTW): 9.97
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
turned ext system on (Gals.) X		Gals.	Well Diameter Multiplier Well Diameter Multiplier	Other:
1 Case Volume	Specified Volumes	Calculated Volume	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
1015	54.4	6.8	1153	569	—	orange

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 3/1/04 Sampling Time: 1015 Depth to Water: —

Sample I.D.: MN-3 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 #: 040301-MD1	Site: 98995750		
Sampler: John DeJong	Date: 3/1/04		
Well I.D.: MN-1	Well Diameter: 2 3 4 6 8		
Total Well Depth (TD): 19.80	Depth to Water (DTW): 19.29 9.47		
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]: 11.54			

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 _____

$$\frac{6.7 \text{ (Gals.)}}{1 \text{ Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{20.1}{\text{Calculated Volume}} \text{ Gals.}$$

Well Diameter	Multiplicator	Well Diameter	Multiplicator
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
905	60.9	7.1	561	153	7	cloudy, odor
906	62.2	7.0	553	525	14	"
908	62.6	7.0	548	387	21	cloudy, odor

Did well dewater? Yes No Gallons actually evacuated: 21

Sampling Date: 3/1/04 Sampling Time: 920 Depth to Water: 13.91 feet

Sample I.D.: MW-4 Laboratory: STD 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 #: 040301-MD1	Site: 98995750
Sampler: John DeJong	Date: 3/1/04
Well I.D.: MW-5	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 20.00	Depth to Water (DTW): 20.0 - 9.68 = 9.68
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]: 11.74	

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: _____

$$6.7 \text{ (Gals.)} \times 3 = 20.1 \text{ Gals.}$$

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 μ S)	Turbidity (NTUs)	Gals. Removed	Observations
926	62.8	7.0	1207	44	6.7	clear
927	63.9	7.0	1202	127	14	cloudy
929	63.3	6.9	1160	697	21	cloudy

Did well dewater? Yes Gallons actually evacuated: 21

Sampling Date: 3/1/04 Sampling Time: 940 Depth to Water: 17.13 feet wet

Sample I.D.: MW-5 Laboratory: STD 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 #: 040301-MD1	Site: 98995750		
Sampler: John DeJong	Date: 3/1/04		
Well I.D.: MW-6	Well Diameter: 2 3 4 6 8		
Total Well Depth (TD):	Depth to Water (DTW): 9.84		
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: Bailei
 Disposable Bailei
 Positive Air Displacement
 Electric Submersible
Water取
 Peristaltic
 Extraction Pump
 Other _____

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

1 Case Volume	Specified Volumes (Gals.) X	Calculated Volume Gals.	Well Diameter	Multiplicator	Well Diameter	Multiplicator
			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
1020	53.5	6.7	1062	21		

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 3/1/04 Sampling Time: 1020 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): @ 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 #: 040301-MD1	Site: 98995750
Sampler: John DeJong	Date: 3/1/04
Well I.D.: MW-7	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 10.85
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 Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method:	Bailer Disposable Bailer Extraction Port Dedicated Tubing
turn off system or (Gals.) X _____ = _____ Gals.	I Case Volume Specified Volumes Calculated Volume	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

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1025	54.9	6.8	1045	57	—	clear, odor

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 3/1/04 Sampling Time: 1025 Depth to Water: —

Sample I.D.: MW-7 Laboratory: STD 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 #: 040301-MD	Site: 989957.50
Sampler: John DeJong	Date: 3/1/04
Well I.D.: MU-8	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 10 3 4
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
	Electric Submersible	Other _____		Dedicated Tubing

Turned ext. system on (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
1030	53.8	6.8	952	21	—	creep

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 3/1/04 Sampling Time: 1030 Depth to Water: —

Sample I.D.: MU-8 Laboratory: STD 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 #: 040301-MD1	Site: 98995750
Sampler: John DeJong	Date: 3/1/04
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 19.73	Depth to Water (DTW): 10.45
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]: 12.31	

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: _____

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

6 (Gals.) X 3 = 18 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
840	62.0	6.7	1029	58	6	
842	63.0	6.7	811	60	12	
844	63.8	6.0	1060	281	18	

Did well dewater? Yes No Gallons actually evacuated: 18

Sampling Date: 3/1/04 Sampling Time: 855 Depth to Water: 19.21 street level

Sample I.D.: MW-9 Laboratory: STD 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
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O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
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