



Shell Oil Products US

January 3, 2005

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

RECEIVED
JAN 10 2005
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

Subject: Shell-branded Service Station
540 Hegenberger Road
Oakland, California

Dear Ms Garcia-La Grille:

Attached for your review and comment is a copy of the *Third 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
Sr. Environmental Engineer

January 3, 2005

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

Re: **Third Quarter 2004 Monitoring Report**
Shell-branded Service Station
540 Hegenberger Road
Oakland, California
Incident #98995752
Cambria Project #246-0414-002

RECEIVED
JAN 13 2005
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



Dear Ms. Garcia-La Grille:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

THIRD QUARTER 2004 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged water levels, sampled the monitoring wells, calculated groundwater elevations, and compiled the analytical data. The adjacent Arco station located at 566 Hegenberger Road was sampled concurrently. 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 reports and supporting field documents is included as Attachment A. Data from the Arco site is presented on Figure 2 and included as Attachment B.

Additional Oxygenate Analysis: In addition to the regular quarterly analysis for total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes, and methyl-tertiary-butyl ether (MTBE), groundwater samples from all monitoring wells were analyzed for five additional oxygenates. Analytical results for MTBE, di-isopropyl ether, ethyl tert-butyl ether, tert-amyl methyl ether, tert-butyl alcohol (TBA), and ethanol are included in Blaine's report. The only oxygenates detected were MTBE and TBA.

**Cambria
Environmental
Technology, Inc.**

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



Historical Interim Remediation Summary: From July 1999 through June 2000, groundwater extraction (GWE) was performed at the site to remove dissolved-phase hydrocarbons and MTBE from beneath the site. From June through December 2000, dual-phase vacuum extraction (DVE) was conducted to enhance GWE and to extract vapor-phase hydrocarbon and MTBE from the soil as well. DVE was discontinued after the December 2000 event, and monthly DVE events were resumed in May 2001. Due to low vapor mass-removal rates, DVE was discontinued in October 2001, and monthly GWE was re-initiated. Wells MW-1 and MW-3 and tank backfill well BW-D were used for extraction until April 2002, when extraction from the tank backfill was switched from well BW-D to BW-B due to higher historic MTBE concentrations observed in this well. A total of 13.7 lbs. of MTBE was removed from the subsurface during DVE and GWE events. Monthly GWE events were discontinued in March 2003 when construction of a fixed GWE system was initiated.

GWE System: Based on the groundwater monitoring and GWE system data which demonstrated decreased MTBE concentrations in groundwater, we shut down GWE system operation on August 4, 2004. After reviewing the third quarter groundwater monitoring data, which showed rebound of MTBE concentrations in well MW-3, we restarted the system on November 2, 2004, pumping only from well MW-3.

The influent samples collected from the GWE system on November 23, 2004 and December 6, 2004 showed MTBE concentrations of 170 parts per billion (ppb) and 91 ppb. Since this influent stream consists entirely of groundwater pumped from well MW-3, it appears concentrations have rapidly declined in this well. We will review the fourth quarter sampling event data to evaluate further actions on the system.

Table 1 summarizes system analytical data. Table 2 summarizes the field data and system operation and calculates mass removal. Based on the field data, the GWE system operated at average flow rates ranging from approximately 0.32 to 0.36 gallons per minute after restart.

Through December 17, 2004, a total of 343,547 gallons of groundwater has been extracted. A total of 18.4 pounds of MTBE has been recovered.

ANTICIPATED FOURTH QUARTER 2004 ACTIVITIES

Groundwater Monitoring: Blaine will gauge water levels, sample the monitoring wells using the non-purging method, and tabulate the data. In addition, Blaine will sample tank backfill well BW-D. The sampling event will take place concurrently with sampling at the Arco station

located at 566 Hegenberger Road. Arco and Shell will exchange water level and analytical data on these events. Cambria will prepare a report documenting those activities.

GWE System: We will operate the system under the conditions of the East Bay Municipal Utility District discharge permit. Fourth quarter groundwater monitoring and sampling data will be evaluated to determine the course of action for the GWE system.

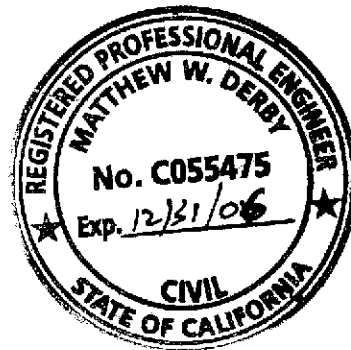
CLOSING



We appreciate the opportunity to work with you on this project. Please call Diane Lundquist at (510) 420-3334 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Matthew W. Derby
Diane Lundquist, P.E.
Principal Engineer



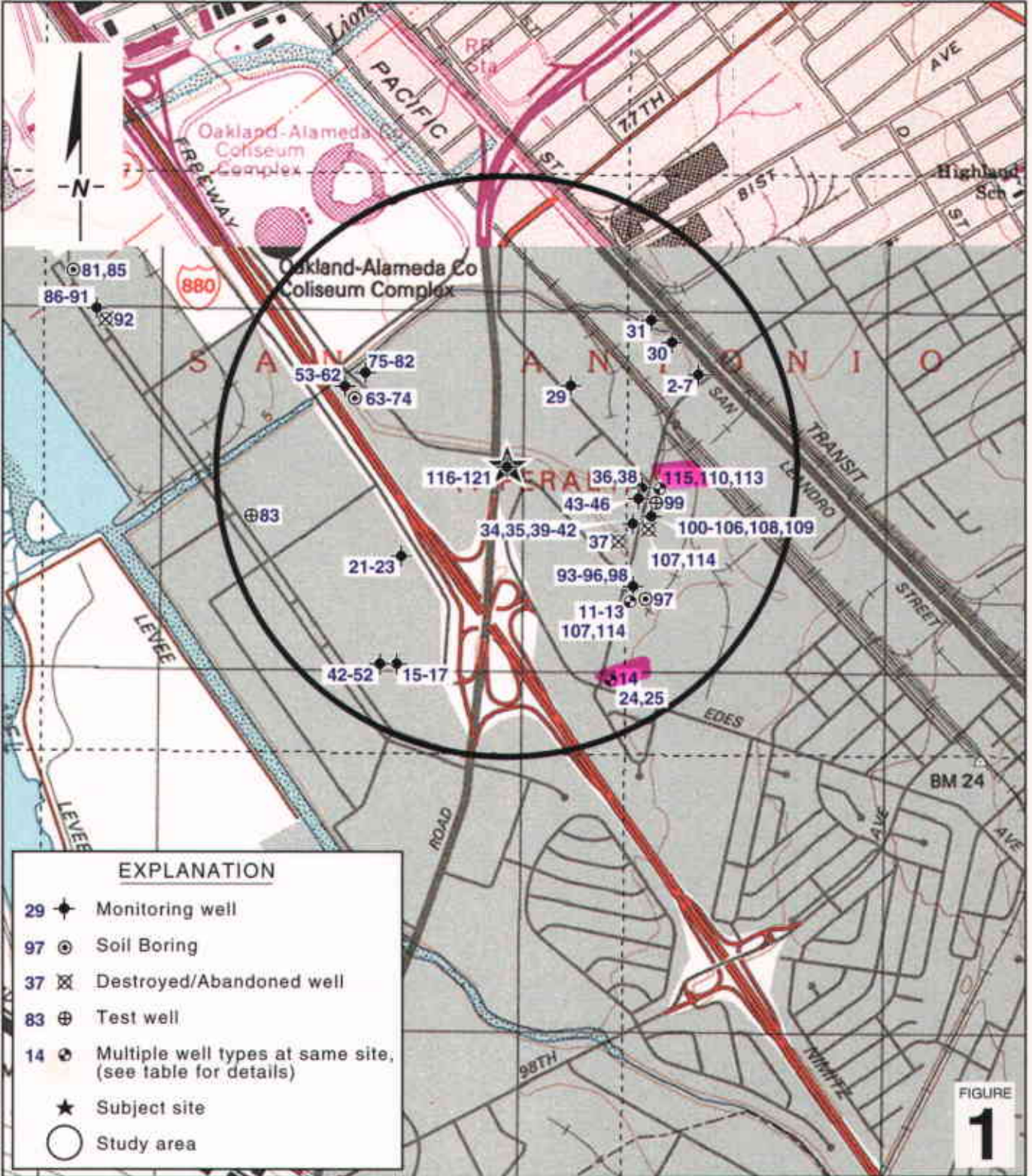
Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map

Tables: 1 - Groundwater Extraction – System Analytical Data
2 - Groundwater Extraction – Operation and Mass Removal Data

Attachments: A - Blaine Groundwater Monitoring Report and Field Notes
B - Arco Groundwater Data

cc: Karen Petryna, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810

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EXPLANATION

- 29 ◆ Monitoring well
- 97 ⊙ Soil Boring
- 37 ⊗ Destroyed/Abandoned well
- 83 ⊕ Test well
- 14 ⊕ Multiple well types at same site, (see table for details)
- ★ Subject site
- Study area



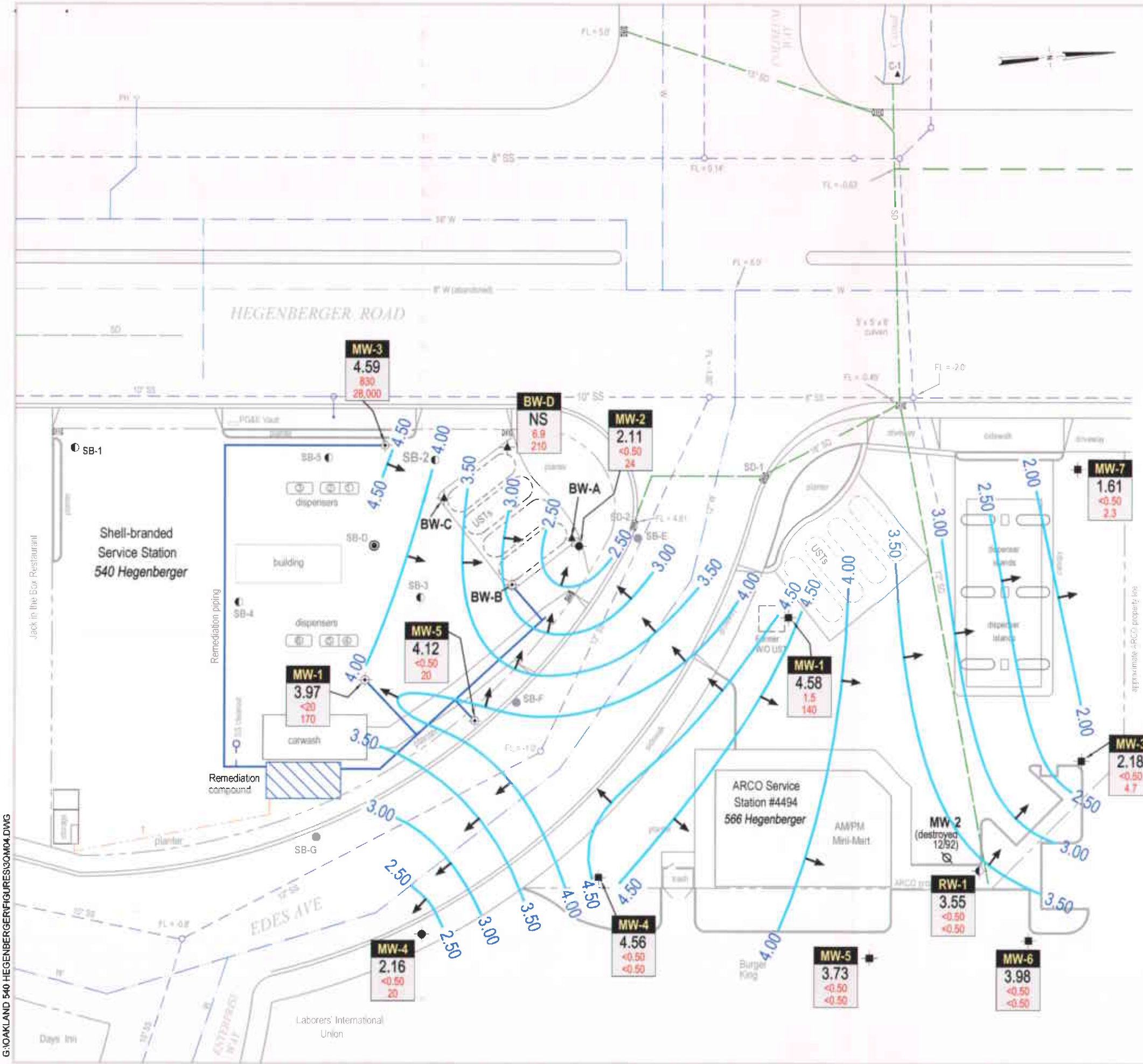
FIGURE 1

Shell-branded Service Station
 540 Hegenberger Road
 Oakland, California
 Incident #98995752



C A M B R I A

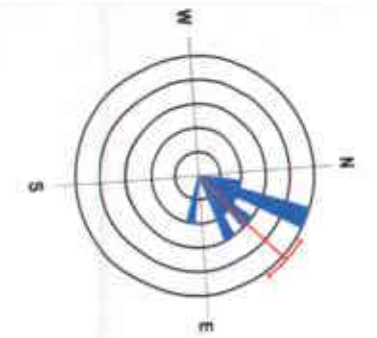
Area Well Survey
 (1/2-Mile Radius)



EXPLANATION

- MW-2 ◆ Shell monitoring well
- BW-A ▲ Tank backfill well
- MW-1 ⊕ Well used for groundwater extraction
- MW-1 ■ ARCO monitoring well
- RW-1 ⊕ ARCO recovery well
- SB-1 ● Soil boring location (March 1998)
- SB-D ● Soil boring location (July 1998)
- SB-E ● Soil boring location (August 2000)
- C-1 ▲ Canal sampling location
- FH ◇ Fire hydrant
- FL = 5.0' Flowline elevation (msl)
- - - Sanitary sewer main (SS)
- Water line (W)
- Storm drain (SD)
- - - Telephone line (T)
- ▶ Flow direction
- NS Not surveyed
- Groundwater flow direction
- XX.XX Groundwater elevation contour, in feet above msl, approximately located, dashed where inferred

Well	ELEV	Benzene	MTBE
MW-3	4.59	830	28,000
BW-D	NS	6.9	210
MW-2	2.11	<0.50	24
MW-7	1.61	<0.50	23
MW-5	4.12	<0.50	20
MW-1	3.97	<0.50	170
MW-1	4.58	1.5	140
MW-3	2.18	<0.50	4.7
MW-4	2.16	<0.50	20
MW-4	4.56	<0.50	<0.50
MW-5	3.73	<0.50	<0.50
MW-6	3.98	<0.50	<0.50
RW-1	3.55	<0.50	<0.50



Shell Groundwater Gradient Direction
August 1998 through March 2003
(20 events prior to groundwater extraction)

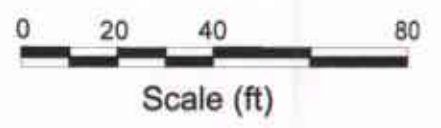


FIGURE
2

**Groundwater Elevation
Contour Map**



C A M B R I A

Shell-branded Service Station

540 Hegenberger Road
Oakland, California
Incident #98995752

September 22, 2004

G:\OAKLAND 540 HEGENBERGER\FIGURES\930M04.DWG

Table 1: Groundwater Extraction - System Analytical Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger, Oakland, CA

Sample Date (mm/dd/yyyy)	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)
04/28/2003	<1,000	<10	2,700	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
05/12/2003	<10,000	<100	21,000	51 ^a	<0.50	<0.50	140 ^a	<0.50	<0.50	99 ^a	<0.50	<0.50
05/27/2003	<10,000	<100	29,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
06/09/2003	<25,000	<250	20,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
06/23/2003	<500	<5.0	1,300	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
07/08/2003	<1,000	<10	2,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
07/25/2003	<500	<50	16,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
08/05/2003	<5,000	<50	11,000	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
08/19/2003	<10,000	<100	13,000	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
09/05/2003	<5,000	<50	8,900	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
09/19/2003	<2,000	<20	6,900	58	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
10/01/2003	<2,500	<25	5,300	<100	<1.0	<10	<50	<0.50	<5.0	<50	<0.50	<5.0
11/14/2003	<1,300	20	1,300	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
12/02/2003	<1,300	45	1,200	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
12/18/2003	<1,000	11	1,200	<500	<5.0	<50	<50	<0.50	<5.0	<50	<0.50	<5.0
01/06/2004	<250	<2.5	240	<500	<5.0	<50	<50	<0.50	<5.0	<50	<0.50	<5.0
02/04/2004	<500	<5.0	620	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
03/09/2004	<100	<1.0	100	<50	<0.50	<0.50	NS	NS	NS	NS	NS	NS
04/02/2004	<100	<1.0	110	<50	<0.50	<0.50	NS	NS	NS	NS	NS	NS
05/14/2004	<100	<1.0	270	<50	<0.50	<5.0	NS	NS	NS	NS	NS	NS
06/10/2004	<100	1.4	180	<50	<0.50	<5.0	NS	NS	NS	NS	NS	NS
07/08/2004	<100	<1.0	190	<50	<0.50	<5.0	<50	<0.50	<5.0	NS	NS	NS
08/04/2004	<100	<1.0	160	<50	<0.50	<5.0	NS	NS	NS	<50	<0.50	<5.0
11/02/2004	<100	6.6	240	130	<0.50	<5.0	<50	<0.50	<5.0	NS	NS	NS

Table 1: Groundwater Extraction - System Analytical Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger, Oakland, CA

11/23/2004	<100	<1.0	170	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
12/06/2004	<100	<1.0	91	<50	<0.50	<5.0	NS	NS	NS	<50	<0.50	<5.0

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Conc. = Concentration

ppb = parts per billion, equivalent to $\mu\text{g/l}$

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

a = Hydrocarbons reported in the gasoline range do not match the laboratory gasoline standard.

Table 2: Groundwater Extraction - Operation and Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, CA

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)
04/28/03	3.3	840	0	0.00	0	<1,000	0.000	0.000	<10	0.000	0.000	2,700	0.000	0.000
05/02/03	101.3	6,680	5,840	0.99	5,840		0.024	0.024		0.000	0.000		0.132	0.132
05/12/03	341.2	23,885	17,205	1.20	23,045	<10,000	0.718	0.742	<100	0.007	0.007	21,000	3.015	3.146
05/27/03	699.9	45,085	21,200	0.99	44,245	<10,000	0.885	1.627	<100	0.009	0.016	29,000	5.130	8.277
06/09/03	1011.8	58,453	13,368	0.71	57,613	<25,000	1.394	3.021	<250	0.014	0.030	20,000	2.231	10.507
06/23/03	1347.2	67,082	8,629	0.43	66,242	<500	0.018	3.039	<5.0	0.000	0.030	1,300	0.094	10.601
07/08/03	1706.9	80,092	13,010	0.60	79,252	<1,000	0.054	3.093	<10	0.001	0.031	2,000	0.217	10.818
07/25/03	2113.6	97,580	17,488	0.72	96,740	<500	0.036	3.130	<50	0.004	0.035	16,000	2.335	13.153
08/05/03	2136.0	98,536	956	0.71	97,696	<5,000	0.020	3.150	<50	0.000	0.035	11,000	0.088	13.241
08/19/03	2473.8	114,245	15,709	0.78	113,405	<10,000	0.655	3.805	<100	0.007	0.041	13,000	1.704	14.945
09/05/03	2881.3	125,020	10,775	0.44	124,180	<5,000	0.225	4.030	<50	0.002	0.044	8,900	0.800	15.745
09/19/03	3218.8	136,594	11,574	0.57	135,754	<2,000	0.097	4.126	<20	0.001	0.045	6,900	0.666	16.411
10/01/03	3503.6	145,329	8,735	0.51	144,489	<2,500	0.091	4.218	<25	0.001	0.045	5,300	0.386	16.798
10/17/03	3821.0	154,978	9,649	0.51	154,138		0.101	4.318		0.001	0.046		0.427	17.224
10/31/03	4155.5	165,292	10,314	0.51	164,452		0.108	4.426		0.001	0.048		0.456	17.681
11/14/03	4299.6	171,405	6,113	0.71	170,565	<1,300	0.033	4.459	20	0.001	0.049	1,300	0.066	17.747
11/19/03	4300.4	171,405	0	0.00	170,565		0.000	4.459		0.000	0.049		0.000	17.747
11/26/03	4468.3	179,248	7,843	0.78	178,408		0.043	4.502		0.001	0.050		0.085	17.832
12/02/03	4614.1	186,020	6,772	0.77	185,180	<1,300	0.037	4.538	45	0.003	0.052	1,200	0.068	17.900
12/18/03	5000.8	205,130	19,110	0.82	204,290		0.104	4.642		0.007	0.060		0.191	18.091
01/02/04	5361.9	209,447	4,317	0.20	208,607		0.023	4.665		0.002	0.061		0.043	18.134
01/06/04	5451.1	210,081	634	0.12	209,241	<250	0.001	4.666	<2.5	0.000	0.061	240	0.001	18.136
01/20/04	5788.5	214,091	4,010	0.20	213,251		0.004	4.670		0.000	0.061		0.008	18.144
01/28/04	5842.8	215,451	1,360	0.42	214,611		0.001	4.672		0.000	0.061		0.003	18.146
02/04/04	5987.0	220,414	4,963	0.57	219,574	<500	0.010	4.682	<5.0	0.000	0.061	620	0.026	18.172
02/18/04	6343.4	222,732	2,318	0.11	221,892		0.005	4.687		0.000	0.061		0.012	18.184
02/20/04	6392.8	223,811	1,079	0.36	222,971		0.002	4.689		0.000	0.061		0.006	18.190
03/09/04	6688.4	229,070	5,259	0.30	228,230	<100	0.002	4.691	<1.0	0.000	0.061	100	0.004	18.194
03/25/04	7074.7	234,471	5,401	0.23	233,631		0.002	4.693		0.000	0.061		0.005	18.199
04/02/04	7262.7	237,008	2,537	0.22	236,168	<100	0.001	4.695	<1.0	0.000	0.062	110	0.002	18.201
04/14/04	7554.7	238,665	1,657	0.09	237,825		0.001	4.695		0.000	0.062		0.002	18.202
04/27/04	7864.7	266,992	28,327	1.52	266,152		0.012	4.707		0.000	0.062		0.026	18.228
05/14/04	8271.1	281,246	14,254	0.58	280,406	<100	0.006	4.713	<1.0	0.000	0.062	270	0.032	18.261
05/26/04	8556.7	300,888	19,642	1.15	300,048		0.008	4.721		0.000	0.062		0.044	18.305
06/10/04	8922.2	304,323	3,435	0.16	303,483	<100	0.001	4.723	1.4	0.000	0.062	180	0.005	18.310

Table 2: Groundwater Extraction - Operation and Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road , Oakland, CA

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)		
06/15/04	9017.3	310,562	6,239	1.09	309,722		0.003	4.725		0.000	0.062		0.009	18.319		
06/23/04	9209.9	315,074	4,512	0.39	314,234		0.002	4.727		0.000	0.062		0.007	18.326		
07/08/04	9574.6	316,639	1,565	0.07	315,799	<100	0.001	4.728	<1.0	0.000	0.062	190	0.002	18.329		
07/23/04	9933.6	325,405	8,767	0.41	324,565		0.004	4.731		0.000	0.062		0.014	18.342		
08/04/04	10219.5	331,453	6,048	0.35	330,613	<100	0.003	4.734	<1.0	0.000	0.062	160	0.008	18.351		
11/02/04	10221.8	331,745	292	2.12	330,905	<100	0.000	4.734	6.6	0.001	0.063	240	0.001	18.351		
11/23/04	10578.6	338,624	6,879	0.32	337,784	<100	0.003	4.737	<1.0	0.002	0.065	170	0.010	18.361		
12/06/04	10893.4	338,754	130	0.01	337,914	<100	0.000	4.737	<1.0	0.000	0.065	91	0.000	18.361		
12/17/04	11154.0	344,387	5,633	0.36	343,547		0.002	4.739		0.000	0.065		0.004	18.365		
Total Extracted Volume=			343,547				Total Pounds Removed:			4.73933	Total Pounds Removed:		0.065	Total Pounds Removed:		18.365
Average Period Operational Flow Rate=			0.23				Total Gallons Removed:			0.768	Total Gallons Removed:		0.011	Total Gallons Removed:		2.974

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Conc. = Concentration

ppb = Parts per billion, equivalent to µg/L

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/10⁶µg) 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

System started on 4/28/03 with 3.3 hours and 880 gallons on flow meter.

ATTACHMENT A
Blaine Groundwater Monitoring Report
and Field Notes

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

November 4, 2004

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

Third Quarter 2004 Groundwater Monitoring at
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Monitoring performed on September 22, 2004

Groundwater Monitoring Report **040922-MN-3**

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 Martinez Refining Company.

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/ks

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
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WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1 (a)	08/26/1998	2,700	28	55	59	39	33,000	NA	NA	NA	NA	NA	NA	10.54	7.91	2.63	1.8
MW-1 (b)	08/26/1998	<1,000	22	<10	<10	<10	17,000	NA	NA	NA	NA	NA	NA	10.54	7.91	2.63	2.2
MW-1	12/28/1998	<5,000	<50.0	<50.0	<50.0	<50.0	153,000	33,000	NA	NA	NA	NA	NA	10.54	8.75	1.79	1.9
MW-1	03/29/1999	<2,000	<20.0	<20.0	<20.0	<20.0	693,000	NA	NA	NA	NA	NA	NA	10.54	8.32	2.22	2.0
MW-1	06/22/1999	20,000	<200	<200	<200	<200	150,000	NA	NA	NA	NA	NA	NA	10.54	9.05	1.49	1.7
MW-1	09/30/1999	<2,500	<25.0	<25.0	<25.0	<25.0	30,900	NA	NA	NA	NA	NA	NA	10.54	8.35	2.19	2.6
MW-1	11/19/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.58	0.96	NA
MW-1	11/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.65	0.89	NA
MW-1	12/02/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.55	0.99	NA
MW-1	12/10/1999	<50.0	29.7	<20.0	<20.0	<20.0	76,300	NA	NA	NA	NA	NA	NA	10.54	8.86	1.68	1.2
MW-1	03/02/2000	<2,500	<25.0	<25.0	<25.0	<25.0	27,600	NA	NA	NA	NA	NA	NA	10.54	8.83	1.71	3.2
MW-1	06/08/2000	<2,000	<20.0	<20.0	<20.0	<20.0	59,000	67,600	NA	NA	NA	NA	NA	10.54	7.78	2.76	1.9
MW-1	09/05/2000	<10,000	411	<100	<100	<100	71,100	115,000e	NA	NA	NA	NA	NA	10.54	7.84	2.70	NA
MW-1	12/15/2000	35,600	1,310	<50.0	<50.0	<50.0	136,000	f	NA	NA	NA	NA	NA	10.54	7.65	2.89	NA
MW-1	03/09/2001	<10,000	1,390	<100	<100	<100	89,600	164,000	NA	NA	NA	NA	NA	10.54	6.44	4.10	NA
MW-1	06/27/2001	<5,000	<50	<50	<50	<50	NA	19,000	NA	NA	NA	NA	NA	10.54	8.46	2.08	NA
MW-1	09/19/2001	<5,000	<50	<50	<50	<50	NA	52,000	NA	NA	NA	NA	NA	10.54	8.10	2.44	NA
MW-1	12/31/2001	<5,000	<25	<25	<25	<25	NA	17,000	NA	NA	NA	NA	NA	10.54	7.31	3.23	NA
MW-1	03/14/2002	<20,000	<200	<200	<200	<200	NA	60,000	NA	NA	NA	NA	NA	10.54	7.68	2.86	NA
MW-1	06/25/2002	<5,000	<50	<50	<50	<50	NA	34,000	NA	NA	NA	NA	NA	10.54	8.40	2.14	NA
MW-1	09/19/2002	<2,500	<25	<25	<25	<25	NA	18,000	NA	NA	NA	NA	NA	10.52	8.58	1.94	NA
MW-1	12/12/2002	<5,000	<50	<50	<50	<50	NA	30,000	NA	NA	NA	NA	NA	10.52	8.41	2.11	NA
MW-1	01/02/2003	NA	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	NA	NA	NA	NA	10.52	7.45	3.07	NA
MW-1	03/20/2003 g	3,800	<25	<25	<25	<25	5,500	NA	NA	NA	NA	NA	NA	10.52	8.21	2.31	NA
MW-1	06/23/2003	<10,000	<100	<100	<100	<200	NA	35,000	NA	NA	NA	NA	NA	10.52	9.02	1.50	NA
MW-1	09/22/2003	<5,000	<50	<50	<50	<100	NA	15,000	NA	NA	NA	NA	NA	10.52	15.74	-5.22	NA
MW-1	12/03/2003	<1,300	<13	<13	<13	<25	NA	3,600	NA	NA	NA	NA	NA	10.52	18.35 h	NA	NA
MW-1	03/18/2004	<250	<2.5	<2.5	<2.5	<5.0	NA	570	NA	NA	NA	NA	NA	10.52	7.32	3.20	NA
MW-1	05/25/2004	<250	<2.5	<2.5	<2.5	<5.0	NA	250	NA	NA	NA	NA	NA	10.52	6.80	3.72	NA
MW-1	09/22/2004	<2,000	<20	<20	<20	<40	NA	170	<80	<80	<80	20,000	<2,000	10.52	6.55	3.97	NA
MW-2 (a)	08/26/1998	<250	3.2	<2.5	<2.5	<2.5	4,000	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.4

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2 (b)	08/26/1998	<250	3.1	<2.5	<2.5	<2.5	4,800	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.7
MW-2 (D)(b)	08/26/1998	<250	4.8	<2.5	<2.5	6.0	3,300	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.7
MW-2	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	28.8	NA	NA	NA	NA	NA	NA	9.21	7.34	1.87	2.1
MW-2	03/29/1999	235	<0.500	<0.500	<0.500	3.4	101	NA	NA	NA	NA	NA	NA	9.21	6.85	2.36	2.0
MW-2	06/22/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	9.21	7.10	2.11	1.9
MW-2	09/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	1,700	NA	NA	NA	NA	NA	NA	9.21	8.06	1.15	1.0
MW-2	12/10/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	9.21	8.61	0.60	1.4
MW-2	03/02/2000	<500	11.5	<5.00	<5.00	<5.00	5,280	NA	NA	NA	NA	NA	NA	9.21	6.33	2.88	0.4
MW-2	06/08/2000	<50.0	0.670	<0.500	<0.500	<0.500	3,160	NA	NA	NA	NA	NA	NA	9.21	6.87	2.34	1.6
MW-2	09/05/2000	<1,000	<10.0	<10.0	<10.0	<10.0	9,600	NA	NA	NA	NA	NA	NA	9.21	6.79	2.42	NA
MW-2	12/15/2000	<200	<2.00	<2.00	<2.00	<2.00	6,320	NA	NA	NA	NA	NA	NA	9.21	6.76	2.45	NA
MW-2	03/09/2001	<500	<5.00	<5.00	<5.00	<5.00	17,200	NA	NA	NA	NA	NA	NA	9.21	6.28	2.93	NA
MW-2	06/27/2001	<100	1.4	<1.0	<1.0	<2.0	NA	470	NA	NA	NA	NA	NA	9.21	7.12	2.09	NA
MW-2	09/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	330	NA	NA	NA	NA	NA	9.21	7.17	2.04	NA
MW-2	12/31/2001	<100	<1.0	<1.0	<1.0	<1.0	NA	420	NA	NA	NA	NA	NA	9.21	6.24	2.97	NA
MW-2	03/14/2002	<250	4.5	3.3	<2.5	<2.5	NA	1,600	NA	NA	NA	NA	NA	9.21	6.72	2.49	NA
MW-2	06/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	110	NA	NA	NA	NA	NA	9.21	7.23	1.98	NA
MW-2	09/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	90	NA	NA	NA	NA	NA	9.19	7.48	1.71	NA
MW-2	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	170	NA	NA	NA	NA	NA	9.19	7.33	1.86	NA
MW-2	03/20/2003 g	56	<0.50	<0.50	<0.50	<0.50	58	NA	NA	NA	NA	NA	NA	9.19	7.65	1.54	NA
MW-2	06/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	44	NA	NA	NA	NA	NA	9.19	8.72	0.47	NA
MW-2	09/22/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	37	NA	NA	NA	NA	NA	9.19	8.84	0.35	NA
MW-2	12/03/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	99	NA	NA	NA	NA	NA	9.19	8.95	0.24	NA
MW-2	03/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	24	NA	NA	NA	NA	NA	9.19	7.19	2.00	NA
MW-2	05/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	53	NA	NA	NA	NA	NA	9.19	8.40	0.79	NA
MW-2	09/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	24	<2.0	<2.0	<2.0	100	<50	9.19	7.08	2.11	NA
MW-3 (a)	08/26/1998	2,300	180	330	<0.50	420	44,000	NA	NA	NA	NA	NA	NA	9.45	6.52	2.93	1.8
MW-3 (b)	08/26/1998	<50	<0.50	<0.50	<0.50	<0.50	52,000	75,000	NA	NA	NA	NA	NA	9.45	6.52	2.93	2.3
MW-3	12/28/1998	<5.00	139	<50.0	<50.0	<50.0	15,100	NA	NA	NA	NA	NA	NA	9.45	6.73	2.72	1.7
MW-3	03/29/1999	52,500	5,500	6,900	1,360	6,250	508,000	630,000 (c)	NA	NA	NA	NA	NA	9.45	6.21	3.24	2.1
MW-3	06/22/1999	58,000	6,600	9,850	1,640	6,950	677,000	653,000	NA	NA	NA	NA	NA	9.45	7.00	2.45	1.3

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MW-3	09/30/1999	4,360	121	122	36.1	647	33,700	35,600	NA	NA	NA	NA	NA	9.45	6.84	2.61	0.6
MW-3	11/19/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	7.93	1.52	NA
MW-3	11/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	8.25	1.20	NA
MW-3	12/02/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	7.55	1.90	NA
MW-3	12/10/1999	4,220	973	26.3	273	584	88,200	NA	NA	NA	NA	NA	NA	9.45	7.28	2.17	2.5
MW-3	03/02/2000	65,300	5,210	10,300	2,650	15,100	56,800	59,800e	NA	NA	NA	NA	NA	9.45	5.87	3.58	d
MW-3	06/08/2000	72,700	3,570	10,200	2,100	13,400	44,400	NA	NA	NA	NA	NA	NA	9.45	5.32	4.13	1.1
MW-3	09/05/2000	26,100	959	2,910	1,090	5,640	24,000	NA	NA	NA	NA	NA	NA	9.45	5.60	3.85	NA
MW-3	12/15/2000	5,190	438	8.39	483	530	19,100	11,800f	NA	NA	NA	NA	NA	9.45	6.27	3.18	NA
MW-3	03/09/2001	5,880	472	42.2	392	1,290	41,800	NA	NA	NA	NA	NA	NA	9.45	5.71	3.74	NA
MW-3	06/27/2001	9,100	330	79	140	1,600	NA	31,000	NA	NA	NA	NA	NA	9.45	6.88	2.57	NA
MW-3	09/19/2001	790	14	18	17	67	NA	8,100	NA	NA	NA	NA	NA	9.45	6.70	2.75	NA
MW-3	12/31/2001	<5,000	220	<50	86	<50	NA	22,000	NA	NA	NA	NA	NA	9.45	5.92	3.53	NA
MW-3	03/14/2002	<2,500	<25	<25	<25	<25	NA	12,000	NA	NA	NA	NA	NA	9.45	6.25	3.20	NA
MW-3	06/25/2002	<10,000	160	<100	<100	<100	NA	42,000	NA	NA	NA	NA	NA	9.45	6.65	2.80	NA
MW-3	09/19/2002	<10,000	650	<100	280	360	NA	84,000	NA	NA	NA	NA	NA	9.45	6.51	2.94	NA
MW-3	12/12/2002	<10,000	170	<100	<100	<100	NA	45,000	NA	NA	NA	NA	NA	9.45	6.97	2.48	NA
MW-3	01/02/2003	NA	59	<5.0	5.3	<10	NA	NA	NA	NA	NA	NA	NA	9.45	5.90	3.55	NA
MW-3	03/20/2003 g	5,100	<50	<50	<50	<50	4,400	NA	NA	NA	NA	NA	NA	9.45	6.87	2.58	NA
MW-3	06/23/2003	<5,000	<50	<50	<50	<100	NA	8,100	NA	NA	NA	NA	NA	9.45	13.80	-4.35	NA
MW-3	09/22/2003	<250	<2.5	4.6	<2.5	<5.0	NA	470	NA	NA	NA	NA	NA	9.45	6.31	3.14	NA
MW-3	12/03/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	180	NA	NA	NA	NA	NA	9.45	14.77 h	NA	NA
MW-3	03/18/2004	<1,000	14	<10	<10	<20	NA	2,500	NA	NA	NA	NA	NA	9.45	6.07	3.38	NA
MW-3	05/25/2004	3,900	<10	66	23	470	NA	140	NA	NA	NA	NA	NA	9.45	14.63	-5.18	NA
MW-3	09/22/2004	<10,000	830	<100	290	450	NA	28,000	<400	<400	<400	13,000	<10,000	9.45	4.86	4.59	NA
MW-4	09/25/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.88	7.64	2.24	NA
MW-4	12/15/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	9.88	7.55	2.33	NA
MW-4	03/09/2001	<50.0	<0.500	0.730	<0.500	0.529	3.16	NA	NA	NA	NA	NA	NA	9.88	7.04	2.84	NA
MW-4	06/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.76	2.12	NA
MW-4	09/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.69	2.19	NA
MW-4	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.08	2.80	NA

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MW-4	03/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.57	2.31	NA
MW-4	06/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.50	1.38	NA
MW-4	09/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.22	1.66	NA
MW-4	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.08	1.80	NA
MW-4	03/20/2003 g	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	NA	NA	NA	9.88	7.92	1.96	NA
MW-4	06/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.18	1.70	NA
MW-4	09/22/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	NA	9.88	8.28	1.60	NA
MW-4	12/03/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	15	NA	NA	NA	NA	NA	9.88	8.44	1.44	NA
MW-4	03/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	15	NA	NA	NA	NA	NA	9.88	7.52	2.36	NA
MW-4	05/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	NA	NA	NA	NA	NA	9.88	8.30	1.58	NA
MW-4	09/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	<2.0	<2.0	<2.0	<5.0	<50	9.88	7.72	2.16	NA
MW-5	06/18/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.36	NA	NA
MW-5	06/25/2002	<10,000	<100	<100	<100	<100	NA	60,000	NA	NA	NA	NA	NA	NA	8.30	NA	NA
MW-5	09/19/2002	<2,000	<20	<20	<20	<20	NA	7,200	NA	NA	NA	NA	NA	10.03	8.44	1.59	NA
MW-5	12/12/2002	<5,000	<50	<50	<50	<50	NA	33,000	NA	NA	NA	NA	NA	10.03	8.49	1.54	NA
MW-5	03/20/2003 g	12,000	<50	<50	<50	<50	15,000	NA	NA	NA	NA	NA	NA	10.03	8.23	1.80	NA
MW-5	06/23/2003	<1,000	<10	<10	<10	<20	NA	1,700	NA	NA	NA	NA	NA	10.03	16.70	-6.67	NA
MW-5	09/22/2003	<2,500	<25	<25	<25	<50	NA	4,400	NA	NA	NA	NA	NA	10.03	16.70	-6.67	NA
MW-5	12/03/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	70	NA	NA	NA	NA	NA	10.03	16.79	-6.76	NA
MW-5	03/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	43	NA	NA	NA	NA	NA	10.03	16.78	-6.75	NA
MW-5	05/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	30	NA	NA	NA	NA	NA	10.03	13.02	-2.99	NA
MW-5	09/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	<2.0	<2.0	<2.0	83	<50	10.03	5.91	4.12	NA
C-1	09/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	1.44	NA	NA
C-1	03/29/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	2.59	NA	NA
C-1	06/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	3.72	NA	NA
C-1	09/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	3.08	NA	NA
C-1	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	0.64	NA	NA
C-1	03/20/2003 g	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	NA	NA	NA	NA	4.81	NA	NA
SD-1	09/19/2001	Unable to sample	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
SD-1	03/29/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	06/25/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	09/19/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	12/12/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	03/20/2003	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	09/19/2001	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	03/29/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	06/25/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	09/19/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	12/12/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	03/20/2003	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BW-A	06/22/1999	318	<0.50	<0.50	0.590	1.48	4,470	NA	NA	NA	NA	NA	NA	NA	4.71	NA	1.1
BW-A	06/25/2002	<500	<5.0	<5.0	<5.0	18	NA	3,100	NA	NA	NA	NA	NA	NA	5.14	NA	NA
BW-A	09/19/2002	<200	<2.0	<2.0	<2.0	<2.0	NA	<20	NA	NA	NA	NA	NA	NA	7.19	NA	NA
BW-A	12/12/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	2,900	NA	NA	NA	NA	NA	NA	6.40	NA	NA
BW-A	03/20/2003 g	<2,500	<25	<25	<25	<25	<250	NA	NA	NA	NA	NA	NA	NA	5.36	NA	NA
BW-A	06/23/2003	<1,000	<10	<10	<10	<20	NA	<100	NA	NA	NA	NA	NA	NA	10.27	NA	NA
BW-B	06/22/1999	<250	<2.5	<2.5	<2.5	<2.5	8,600	NA	NA	NA	NA	NA	NA	NA	5.90	NA	1.2
BW-B	06/27/2001	<5,000	<50	<50	<50	<50	NA	40,000	NA	NA	NA	NA	NA	NA	5.83	NA	NA
BW-B	12/31/2001	<2,000	<20	<20	<20	<20	NA	9,200	NA	NA	NA	NA	NA	NA	4.19	NA	NA
BW-B	03/14/2002	<2,000	<20	<20	<20	<20	NA	9,400	NA	NA	NA	NA	NA	NA	5.24	NA	NA
BW-B	06/25/2002	<2,000	<20	<20	<20	<20	NA	6,600	NA	NA	NA	NA	NA	NA	6.19	NA	NA
BW-B	09/19/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	<50	NA	NA	NA	NA	NA	NA	8.46	NA	NA
BW-B	12/12/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	1,700	NA	NA	NA	NA	NA	NA	7.46	NA	NA
BW-B	03/20/2003 g	170	<1.0	<1.0	<1.0	<1.0	190	NA	NA	NA	NA	NA	NA	NA	6.23	NA	NA
BW-B	06/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	43	NA	NA	NA	NA	NA	NA	9.95	NA	NA
BW-C	06/22/1999	<50	<0.50	<0.50	<0.50	0.98	11,000	NA	NA	NA	NA	NA	NA	NA	5.91	NA	1.6
BW-C	06/25/2002	<5,000	<50	<50	<50	<50	NA	20,000	NA	NA	NA	NA	NA	NA	6.49	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
BW-C	09/19/2002	<1,000	<10	<10	<10	<10	NA	400	NA	NA	NA	NA	NA	NA	8.52	NA	NA
BW-C	12/12/2002	<2,000	<20	<20	<20	<20	NA	8,000	NA	NA	NA	NA	NA	NA	7.57	NA	NA
BW-C	03/20/2003 g	270	<1.0	<1.0	<1.0	<1.0	250	NA	NA	NA	NA	NA	NA	NA	6.48	NA	NA
BW-C	06/23/2003	<1,000	<10	<10	<10	<20	NA	170	NA	NA	NA	NA	NA	NA	11.48	NA	NA
BW-D	06/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2,190	NA	NA	NA	NA	NA	NA	NA	4.78	NA	1.4
BW-D	06/25/2002	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BW-D	07/02/2002	<1,000	23	<10	<10	<10	NA	<100	NA	NA	NA	NA	NA	NA	6.36	NA	NA
BW-D	09/19/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	<25	NA	NA	NA	NA	NA	NA	7.25	NA	NA
BW-D	12/12/2002	<5,000	<50	<50	<50	<50	NA	16,000	NA	NA	NA	NA	NA	NA	6.21	NA	NA
BW-D	03/20/2003 g	71	<0.50	<0.50	<0.50	<0.50	55	NA	NA	NA	NA	NA	NA	NA	5.23	NA	NA
BW-D	06/23/2003	<1,000	<10	<10	<10	<20	NA	<100	NA	NA	NA	NA	NA	NA	10.25	NA	NA
BW-D	09/22/2003	<100	<1.0	<1.0	<1.0	<2.0	NA	120	NA	NA	NA	NA	NA	NA	10.18	NA	NA
BW-D	12/03/2003	<1,300	110	<13	<13	29	NA	560	NA	NA	NA	NA	NA	NA	10.20	NA	NA
BW-D	03/18/2004	<50	0.67	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	NA	NA	NA	3.42	NA	NA
BW-D	05/25/2004	<50	1.4	0.96	<0.50	<1.0	NA	1.7	NA	NA	NA	NA	NA	NA	8.83	NA	NA
BW-D	09/22/2004	<100	6.9	<1.0	2.1	4.2	NA	210	NA	NA	NA	NA	NA	NA	2.75	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 27, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 27, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ppm = Parts per million

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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Notes:

a = Pre-purge

b = Post purge

c = Lab confirmed MTBE by mistake. MTBE value at MW-1 should have been confirmed instead.

d = DO reading not taken.

e = Sample was analyzed outside of the EPA recommended holding time.

f = The second highest MTBE hit was mistakenly confirmed. MTBE for MW-1 should have been confirmed.

g = On March 20, 2003, all analyses run by EPA Method 8015/8020.

h = Depth to top of pump; pump prevented depth to water measurement.

Ethanol analyzed by EPA Method 8260B.

Site surveyed September 21, 2000 by Virgil Chavez Land Surveying of Vallejo, CA.

C-1 is a canal sample location.

SD-1 and SD-2 are storm drains.

Wells MW-1 through MW-5 surveyed January 24 and June 19, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Blaine Tech Services, Inc.

October 07, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 040923-MN3
Project: 98995752
Site: 540 Hegenberger Road, Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 09/23/2004 14:41

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 11/07/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

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

Sincerely,



Melissa Brewer
Project Manager

Gas/BTEX Fuel Oxygenates 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: 040923-MN3

98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	09/22/2004 17:31	Water	1
MW-2	09/22/2004 17:04	Water	2
MW-3	09/22/2004 17:49	Water	3
MW-4	09/22/2004 15:25	Water	4
MW-5	09/22/2004 18:01	Water	5
BW-D	09/22/2004 16:25	Water	6

Gas/BTEX Fuel Oxygenates 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: 040923-MN3
98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-1	Lab ID: 2004-09-0726 - 1
Sampled: 09/22/2004 17:31	Extracted: 10/4/2004 20:00
Matrix: Water	QC Batch#: 2004/10/04-2A.64
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	2000	ug/L	40.00	10/04/2004 20:00	
Benzene	ND	20	ug/L	40.00	10/04/2004 20:00	
Toluene	ND	20	ug/L	40.00	10/04/2004 20:00	
Ethylbenzene	ND	20	ug/L	40.00	10/04/2004 20:00	
Total xylenes	ND	40	ug/L	40.00	10/04/2004 20:00	
tert-Butyl alcohol (TBA)	20000	200	ug/L	40.00	10/04/2004 20:00	
Methyl tert-butyl ether (MTBE)	170	20	ug/L	40.00	10/04/2004 20:00	
Di-isopropyl Ether (DIPE)	ND	80	ug/L	40.00	10/04/2004 20:00	
Ethyl tert-butyl ether (ETBE)	ND	80	ug/L	40.00	10/04/2004 20:00	
tert-Amyl methyl ether (TAME)	ND	80	ug/L	40.00	10/04/2004 20:00	
Ethanol	ND	2000	ug/L	40.00	10/04/2004 20:00	
Surrogate(s)						
1,2-Dichloroethane-d4	105.9	76-130	%	40.00	10/04/2004 20:00	
Toluene-d8	100.0	78-115	%	40.00	10/04/2004 20:00	

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

10/06/2004 08:47

Gas/BTEX Fuel Oxygenates 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: 040923-MN3
98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-2	Lab ID: 2004-09-0726 - 2
Sampled: 09/22/2004 17:04	Extracted: 10/4/2004 20:23
Matrix: Water	QC Batch#: 2004/10/04-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/04/2004 20:23	
Benzene	ND	0.50	ug/L	1.00	10/04/2004 20:23	
Toluene	ND	0.50	ug/L	1.00	10/04/2004 20:23	
Ethylbenzene	ND	0.50	ug/L	1.00	10/04/2004 20:23	
Total xylenes	ND	1.0	ug/L	1.00	10/04/2004 20:23	
tert-Butyl alcohol (TBA)	100	5.0	ug/L	1.00	10/04/2004 20:23	
Methyl tert-butyl ether (MTBE)	24	0.50	ug/L	1.00	10/04/2004 20:23	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/04/2004 20:23	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/04/2004 20:23	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/04/2004 20:23	
Ethanol	ND	50	ug/L	1.00	10/04/2004 20:23	
Surrogate(s)						
1,2-Dichloroethane-d4	106.7	76-130	%	1.00	10/04/2004 20:23	
Toluene-d8	98.5	78-115	%	1.00	10/04/2004 20:23	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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San Jose, CA 95112-1105

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

Project: 040923-MN3

98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B Test(s): 8260B
 Sample ID: MW-3 Lab ID: 2004-09-0726 - 3
 Sampled: 09/22/2004 17:49 Extracted: 10/4/2004 20:45
 Matrix: Water QC Batch#: 2004/10/04-2A.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	10000	ug/L	200.00	10/04/2004 20:45	
Benzene	830	100	ug/L	200.00	10/04/2004 20:45	
Toluene	ND	100	ug/L	200.00	10/04/2004 20:45	
Ethylbenzene	290	100	ug/L	200.00	10/04/2004 20:45	
Total xylenes	450	200	ug/L	200.00	10/04/2004 20:45	
tert-Butyl alcohol (TBA)	13000	1000	ug/L	200.00	10/04/2004 20:45	
Methyl tert-butyl ether (MTBE)	28000	100	ug/L	200.00	10/04/2004 20:45	
Di-isopropyl Ether (DIPE)	ND	400	ug/L	200.00	10/04/2004 20:45	
Ethyl tert-butyl ether (ETBE)	ND	400	ug/L	200.00	10/04/2004 20:45	
tert-Amyl methyl ether (TAME)	ND	400	ug/L	200.00	10/04/2004 20:45	
Ethanol	ND	10000	ug/L	200.00	10/04/2004 20:45	
Surrogate(s)						
1,2-Dichloroethane-d4	109.8	76-130	%	200.00	10/04/2004 20:45	
Toluene-d8	102.1	78-115	%	200.00	10/04/2004 20:45	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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

Project: 040923-MN3

98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-4	Lab ID:	2004-09-0726 - 4
Sampled:	09/22/2004 15:25	Extracted:	10/4/2004 21:07
Matrix:	Water	QC Batch#:	2004/10/04-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/04/2004 21:07	
Benzene	ND	0.50	ug/L	1.00	10/04/2004 21:07	
Toluene	ND	0.50	ug/L	1.00	10/04/2004 21:07	
Ethylbenzene	ND	0.50	ug/L	1.00	10/04/2004 21:07	
Total xylenes	ND	1.0	ug/L	1.00	10/04/2004 21:07	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	10/04/2004 21:07	
Methyl tert-butyl ether (MTBE)	20	0.50	ug/L	1.00	10/04/2004 21:07	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/04/2004 21:07	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/04/2004 21:07	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/04/2004 21:07	
Ethanol	ND	50	ug/L	1.00	10/04/2004 21:07	
Surrogate(s)						
1,2-Dichloroethane-d4	109.0	76-130	%	1.00	10/04/2004 21:07	
Toluene-d8	100.8	78-115	%	1.00	10/04/2004 21:07	

Gas/BTEX Fuel Oxygenates 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: 040923-MN3

98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-5	Lab ID: 2004-09-0726 - 5
Sampled: 09/22/2004 18:01	Extracted: 10/4/2004 22:14
Matrix: Water	QC Batch#: 2004/10/04-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/04/2004 22:14	
Benzene	ND	0.50	ug/L	1.00	10/04/2004 22:14	
Toluene	ND	0.50	ug/L	1.00	10/04/2004 22:14	
Ethylbenzene	ND	0.50	ug/L	1.00	10/04/2004 22:14	
Total xylenes	ND	1.0	ug/L	1.00	10/04/2004 22:14	
tert-Butyl alcohol (TBA)	83	5.0	ug/L	1.00	10/04/2004 22:14	
Methyl tert-butyl ether (MTBE)	20	0.50	ug/L	1.00	10/04/2004 22:14	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/04/2004 22:14	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/04/2004 22:14	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/04/2004 22:14	
Ethanol	ND	50	ug/L	1.00	10/04/2004 22:14	
Surrogate(s)						
1,2-Dichloroethane-d4	105.3	76-130	%	1.00	10/04/2004 22:14	
Toluene-d8	99.6	78-115	%	1.00	10/04/2004 22:14	

Gas/BTEX Fuel Oxygenates 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: 040923-MN3

98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B Test(s): 8260B
 Sample ID: **BW-D** Lab ID: 2004-09-0726 - 6
 Sampled: 09/22/2004 16:25 Extracted: 10/3/2004 12:48
 Matrix: Water QC Batch#: 2004/10/03-1B.64
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	100	ug/L	2.00	10/03/2004 12:48	
Benzene	6.9	1.0	ug/L	2.00	10/03/2004 12:48	
Toluene	ND	1.0	ug/L	2.00	10/03/2004 12:48	
Ethylbenzene	2.1	1.0	ug/L	2.00	10/03/2004 12:48	
Total xylenes	4.2	2.0	ug/L	2.00	10/03/2004 12:48	
Methyl tert-butyl ether (MTBE)	210	1.0	ug/L	2.00	10/03/2004 12:48	
Surrogate(s)						
1,2-Dichloroethane-d4	99.0	76-130	%	2.00	10/03/2004 12:48	
Toluene-d8	100.2	78-115	%	2.00	10/03/2004 12:48	

Gas/BTEX Fuel Oxygenates 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: 040923-MN3

98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/10/03-1B.64-027

Water

Test(s): 8260B

QC Batch # 2004/10/03-1B.64

Date Extracted: 10/03/2004 10:27

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/03/2004 10:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/03/2004 10:27	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/03/2004 10:27	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/03/2004 10:27	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/03/2004 10:27	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/03/2004 10:27	
Benzene	ND	0.5	ug/L	10/03/2004 10:27	
Toluene	ND	0.5	ug/L	10/03/2004 10:27	
Ethylbenzene	ND	0.5	ug/L	10/03/2004 10:27	
Total xylenes	ND	1.0	ug/L	10/03/2004 10:27	
Ethanol	ND	50	ug/L	10/03/2004 10:27	
Surrogates(s)					
1,2-Dichloroethane-d4	95.8	76-130	%	10/03/2004 10:27	
Toluene-d8	101.6	78-115	%	10/03/2004 10:27	

Gas/BTEX Fuel Oxygenates 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: 040923-MN3
98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/10/04-2A.64-047

Water

Test(s): 8260B

QC Batch # 2004/10/04-2A.64

Date Extracted: 10/04/2004 18:47

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/04/2004 18:47	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/04/2004 18:47	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/04/2004 18:47	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/04/2004 18:47	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/04/2004 18:47	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/04/2004 18:47	
Benzene	ND	0.5	ug/L	10/04/2004 18:47	
Toluene	ND	0.5	ug/L	10/04/2004 18:47	
Ethylbenzene	ND	0.5	ug/L	10/04/2004 18:47	
Total xylenes	ND	1.0	ug/L	10/04/2004 18:47	
Ethanol	ND	50	ug/L	10/04/2004 18:47	
Surrogates(s)					
1,2-Dichloroethane-d4	99.6	76-130	%	10/04/2004 18:47	
Toluene-d8	98.4	78-115	%	10/04/2004 18:47	

Gas/BTEX Fuel Oxygenates 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: 040923-MN3

98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/10/03-1B.64

LCS 2004/10/03-1B.64-042

Extracted: 10/03/2004

Analyzed: 10/03/2004 09:42

LCSD 2004/10/03-1B.64-005

Extracted: 10/03/2004

Analyzed: 10/03/2004 10:05

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.4	24.0	25	101.6	96.0	5.7	65-165	20		
Benzene	21.0	20.1	25	84.0	80.4	4.4	69-129	20		
Toluene	24.8	24.5	25	99.2	98.0	1.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	471	459	500	94.2	91.8		76-130			
Toluene-d8	498	499	500	99.6	99.8		78-115			

Gas/BTEX Fuel Oxygenates 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: 040923-MN3
98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/10/04-2A.64

LCS 2004/10/04-2A.64-002

Extracted: 10/04/2004

Analyzed: 10/04/2004 18:02

LCSD 2004/10/04-2A.64-025

Extracted: 10/04/2004

Analyzed: 10/04/2004 18:25

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	27.8	24.5	25	111.2	98.0	12.6	65-165	20		
Benzene	21.7	21.9	25	86.8	87.6	0.9	69-129	20		
Toluene	25.3	25.9	25	101.2	103.6	2.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	486	451	500	97.2	90.2		76-130			
Toluene-d8	516	526	500	103.2	105.2		78-115			

Gas/BTEX Fuel Oxygenates 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: 040923-MN3
98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2004/10/04-2A.64

MW-4 >> MS

Lab ID: 2004-09-0726 - 004

MS: 2004/10/04-2A.64-030

Extracted: 10/04/2004

Analyzed: 10/04/2004 21:30

Dilution: 1.00

MSD: 2004/10/04-2A.64-052

Extracted: 10/04/2004

Analyzed: 10/04/2004 21:52

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	48.1	47.7	19.5	25	114.4	112.8	1.4	65-165	20		
Benzene	20.9	20.8	ND	25	83.6	83.2	0.5	69-129	20		
Toluene	23.6	25.3	ND	25	94.4	101.2	7.0	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	562	559		500	112.4	111.8		76-130			
Toluene-d8	504	532		500	100.8	106.4		78-115			

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

10/06/2004 08:47

Gas/BTEX Fuel Oxygenates 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: 040923-MN3

98995752

Received: 09/23/2004 14:41

Site: 540 Hegenberger Road, Oakland

Legend and Notes

Analysis Flag

o

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

LAB: STL

SHELL Chain Of Custody Record

89146

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

2004-09-0726

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 2

SAP or CRMT NUMBER (TS/CRMT)

DATE: 7/22/04

PAGE: 1 of 1

Blaine Tech Services ADDRESS: 1080 Rogers Avenue, San Jose, CA 95112 PROJECT CONTACT (Name and Phone/Fax): Leon Gearhart TELEPHONE: 408-673-0555 FAX: 408-673-7771 EMAIL: lgearhart@blainetech.com	BTSS ADDRESS: 540 Hegenberger Road, Oakland PROJECT CONTACT (Name and Phone/Fax): Anni Kreaml (510)420-3335 EMAIL: ShellOaklandEDF@cambria-env.com	TOWN/CITY/STATE: T0600102123 PROJECT NAME (Project Title): 89146-001 LAB USE ONLY
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TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT LIST AGENCY:

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

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

REQUESTED ANALYSIS

TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EOB (8260B)	TPH - Diesel, Extractable (8015m)
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FIELD NOTES:
 Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EOB (8260B)	TPH - Diesel, Extractable (8015m)	TEMPERATURE ON RECEIPT C°
		DATE	TIME													
	BLW-1	9/23/04	1731	LI	3	X	X			X	X					4
	MW-2		1704			X	X			X	X					
	MW-3		1749			X	X			X	X					
	MW-4		1525			X	X			X	X					
	MW-5		1801			X	X			X	X					
	BLW BW-D		1625			X	X	X								

Requested by (Signature):	Received by (Signature):	Date: 9/23/04	Time: 14:41
Requested by (Signature):	Received by (Signature):	Date: 9/23/04	Time: 18:41

WELL GAUGING DATA

Project # 040922-MN3 Date 9/22/04 Client Shell

Site 540 Hezenberger Rd., Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOG
MW-1	2					6.55	22.46	
MW-2	2					7.08	19.92	
MW-3	2					4.86	18.48	
MW-4	4					7.72	18.56	
MW-5	4					5.91	18.60	
BW-D	12					2.75	17.26	

SHELL WELL MONITORING DATA SHEET

BTS #: 040922 - MW	Site: 98995752
Sampler: MDW	Date: 9/22/04
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 22.46	Depth to Water (DTW): 6.55
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]: 9.73	

Purge Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Positive Air Displacement Electric Submersible	Watera Peristaltic Extraction Pump Other _____	Sampling Method: <input checked="" type="checkbox"/> Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	---	---

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

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

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1716	72.6	7.01	4749	127	2.5	cloudy
1719	71.2	7.37	5340	198	5.0	cloudy
1721	71.3	7.40	5192	200	7.5	cloudy 12.62

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 7.5			
Sampling Date: 9/22/04	Sampling Time: 1731	Depth to Water: 9.61		
Sample I.D.: MW-1	Laboratory: STL	Other: _____		
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX	MTBE	TPH-D	Other: oxy's Ethanol	
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 #: 040922-MN3	Site: 98995752
Sampler: none	Date: 9/22/04
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 17.92	Depth to Water (DTW): 7.08
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]: 7.65	

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

Other: _____

$\frac{2.1 \text{ (Gals.)} \times 3}{1 \text{ Case Volume Specified Volumes}} = \frac{6.3 \text{ Gals.}}{\text{Calculated Volume}}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <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
1647	75.5	7.18	644	7200	2.1	Grey, Cloudy
1649	75.0	7.17	577	108	4.2	cloudy
1651	74.7	7.20	599	101	6.3	cloudy DTW = 12.85

Did well dewater? Yes No

Gallons actually evacuated: 6.3

Sampling Date: 9/22/04 Sampling Time: 1704 Depth to Water: 964

Sample I.D.: MW-2 Laboratory: (STD) Other _____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: oxy's Ethanol

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

13.62

SHELL WELL MONITORING DATA SHEET

BTS #: <i>040922-MW3</i>	Site: <i>98995752</i>
Sampler: <i>MAN</i>	Date: <i>9/22/04</i>
Well I.D.: <i>MW-3</i>	Well Diameter: <i>3</i> 4 6 8 ____
Total Well Depth (TD): <i>18.48</i>	Depth to Water (DTW): <i>4.86</i>
Depth to Free Product: <i>---</i>	Thickness of Free Product (feet): <i>---</i>
Referenced to: <i>(PVC)</i> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <i>7.58</i>	

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

$2.2 \text{ (Gals.)} \times 3 = 6.6 \text{ Gals.}$ I Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <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
<i>1739</i>	<i>73.4</i>	<i>7.11</i>	<i>1659</i>	<i>81</i>	<i>2.2</i>	<i>Slightly strong cloudy, odor</i>
<i>1741</i>	<i>73.5</i>	<i>7.22</i>	<i>1616</i>	<i>71</i>	<i>4.4</i>	<i>clearing, strong odor</i>
<i>1743</i>	<i>73.7</i>	<i>7.20</i>	<i>1723</i>	<i>67</i>	<i>6.6</i>	<i>clear, strong odor</i>
						<i>DTW = 10.42</i>

Did well dewater? Yes *(No)* Gallons actually evacuated: *6.6*

Sampling Date: *9/22/04* Sampling Time: *1749* Depth to Water: *7.51*

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

Analyzed for: *(TPH-G) (BTEX)* MTBE TPH-D Other: *oxy's ethanol*

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 #: <u>040922-MW3</u>	Site: <u>98995752</u>
Sampler: <u>MAN</u>	Date: <u>9/22/04</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>18.56</u>	Depth to Water (DTW): <u>7.72</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>9.89</u>	

Purge Method: Bailer	Watera	Sampling Method: <input checked="" type="checkbox"/> Bailer
Disposable Bailer	Peristaltic	Disposable Bailer
Positive Air Displacement	Extraction Pump	Extraction Port
<input checked="" type="checkbox"/> Electric Submersible	Other _____	Dedicated Tubing
Other: _____		

<u>7</u> (Gals.) X	<u>3</u>	= <u>21</u> 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
1517	74.4	7.26	5704	101	7	Slightly cloudy
1519	72.4	7.30	4763	125	14	Slightly cloudy
1521	71.9	7.29	4850	151	21	cloudy

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>21</u>
Sampling Date: <u>9/22/04</u>	Sampling Time: <u>1525</u> Depth to Water: <u>9.80</u>
Sample I.D.: <u>MW-4</u>	Laboratory: <u>(STL)</u> Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>oil's ethanol</u>	
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 #: <u>040922-MW3</u>	Site: <u>98995752</u>
Sampler: <u>MDW</u>	Date: <u>9/22/04</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>18.60</u>	Depth to Water (DTW): <u>5.91</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>8.45</u>	

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

Other: _____

<u>8.0</u> (Gals.) X <u>3</u> = <u>24</u> Gals.
I Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1638</u>	<u>76.3</u>	<u>7.14</u>	<u>908</u>	<u>43</u>	<u>8.0</u>	<u>clear</u>
<u>1635</u>	<u>76.5</u>		<u>954</u>	<u>>200</u>	<u>16.0</u>	<u>light brown, cloudy</u>
<u>1636</u>	<u>well dewatered</u>			<u>—</u>	<u>—</u>	<u>DTW = 15.88</u>
<u>1801</u>	<u>77.5</u>	<u>7.31</u>	<u>2927</u>	<u>85</u>	<u>—</u>	<u>slightly cloudy</u>

Did well dewater? Yes No Gallons actually evacuated: 16.0

Sampling Date: 9/22/04 Sampling Time: 1801 Depth to Water: 9.87

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: alpha, ethanol

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

SHELL WELL MONITORING DATA SHEET

BTS #: 070922-MN3	Site: 98995752
Sampler: MON	Date: 9/22/04
Well I.D.: BW-D	Well Diameter: 2 3 4 6 8 12
Total Well Depth (TD): 17.26	Depth to Water (DTW): 2.75
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.65	

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

Other: _____

$\frac{56}{1 \text{ Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{168}{\text{Calculated Volume}} \text{ Gals.}$	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
1601	76.7	6.87	498	6	56	clear, HC odor
1612	77.0	6.80	510	5	112	clear, odor
1623	77.3	6.75	464	5	168	clear, light odor

Did well dewater? Yes No Gallons actually evacuated: 168

Sampling Date: 9/22/04 Sampling Time: ~~1555~~ ¹⁶²⁵ Depth to Water: 2.81

Sample I.D.: BW-D Laboratory: STL Other _____

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

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

ATTACHMENT B
Arco Groundwater Data

Table 1
Groundwater Elevation and Analytical Data
 ARCO Station #4494
 566 Hegenberger Rd., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-1	6/20/2000	--	a	106.1	13.00	--	7.02	--	99.08	<1,000	<10	<10	<10	<20	14,000/15,000	--	--
	9/26/2000	--	a	106.1	13.00	--	7.07	--	99.03	<500	<5.0	<5.0	<5.0	<5.0	13000/18,800	--	--
	12/17/2000	--		106.1	13.00	--	6.95	--	99.15	<50	<0.5	<0.5	<0.5	<0.5	10,600	--	--
	3/28/2001	--		106.1	13.00	--	6.88	--	99.22	<500	<5.0	<5.0	<5.0	<5.0	16,900	--	--
	6/21/2001	--		106.1	13.00	--	7.18	--	98.92	<1,000	<10	<10	<10	<10	3,400	--	--
	9/23/2001	--	a	106.1	13.00	--	7.11	--	98.99	<1,000	<10	<10	<10	<10	2200/1800	--	--
	12/31/2001	--		106.1	13.00	--	6.91	--	99.19	<5,000	<50	<50	<50	<50	14,000	--	--
	3/14/2002	--		106.1	13.00	--	6.85	--	99.25	<5,000	<50	<50	<50	<50	6,200	--	--
	4/17/2002	--		106.1	13.00	--	5.89	--	100.21	<5,000	<50	<50	<50	<50	4,500	--	--
	8/8/2002	--	a, b(TPHg)	106.1	13.00	--	7.19	--	98.91	230	<2.0	<2.0	<2.0	<2.0	660/440	4.5	7.8
	12/12/2002	--	a, d(TPHg)	106.1	13.00	--	7.28	--	98.82	630	<5.0	<5.0	<5.0	<5.0	1300/830	1.9	7.6
	3/20/2003	--	e	106.1	13.00	--	6.91	--	99.19	1,100	<5.0	<5.0	<5.0	<5.0	780	2.2	8.5
	6/23/2003	--		106.1	13.00	--	7.61	--	98.49	530	<5.0	<5.0	<5.0	<5.0	260	1.2	7.6
	9/22/2003	--		11.36	13.00	--	7.78	--	3.58	<50	<0.50	<0.50	<0.50	<0.50	17	3.5	7.7
	12/03/2003	P		11.36	13.00	--	7.90	--	3.46	410	2.6	9.8	<2.5	11	260	2.1	6.9
	03/18/2004	P		11.36	13.00	--	6.68	--	4.68	<250	<2.5	<2.5	<2.5	<2.5	130	2.4	7.0
	05/25/2004	P		11.36	13.00	--	7.55	--	3.81	<250	<2.5	<2.5	<2.5	<2.5	120	1.3	7.0
	09/22/2004	P		11.36	13.00	--	6.78	--	4.58	150	1.5	<1.0	<1.0	<1.0	140	3.8	7.12
MW-3	6/20/2000	--	a	106.29	7.00	17.70	9.18	--	97.11	<50	<0.5	<0.5	<0.5	<1.0	27/27	--	--
	9/28/2000	--	a	106.29	7.00	17.70	9.33	--	96.96	<50	<0.5	<0.5	<0.5	<1.0	4.3/<2.0	--	--
	12/17/2000	--		106.29	7.00	17.70	9.31	--	96.98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/28/2001	--		106.29	7.00	17.70	9.23	--	97.06	<50	<0.5	<0.5	<0.5	<0.5	7.42	--	--
	6/21/2001	--		106.29	7.00	17.70	9.58	--	96.71	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	9/23/2001	--		106.29	7.00	17.70	9.76	--	96.53	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	12/31/2001	--		106.29	7.00	17.70	8.78	--	97.51	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/14/2002	--		106.29	7.00	17.70	9.25	--	97.04	<50	<0.5	<0.5	<0.5	<0.5	4.0	--	--
	4/17/2002	--		106.29	7.00	17.70	8.44	--	97.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	8/8/2002	--		106.29	7.00	17.70	9.63	--	96.66	<50	<0.5	<0.5	<0.5	<0.5	<2.5	2.6	7.9
	12/12/2002	--	d (TPH-g)	106.29	7.00	17.70	9.51	--	96.78	<50	<0.5	<0.5	<0.5	<0.5	<2.5	3.0	6.8
	3/20/2003	--	e	106.29	7.00	17.70	9.40	--	96.89	<50	<0.50	<0.50	<0.50	<0.50	6.1	1.2	7.0
	6/23/2003	--		106.29	7.00	17.70	9.36	--	96.93	<50	<0.50	<0.50	<0.50	<0.50	5.2	0.9	8.2
	9/22/2003	--		11.62	7.00	17.70	9.48	--	2.14	<50	<0.50	<0.50	<0.50	<0.50	3.9	1.4	7.9

Table 1
Groundwater Elevation and Analytical Data
 ARCO Station #4494
 566 Hegenberger Rd., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-3	12/03/2003	--	g	11.62	7.00	--	9.44	--	2.18	--	--	--	--	--	--	--	--
	03/18/2004	NP		11.62	7.00	--	8.76	--	2.86	<50	<0.50	<0.50	<0.50	<0.50	4.6	0.8	7.3
	05/25/2004	--	g	11.62	7.00	--	9.55	--	2.07	--	--	--	--	--	--	--	--
	09/22/2004	NP		11.62	7.00	--	9.44	--	2.18	<50	<0.50	<0.50	<0.50	<0.50	4.7	--	--
MW-4	6/20/2000	--		107.4	7.00	--	8.49	--	98.91	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--
	9/28/2000	--		107.4	7.00	--	8.70	--	98.70	<50	<0.5	<0.5	<0.5	<1.0	<2.5	--	--
	12/17/2000	--		107.4	7.00	--	8.53	--	98.87	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/28/2001	--		107.4	7.00	--	8.59	--	98.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	6/21/2001	--		107.4	7.00	--	8.79	--	98.61	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	9/23/2001	--		107.4	7.00	--	8.67	--	98.73	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	12/31/2001	--		107.4	7.00	--	8.03	--	99.37	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/14/2002	--		107.4	7.00	--	8.48	--	98.92	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	4/17/2002	--		107.4	7.00	--	7.79	--	99.61	<50	<0.5	<0.5	<0.5	<0.5	5.6	--	--
	8/8/2002	--		107.4	7.00	--	8.90	--	98.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	4.5	8.0
	12/12/2002	--	d (TPH-g)	107.4	7.00	--	9.07	--	98.33	<50	<0.5	<0.5	<0.5	<0.5	<2.5	5.6	6.2
	3/20/2003	--	e	107.4	7.00	--	8.85	--	98.55	<50	<0.50	<0.50	<0.50	0.50	<0.50	4.8	7.8
	6/23/2003	--		107.4	7.00	--	9.26	--	98.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	6.3	7.5
	9/22/2003	--		13.18	7.00	--	9.22	--	3.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	7.4	8.0
	12/03/2003	--	g	13.18	7.00	--	9.48	--	3.70	--	--	--	--	--	--	--	--
	03/18/2004	NP		13.18	7.00	--	8.32	--	4.86	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.5	8.4
05/25/2004	--	g	13.18	7.00	--	9.03	--	4.15	--	--	--	--	--	--	--	--	
09/22/2004	NP		13.18	7.00	--	8.62	--	4.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	--	
MW-5	6/20/2000	--		105.19	8.00	--	7.65	--	97.54	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--
	9/28/2000	--		105.19	8.00	--	6.82	--	98.37	<50	<0.5	<0.5	<0.5	<1.0	<2.5	--	--
	12/17/2000	--		105.19	8.00	--	6.50	--	98.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/28/2001	--		105.19	8.00	--	6.34	--	98.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	6/21/2001	--		105.19	8.00	--	7.88	--	97.31	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	9/23/2001	--		105.19	8.00	--	6.98	--	98.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	12/31/2001	--		105.19	8.00	--	5.01	--	100.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/14/2002	--		105.19	8.00	--	5.93	--	99.26	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	4/17/2002	--		105.19	8.00	--	5.37	--	99.82	<50	<0.5	<0.5	<0.5	<0.5	8.5	--	--
	8/8/2002	--	b (TPH-g)	105.19	8.00	--	6.85	--	98.34	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.7	7.3
12/12/2002	--	d (TPH-g)	105.19	8.00	--	6.53	--	98.66	<50	2.2	4.7	1.3	6.8	<2.5	1.3	7.0	

Table 1

Groundwater Elevation and Analytical Data

ARCO Station #4494

566 Hegenberger Rd., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-5	3/20/2003	--	e	105.19	8.00	--	6.40	--	98.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.7	7.1
	6/23/2003	--		105.19	8.00	--	6.72	--	98.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	7.2
	9/22/2003	--	f	10.63	8.00	--	6.76	--	3.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	7.2
	12/03/2003	--	g	10.63	8.00	--	6.56	--	4.07	--	--	--	--	--	--	--	--
	03/18/2004	P		10.63	8.00	--	5.98	--	4.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.7	7.3
	05/25/2004	--	g	10.63	8.00	--	6.77	--	3.86	--	--	--	--	--	--	--	--
	09/22/2004	P		10.63	8.00	--	6.90	--	3.73	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	7.17
	MW-6	6/20/2000	--		105.07	8.00	--	6.24	--	98.83	<50	<0.5	<0.5	<0.5	<1.0	<10	--
9/28/2000		--		105.07	8.00	--	6.45	--	98.62	<50	<0.5	<0.5	<0.5	<1.0	<2.5	--	--
12/17/2000		--		105.07	8.00	--	6.26	--	98.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/28/2001		--		105.07	8.00	--	6.10	--	98.97	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
6/21/2001		--		105.07	8.00	--	7.68	--	97.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
9/23/2001		--		105.07	8.00	--	6.72	--	98.35	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/23/2001		--		105.07	8.00	--	4.88	--	100.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/14/2002		--		105.07	8.00	--	5.55	--	99.52	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
4/17/2002		--		105.07	8.00	--	4.96	--	100.11	<50	<0.5	<0.5	<0.5	<0.5	7.0	--	--
8/8/2002		--		105.07	8.00	--	6.46	--	98.61	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.7	7.3
12/12/2002		--	d (TPH-g)	105.07	8.00	--	6.18	--	98.89	65	3.3	8.4	2.7	14	<2.5	1.1	6.9
3/20/2003		--	e	105.07	8.00	--	6.18	--	98.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	7.0
6/23/2003		--		105.07	8.00	--	6.15	--	98.92	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	7.1
9/22/2003		--	f	10.41	8.00	--	6.43	--	3.98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	7.0
12/03/2003		--	g	10.41	8.00	--	6.12	--	4.29	--	--	--	--	--	--	--	--
03/18/2004	P		10.41	8.00	--	5.40	--	5.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	7.2	
05/25/2004	--	g	10.41	8.00	--	6.30	--	4.11	--	--	--	--	--	--	--	--	
09/22/2004	P		10.41	8.00	--	6.43	--	3.98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	7.01	
MW-7	6/20/2000	--	a	105.52	9.00	--	8.65	--	96.87	<50	<0.5	<0.5	<0.5	<1.0	13/13	--	--
	9/28/2000	--	a	105.52	9.00	--	8.75	--	96.77	<50	<0.5	<0.5	<0.5	<1.0	136/261	--	--
	12/17/2000	--		105.52	9.00	--	8.62	--	96.90	<50	<0.5	<0.5	<0.5	<0.5	27.1	--	--
	3/28/2001	--		105.52	9.00	--	8.66	--	96.86	<50	<0.5	<0.5	<0.5	<0.5	51.5	--	--
	6/21/2001	--		105.52	9.00	--	8.84	--	96.68	<50	<0.5	<0.5	<0.5	<0.5	53	--	--
	9/23/2001	--	a	105.52	9.00	--	8.75	--	96.77	<50	<0.5	<0.5	<0.5	<0.5	35/21	--	--
	12/23/2001	--		105.52	9.00	--	7.79	--	97.73	<50	<0.5	<0.5	<0.5	<0.5	440	--	--
	3/14/2002	--		105.52	9.00	--	8.30	--	97.22	<50	<0.5	<0.5	<0.5	<0.5	18	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Station #4494

566 Hegenberger Rd., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-7	4/17/2002	--		105.52	9.00	--	7.43	--	98.09	<50	<0.5	<0.5	<0.5	<0.5	67	--	--
	8/8/2002	--	a, b (TPHg)	105.52	9.00	--	8.61	--	96.91	55	<0.5	<0.5	<0.5	<0.5	130/100	1.1	7.1
	12/12/2002	--	a, d (TPHg), h	105.52	9.00	--	8.55	--	--	75	<0.5	<0.5	<0.5	<0.5	160/130	1.2	7.0
	3/20/2003	--	e	105.52	9.00	--	8.38	--	--	<50	<0.50	<0.50	<0.50	<0.50	32	2.2	7.2
	6/23/2003	--		105.52	9.00	--	8.37	--	--	<50	<0.50	<0.50	<0.50	<0.50	14	0.8	7.1
	9/22/2003	--	f	10.51	9.00	--	8.95	--	1.56	<50	<0.50	<0.50	<0.50	<0.50	5.3	2.2	7.2
	12/03/2003	P		10.51	9.00	--	8.86	--	1.65	<50	<0.50	<0.50	<0.50	<0.50	4.2	0.1	7.2
	03/18/2004	P		10.51	9.00	--	8.03	--	2.48	<50	<0.50	<0.50	<0.50	<0.50	3.0	1.0	7.2
	05/25/2004	P		10.51	9.00	--	8.37	--	2.14	<50	<0.50	<0.50	<0.50	<0.50	4.1	0.7	7.1
	09/22/2004	P		10.51	9.00	--	8.90	--	1.61	<50	<0.50	<0.50	<0.50	<0.50	2.3	0.9	7.27
RW-1	6/20/2000	--		--	--	--	8.21	--	--	<50	<0.5	1.1	<0.5	<1.0	<10	--	--
	9/28/2000	--		--	--	--	8.28	--	--	<50	<0.5	<0.5	<0.5	<1.0	<2.5	--	--
	12/17/2000	--		--	--	--	8.29	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/28/2001	--		--	--	--	8.16	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	6/21/2001	--		--	--	--	9.37	--	--	160	5.1	<0.5	1.1	3.2	<2.5	--	--
	9/23/2001	--		--	--	--	8.75	--	--	57	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	12/31/2001	--		--	--	--	6.80	--	--	520	3.1	<0.5	6.4	4.7	<2.5	--	--
	3/14/2002	--		--	--	--	7.86	--	--	240	3.7	<0.5	0.7	2.8	<2.5	--	--
	4/17/2002	--		--	--	--	7.13	--	--	<50	<0.5	1.6	<0.5	0.72	<2.5	--	--
	8/8/2002	--	a, c (MTBE)	--	--	--	8.48	--	--	<50	<0.5	<0.5	<0.5	<0.5	3.7/<0.5	1.1	7.0
	12/12/2002	--		--	--	--	8.63	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1.9	6.9
	3/20/2003	--	e	--	--	--	8.08	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	7.3
	6/23/2003	--		--	--	--	8.28	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.3
	9/22/2003	--	f	11.97	--	--	8.42	--	3.55	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	7.1
	12/03/2003	--	g	11.97	--	--	8.05	--	3.92	--	--	--	--	--	--	--	--
	03/18/2004	P		11.97	--	--	7.18	--	4.79	50	0.54	<0.50	<0.50	<0.50	<0.50	0.9	7.1
	05/25/2004	--	g	11.97	--	--	8.32	--	3.65	--	--	--	--	--	--	--	--
	09/22/2004	P		11.97	--	--	8.42	--	3.55	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	6.7

Table 1

Groundwater Elevation and Analytical Data

ARCO Station #4494

566 Hegenberger Rd., Oakland, CA

ft bgs = Feet below ground surface

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

MSL = Mean sea level

TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M prior to 3/20/03.

GRO = Gasoline range organics

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B prior to 3/20/03 unless otherwise noted.

ug/L = Micrograms per liter

mg/L = Milligrams per liter

--- = Not calculated, surveyed, available, applicable, analyzed.

< = Not detected at or above specified laboratory reporting limit.

a = MTBE confirmation analyzed by EPA Method 8260

b = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

c = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

d = Analyzed by EPA Method 8215B/8021B for Gasoline Range Organics

e = TPH-g, BTEX, and MTBE analyzed by EPA method 8260B beginning on 2003 sampling event (03/20/03)

f = Top of casing elevations were re-surveyed on July 18, 2003 by URS Corporation of Pleasant Hill, CA

g = Wells MW-3, MW-4, MW-5, MW-6 and RW-1 are sampled semi-annually in the 1st and 3rd quarters.

h = Top of casing was found shattered on December 12, 2002. Top of Casing (TOC) unknown.

Notes:

The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. Total petroleum hydrocarbons as gasoline (TPHg) has been changed to gasoline range organics (GRO). The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

Beginning in the second quarter 2004, the carbon range for GRO has been changed from C6-C10 to C4-C12.

Table 2

Fuel Additives Analytical Data
ARCO Station #4494
566 Hegenberger Rd., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Comments
MW-1	3/20/2003	<1,000	640	780	<5.0	<5.0	<5.0	--	--	
	6/23/2003	<1,000	<200	260	<5.0	<5.0	<5.0	<5.0	<5.0	
	9/22/2003	<100	250	17	<0.50	<0.50	<0.50	--	--	
	12/03/2003	<500	<100	260	<2.5	<2.5	<2.5	--	--	
	03/18/2004	<500	<100	130	<2.5	<2.5	<2.5	<2.5	<2.5	
	05/25/2004	<500	<100	120	<2.5	<2.5	<2.5	<2.5	<2.5	
	09/22/2004	<200	<40	140	<1.0	<1.0	<1.0	<1.0	<1.0	
MW-3	3/20/2003	<100	<20	601	<0.50	<0.50	1.1	--	--	
	6/23/2003	<100	<20	5.2	<0.50	<0.50	0.75	<0.50	<0.50	
	9/22/2003	<100	<20	3.9	<0.50	<0.50	<0.50	--	--	
	03/18/2004	<100	<20	4.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	4.7	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4	3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5	3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-6	3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7	3/20/2003	<100	<20	21	<0.50	<0.50	0.62	--	--	
	6/23/2003	<100	170	14	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/22/2003	<100	170	5.3	<0.50	<0.50	<0.50	--	--	
	12/03/2003	<100	85	4.2	<0.50	<0.50	<0.50	--	--	
	03/18/2004	<100	<20	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	a

Table 2

Fuel Additives Analytical Data

ARCO Station #4494

566 Hegenberger Rd., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Comments
MW-7	05/25/2004	<100	43	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	
RW-1	3/20/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	—	—	
	6/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	—	—	
	03/18/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/22/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2

Fuel Additives Analytical Data
ARCO Station #4494
566 Hegenberger Rd., Oakland, CA

Notes:

TBA = tert-Butyl alcohol

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tert butyl ether

TAME = tert-Amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

µg/L = micrograms per liter

< = Not detected at or above the laboratory reporting limit

— = Not analyzed, sampled, available

a = The continuing calibration verification was outside of client contractual acceptance limits. However, it was within method acceptance limits and should be useful for its intended purpose.

Table 3
Groundwater Gradient Data
 ARCO Station #4494
 566 Hegenberger Rd., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
6/20/2000	North-Northeast	0.015
9/28/2000	North	0.018
12/17/2000	North-Northwest	0.013
3/28/2001	Northwest	0.011
6/21/2001	North	0.017
9/23/2001	North	0.02
12/31/2001	North-Northwest	0.023
3/14/2002	North-Northwest	0.017
4/14/2002	Northwest	0.007
8/8/2002	North-Northwest	0.022
12/12/2002	North-Northwest	0.017
3/20/2003	North-Northwest	0.016
6/23/2003	Northwest	0.014
9/22/2003	Northwest	0.017
12/3/2003	Northwest	0.013
3/18/2004	North-Northwest	0.011
5/25/2004	North-Northwest	0.011
9/22/2004	North-Northwest	0.017

Note:
 The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe. Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

WELL GAUGING DATA

Project # 040922-SINZ Date 9/22/04 Client ARLO 4494

Site 566 HEBER BERGER RD., OAKLAND

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4					6.78	23.09		
MW-3	4					9.44	17.95		NRE 7'
MW-4	4					8.62	16.61		NRE 7'
MW-5	2					6.90	17.00		
MW-6	2					6.43	18.10		
MW-7	4					8.90	13.45		
EW-1	2					8.42	11.78	✓	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040972-MW-2</u>	Station # <u>4494</u>
Sampler: <u>MAN</u>	Date: <u>9/22/04</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>23.09</u>	Depth to Water: <u>6.78</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>XSI</u> HACH

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

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: <u> </u>	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: <u> </u>
---	---

Top of Screen: If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>10.5</u>	x	<u>3</u>	=	<u>31.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1357	72.4	7.14	12.23	10.5	clear
1359	72.9	7.12	13.72	21.0	clear
1400	well	dewatered		—	DW = 20.67
1405	73.1		14.76	—	clear

Did well dewater? Yes No Gallons actually evacuated: 21.0

Sampling Time: 1405 Sampling Date: 9/22/04

Sample I.D.: MW-1 Laboratory: Pace Sequoia Other

Analyzed for: GRO BTEX MTBE DRO Other: any

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	3.8 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040927-MW2</u>	Station # <u>4494</u>
Sampler: <u>MWA</u>	Date: <u>2/22/09</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u>16.61</u>	Depth to Water: <u>8.62</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: <u> </u>	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: <u> </u>
---	---

Top of Screen: 7' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

$\frac{\text{No Purge Sample}}{\text{1 Case Volume (Gals.)}} \times \frac{\text{Specified Volumes}}{\text{Specified Volumes}} = \frac{\text{Gals.}}{\text{Calculated Volume}}$
--

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
12:10	71.9	7.19	1187	—	clear

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: 12:10 Sampling Date: 2/22/09

Sample I.D.: MW-4 Laboratory: Pace Sequoia Other

Analyzed for: GRO BTEX MTBE DRO Other: OCY S

D.O. (if req'd): Pre-purge: ^{mg/L} Post-purge: 3.7 ^{mg/L}

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040922-MW2</u>	Station # <u>4494</u>
Sampler: <u>RON</u>	Date: <u>9/22/04</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>17.00</u>	Depth to Water: <u>6.90</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: <u>Bailer</u> <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: <u> </u>	Sampling Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: <u> </u>
--	---

Top of Screen: If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>1.6</u>	x	<u>3</u>	=	<u>4.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1317	77.9	7.25	11.51	1.6	clear, strong sulfur odor
1319	77.4	7.17	12.47	3.2	clear, sulfur odor
1321	77.2	7.17	11.71	4.8	clear, sulfur odor

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: <u>4.8</u>	
Sampling Time: <u>1326</u>	Sampling Date: <u>9/22/04</u>	
Sample I.D.: <u>MW-5</u>	Laboratory: Pace <u>Sequoia</u> Other <u> </u>	
Analyzed for: <u>GRO</u> <u>BTEX</u> MTBE DRO Other: <u>only p</u>		
D.O. (if req'd):	Pre-purge: <u> </u> mg/L	Post-purge: <u>1.0</u> mg/L
O.R.P. (if req'd):	Pre-purge: <u> </u> mV	Post-purge: <u> </u> mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040922-MW2</u>	Station # <u>4494</u>
Sampler: <u>MW</u>	Date: <u>7/22/04</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>18.10</u>	Depth to Water: <u>6.43</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

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

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<input type="checkbox"/> Disposable Bailer	<input type="checkbox"/> Disposable Bailer
<input type="checkbox"/> Positive Air Displacement	<input type="checkbox"/> Extraction Port
<input type="checkbox"/> Electric Submersible Extraction Pump	Other: _____
Other: _____	

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>1.9</u>	x	<u>3</u>	=	<u>5.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1243</u>	<u>73.0</u>	<u>7.11</u>	<u>5759</u>	<u>1.9</u>	<u>Light brown, cloudy</u>
<u>1246</u>	<u>72.9</u>	<u>7.00</u>	<u>5804</u>	<u>3.8</u>	<u>Light brown, cloudy</u>
<u>1250</u>	<u>73.0</u>	<u>7.01</u>	<u>5807</u>	<u>5.7</u>	<u>Light brown, cloudy</u>

Did well dewater? Yes (No) Gallons actually evacuated: 5.7

Sampling Time: 1255 Sampling Date: 7/22/04

Sample I.D.: MW-6 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (GRO) (BTEX) MTBE DRO Other: 6045

D.O. (if req'd):	Pre-purge:	<u> </u> mg/L	Post-purge:	<u>1.3</u> mg/L
------------------	------------	---------------	-------------	-----------------

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040922 - MW2	Station # 4494
Sampler: man	Date: 9/22/04
Well I.D.: MW-7	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: 17.48	Depth to Water: 8.90
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

3.0	x	3	=	9.0	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1337	75.1	7.23	6515	3.0	clear, rust color (orange)
1338	73.0	7.21	10.76 mS	6.0	clear, light rust color
1339	72.9	7.27	4501	9.0	Slightly cloudy; rust color

Did well dewater? Yes (No) Gallons actually evacuated: 9.0

Sampling Time: 1344 Sampling Date: 9/22/04

Sample I.D.: MW-7 Laboratory: Pace Sequoia Other _____

Analyzed for: GR0 BTEX MTBE DRO Other: oxyS

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 042522 042522 - MN 2	Station # 4494
Sampler: MOR	Date: 7/22/04
Well I.D.: RW-1	Well Diameter: \varnothing 3 4 6 8
Total Well Depth: 11.48	Depth to Water: 8.42
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>0.5</u>	x	<u>3</u>	=	<u>1.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1200	73.5	6.93	16.46	0.5	odor, clear
1301	77.0	6.85	26.39	1.0	odor, clear
1303	73.8	6.90	30.04	1.5	odor, clear

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 1.5	
Sampling Time: 1308	Sampling Date: 7/22/04	
Sample I.D.: RW-1	Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>GRO</u> <u>BTEX</u> MTBE DRO	Other: <u>OCYS</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: 4.0 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

BP GEM OIL COMPANY TYPE A BILL OF LADING

SOURCE RECORD BILL OF LADING FOR NON-
HAZARDOUS PURGEWATER RECOVERED FROM
GROUNDWATER WELLS AT BP GEM OIL COMPANY
FACILITIES IN THE STATE OF CALIFORNIA. THE NON-
HAZARDOUS PURGE- WATER WHICH HAS BEEN
RECOVERED FROM GROUND- WATER WELLS IS
COLLECTED BY THE CONTRACTOR, MADE UP INTO
LOADS OF APPROPRIATE SIZE AND HAULED BY
DILLARD ENVIRONMENTAL TO THE ALTAMONT
LANDFILL AND RESOURCE RECOVERY FACILITY IN
LIVERMORE, CALIFORNIA.

The contractor performing this work is BLAINE TECH
SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA
95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is
authorized by BP GEM OIL COMPANY to recover, collect,
apportion into loads the Non-Hazardous Well Purgewater that is
drawn from wells at the BP GEM Oil Company facility indicated
below and deliver that purgewater to BTS. Transport routing of
the Non-Hazardous Well Purgewater may be direct from one BP
GEM facility to the designated destination point; from one BP
GEM facility to the designated destination point via another BP
GEM facility; from a BP GEM facility to the designated
destination point via the contractor's facility, or any combination
thereof. The Non-Hazardous Well Purgewater is and remains the
property of BP GEM Oil Company.

This Source Record **BILL OF LADING** was initiated to
cover the recovery of Non-Hazardous Well Purgewater from wells
at the BP GEM Oil Company facility described below:

4494

Station # _____

Station Address Slc 6 Hegenberger Rd. Oakland

Total Gallons Collected From Groundwater Monitoring Wells:
~~43~~ 43

added equip. _____ any other _____
rinse water 10 adjustments —

TOTAL GALS. RECOVERED 2653 loaded onto
BTS vehicle # 50

BTS event # _____ time _____ date _____
040922-MNZ 1800 9/22/07

signature [Signature]

REC'D AT _____ time _____ date _____
_____ / /

unloaded by _____
signature _____

ATTACHMENT B
LABORATORY PROCEDURES,
CERTIFIED ANALYTICAL REPORTS,
AND CHAIN-OF-CUSTODY RECORDS

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals noted on the chain-of-custody using standard EPA Methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by RM have been reviewed and verified by that laboratory.

ATTACHMENT C
HISTORICAL GROUNDWATER DATA



**Sequoia
Analytical**

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

7 October, 2004

Scott Robinson
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: ARCO #4494, Oakland, CA
Work Order: MNI0712

Enclosed are the results of analyses for samples received by the laboratory on 09/23/04 15:43. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MNI0712
Reported:
10/07/04 16:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNI0712-01	Water	09/22/04 14:05	09/23/04 15:43
MW-3	MNI0712-02	Water	09/22/04 12:25	09/23/04 15:43
MW-4	MNI0712-03	Water	09/22/04 12:10	09/23/04 15:43
MW-5	MNI0712-04	Water	09/22/04 13:26	09/23/04 15:43
MW-6	MNI0712-05	Water	09/22/04 12:55	09/23/04 15:43
MW-7	MNI0712-06	Water	09/22/04 13:44	09/23/04 15:43
RW-1	MNI0712-07	Water	09/22/04 13:03	09/23/04 15:43
TB-4494-09222004	MNI0712-08	Water	09/22/04 13:03	09/23/04 15:43

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.



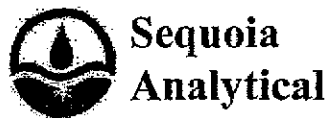
URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

Project: ARCO #4494, Oakland, CA
 Project Number: INTRIM-50443
 Project Manager: Scott Robinson

MNI0712
 Reported:
 10/07/04 16:11

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MNI0712-01) Water Sampled: 09/22/04 14:05 Received: 09/23/04 15:43									
tert-Amyl methyl ether	ND	1.0	ug/l	2	4J05002	10/05/04	10/06/04	EPA 8260B	
Benzene	1.5	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	40	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Ethanol	ND	200	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	140	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	150	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %		78-129	"	"	"	"	
MW-3 (MNI0712-02) Water Sampled: 09/22/04 12:25 Received: 09/23/04 15:43									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4J05002	10/05/04	10/05/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	4.7	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		78-129	"	"	"	"	



885 Jarvis Drive
 Morgan Hill, CA 95037
 (408) 776-9600
 FAX (408) 782-6308
 www.sequoialabs.com

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

Project: ARCO #4494, Oakland, CA
 Project Number: INTRIM-50443
 Project Manager: Scott Robinson

MNI0712
 Reported:
 10/07/04 16:11

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MNI0712-03) Water Sampled: 09/22/04 12:10 Received: 09/23/04 15:43									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4J05002	10/05/04	10/05/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %	78-129	"	"	"	"	"	
MW-5 (MNI0712-04) Water Sampled: 09/22/04 13:26 Received: 09/23/04 15:43									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4J05002	10/05/04	10/05/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	78-129	"	"	"	"	"	



URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MNI0712
Reported:
10/07/04 16:11

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (MNI0712-05) Water Sampled: 09/22/04 12:55 Received: 09/23/04 15:43									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4J05002	10/05/04	10/05/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	78-129	"	"	"	"	"	
MW-7 (MNI0712-06) Water Sampled: 09/22/04 13:44 Received: 09/23/04 15:43									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4J05002	10/05/04	10/05/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	2.3	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	78-129	"	"	"	"	"	



URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MNI0712
Reported:
10/07/04 16:11

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
RW-1 (MNI0712-07) Water Sampled: 09/22/04 13:03 Received: 09/23/04 15:43									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4J05002	10/05/04	10/06/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		78-129	"	"	"	"	



URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MNI0712
Reported:
10/07/04 16:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J05002 - EPA 5030B P/T

Blank (4J05002-BLK1)

Prepared & Analyzed: 10/05/04

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.95		"	5.00		99	78-129			

Laboratory Control Sample (4J05002-BS1)

Prepared & Analyzed: 10/05/04

tert-Amyl methyl ether	10.1	0.50	ug/l	10.0		101	82-140			
Benzene	10.6	0.50	"	10.0		106	69-124			
tert-Butyl alcohol	49.8	20	"	50.0		100	56-131			
Di-isopropyl ether	10.5	0.50	"	10.0		105	76-130			
1,2-Dibromoethane (EDB)	10.3	0.50	"	10.0		103	77-132			
1,2-Dichloroethane	11.0	0.50	"	10.0		110	77-136			
Ethanol	197	100	"	200		98	31-143			
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	81-121			
Ethylbenzene	10.1	0.50	"	10.0		101	84-132			
Methyl tert-butyl ether	10.3	0.50	"	10.0		103	63-137			
Toluene	9.61	0.50	"	10.0		96	78-129			
Xylenes (total)	30.1	0.50	"	30.0		100	83-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.00		"	5.00		100	78-129			



URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MNI0712
Reported:
10/07/04 16:11

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J05002 - EPA 5030B P/T

Laboratory Control Sample (4J05002-BS2)

Prepared & Analyzed: 10/05/04

Benzene	5.40	0.50	ug/l	6.40		84	69-124			
Ethylbenzene	7.61	0.50	"	7.52		101	84-132			
Methyl tert-butyl ether	8.93	0.50	"	9.92		90	63-137			
Toluene	32.8	0.50	"	31.9		103	78-129			
Xylenes (total)	38.1	0.50	"	36.6		104	83-137			
Gasoline Range Organics (C4-C12)	476	50	"	440		108	70-124			
Surrogate: 1,2-Dichloroethane-d4	5.05		"	5.00		101	78-129			

Laboratory Control Sample Dup (4J05002-BSD1)

Prepared & Analyzed: 10/05/04

tert-Amyl methyl ether	10.2	0.50	ug/l	10.0		102	82-140	1	20	
Benzene	10.7	0.50	"	10.0		107	69-124	0.9	20	
tert-Butyl alcohol	52.4	20	"	50.0		105	56-131	5	20	
Di-isopropyl ether	10.4	0.50	"	10.0		104	76-130	1	20	
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0		106	77-132	3	20	
1,2-Dichloroethane	10.8	0.50	"	10.0		108	77-136	2	20	
Ethanol	212	100	"	200		106	31-143	7	20	
Ethyl tert-butyl ether	10.6	0.50	"	10.0		106	81-121	4	20	
Ethylbenzene	10.2	0.50	"	10.0		102	84-132	1	20	
Methyl tert-butyl ether	11.2	0.50	"	10.0		112	63-137	8	20	
Toluene	9.62	0.50	"	10.0		96	78-129	0.1	20	
Xylenes (total)	29.9	0.50	"	30.0		100	83-137	0.7	20	
Surrogate: 1,2-Dichloroethane-d4	5.11		"	5.00		102	78-129			

Matrix Spike (4J05002-MS1)

Source: MNI0712-01

Prepared & Analyzed: 10/05/04

Benzene	11.6	1.0	ug/l	12.8	1.5	79	69-124			
Ethylbenzene	15.8	1.0	"	15.0	0.18	104	84-132			
Methyl tert-butyl ether	170	1.0	"	19.8	140	152	63-137			BB,LM
Toluene	61.4	1.0	"	63.8	0.20	96	78-129			
Xylenes (total)	74.9	1.0	"	73.1	ND	102	83-137			
Gasoline Range Organics (C4-C12)	928	100	"	880	150	88	70-124			
Surrogate: 1,2-Dichloroethane-d4	5.13		"	5.00		103	78-129			



URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MNI0712
Reported:
10/07/04 16:11

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Notes
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Batch 4J05002 - EPA 5030B P/T

Matrix Spike Dup (4J05002-MSD1)	Source: MNI0712-01	Prepared & Analyzed: 10/05/04								
Benazene	10.9	1.0	ug/l	12.8	1.5	73	69-124	6	20	
Ethylbenzene	16.0	1.0	"	15.0	0.18	105	84-132	1	20	
Methyl tert-butyl ether	167	1.0	"	19.8	140	136	63-137	2	20	
Toluene	67.0	1.0	"	63.8	0.20	105	78-129	9	20	
Xylenes (total)	80.1	1.0	"	73.1	ND	110	83-137	7	20	
Gasoline Range Organics (C4-C12)	1010	100	"	880	150	98	70-124	8	20	
Surrogate: 1,2-Dichloroethane-d4	5.07		"	5.00		101	78-129			



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Reported:
10/07/04 16:11

Notes and Definitions

BB,LM Sample > 4x spike concentration. MS and/or MSD above acceptance limits. See Blank Spike(LCS).

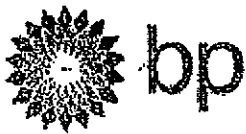
DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Chain of Custody Record

Project Name 4494 GWM
 BP BU/GEM CO Portfolio Retail MN10712
 BP Laboratory Contract Number: Atlantic Richfield Company
 Requested Due Date (mm/dd/yy) 14 day TAT

Date: 9/22/04

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: <u>ARCO 4494</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>566 HEGENBERGER, OAKLAND, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 4494</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
	California Global ID #: <u>T0600100104</u>	Consultant/Contractor Project No.: <u>15-00004494.01 00427</u>
Lab PM <u>Lisa Race</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant/Contractor Tele/Fax: <u>510-893-3600/510-874-3288</u>
Tele/Fax: <u>408-778-9600 / 408-782-6308</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
BP/GEM Account No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50443</u>

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis							Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	GRO / BTEX (8015)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE (8260)	DIPE, TBA (8260)	
1	MW-1	1125		X			MN10712	1				X			X	X	X		
2	MW-3	1225					MN10712	1				X			X	X	X		
3	MW-4	1210					MN10712	1				X			X	X	X		
4	MW-5	1226					MN10712	1				X			X	X	X		
5	MW-6	1255					MN10712	1				X			X	X	X		
6	MW-7	1344					MN10712	1				X			X	X	X		
7	RW-1	1303		X			MN10712	1				X			X	X	X		
8	TB-4494-09222004			X			MN10712	2				X			X	X	X		421 HOLD
9																			
10																			

Sampler's Name: <u>Mahesh Nimbate</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Waine Tech Services</u>	<u>[Signature]</u>	<u>9/23/04</u>	<u>1507</u>	<u>[Signature]</u>	<u>9/23/04</u>	<u>1507</u>
Shipment Date:		<u>9/23/04</u>	<u>1503</u>	<u>[Signature]</u>	<u>9/23/04</u>	<u>1543</u>
Shipment Method:						
Shipment Tracking No:						

Additional Instructions: Address Invoice to BP/GEM but send to URS for approval

Seals in Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt F/C Trip Blank Yes No

Coloration: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 4494
 REC. BY (PRINT) TD
 WORKORDER: MN10712

DATE REC'D AT LAB: 9/23/04
 TIME REC'D AT LAB: 1543
 DATE LOGGED IN: 9/24/04

For Regulatory Purposes?
 DRINKING WATER YES/NO YES / NO
 WASTE WATER YES / NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent Intact / Broken*			MW-1	VDA (3)	HCl	-	W	9/23/04	
2. Chain-of-Custody Present / Absent*			↓ - 2	↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: Present / Absent			↓ - 4	↓	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / Absent			↓ - 5	↓	↓	↓	↓	↓	
5. Airbill #: TR-4494-09221004			↓ - 6	↓	↓	↓	↓	↓	
6. Sample Labels: Present / Absent			RW-1	↓	↓	↓	↓	↓	
7. Sample IDs: Listed / Not Listed on Chain-of-Custody				↓ (2)	↓	↓	↓	↓	
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper Preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No*									
14. Temp Rec. at Lab: Is temp 4 +/- 2°C? Yes / No**									

TD 9/23/04

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION: