



20-255

January 14, 2004

Mr. Jeff Carson  
Oro Loma Sanitary District  
2600 Grant Avenue  
San Lorenzo, CA 94580

RECEIVED  
JAN 20 2004  
SANTA CLARA COUNTY  
WATER TREATMENT PLANT

**Re: Monthly Discharge Report – December 2004**  
**Discharge Permit #SDP-037**  
**ARCO Service Station #0608**  
**17601 Hesperian Boulevard**  
**San Lorenzo, California**

Dear Mr. Carson:

On behalf of Atlantic Richfield Company (BP affiliated company), URS Corporation (URS) is operating a groundwater extraction and treatment (GWET) system at the site referenced above. This letter transmits GWET system operational data for the period from November 18, 2004 through December 30, 2004 (Tables 1 and 2). Operational parameters are summarized below.

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<b>Treatment System Status:</b>	<b>Operational through 10/21/04</b>
<b>Reporting Period:</b>	11/18/04 to 12/30/04
<b>Period Volume Discharged:</b>	77,947 gallons
<b>Effluent pH Reading:</b>	6.92
<b>Average Period Flow Rate:</b>	1.29 gpm
<b>Analytical Report:</b>	Attachment A
<b>O &amp; M Field Information:</b>	Attachment B

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**DISCUSSION:**

Monthly compliance samples were collected on December 18, 2004, and analyzed for gasoline range organics (GRO), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and fuel additives by EPA Method 8260B. Methyl tert Butyl Ether (MTBE) was detected above the laboratory reporting limit in the influent sample (INF) and the sample collected between the primary and secondary carbon vessels (MID-1) at concentrations of 15 µg/L and 1.9 µg/L, respectively. Tert-butyl alcohol (TBA) was detected above the laboratory reporting limit in the influent sample (INF) at a concentration of 6.0 µg/L. No other constituents were detected above the laboratory reporting limits.

If you have any questions regarding this project or require further information, please do not hesitate to call me at 510-874-3088.

Sincerely,

**URS CORPORATION**



Michael Greenberg  
Staff Engineer



Scott Robinson  
Project Manager

- Attachments: Table 1 - Treatment System Metered Volume  
Table 2 - Treatment System Analytical Data  
Attachment A - Certified Analytical Report and Chain-of-Custody  
Documentation, December 16, 2004  
Attachment B - Operation and Maintenance Field Logs

- cc: Mr. Paul Supple, Atlantic Richfield Company (RM), (electronic copy submitted to ENFOS)  
Mr. John Kaiser, Regional Water Quality Control Board - San Francisco Bay Region, 1515  
Clay Street, Suite 1400, Oakland, CA 94612  
Mr. Robert Shultz, Alameda County Environmental Health, 1131 Harbor Bay  
Parkway, Alameda, CA 94502

Alameda County  
JAN 20 2005  
Environmental Health

**Table 1**  
**Treatment System Metered Volume**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Meter Reading Date	Hour Meter Reading (hours)	Total (hours)	System Downtime <sup>(K)</sup> (%)	Volume Reading (gallons)	Net Volume (gallons)	Cumulative Volume Removed (gallons)	Average Flow Rate (gpm)	
06/05/00	a 29,593		97	979,800	3,200	3,200	2.1	
06/19/00	29,896		10	1,052,390	72,590	75,790	4.0	
06/28/00	30,062		23	1,082,340	29,950	105,740	3.0	
07/08/00	30,352		0	1,131,560	49,220	154,960	2.8	
07/26/00	30,749		8	1,196,420	64,860	219,820	2.7	
08/07/00	30,955		28	1,228,020	31,600	251,420	2.6	
08/29/00	31,309		33	1,276,650	48,630	300,050	2.3	
09/08/00	31,528		9	1,306,300	29,650	329,700	2.3	
09/28/00	32,011		0	1,368,410	62,110	391,810	2.1	
10/28/00	32,638		13	1,444,183	75,773	467,583	2.0	
11/30/00	33,399		4	1,534,960	90,777	558,360	2.0	
12/28/00	33,761		46	1,576,320	41,560	599,920	1.9	
01/04/01	33,924		3	1,595,340	18,820	618,740	1.9	
02/06/01	34,556		20	1,672,330	76,990	695,730	2.0	
03/08/01	34,776		70	1,698,860	26,530	722,260	2.0	
03/24/01	35,088		19	1,741,170	42,310	764,570	2.3	
04/05/01	35,310		23	1,767,530	26,360	790,930	2.0	
04/18/01	35,335		92	1,770,860	3,330	794,260	2.3	
05/04/01	35,716		1	1,812,690	41,830	836,090	1.8	
06/09/01	36,345		27	1,879,710	67,020	903,110	1.8	
07/05/01	b 36,469		80	1,897,180	17,470	920,580	2.3	
07/28/01	36,821		36	1,928,250	31,070	951,650	1.5	
08/14/01	c 36,822		100	1,928,510	260	951,910	5.4	
09/05/01	37,219		25	1,977,050	48,540	1,000,450	2.0	
10/05/01	37,932		1	2,040,950	63,900	1,064,350	1.5	
11/13/01	38,820		5	2,119,670	78,720	1,143,070	1.5	
12/11/01	39,496		0	2,186,530	66,860	1,209,930	1.6	
01/04/02	40,063		2	2,248,700	62,170	1,272,100	1.8	
01/31/02	40,716		0	2,321,310	72,610	1,344,710	1.9	
02/05/02	40,830		5	2,333,090	11,780	1,356,490	1.7	
02/25/02	40,831		100	2,333,270	180	1,356,670	1.7	
03/05/02	40,968		29	2,353,460	20,190	1,376,860	2.5	
04/08/02	41,735		6	2,448,360	94,900	1,471,760	2.1	
05/04/02	42,362		0	2,487,090	38,730	1,510,490	1.0	
05/31/02	42,832	d	27	2,503,380	16,290	1,526,780	0.6	
08/19/02	44,925		0	2,520,289	16,909	1,543,689	0.1	
10/03/02	44,956	e	97	2,520,582	293	1,543,982	N/A	
10/07/02	44,956	e	100	2,522,394	1,812	1,545,794	N/A	
10/24/02	44,956	e	100	2,527,898	5,504	1,551,298	N/A	
11/07/02	0	f	-	2,527,925	27	1,551,325	N/A	
11/21/02	336		0	2,527,945	20	1,551,345	0.00	
12/05/02	479	g	45,435	58	2,528,113	168	1,551,513	0.02
12/18/02	788	g	45,744	1	2,555,895	27,782	1,579,295	1.50
01/03/02	1,174	g	46,130	100	2,591,359	35,464	1,614,759	1.53
01/16/03	1,486	g	46,442	97	2,625,812	34,453	1,649,212	1.84
02/13/03	2,156	g	47,112	0	2,692,710	66,898	1,716,110	1.67
03/13/03	2,832		47,788	0	2,758,948	66,238	1,782,348	1.63
03/27/03	3,165		48,121	1	2,790,668	31,720	1,814,068	1.58
04/10/03	3,500		48,456	0	2,828,060	37,392	1,851,460	1.86
04/24/03	3,837		48,793	0	2,865,050	36,990	1,888,450	1.83
05/08/03	4,172		49,128	0	2,900,937	35,887	1,924,337	1.79

**Table 1**  
**Treatment System Metered Volume**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Meter Reading Date	Hour Meter Reading (hours)	Total (hours)	System Downtime <sup>(K)</sup> (%)	Volume Reading (gallons)	Net Volume (gallons)	Cumulative Volume Removed (gallons)	Average Flow Rate (gpm)
05/22/03	4,459 h	49,415	14	2,931,190	30,253	1,954,590	1.75
05/30/03	4,459 i	49,415	100	2,931,190	0	1,954,590	0.00
06/05/03	4,606	49,562	0	2,946,180	14,990	1,969,580	1.69
06/19/03	4,940	49,896	1	2,971,985	25,805	1,995,385	1.29
07/11/03	4,940	49,896	100	2,971,985	0	1,995,385	0.00
07/24/03	5,331	50,287	0	2,972,362	377	1,995,762	0.02
08/14/03	5,831	50,787	1	3,013,517	41,532	2,036,917	0.78
08/28/03	6,165	51,121	1	3,040,900	27,383	2,064,300	1.37
09/11/03	6,503	51,459	0	3,067,641	26,741	2,091,041	1.32
09/25/03	6,838	51,794	0	3,095,020	27,379	2,118,420	1.36
10/09/03	7,176	52,132	0	3,122,624	81,724	2,146,024	1.35
10/23/03	7,512	52,468	0	3,149,200	26,576	2,172,600	1.32
11/06/03	NA i	NA	NA	NA	NA	NA	NA
11/20/03	8,182	53,138	0	3,204,612	55,412	2,228,012	1.38
12/04/03	8,518	53,474	0	3,233,956	29,344	2,201,944	0.49
12/18/03	8,851	53,807	1	3,264,487	30,531	2,232,475	1.53
01/08/04	9,356	54,312	0	3,312,485	47,998	2,276,010	1.58
01/22/04	9,690	54,646	1	3,344,994	32,509	2,308,519	1.62
02/05/04	10,026	54,982	0	3,377,510	32,516	2,341,035	1.61
02/19/04	10,357	55,313	2	3,410,457	32,947	2,373,982	1.66
03/04/04	10,695	55,651	0	3,446,501	36,044	2,410,026	1.77
03/18/04	11,030	55,986	0	3,480,890	34,389	2,444,415	1.71
04/07/04	11,509	56,465	0	3,524,179	43,289	2,487,704	1.51
04/22/04	11,869	56,825	0	3,552,144	27,965	2,515,669	1.30
05/06/04	12,206	57,162	0	3,579,927	27,783	2,543,452	1.37
05/19/04	12,522	57,478	0	3,607,015	27,088	2,570,540	1.43
06/02/04	12,853	57,809	1	3,635,580	28,565	2,599,105	1.44
06/16/04	13,198	58,154	0	3,664,594	29,014	2,628,119	1.40
07/08/04	13,715	58,671	2	3,708,440	43,846	2,671,965	1.41
07/22/04	14,050	59,006	0	3,736,245	27,805	2,699,770	1.38
08/12/04	14,554	59,510	0	3,777,215	40,970	2,740,740	1.36
08/26/04	14,890	59,846	0	3,803,030	25,815	2,766,555	1.28
09/02/04	15,058	60,014	0	3,811,977	8,947	2,775,502	0.89
09/16/04	15,394	60,350	0	3,832,211	20,234	2,795,736	1.00
10/07/04	15,902	60,858	0	3,867,732	35,521	2,831,257	1.17
10/21/04	16,235	61,191	0	3,891,217	23,485	2,854,742	1.17
11/04/04	16,572	61,528	0	3,917,240	26,023	2,880,765	1.29
11/18/04	16,908	61,864	0	3,942,990	25,750	2,906,515	1.28
12/02/04	17,242	62,198	0	3,967,880	24,890	2,931,405	1.24
12/16/04	17,579	62,535	0	3,994,102	26,222	2,957,627	1.30
12/30/04	17,915	62,871	0	4,020,937	26,835	2,984,462	1.33

<b>REPORTING PERIOD:</b>	11/18/04 to 12/30/04
<b>PERIOD AVERAGE FLOW RATE (gpm):</b>	1.29
<b>PERIOD VOLUME DISCHARGED (gallons):</b>	77,947

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**Treatment System Metered Volume**  
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 San Lorenzo, California

Meter Reading Date	Hour Meter Reading (hours)	Total (hours)	System Downtime <sup>(k)</sup> (%)	Volume Reading (gallons)	Net Volume (gallons)	Cumulative Volume Removed (gallons)	Average Flow Rate (gpm)
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gpm = Gallons per minute

N/A = Not available or not applicable

Initial 3-hour startup pumping period May 31, 2000

- a. System restarted 6/5/00 (previously ran 9/25/91 - 8/21/95)
- b. System down during construction to main sewer line starting 6/25/01.
- c. System restarted 8/14/01 following completion of construction work.
- d. Hour meter reading not recorded. Estimated hours using last 3 months average.
- e. Hour meter reading not functioning.
- f. Hour meter replaced.
- g. An error in the table has been corrected to show correct flow rate values.
- h. System was down upon arrival due to utility power outage.
- i. System restarted 5/30/03 after power restored to system.
- j. System was down upon arrival due pump overload. Pump was pulled for cleaning and inspection
- k. Downtime calculated by the following:  $100 - [(Hours\ Running\ in\ Period) / ((Days\ in\ Reporting\ Period) * (24\ hours/day))]$
- l. Data from 11/6/03 site visit is unavailable.

**Table 2**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	TPH-g/GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>INFL (influent to primary carbon)</b>										
09/26/91	38	4.8	0.6	1.6	1.1	NS	NS	NS	NA	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
11/22/91	ND<30	0.52	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
02/19/92	370	14	0.34	14	2.4	NS	NS	NS	NA	NA
03/17/92	160	18	0.32	0.56	1.6	NS	NS	NS	NA	NA
04/15/92	200	11	ND<0.3	7.3	0.77	NS	NS	NS	NA	NA
05/14/92	45	1.4	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
07/14/92	97	25	ND<0.5	8.5	ND<0.5	NS	NS	NS	NA	NA
08/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
09/15/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
10/16/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
12/17/92	96	7.7	13	0.56	9.7	NS	NS	NS	NA	NA
01/18/93	100	13	6.6	1.1	11	NS	NS	NS	NA	NA
02/22/93	480	36	29	4.9	96	NS	NS	NS	NA	NA
03/15/93	310	29	14	4.9	55	NS	NS	NS	NA	NA
04/09/93	140	11	2.8	2.6	17	NS	NS	NS	NA	NA
05/13/93	530	27	12	18	96	NS	NS	NS	NA	NA
06/04/93	170	5.2	1.6	2.5	23	NS	NS	NS	NA	NA
07/20/93	200	12	0.91	8.2	29	NS	NS	NS	NA	NA
08/16/93	150	4.9	0.63	2.9	15	NS	NS	NS	NA	NA
09/13/93	80	2.2	ND<0.5	ND<0.5	4.8	NS	NS	NS	NA	NA
10/08/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/19/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
12/21/93	73	3.5	ND<0.5	1.9	8.4	NS	NS	NS	NA	NA
01/18/94	60	3.1	ND<0.5	3.2	4.3	NS	NS	NS	NA	NA
02/17/94	ND<50	2.5	ND<0.5	2.1	3.1	NS	NS	NS	NA	NA
03/15/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
04/21/94	110	7.8	ND<1.0	9.6	ND<1.0	NS	NS	NS	NA	NA
05/13/94	230	8.3	ND<0.5	14	6	NS	NS	NS	NA	NA
06/14/94	230	12	ND<0.5	16	1.5	NS	NS	NS	NA	NA
07/14/94	270	6.9	ND<0.5	15	1.9	NS	NS	NS	NA	NA
08/18/94	ND<50	1.8	ND<0.5	1.5	ND<0.5	NS	NS	NS	NA	NA
09/12/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
10/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/05/94	ND<50	0.66	ND<0.5	2.6	ND<0.5	NS	NS	NS	NA	NA
12/05/94	470	32	0.59	29	6.2	NS	NS	NS	NA	NA
01/04/95	ND<50	1.1	ND<0.50	1.4	ND<0.50	NS	NS	NS	NA	NA
02/06/95	100	2.4	1.1	1.2	2.8	NS	NS	NS	NA	NA
03/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
04/04/95	290	6.6	ND<0.50	10	1.7	NS	NS	NS	NA	NA
05/02/95	240	7.1	ND<0.50	3.2	1.6	NS	NS	NS	NA	NA
06/05/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
07/06/95	270	2.4	ND<0.50	7.6	1	NS	NS	NS	NA	NA
08/21/95	230	1.8	ND<0.50	1.6	0.92	NS	NS	NS	NA	NA

**Table 2**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	TPH-g/GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>INFL (influent to primary carbon) (cont.)</b>										
06/05/00	700	7.24	ND<1.00	2.11	ND<1.00	361	NS	NS	NA	NA
07/08/00	133	5.09	0.598	ND<0.500	ND<0.500	272	NS	NS	NA	NA
08/10/00	144	2.8	ND<0.500	1.04	ND<0.500	126	NS	NS	NA	NA
09/08/00	261	2.74	0.826	0.626	ND<0.500	120	NS	NS	NA	NA
10/10/00	114	ND<0.500	1.68	0.843	ND<0.500	ND<2.50	NS	NS	NA	NA
11/07/00	128	ND<0.500	ND<0.500	ND<0.500	ND<0.500	98.6	NS	NS	NA	NA
12/05/00	167	0.775	ND<0.500	ND<0.500	ND<0.500	104	NS	NS	NA	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	86.8	NS	NS	NA	NA
02/06/01	203	0.572	ND<0.500	0.513	ND<0.500	80.5	NS	NS	NA	NA
03/08/01	219	ND<0.500	6.16	1.21	0.682	81	NS	NS	NA	NA
04/18/01	74.5	ND<0.500	ND<0.500	ND<0.500	ND<0.500	97.5	NS	NS	NA	NA
05/04/01	63.3	ND<0.500	ND<0.500	ND<0.500	ND<0.500	93.2	NS	NS	NA	NA
06/09/01	64	ND<0.50	ND<0.50	ND<0.50	ND<0.50	71	NS	NS	NA	NA
07/05/01	100	ND<0.50	2.5	ND<0.50	ND<0.50	430	NS	NS	NA	NA
08/14/01	290	2.2	3.5	ND<1.0	ND<1.0	870	NS	NS	NA	NA
09/05/01	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<1.0	340	NS	NS	NA	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	150	NS	NS	NA	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	92	NS	NS	NA	NA
12/11/01	65	ND<0.50	0.58	ND<0.50	ND<0.50	83	NS	NS	NA	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	NS	NS	NA	NA
02/05/02	100	ND<0.50	ND<0.50	ND<0.50	ND<0.50	190	NS	NS	NA	NA
03/05/02	150	ND<1.2	ND<1.2	ND<1.2	ND<1.2	350	NS	NS	NA	NA
04/08/02	400	9.6	ND<1.0	1.4	ND<1.0	260	NS	NS	NA	NA
05/16/02	310	ND<1.0	ND<1.0	ND<1.0	ND<1.0	330	NS	NS	NA	NA
10/07/02	160	4.1	ND<1.0	ND<1.0	ND<1.0	130	NS	NS	NA	NA
11/07/02	250	ND<0.50	10	0.7	0.77	210	NS	NS	NA	NA
12/05/02	220	ND<1.0	ND<1.0	ND<1.0	ND<1.0	110	NS	NS	NA	NA
01/03/03	170	ND<1.0	ND<1.0	ND<1.0	ND<1.0	140	NS	NS	NA	NA
2/13/03'	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	66	NS	NS	NA	NA
3/27/03'	110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	71	NS	NS	NA	NA
4/24/03'	120	ND<0.50	ND<0.50	ND<0.50	ND<0.50	56	NS	NS	NA	NA
5/30/03'	20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<50	NS	NS	NA	NA
06/19/03	160	ND<0.50	ND<0.50	ND<0.50	ND<0.50	46	NS	NS	NA	NA
07/24/03	51	ND<0.50	ND<0.50	ND<0.50	ND<0.50	41 (47) <sup>+</sup>	NS	NS	NA	NA
08/28/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	30 (40) <sup>+</sup>	NS	NS	NA	NA
09/25/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	28	NS	NS	NA	NA
10/23/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	28 (28) <sup>+</sup>	NS	NS	NA	NA
11/20/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	22	NS	NS	NA	NA
12/18/03	52	ND<0.50	ND<0.50	ND<0.50	ND<1.0	27	NS	NS	NA	NA
01/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	27	NS	NS	NA	NA
02/19/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	25	NS	NS	NA	NA
03/18/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	27	NS	NS	NA	NA
04/07/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	25	NS	NS	NA	NA
04/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	19	NS	NS	NA	NA
05/19/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	19	NS	NS	NA	NA
06/16/04	63	ND<0.50	ND<0.50	ND<0.50	ND<1.0	20	NS	NS	NA	NA
07/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	15	NS	NS	NA	NA
08/26/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	23	NS	NS	NA	NA
09/16/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	18	NS	NS	NA	NA
10/21/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	17	NS	NS	NA	NA
11/18/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	14	NS	NS	NA	NA
12/16/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	15	NS	NS	NA	NA

**Table 2**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	TPH-g/GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>MID-1 (between primary and secondary carbons)</b>										
09/26/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
01/16/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
02/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
03/17/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
04/15/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
05/14/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
07/14/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
08/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
09/15/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
10/16/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
11/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
12/17/92	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
01/18/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
02/22/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
03/15/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
04/09/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
05/13/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
06/04/93	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
07/14/94	ND	ND	ND	ND	ND	NS	NS	NS	NA	NA
08/17/94	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
09/12/94	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
10/18/94	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
11/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
12/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
01/04/95	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
02/06/95	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
03/02/95	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
06/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
07/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
08/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<5.00	NS	NS	NA	NA
09/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA



**Table 2**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	TPH-g/GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>MID-1 (cont.)</b>										
10/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
11/07/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
12/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
03/08/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
05/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.3	NS	NS	NA	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.7	NS	NS	NA	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9	NS	NS	NA	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	26	NS	NS	NA	NA
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	NS	NS	NA	NA
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	39	NS	NS	NA	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	58	NS	NS	NA	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	55	NS	NS	NA	NA
11/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	100	NS	NS	NA	NA
12/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	51	NS	NS	NA	NA
01/03/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	66	NS	NS	NA	NA
2/13/03*	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	130	NS	NS	NA	NA
3/27/03*	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	120	NS	NS	NA	NA
4/24/03*	280	ND<2.5	ND<2.5	ND<2.5	ND<2.5	110	NS	NS	NA	NA
5/30/03*	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	140	NS	NS	NA	NA
06/19/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	110	NS	NS	NA	NA
07/24/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
08/28/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
09/25/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
10/23/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5 (1.3)*	NS	NS	NA	NA
11/20/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.1	NS	NS	NA	NA
12/18/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.2	NS	NS	NA	NA
01/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.3	NS	NS	NA	NA
02/19/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.2	NS	NS	NA	NA
03/18/04	67	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.4	NS	NS	NA	NA
04/07/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.5	NS	NS	NA	NA
04/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.3	NS	NS	NA	NA
05/19/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.0	NS	NS	NA	NA
06/16/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.8	NS	NS	NA	NA
07/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.6	NS	NS	NA	NA
08/26/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.2	NS	NS	NA	NA
09/16/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.1	NS	NS	NA	NA
10/21/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.0	NS	NS	NA	NA
11/18/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.5	NS	NS	NA	NA
12/16/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.9	NS	NS	NA	NA

**Table 2**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	TPH-g/GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>MID-2 (between secondary and tertiary carbons)</b>										
06/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
07/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
09/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
10/10/00	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
11/07/00	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
12/05/00	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
03/08/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
05/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA	NA
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.7	NS	NS	NA	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
11/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
12/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
01/03/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
2/13/03'	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1	NS	NS	NA	NA
3/27/03'	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.94	NS	NS	NA	NA
4/24/03'	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.95	NS	NS	NA	NA
5/30/03'	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	NS	NS	NA	NA
06/19/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
07/24/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
08/28/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
09/25/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
10/23/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5 (<0.5)*	NS	NS	NA	NA
11/20/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
12/18/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
01/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
02/19/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
03/18/04	86	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
04/07/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
04/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
05/19/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
06/16/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
07/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
08/26/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
09/16/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
10/21/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
11/18/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
12/16/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA

**Table 2**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	TPH-g/GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>EFFL (effluent to sewer)</b>										
09/26/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
11/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
01/16/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
02/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
03/17/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
04/15/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
05/14/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA	NA
07/14/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
08/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
09/15/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
10/16/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
12/17/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
01/18/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
02/22/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
03/15/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
04/09/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
05/13/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
06/04/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
07/20/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
08/16/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
09/13/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
10/08/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/19/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
12/21/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
01/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
02/17/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
03/15/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
04/21/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
05/13/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
06/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
07/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
08/17/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA

**Table 2**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	TPH-g/GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>EFFL (effluent to sewer) (cont.)</b>										
09/12/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
10/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
11/05/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
12/05/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA	NA
01/04/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
02/06/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
03/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
04/04/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
05/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
06/05/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
07/06/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
08/21/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA	NA
06/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	7.19	NA
06/12/00	ND<50.0	NS	NS	NS	NS	NS	NS	NS	NA	NA
07/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	32.1	ND<10.0	7.08	NA
08/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<5.00	23.4	ND<10.0	6.67	NA
09/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	29.2	ND<10.0	6.82	NA
10/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.25	NA
11/07/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.24	NA
12/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	44	ND<10.0	7.48	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.00	NA
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	10.7	7.03	NA
03/08/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.04	NA
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	28.5	ND<10.0	7.06	NA
05/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	ND<20.0	ND<10.0	7.31	NA
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	34	ND<10	7.05	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	7.10	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	14	7.09	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	70	ND<10	7.07	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	55	ND<10	6.89	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	150	ND<10	6.98	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	34	ND<10	7.01	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	52	ND<10	7.22	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.91	NA
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.77	NA
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.52	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.60	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA	NA
11/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	0.74	ND<2.5	ND<30	ND<10	7.80	NA
12/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<30	ND<10	7.40	0.27
01/03/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<30	ND<10	7.50	NA
2/13/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<30	ND<10	7.15	0.12
3/27/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	32	ND<10	7.50	0.08
4/24/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<30	ND<10	6.95	10.23
5/30/03*	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<30	ND<10	6.95	NA
06/19/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	7.02	9.75
07/24/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	7.07	3.00
08/28/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	7.03	2.12

**Table 2**  
**Treatment System Analytical Data**  
 ARCO Service Station #0608  
 17601 Hesperian Boulevard at Hacienda Avenue  
 San Lorenzo, California

Date Sampled	TPH-g/GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
<b>EFFL (effluent to sewer) (cont.)</b>										
09/25/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<20	ND<10	6.79	2.70
10/23/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5 (<0.5) <sup>+</sup>	ND<20	ND<10	6.82	3.45
11/20/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<30	ND<10	6.94	0.84
12/18/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<20	ND<10	7.01	0.94
01/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<20	ND<10	7.12	0.85
02/19/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<20	10	6.57	3.82
03/18/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<20	ND<10	7.08	0.97
04/07/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	NS	NS	NA	NA
04/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	27	ND<10	6.69	1.64
05/19/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	20	13	6.50	1.40
06/16/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<20	ND<10	6.79	0.75
07/22/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<20	ND<10	6.81	1.09
08/26/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<30	19	7.20	1.20
09/16/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<30	ND<10	7.20	1.20
10/21/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<20	ND<10	6.89	2.60
11/18/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<20	14	6.95	0.34
12/16/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<20	ND<10	6.92	2.00

COD =Chemical oxygen demand, analyzed using EPA Method 410.4  
 DO =Dissolved Oxygen, field measurement  
 µg/L =Micrograms per liter  
 mg/L =Milligrams per liter  
 MtBE =Methyl tert Butyl Ether, analyzed using EPA Method 8015B/8021B  
 NA =Not applicable or not available  
 ND< =Not detected above the laboratory reporting limit.  
 NS =Not sampled  
 TPH-g =Total purgeable petroleum hydrocarbons as gasoline, analyzed using EPA Method 8015B/8021B  
 GRO =Gasoline Range Organics, analyzed using EPA Method 8260B  
 TSS =Total suspended solids, analyzed using EPA Method 160.2

**Notes:**

1. Analyzed with EPA Method 8260
2. MTBE concentration analyzed by EPA methods 8021B and 8260B (Results of EPA Method 8260 shown in parenthesis).
3. GRO/BTEX/MtBE analyzed using EPA Method 8260B beginning February 19, 2004.
4. The data within this table collected prior to May 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.
5. Beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPHg) has been changed to GRO. The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in higher concentrations being reported.

**ATTACHMENT A**

**CERTIFIED ANALYTICAL REPORT  
AND CHAIN-OF-CUSTODY DOCUMENTATION**

**URS-Oakland, CA**

December 30, 2004

1333 Broadway, Suite 800  
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486707.0L041

Project: BP Facility No: 608

Site: 17601 Hesperian Blvd., San Leandro, CA

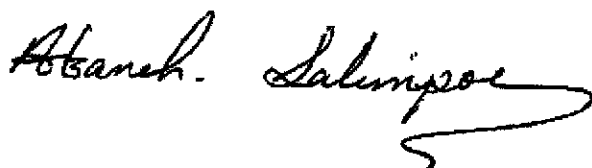
Attached is our report for your samples received on 12/17/2004 14:20  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
01/31/2005 unless you have requested otherwise.

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

You can also contact me via email. My email address is: [asalimpour@stl-inc.com](mailto:asalimpour@stl-inc.com)

Sincerely,



Afsaneh Salimpour  
Project Manager

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](http://www.stl-inc.com) \* CA DHS ELAP# 2496

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
INFL	12/16/2004 10:50	Water	1
MID-1	12/16/2004 10:45	Water	2
MID-2	12/16/2004 10:40	Water	3
EFFL	12/16/2004 10:30	Water	4

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

12/30/2004 14:18



**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: INFL	Lab ID: 2004-12-0653 - 1
Sampled: 12/16/2004 10:50	Extracted: 12/24/2004 15:22
Matrix: Water	QC Batch#: 2004/12/24-1D.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	12/24/2004 15:22	
Benzene	ND	0.50	ug/L	1.00	12/24/2004 15:22	
Toluene	ND	0.50	ug/L	1.00	12/24/2004 15:22	
Ethylbenzene	ND	0.50	ug/L	1.00	12/24/2004 15:22	
Total xylenes	ND	1.0	ug/L	1.00	12/24/2004 15:22	
tert-Butyl alcohol (TBA)	6.0	5.0	ug/L	1.00	12/24/2004 15:22	
Methyl tert-butyl ether (MTBE)	15	0.50	ug/L	1.00	12/24/2004 15:22	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	12/24/2004 15:22	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	12/24/2004 15:22	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	12/24/2004 15:22	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.0	73-130	%	1.00	12/24/2004 15:22	
Toluene-d8	100.2	81-114	%	1.00	12/24/2004 15:22	

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

12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MID-1	Lab ID:	2004-12-0653 - 2
Sampled:	12/16/2004 10:45	Extracted:	12/24/2004 13:36
Matrix:	Water	QC Batch#:	2004/12/24-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	12/24/2004 13:36	
Benzene	ND	0.50	ug/L	1.00	12/24/2004 13:36	
Toluene	ND	0.50	ug/L	1.00	12/24/2004 13:36	
Ethylbenzene	ND	0.50	ug/L	1.00	12/24/2004 13:36	
Total xylenes	ND	1.0	ug/L	1.00	12/24/2004 13:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/24/2004 13:36	
Methyl tert-butyl ether (MTBE)	1.9	0.50	ug/L	1.00	12/24/2004 13:36	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	12/24/2004 13:36	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	12/24/2004 13:36	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	12/24/2004 13:36	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	109.6	73-130	%	1.00	12/24/2004 13:36	
Toluene-d8	106.4	81-114	%	1.00	12/24/2004 13:36	

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

12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: MID-2	Lab ID: 2004-12-0653 - 3
Sampled: 12/16/2004 10:40	Extracted: 12/24/2004 13:58
Matrix: Water	QC Batch#: 2004/12/24-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	12/24/2004 13:58	
Benzene	ND	0.50	ug/L	1.00	12/24/2004 13:58	
Toluene	ND	0.50	ug/L	1.00	12/24/2004 13:58	
Ethylbenzene	ND	0.50	ug/L	1.00	12/24/2004 13:58	
Total xylenes	ND	1.0	ug/L	1.00	12/24/2004 13:58	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/24/2004 13:58	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/24/2004 13:58	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	12/24/2004 13:58	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	12/24/2004 13:58	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	12/24/2004 13:58	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	107.5	73-130	%	1.00	12/24/2004 13:58	
Toluene-d8	106.2	81-114	%	1.00	12/24/2004 13:58	

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

12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA  
Attn.: Scott Robinson

1333 Broadway, Suite 800  
Oakland, CA 94612  
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041  
BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: EFFL	Lab ID: 2004-12-0653 - 4
Sampled: 12/16/2004 10:30	Extracted: 12/24/2004 14:20
Matrix: Water	QC Batch#: 2004/12/24-1C:64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	12/24/2004 14:20	
Benzene	ND	0.50	ug/L	1.00	12/24/2004 14:20	
Toluene	ND	0.50	ug/L	1.00	12/24/2004 14:20	
Ethylbenzene:	ND	0.50	ug/L	1.00	12/24/2004 14:20	
Total xylenes	ND	1.0	ug/L	1.00	12/24/2004 14:20	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/24/2004 14:20	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/24/2004 14:20	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	12/24/2004 14:20	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	12/24/2004 14:20	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	12/24/2004 14:20	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	112.9	73-130	%	1.00	12/24/2004 14:20	
Toluene-d8	105.0	81-114	%	1.00	12/24/2004 14:20	

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2004/12/24-1C.64	
MB: 2004/12/24-1C.64-034				Date Extracted: 12/24/2004 08:34	

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	12/24/2004 08:34	
Benzene	ND	0.5	ug/L	12/24/2004 08:34	
Toluene	ND	0.5	ug/L	12/24/2004 08:34	
Ethylbenzene	ND	0.5	ug/L	12/24/2004 08:34	
Total xylenes	ND	1.0	ug/L	12/24/2004 08:34	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	12/24/2004 08:34	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/24/2004 08:34	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	12/24/2004 08:34	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	12/24/2004 08:34	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	12/24/2004 08:34	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	108.0	73-130	%	12/24/2004 08:34	
Toluene-d8	109.0	81-114	%	12/24/2004 08:34	

Severn Trent Laboratories, Inc.

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12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA  
Attn.: Scott Robinson

1333 Broadway, Suite 800  
Oakland, CA 94612  
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041  
BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report					
Prep(s): 5030B		Water		Test(s): 8260B	
Method Blank				QC Batch # 2004/12/24-1D.68	
MB: 2004/12/24-1D.68-033				Date Extracted: 12/24/2004 08:33	
Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	12/24/2004 08:33	
Benzene	ND	0.5	ug/L	12/24/2004 08:33	
Toluene	ND	0.5	ug/L	12/24/2004 08:33	
Ethylbenzene	ND	0.5	ug/L	12/24/2004 08:33	
Total xylenes	ND	1.0	ug/L	12/24/2004 08:33	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	12/24/2004 08:33	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/24/2004 08:33	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	12/24/2004 08:33	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	12/24/2004 08:33	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	12/24/2004 08:33	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.2	73-130	%	12/24/2004 08:33	
Toluene-d8	94.6	81-114	%	12/24/2004 08:33	

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA  
Attn.: Scott Robinson

1333 Broadway, Suite 800  
Oakland, CA 94612  
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041  
BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Water		QC Batch # 2004/12/24-1C.64
LCS 2004/12/24-1C.64-012	Extracted: 12/24/2004		Analyzed: 12/24/2004 08:12
LCSD			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	28.0		25	112.0			65-165	20		
Benzene	26.6		25	106.4			69-129	20		
Toluene	28.4		25	113.6			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	546		500	109.2			73-130			
Toluene-d8	542		500	108.4			81-114			

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

12/30/2004 14:18

**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA  
Attn.: Scott Robinson

1333 Broadway, Suite 800  
Oakland, CA 94612  
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041  
BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Water	QC Batch # 2004/12/24-1D.68
LCS	2004/12/24-1D.68-016	Extracted: 12/24/2004	Analyzed: 12/24/2004 08:16
LCSD			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %			Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.8		25	103.2			65-165	20			
Benzene	25.6		25	102.4			69-129	20			
Toluene	25.6		25	102.4			70-130	20			
<b>Surrogates(s)</b>											
1,2-Dichloroethane-d4	400		500	80.0			73-130				
Toluene-d8	490		500	98.0			81-114				



**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

Received: 12/17/2004 14:20

BP Facility No: 608

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>	<b>QC Batch # 2004/12/24-1C.64</b>	
MS/MSD		Lab ID:	2004-12-0578 - 001
MS: 2004/12/24-1C.64-003	Extracted: 12/24/2004	Analyzed:	12/24/2004 11:03
		Dilution:	1.00
MSD: 2004/12/24-1C.64-025	Extracted: 12/24/2004	Analyzed:	12/24/2004 11:25
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	26.5	26.2	ND	25	106.0	104.8	1.1	69-129	20		
Toluene	27.7	28.5	ND	25	110.8	114.0	2.8	70-130	20		
Methyl tert-butyl ether	30.0	29.6	0.967	25	116.1	114.5	1.4	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	548	548		500	109.7	109.2		73-130			
Toluene-d8	544	545		500	108.8	109.0		81-114			

Severn Trent Laboratories, Inc.

12/30/2004 14:18

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**Gas/BTEX Fuel Oxygenates by 8260B**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>	<b>QC Batch # 2004/12/24-1D.68</b>	
MS/MSD		Lab ID:	2004-12-0632 - 001
MS: 2004/12/24-1D.68-045	Extracted: 12/24/2004	Analyzed:	12/24/2004 10:45
		Dilution:	1.00
MSD: 2004/12/24-1D.68-003	Extracted: 12/24/2004	Analyzed:	12/24/2004 11:03
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	25.9	26.3	ND	25	103.6	105.2	1.5	69-129	20		
Toluene	27.3	26.7	ND	25	109.2	106.8	2.2	70-130	20		
Methyl tert-butyl ether	84.6	83.4	54.4	25	120.8	116.0	4.1	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	401	418		500	80.1	83.6		73-130			
Toluene-d8	508	510		500	101.6	102.0		81-114			

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

12/30/2004 14:18

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
EFFL	12/16/2004 10:30	Water	4

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

12/28/2004 19:21

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Prep(s):	160.2	Test(s):	160.2
Sample ID:	EFFL	Lab ID:	2004-12-0653 - 4
Sampled:	12/16/2004 10:30	Extracted:	12/20/2004 06:15
Matrix:	Water	QC Batch#:	2004/12/20-01.29

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
TSS	ND	10	mg/L	1.00	12/20/2004 12:58	

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

12/28/2004 19:21

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report					
Prep(s): 160.2		Water		Test(s): 160.2	
Method Blank				QC Batch # 2004/12/20-01.29	
MB: 2004/12/20-01.29-001				Date Extracted: 12/20/2004 06:15	
Compound	Conc.	RL	Unit	Analyzed	Flag
TSS	ND	10	mg/L	12/20/2004 12:55	

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

12/28/2004 19:21

Page 3 of 4

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486707.0L041

BP Facility No: 608

Received: 12/17/2004 14:20

Site: 17601 Hesperian Blvd., San Leandro, CA

Batch QC Report										
Prep(s): 160.2						Test(s): 160.2				
Laboratory Control Spike				Water			QC Batch # 2004/12/20-01.29			
LCS	2004/12/20-01.29-002			Extracted: 12/20/2004			Analyzed: 12/20/2004 12:56			
LCSD	2004/12/20-01.29-003			Extracted: 12/20/2004			Analyzed: 12/20/2004 12:56			
Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
TSS	908	1000	1000	90.8	100.0	9.6	80-120	20		

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

12/28/2004 19:21



2004-12-0653

Chain of Custody Record

Project Name: Station 608 - O&M - Remediation/Environmental  
 BP/BUGEM CO Portfolio: Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company  
 Requested Due Date (mm/dd/yy): 12/30/04  
 (Standard 14 day TAT)

On-site Time: 0900 Temp: 58  
 Off-site Time: Temp:  
 Sky Conditions: Sunny, Cool  
 Meteorological Events: None  
 Wind Speed: N/A Direction: N/A

Date: 12/16/04

Send To:	BP/GEM Facility No.: Station 608	Consultant/Contractor: URS Oakland
Lab Name: STL-SF (Pleasanton)	BP/GEM Facility Address: 17601 Hesperian Blvd, San Lorenzo, CA	Address: 1333 Broadway, Suite 800
Lab Address:	Site ID No.: Station 608	Oakland, CA 94612
1220 Quarry Lane	Site Lat/Long:	e-mail: EDD; No HDP
Pleasanton, CA 94566-4756	California Global ID #: T000100085	Consultant/Contractor Project No.: 38486707.0L041
Lab PM: Afzaneh Salimpour	BP/GEM Environmental Business Manager: Paul Supple	Consultant/Contractor Tele/Fax: 510.893.3600/510.874.3268
Tele/Fax: 925.484.1919/925.484.1096	Address: P.O. Box 6549	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Level 1	Moraga, CA 94570	Invoice for: Atlantic Richfield Co
BP/GEM Account No.:	Tele/Fax: 925.299.8891/925.299.8873	BP/GRM Work Release No: G09JZ-0456

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of containers	Preservatives				Requested Analysis				Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	GRG (8260)	BTEX (8260)	MTHH (8260)	Free Oxy. (8260)	
1	INFL	0530	12/16	X			3				X	X	X	X			
2	MID-1	0915	12/16	X			3				X	X	X	X			
3	MID-2	1010	12/16	X			3				X	X	X	X			
4	EPFL	1030	12/16	X			3				X	X	X	X			
5	EPFL	1030	12/16	X			1	X						X			NO EDF
6	EPFL	1030	12/16	X			1	X						X			
7	Trip blank	0700	12/16				4										on hold
8																	
9																	
10																	

Sampler's Name: George DRAZMAN	Relinquished By / Affiliation: [Signature]	Date: 12/16/04	Time: 1555	Accepted By / Affiliation: [Signature]	Date: 12/16/04	Time: 1555
Sampler's Company: URS Corporation		Date: 12/16/04	Time: 1005		Date: 12/16/04	Time: 1005
Shipment Date: 12/16/04		Date: 12/16/04	Time: 1420		Date: 12/16/04	Time: 1420
Shipment Method: SAC - STL						
Shipment Tracking No:						

Special Instructions: COD = Chemical Oxygen Demand (250 ml poly w/H2SO4), TSS = Total Suspended Solids (250 ml poly unpreserved)

Custody Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt: 20°C Trip Blank Yes No



27 December, 2004

Afsaneh Salimpour  
Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

RE: BP  
Work Order: P412351

Enclosed are the results of analyses for samples received by the laboratory on 12/20/04 01:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stacy P. Hoch For Michael R. Giles  
Laboratory Director

CA ELAP Certificate #2374





Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton CA, 94566

Project:BP  
Project Number:2004-12-0653-1  
Project Manager:Afsaneh Salimpour

P412351  
Reported:  
12/27/04 15:07

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFFL	P412351-01	Water	12/16/04 10:30	12/20/04 01:32

Severn Trent Laboratories, San Francisco 1220 Quarry Lane Pleasanton CA, 94566	Project:BP Project Number:2004-12-0653-1 Project Manager:Afsaneh Salimpour	P412351 Reported: 12/27/04 15:07
--	--	--

**Conventional Chemistry Parameters by APHA/EPA Methods  
 Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>EFFL (P412351-01) Water    Sampled: 12/16/04 10:30    Received: 12/20/04 01:32</b>									
Chemical Oxygen Demand	ND	20000	ug/l	1	4120483	12/23/04	12/23/04	EPA 410.4	

Severn Trent Laboratories, San Francisco  
 1220 Quarry Lane  
 Pleasanton CA, 94566

 Project: BP  
 Project Number: 2004-12-0653-1  
 Project Manager: Afsaneh Salimpour

 P412351  
 Reported:  
 12/27/04 15:07

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control  
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4120483 - General Preparation / EPA 410.4</b>										
<b>Blank (4120483-BLK1)</b>										
Chemical Oxygen Demand	ND	20000	ug/l							Prepared & Analyzed: 12/23/04
<b>Laboratory Control Sample (4120483-BS1)</b>										
Chemical Oxygen Demand	234000	20000	ug/l	250000		94	80-120			Prepared & Analyzed: 12/23/04
<b>Matrix Spike (4120483-MS1)</b>										
Chemical Oxygen Demand	513000	40000	ug/l	500000	19000	99	75-125			Source: P412304-06 Prepared & Analyzed: 12/23/04
<b>Matrix Spike Dup (4120483-MSD1)</b>										
Chemical Oxygen Demand	509000	40000	ug/l	500000	19000	98	75-125	0.8	20	Source: P412304-06 Prepared & Analyzed: 12/23/04

Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton CA, 94566

Project:BP  
Project Number:2004-12-0653-1  
Project Manager:Afsaneh Salimpour

P412351  
Reported:  
12/27/04 15:07

**Notes and Definitions**

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference



STL

P412351

Chain of Custody

Date Shipped: 12/20/2004

2004-12-0653 - 1

From: STL San Francisco (CL) 1220 Quarry Lane Pleasanton, CA 94566-4756

To: Sequoia Analytical Petaluma 1455 N. McDowell Blvd., North Ste. D Petaluma, CA 94954

Project Manager: Afsaneh Salimpour Phone: (925) 484-1919 Ext: 107 Fax: (925) 484-1096 Email: asalimpour@stl-inc.com

Phone: (707) 792-1865 Ext: Fax: (707) 792-0342 Contact: Sample Receiving Phone: (707) 792-1865 Ext:

CL Submission #: 2004-12-0653

Project #: Consultant Project No: 38486707.0L041

CL PO #:

Project Name: BP Facility No: 608

Table with columns: Client Sample ID, Analysis, Matrix, Method, TAT. Row 1: EFFL, Subcontract - COD, P41235101, 4, 12/16/2004 10:30:00AM, Water, 410.4, 5 Day

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: 1. Signature: [Handwritten], Time: 0900, Printed Name: Joan Mullen, Date: 12-20-04, Company: STL SF

RELINQUISHED BY: 2. Signature: [Handwritten], Time: 1032, Printed Name: B. Morin, Date: 12/20/04, Company: STL-SF

RELINQUISHED BY: 3. Signature: [Blank], Time: [Blank], Printed Name: [Blank], Date: [Blank], Company: [Blank]

RECEIVED BY: Signature: [Handwritten], Time: [Blank], Printed Name: B. Morin, Date: 12/20/04, Company: STL-SF

RECEIVED BY: 2. Signature: [Handwritten], Time: [Blank], Printed Name: SAUL HERRMANN, Date: 1032, Company: Sequoia

RECEIVED BY: 3. Signature: [Blank], Time: [Blank], Printed Name: [Blank], Date: [Blank], Company: [Blank]

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

**CLIENT NAME:** SFL  
**REC. BY (PRINT)** GM  
**WORKORDER:** ~~12/2~~ P4/12351

**DATE Received at Lab:** 12/20/04  
**TIME Received at Lab:** 1052  
**LOG IN DATE:** 12/20/04

**(Drinking water) for regulatory purposes:** YES/NO  
**(Wastewater) for regulatory purposes:** YES/NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	Dash #	CLIENT ID	CONTAINER DESCRIPTION	pH	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent Intact / Broken*			EFFL	250ml Sty		W	12/16/04	
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*								
3. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent								
4. Airbill #:								
5. Sample Labels: <input checked="" type="radio"/> Present / Absent								
6. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody								
7. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*								
8. Does information on custody reports, traffic reports, and sample labels agree? <input checked="" type="radio"/> Yes / No*								
9. Sample received within hold time: <input checked="" type="radio"/> Yes / No*								
10. Proper Preservatives used: <input checked="" type="radio"/> Yes / No*				12/20/04				
11. Temperature Blank Received? Yes / <input checked="" type="radio"/> No*				W				
12. Temp Rec. at Lab: <u>5.9</u> degrees C (Acceptance range for samples requiring thermal pres.: 4 +/- 2°C) <input checked="" type="radio"/> Yes / No*								
13. Samples collected more than 4 days ago? <input checked="" type="radio"/> Yes / <input checked="" type="radio"/> No*								

**\*If Circled, contact Project Manager and attach record of resolution.**

**ATTACHMENT B**  
**OPERATION AND MAINTENANCE FIELD LOGS**

Date: 12/2/04

**Groundwater Extraction & Treatment System  
ARCO Service Station 0608  
17601 Hesperian Boulevard  
38486314.0L041  
August 14, 2003**

**System Description:**

Groundwater Pumps				
Well	Type	Size	Control	Set Depth (TOB)
E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-2.400  
Filter: Rosedale P2 25 micron

**PART A: SYSTEM DATA (Semi-Monthly)**

System on upon arrival? Operating (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	<u>40644 kWh.</u>	HOUR METER READING (hrs)	<u>17242.2</u>
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MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	<u>3,967,880</u>	
FILTER INLET PRESSURE (psig)	<u>17.0</u>	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	<u>14.6</u>	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	<u>10.0 / 4.5</u>	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	<u>0</u>	(ideal range: 0 to 2 psig)

PART B: COMMENTS System Averaging 12792 gal/day

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**PART C: WELL DATA (Monthly)**

\* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS

WELL	DTW (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
E-1A				
UST-A		N/A	N/A	
UST-B		N/A	N/A	
SP1-V4		N/A	N/A	

**PART D: SAMPLING (Monthly)**

*To be Collected 12/16/04*

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds, MtBE	
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	
MID-1	TPH-gasoline, BTEX compounds, MtBE	
MID-2	TPH-gasoline, BTEX compounds, MtBE	

**PART E: READINGS (Monthly)**

*To be Collected 12/16/04*

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)

**PART F: SYSTEM MAINTENANCE I (Monthly)**

NUMBER OF SPARE FILTERS ON SITE?	0	CHANGE FILTERS? (if necessary)	Yes
PUMP AMP DRAW	N/A	H2O2 injection well EA-1 (if necessary)	N/A
SWEEP ENCLOSURE	No		

**PART G: SYSTEM MAINTENANCE II (Quarterly)**

TEST ALARM SWITCHES	Yes	BACKFLUSH CARBONS	N/A
CLEAN TOTALIZERS	No		

Date: 12/16/04

**Groundwater Extraction & Treatment System**  
**ARCO Service Station 0608**  
**17601 Hesperian Boulevard**  
**38486314.0L041**  
**August 14, 2003**

**System Description:**

Groundwater Pumps				
Well	Type	Size	Control	Set Depth (TOB)
E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-2,400  
 Filter: Rosdale P2 25 micron

**PART A: SYSTEM DATA (Semi-Monthly)**

System on upon arrival? Operating (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	<u>40833 kWh</u>	HOUR METER READING (hrs)	<u>17578.6</u>
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MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	<u>3994102</u>	<u>3994185</u>
FILTER INLET PRESSURE (psig)	<u>15</u>	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	<u>13.2</u>	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	<u>8.7 / 4.2</u>	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	<u>0</u>	(ideal range: 0 to 2 psig)

**PART B: COMMENTS**

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**PART C: WELL DATA (Monthly)**

\* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS

WELL	DTW (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
E-1A				
UST-A		N/A	N/A	
UST-B		N/A	N/A	
SP1-V4		N/A	N/A	

**PART D: SAMPLING (Monthly)**

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds, MtBE	12/16
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	12/16
MID-1	TPH-gasoline, BTEX compounds, MtBE	12/16
MID-2	TPH-gasoline, BTEX compounds, MtBE	12/16

**PART E: READINGS (Monthly)**

EFFLUENT	TEMP (°F) 16.4°C	CONDUCTIVITY (umhos) 1650 µS	pH (units) 6.92	DISSOLVED OXYGEN (ppm) 2.00
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**PART F: SYSTEM MAINTENANCE I (Monthly)**

NUMBER OF SPARE FILTERS ON SITE?	0	CHANGE FILTERS? (if necessary)	Yes
PUMP AMP DRAW	N/A	H2O2 injection well EA-1 (if necessary)	N/A
SWEEP ENCLOSURE	N/A		

**PART G: SYSTEM MAINTENANCE II (Quarterly)**

TEST ALARM SWITCHES	Yes	BACKFLUSH CARBONS	N/A
CLEAN TOTALIZERS	Yes		

Date: 12/30/04

**Groundwater Extraction & Treatment System**  
**ARCO Service Station 0608**  
**17601 Hesperian Boulevard**  
**38486314.0L041**  
**August 14, 2003**

**System Description:**

Well	Type	Groundwater Pumps Size	Control	Set Depth (TOB)
E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-2,400  
 Filter: Rosedale P2 25 micron

**PART A: SYSTEM DATA (Semi-Monthly)**

System on upon arrival? Operating (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	<u>41024</u>	HOUR METER READING (hrs)	<u>17915.0</u>
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MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	<u>4,020,937</u>	<u>4,020,940</u>
FILTER INLET PRESSURE (psig)	<u>17.0</u>	(ideal range: 8 to 12 psig) <u>14.0</u>
CARBON #1 INLET PRESSURE (psig)	<u>14.5</u>	(ideal range: 5 to 9 psig) <u>13.2</u>
CARBON #2 INLET PRESSURE (psig) <u>#3</u>	<u>9.8</u> <u>4.5</u>	(ideal range: 1 to 4 psig) <u>9.0</u> <u>3.9</u>
DISCHARGE PRESSURE (psig)	<u>0</u>	(ideal range: 0 to 2 psig) <u>0</u>

**PART B: COMMENTS** Blow Air from Bag Filter,  
Pressure Drapped.

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**PART C: WELL DATA (Monthly)**

\* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS

WELL	DTW (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
E-1A				
UST-A		N/A	N/A	
UST-B		N/A	N/A	
SP1-V4		N/A	N/A	

**PART D: SAMPLING (Monthly)**

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds, MtBE	12/16
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	12/16
MID-1	TPH-gasoline, BTEX compounds, MtBE	12/16
MID-2	TPH-gasoline, BTEX compounds, MtBE	12/16

**PART E: READINGS (Monthly)**

*Completed 12/16*

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)

**PART F: SYSTEM MAINTENANCE I (Monthly)**

NUMBER OF SPARE FILTERS ON SITE?	0	CHANGE FILTERS? (if necessary)	No
PUMP AMP DRAW	N/A	H202 injection well EA-1 (if necessary)	N/A
SWEEP ENCLOSURE	No		

**PART G: SYSTEM MAINTENANCE II (Quarterly)**

TEST ALARM SWITCHES	Yes	BACKFLUSH CARBONS	N/A
CLEAN TOTALIZERS	No		