

February 17, 2004

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

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

Dear Mr. Carson:

On behalf of Atlantic Richfield Company (ARCO – a 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 between December 18, 2003 and January 22, 2004 (Tables 1 and 2). Operational parameters are summarized in the table shown below.

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<b><i>Treatment System Status:</i></b>	<b><i>Operational</i></b>
<b><i>Reporting Period:</i></b>	12/18/2003 to 01/22/2004
<b><i>Period Volume Discharged:</i></b>	80,507 gallons
<b><i>Effluent pH Reading:</i></b>	7.12
<b><i>Average Period Flow Rate:</i></b>	1.60 gpm
<b><i>Analytical Reports:</i></b>	Attachment A
<b><i>O &amp; M Field Information:</i></b>	Attachment B

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***DISCUSSION:***

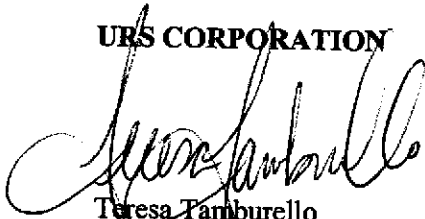
Monthly compliance samples were collected on January 22, 2004 and analyzed for TPH-g, BTEX, and fuel oxygenates. MTBE was detected above the laboratory reporting limit in the influent sample and the sample collected between the primary and secondary carbon vessels at concentrations of 27 µg/L and 1.3 µg/L, respectively. Fuel oxygenates were not detected above laboratory reporting limits in any of the compliance samples with the exception of tert-amyl methyl ether (TAME) detected at 1.3 µg/L in the influent sample. None of the constituents were detected above the laboratory reporting limits in the effluent sample.

URS has been monitoring the system pressures due to elevated pressures observed during the month of December 2003. The inlet pressures across the carbon vessels were relatively high during this month. During the January 8, 2004 maintenance visit, the URS technician noted pressures on arrival that were at or above the ideal range and bled air from the carbon vessels to decrease the pressures (Attachment B). On January 22, 2004 the URS technician inspected the primary carbon to evaluate if silt or sediment build-up in the carbon was causing the increase in pressures. Nothing unusual was found. URS will install air relief valves in February 2004 to manage the increase in pressures.


If you have any questions regarding this project or require further information, please do not hesitate to call Teresa Tamburello at 510-874-3099.

Sincerely,

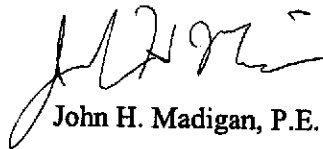
URS CORPORATION




Teresa Tamburello  
Staff Engineer



Scott Robinson  
Project Manager



John H. Madigan, P.E.



Attachments: Table 1 - Treatment System Metered Volume  
Table 2 - Treatment System Analytical Data  
Attachment A - Certified Analytical Report and Chain-of-Custody  
Documentation, January 22, 2004  
Attachment B - Operation and Maintenance Field Logs

cc: Mr. Paul Supple, ARCO, (electronic copy submitted to ENFOS)  
Mr. Ron Sykora/Mr. Robert L. Webster, David D. Bohannon Organization, 60 Hillsdale Mall,  
San Mateo, CA 94403  
Mr. John Kaiser, Regional Water Quality Control Board - San Francisco Bay Region, 1515  
Clay Street, Suite 1400, Oakland, CA 94612  
Ms. eva chu, Alameda County Health Care Services Agency, 1131 Harbor Bay  
Parkway, Alameda, CA 94502

**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	1,576,520	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	d 42,832		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	e 44,956		97	2,520,582	293	1,543,982	N/A
10/07/02	e 44,956		100	2,522,394	1,812	1,545,794	N/A
10/24/02	e 44,956		100	2,527,898	5,504	1,551,298	N/A

**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>(*)</sup> (%)	Volume Reading (gallons)	Net Volume (gallons)	Cumulative Volume Removed (gallons)	Average Flow Rate (gpm)
11/07/02	0 f	44,956	-	2,527,925	27	1,551,325	N/A
11/21/02	336	45,292	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
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 l	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	0	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	0	3,344,994	32,509	2,308,519	1.62

<b>REPORTING PERIOD:</b>	12/18/03 to 01/22/04
<b>PERIOD AVERAGE FLOW RATE (gpm):</b>	1.60
<b>PERIOD VOLUME DISCHARGED (gallons):</b>	80,507

gpm = Gallons per minute

N/A = Not available or not applicable

Initial 3-hour startup pumping period May 31, 2000

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

**Table 2**  
**Treatment System Analytical Data**  
**Total Petroleum Hydrocarbons**  
**(TPH as Gasoline and BTEX Compounds)**

ARCO Service Station #0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Date Sampled	TPH-g (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**  
**Total Petroleum Hydrocarbons**  
**(TPH as Gasoline and BTEX Compounds)**

ARCO Service Station #0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Date Sampled	TPH-g (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)**	NS	NS	NA	NA
08/28/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	30 (40)**	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)**	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

**Table 2**  
**Treatment System Analytical Data**  
**Total Petroleum Hydrocarbons**  
**(TPH as Gasoline and BTEX Compounds)**

ARCO Service Station #0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Date Sampled	TPH-g (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
01/16/91	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**  
**Total Petroleum Hydrocarbons**  
**(TPH as Gasoline and BTEX Compounds)**

ARCO Service Station #0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Date Sampled	TPH-g (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



**Table 2**  
**Treatment System Analytical Data**  
**Total Petroleum Hydrocarbons**  
**(TPH as Gasoline and BTEX Compounds)**

ARCO Service Station #0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Date Sampled	TPH-g (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

**Table 2**  
**Treatment System Analytical Data**  
**Total Petroleum Hydrocarbons**  
**(TPH as Gasoline and BTEX Compounds)**

ARCO Service Station #0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Date Sampled	TPH-g (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>EFFLU (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
01/16/91	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
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

**Table 2**  
**Treatment System Analytical Data**  
**Total Petroleum Hydrocarbons**  
**(TPH as Gasoline and BTEX Compounds)**

ARCO Service Station #0608  
17601 Hesperian Boulevard at Hacienda Avenue  
San Lorenzo, California

Date Sampled	TPH-g (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>										
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
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)**	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

TPH-g as gasoline, analyzed using EPA Method 8015B/8021B  
MtBE analyzed using EPA Method 8015B/8021B  
COD nd, analyzed using EPA Method 410.4  
TSS s, analyzed using EPA Method 160.2  
DOxygen, field measurement  
µg/Lrograms per liter  
mg/Lmilligrams per liter  
ND<ve the laboratory reporting limit.  
NAlicable or not available  
NS=Not sampled  
\*with EPA Method 8260  
\*\*IB and 8260B (Results of EPA Method 8260 shown in parenthesis).

Note: 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.

**ATTACHMENT A**

**CERTIFIED ANALYTICAL REPORT  
AND CHAIN-OF-CUSTODY DOCUMENTATION  
JANUARY 22, 2004**

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

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

Oakland, CA 94607-4014

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

Project: Consultant Project No: 38486314.0L041  
BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
INFL	01/22/2004 09:15	Water	1
MID-1	01/22/2004 09:10	Water	2
MID-2	01/22/2004 09:05	Water	3
EFFL	01/22/2004 09:00	Water	4

Severn Trent Laboratories, Inc.

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

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01/30/2004 16:25

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

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Oakland, CA 94607-4014

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

Project: Consultant Project No: 38486314.0L041  
BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: INFL	Lab ID: 2004-01-0722 - 1
Sampled: 01/22/2004 09:15	Extracted: 1/30/2004 12:36
Matrix: Water	QC Batch#: 2004/01/30-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/30/2004 12:36	
Benzene	ND	0.50	ug/L	1.00	01/30/2004 12:36	
Toluene	ND	0.50	ug/L	1.00	01/30/2004 12:36	
Ethylbenzene	ND	0.50	ug/L	1.00	01/30/2004 12:36	
Total xylenes	ND	1.0	ug/L	1.00	01/30/2004 12:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	01/30/2004 12:36	
Methyl tert-butyl ether (MTBE)	27	0.50	ug/L	1.00	01/30/2004 12:36	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	01/30/2004 12:36	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	01/30/2004 12:36	
tert-Amyl methyl ether (TAME)	1.6	0.50	ug/L	1.00	01/30/2004 12:36	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	85.8	76-114	%	1.00	01/30/2004 12:36	
Toluene-d8	89.8	88-110	%	1.00	01/30/2004 12:36	

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URS-Oakland, CA

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500 12th Street, Suite 200

Oakland, CA 94607-4014

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

Project: Consultant Project No: 38486314.0L041  
BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: MID-1	Lab ID: 2004-01-0722 - 2
Sampled: 01/22/2004 09:10	Extracted: 1/30/2004 10:45
Matrix: Water	QC Batch#: 2004/01/30-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/30/2004 10:45	
Benzene	ND	0.50	ug/L	1.00	01/30/2004 10:45	
Toluene	ND	0.50	ug/L	1.00	01/30/2004 10:45	
Ethylbenzene	ND	0.50	ug/L	1.00	01/30/2004 10:45	
Total xylenes	ND	1.0	ug/L	1.00	01/30/2004 10:45	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	01/30/2004 10:45	
Methyl tert-butyl ether (MTBE)	1.3	0.50	ug/L	1.00	01/30/2004 10:45	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	01/30/2004 10:45	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	01/30/2004 10:45	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	01/30/2004 10:45	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	82.6	76-114	%	1.00	01/30/2004 10:45	
Toluene-d8	91.9	88-110	%	1.00	01/30/2004 10:45	

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

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

Oakland, CA 94607-4014

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

Project: Consultant Project No: 38486314.0L041

BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Prep(s): 5030B

Test(s): 8260B

Sample ID: MID-2

Lab ID: 2004-01-0722 - 3

Sampled: 01/22/2004 09:05

Extracted: 1/30/2004 11:07

Matrix: Water

QC Batch#: 2004/01/30-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/30/2004 11:07	
Benzene	ND	0.50	ug/L	1.00	01/30/2004 11:07	
Toluene	ND	0.50	ug/L	1.00	01/30/2004 11:07	
Ethylbenzene	ND	0.50	ug/L	1.00	01/30/2004 11:07	
Total xylenes	ND	1.0	ug/L	1.00	01/30/2004 11:07	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	01/30/2004 11:07	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/30/2004 11:07	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	01/30/2004 11:07	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	01/30/2004 11:07	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	01/30/2004 11:07	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	84.5	76-114	%	1.00	01/30/2004 11:07	
Toluene-d8	88.9	88-110	%	1.00	01/30/2004 11:07	

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

URS-Oakland, CA  
Attn.: Scott Robinson

500 12th Street, Suite 200  
Oakland, CA 94607-4014  
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486314.0L041  
BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: EFFL	Lab ID: 2004-01-0722 - 4
Sampled: 01/22/2004 09:00	Extracted: 1/30/2004 13:27
Matrix: Water	QC Batch#: 2004/01/30-1C.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/30/2004 13:27	
Benzene	ND	0.50	ug/L	1.00	01/30/2004 13:27	
Toluene	ND	0.50	ug/L	1.00	01/30/2004 13:27	
Ethylbenzene	ND	0.50	ug/L	1.00	01/30/2004 13:27	
Total xylenes	ND	1.0	ug/L	1.00	01/30/2004 13:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	01/30/2004 13:27	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/30/2004 13:27	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	01/30/2004 13:27	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	01/30/2004 13:27	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	01/30/2004 13:27	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.6	76-114	%	1.00	01/30/2004 13:27	
Toluene-d8	105.9	88-110	%	1.00	01/30/2004 13:27	

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

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Project: Consultant Project No: 38486314.0L041  
BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/01/30-1C.64-028

Water

Test(s): 8260B

QC Batch # 2004/01/30-1C.64

Date Extracted: 01/30/2004 09:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/30/2004 09:28	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	01/30/2004 09:28	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/30/2004 09:28	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	01/30/2004 09:28	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	01/30/2004 09:28	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	01/30/2004 09:28	
Benzene	ND	0.5	ug/L	01/30/2004 09:28	
Toluene	ND	0.5	ug/L	01/30/2004 09:28	
Ethylbenzene	ND	0.5	ug/L	01/30/2004 09:28	
Total xylenes	ND	1.0	ug/L	01/30/2004 09:28	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	85.2	76-114	%	01/30/2004 09:28	
Toluene-d8	89.6	88-110	%	01/30/2004 09:28	

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

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

Oakland, CA 94607-4014

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

Project: Consultant Project No: 38486314.0L041

BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2004/01/30-1C.65
MB: 2004/01/30-1C.65-029		Date Extracted: 01/30/2004 09:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/30/2004 09:29	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	01/30/2004 09:29	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/30/2004 09:29	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	01/30/2004 09:29	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	01/30/2004 09:29	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	01/30/2004 09:29	
Benzene	ND	0.5	ug/L	01/30/2004 09:29	
Toluene	ND	0.5	ug/L	01/30/2004 09:29	
Ethylbenzene	ND	0.5	ug/L	01/30/2004 09:29	
Total xylenes	ND	1.0	ug/L	01/30/2004 09:29	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	97.8	76-114	%	01/30/2004 09:29	
Toluene-d8	104.2	88-110	%	01/30/2004 09:29	

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

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

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

Project: Consultant Project No: 38486314.0L041  
BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/01/30-1C.64

LCS 2004/01/30-1C.64-035

Extracted: 01/30/2004

Analyzed: 01/30/2004 08:35

LCSD 2004/01/30-1C.64-057

Extracted: 01/30/2004

Analyzed: 01/30/2004 08:57

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.7	23.9	25	98.8	95.6	3.3	65-165	20		
Benzene	24.9	25.9	25	99.6	103.6	3.9	69-129	20		
Toluene	25.8	26.7	25	103.2	106.8	3.4	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	419	427	500	83.8	85.4		76-114			
Toluene-d8	442	452	500	88.4	90.4		88-110			

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

Project: Consultant Project No: 38486314.0L041  
BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/01/30-1C.65

LCS 2004/01/30-1C.65-001

Extracted: 01/30/2004

Analyzed: 01/30/2004 08:01

LCSD 2004/01/30-1C.65-026

Extracted: 01/30/2004

Analyzed: 01/30/2004 08:26

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	32.0	28.6	25	128.0	114.4	11.2	65-165	20		
Benzene	25.6	24.2	25	102.4	96.8	5.6	69-129	20		
Toluene	27.8	25.7	25	111.2	102.8	7.9	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	550	510	500	110.0	102.0		76-114			
Toluene-d8	548	492	500	109.6	98.4		88-110			

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

Project: Consultant Project No: 38486314.0L041  
BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
<b>Matrix Spike (MS / MSD)</b>	<b>Water</b>	<b>QC Batch # 2004/01/30-1C.64</b>	
EFFL >> MS		Lab ID:	2004-01-0722 - 004
MS: 2004/01/30-1C.64-052	Extracted: 01/30/2004	Analyzed:	01/30/2004 11:52
		Dilution:	1.00
MSD: 2004/01/30-1C.64-014	Extracted: 01/30/2004	Analyzed:	01/30/2004 12:14
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	23.8	22.7	ND	25	95.2	90.8	4.7	65-165	20		
Benzene	26.0	23.2	ND	25	104.0	92.8	11.4	69-129	20		
Toluene	25.8	23.5	ND	25	103.2	94.0	9.3	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	404	430		500	80.8	86.0		76-114			
Toluene-d8	448	432		500	89.6	86.4		88-110			s

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

01/30/2004 16:25



**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

Oakland, CA 94607-4014

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

Project: Consultant Project No: 38486314.0L041  
BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
EFFL	01/22/2004 09:00	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

01/30/2004 09:19



**Total Suspended Solids (TSS)**

URS-Oakland, CA  
Attn.: Scott Robinson

500 12th Street, Suite 200  
Oakland, CA 94607-4014  
Phone: (510) 893-3600 Fax: (510) 874-3288

Project: Consultant Project No: 38486314.0L041  
BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Prep(s): 160.2	Test(s): 160.2
Sample ID: EFFL	Lab ID: 2004-01-0722 - 4
Sampled: 01/22/2004 09:00	Extracted: 1/28/2004 00:00
Matrix: Water	QC Batch#: 2004/01/28-01.29

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
TSS	ND	10	mg/L	1.00	01/29/2004 08:35	

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

Oakland, CA 94607-4014

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

Project: Consultant Project No: 38486314.0L041

BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

**Batch QC Report**

Prep(s): 160.2

Method Blank

MB: 2004/01/28-01.29-001

Water

Test(s): 160.2

QC Batch # 2004/01/28-01.29

Date Extracted: 01/28/2004

Compound	Conc.	RL	Unit	Analyzed	Flag
TSS	ND	10	mg/L	01/30/2004	

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

01/30/2004 09:19

**Total Suspended Solids (TSS)**

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

Oakland, CA 94607-4014

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

Project: Consultant Project No: 38486314.0L041  
BP Facility No:608

Received: 01/27/2004 18:25

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Batch QC Report										
Prep(s): 160.2						Test(s): 160.2				
Laboratory Control Spike				Water			QC Batch # 2004/01/28-01.29			
LCS	2004/01/28-01.29-002			Extracted: 01/28/2004			Analyzed: 01/29/2004			
LCSD	2004/01/28-01.29-003			Extracted: 01/28/2004			Analyzed: 01/29/2004			
Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
TSS	1000	1010	1000	100.0	101.0	1.0	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

01/30/2004 09:19



30 January, 2004

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

RE: BP  
Work Order: P401443

Enclosed are the results of analyses for samples received by the laboratory on 01/29/04 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

*Angelee Cari*

Angelee Cari  
Project Manager

CA ELAP Certificate #2374

Severn Trent Laboratories, San Francisco  
1220 Quarry Lane  
Pleasanton CA, 94566Project: BP  
Project Number: 2004-01-0722-1  
Project Manager: Afseneh SalimpourP401443  
**Reported:**  
01/30/04 17:01**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFFL	P401443-01	Water	01/22/04 09:00	01/29/04 10:00



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

Project: BP  
Project Number: 2004-01-0722-1  
Project Manager: Afseneh Salimpour

P401443  
Reported:  
01/30/04 17:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>EFFL (P401443-01) Water    Sampled: 01/22/04 09:00    Received: 01/29/04 10:00</b>									
Chemical Oxygen Demand	ND	20000	ug/l	1	4010589	01/30/04	01/30/04	EPA 410.4	

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

 Project: BP  
 Project Number: 2004-01-0722-1  
 Project Manager: Afseneh Salimpour

 P401443  
 Reported:  
 01/30/04 17:01

**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 4010589 - General Preparation</b>										
<b>Blank (4010589-BLK1)</b>										
Prepared & Analyzed: 01/30/04										
Chemical Oxygen Demand	ND	20000	ug/l							
<b>Laboratory Control Sample (4010589-BS1)</b>										
Prepared & Analyzed: 01/30/04										
Chemical Oxygen Demand	242000	20000	ug/l	250000		97	80-120			
<b>Matrix Spike (4010589-MS1)</b>										
Source: P401443-01										
Prepared & Analyzed: 01/30/04										
Chemical Oxygen Demand	523000	20000	ug/l	500000	ND	105	75-125			
<b>Matrix Spike (4010589-MS2)</b>										
Source: P401333-13										
Prepared & Analyzed: 01/30/04										
Chemical Oxygen Demand	561000	20000	ug/l	500000	65000	99	75-125			
<b>Matrix Spike Dup (4010589-MSD1)</b>										
Source: P401443-01										
Prepared & Analyzed: 01/30/04										
Chemical Oxygen Demand	497000	20000	ug/l	500000	ND	99	75-125	5	20	
<b>Matrix Spike Dup (4010589-MSD2)</b>										
Source: P401333-13										
Prepared & Analyzed: 01/30/04										
Chemical Oxygen Demand	523000	20000	ug/l	500000	65000	92	75-125	7	20	



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

Project: BP  
Project Number: 2004-01-0722-1  
Project Manager: Afseneh Salimpour

P401443  
**Reported:**  
01/30/04 17:01

### Notes and Definitions

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





STL

Chain of Custody *P401443*

Date Shipped: 1/28/2004  
2004-01-0722 - 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 #: 2004-01-0722  
CL PO #:

Project #: Consultant Project No: *38486314*  
Project Name: BP Facility No: 608 *02041*

Client Sample ID	CL#	Sampled	Matrix	TAT
Analysis			Method	
EFFL Subcontract - COD	<i>101</i> 4	1/22/2004 9:00:00AM	Water 410.4	<i>5</i> Day

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

*Results by 1/30/04*

*BP project*  
*Site ID: 18501 Hesperian Blvd.*  
*San Lorenzo, CA*

**RUSH**

COOLER CUSTODY SEALS INTACT   
NOT INTACT   
COOLER TEMPERATURE 3.0 °c

RELINQUISHED BY: *[Signature]* 1. Time *1:00*  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
Printed Name *Scott Hoid* Date *1-28-04*  
Company *STL-SF*

RELINQUISHED BY: 2.  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
Company \_\_\_\_\_

RELINQUISHED BY: 3.  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
Company \_\_\_\_\_

RECEIVED BY: 1. Signature *[Signature]* Time *1:29*  
Printed Name *Arifredo Hernandez* Date *10/05*  
Company *SEQUOIA*

RECEIVED BY: 2.  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
Company \_\_\_\_\_

RECEIVED BY: 3.  
Signature \_\_\_\_\_ Time \_\_\_\_\_  
Printed Name \_\_\_\_\_ Date \_\_\_\_\_  
Company \_\_\_\_\_

### SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: STL  
 REC. BY (PRINT) KCD  
 WORKORDER: P401443

DATE Received at Lab: 1-29-04  
 TIME Received at Lab: KCD  
 LOG IN DATE: 1/29/04

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s) Present / Absent Intact / Broken*			<u>EFFL</u>	<u>3XDV H2SO4</u>	<u>W</u>	<u>1-22</u>	
2. Chain-of-Custody Present / Absent*							
3. Traffic Reports or Packing List: Present / Absent							
4. Airbill: <u>Airbill / Sticker</u> Present / Absent							
5. Airbill #: <u>8431 5585 4462</u>							
6. Sample Labels: Present / Absent							
7. Sample IDs: <u>Listed</u> / Not Listed on Chain-of-Custody							
8. Sample Condition: <u>Intact</u> / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree? <u>Yes</u> / No*							
10. Sample received within hold time: <u>Yes</u> / No*							
11. Proper Preservatives used: <u>Yes</u> / No*							
12. Temp Rec. at Lab: <u>3.0</u> (Acceptance range for samples requiring thermal pres.: 1/-2°C) <u>Yes</u> / No*							

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

**ATTACHMENT B**

**OPERATION AND MAINTENANCE FIELD LOGS**

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

Date: 1/8/04

System Description:

Well: E-1A	Type: Electric	Groundwater Pumps Size: 3"	Control panel	Set Depth (TOB): 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)	36257 <i>kw hr</i>	HOUR METER READING (hrs)	9356.3 <u>1055</u>
---------------------------------	-----------------------	--------------------------	-----------------------

MEASUREMENT	ON ARRIVAL		ON DEPARTURE
	Value	Time	Value
TOTALIZER (gallons)	3312470		3312485
FILTER INLET PRESSURE (psig)	12.0		(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	10.5		(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	9.2	4.0	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	0		(ideal range: 0 to 2 psig)

PART B: COMMENTS

Air builds up within system from continual operation. Air bubbles must be present in influent water. Bleed out air to reduce pressure on carbon vessels.  
 System Average 2,282 g

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

Date: 1/22/04

System Description:

8:30 - 11:00

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? Opening (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	36456	HOUR METER READING (hrs)	9690.0
		Time:	0830

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	3344902	3344994
FILTER INLET PRESSURE (psig)	13.0	(ideal range: 8 to 12 psig) 12.0
CARBON #1 INLET PRESSURE (psig)	10.6	(ideal range: 5 to 9 psig) 11.1
CARBON #2 INLET PRESSURE (psig)	9.5 / 5.0	(ideal range: 1 to 4 psig) 8.8 / 4.5
DISCHARGE PRESSURE (psig)	0	(ideal range: 0 to 2 psig) 0

**PART B: COMMENTS** Inspected primary carbon.  
No silt or sediment deposits found. No unusual  
hardening of carbon present. A lot of air  
build-up in carbon vessels occurring. Will  
install air bleed valves and inspect pump next trip.  
Current Down Flow pump unable to determine at  
this time due to control switch for shut-off range  
outside the specs of the new pump.

*OLD  
dry run  
protection  
by watching  
current*

*Now-Smart Pump*

KI 1/26/04

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

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

WELL	DTW (JOB)	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	1/22
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	1/22
MID-1	TPH-gasoline, BTEX compounds, MtBE	1/22
MID-2	TPH-gasoline, BTEX compounds, MtBE	1/22

**PART E: READINGS (Monthly)**

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
	16.5°C	990 µS	7.12	0.85

**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		

KS 1/26/04

NR 1/20/04



### Chain of Custody Record

Project Name Station 608 - 18501 Hesperian Blvd, San Lorenzo, CA  
 Business Unit Atlantic Richfield Company/Northern CA Portfolio  
 BP Laboratory Contract Number: 4 6 1 0 0 0

Date: 1/22/04

Requested Due Date: 1/30/04

8 days from sampling date

On-site Time: <u>0830</u>	Temp: <u>55</u>
Off-site Time: <u>1100</u>	Temp: <u>60</u>
Sky Conditions: <u>Clear, Sunny</u>	
Meteorological Events: <u>None</u>	
Wind Speed: <u>N/A</u>	Direction: <u>N/A</u>

Send To:	BP/GEM Facility No.: Station 608	Consultant: URS Oakland
Lab Name: STL-SF (Pleasanton)	BP/GEM Facility Address: 18501 Hesperian Blvd, San Lorenzo, CA	Address: 500 12th Street, #200
Lab Address: 1220 Quarry Lane Pleasanton, CA 94566	Site ID No. Station 608	Oakland, CA 94607
	California Global ID #: T0600101665	e-mail EDD: No EDF
	BP/GEM PM Contact: Paul Supple	Consultant Project No.: 38486314.0L041
Lab PM: Atsoneh Salimpour	Address: P.O. Box 6549, Moraga, CA 94570	Consultant Tele-Fax: 510-874-3280/510-874-3268
Tele-Fax: 925-484-1919/925-484-1096	Tele-Fax: 925-299-8891/925-299-8872	Consultant PM: Scott Robinson
Report Type & QC Level: Level I		Invoice to: Atlantic Richfield Company
BP-GEM Account No.:		BP-GEM Work Release No.:

Item No.	Field Point ID	Sample ID	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments
				Soils/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	TPH-g (8260)	BTEX (8260)	MTBE (8260)	COD	TSS	Fuel (gyl. (8260))	
1	INFL	INFL	0915	X				3				X	X	X			X			
2	MID-1	MID-1	0910	X				3				X	X	X			X			
3	MID-2	MID-2	0905	X				3				X	X	X			X			
4	EFFL	EFFL	0900	X				5	X	X		X	X	X	X	X	X			
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>George Bradshaw</u>	Relinquished By: <u>[Signature]</u>	Date: <u>1/26/04</u>	Time: <u>1510</u>	Accepted By: <u>[Signature]</u>	Affiliation: <u>URS-SX</u>	Date: <u>1-22-04</u>	Time: <u>1510</u>
Sampler's Company: URS Oakland							
Shipment Date:							
Shipment Method: Hand Deliver							
Shipment Tracking No.:							

Special Instructions: COD = Chemical Oxygen Demand (3 VOS's w/ H2SO4), TSS = Total Suspended Solids (1 Liter poly unpreserved)

Custody Seals In Place Yes  No  Temperature Blank Yes  No  Cooler Temperature on Receipt      °F/C Trip Blank Yes  No