

April 18, 2003

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

Alameda County
APR 23 2003
Environmental Health

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

Dear Mr. Carson:

On behalf of Atlantic Richfield Company (ARCO – an affiliated company of the Group Environmental Management 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 February 13, 2003 to March 27, 2003. (Tables 1 and 2). Operational parameters are summarized in the table shown below.

<i>Treatment System Status:</i>	<i>Operational</i>
<i>Reporting Period:</i>	02/13/03 to 03/27/03
<i>Period Volume Discharged:</i>	97,958 gallons
<i>Period Average Effluent pH Reading:</i>	7.5
<i>Average Flow Rates:</i>	02/13/03 – 03/13/03 1.63 gpm 03/13/03 – 03/27/03 1.58 gpm
<i>Analytical Reports</i>	Attachment A

The operation and maintenance field logs are presented as Attachment B.

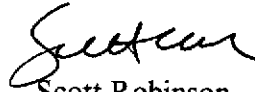
If you have any questions regarding this project or require further information, please do not hesitate to call me at 510-874-3280.

Sincerely,

URS CORPORATION



Josh Rice
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, March 27, 2003
Attachment B - Operation and Maintenance Field Logs

cc: Mr. Paul Supple, ARCO, P.O. Box 6549, Moraga, CA 94549
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
Mr. Amir K. Gholami, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Alameda, California 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)	Volume Reading (gallons)	Net Volume (gallons)	Cumulative Volume Removed† (gallons)	Average Flow Rate (gpm)	
06/05/00	a 29,593		979,800	3,200	3,200	2.1	
06/19/00	29,896		1,052,390	72,590	75,790	4.0	
06/28/00	30,062		1,082,340	29,950	105,740	3.0	
07/08/00	30,352		1,131,560	49,220	154,960	2.8	
07/26/00	30,749		1,196,420	64,860	219,820	2.7	
08/07/00	30,955		1,228,020	31,600	251,420	2.6	
08/29/00	31,309		1,276,650	48,630	300,050	2.3	
09/08/00	31,528		1,306,300	29,650	329,700	2.3	
09/28/00	32,011		1,368,410	62,110	391,810	2.1	
10/28/00	32,638		1,444,183	75,773	467,583	2.0	
11/30/00	33,399		1,534,960	90,777	558,360	2.0	
12/28/00	33,761		1,576,520	41,560	599,920	1.9	
01/04/01	33,924		1,595,340	18,820	618,740	1.9	
02/06/01	34,556		1,672,330	76,990	695,730	2.0	
03/08/01	34,776		1,698,860	26,530	722,260	2.0	
03/24/01	35,088		1,741,170	42,310	764,570	2.3	
04/05/01	35,310		1,767,530	26,360	790,930	2.0	
04/18/01	35,335		1,770,860	3,330	794,260	2.3	
05/04/01	35,716		1,812,690	41,830	836,090	1.8	
06/09/01	36,345		1,879,710	67,020	903,110	1.8	
07/05/01	b 36,469		1,897,180	17,470	920,580	2.3	
07/28/01	36,821		1,928,250	31,070	951,650	1.5	
08/14/01	c 36,822		1,928,510	260	951,910	5.4	
09/05/01	37,219		1,977,050	48,540	1,000,450	2.0	
10/05/01	37,932		2,040,950	63,900	1,064,350	1.5	
11/13/01	38,820		2,119,670	78,720	1,143,070	1.5	
12/11/01	39,496		2,186,530	66,860	1,209,930	1.6	
01/04/02	40,063		2,248,700	62,170	1,272,100	1.8	
01/31/02	40,716		2,321,310	72,610	1,344,710	1.9	
02/05/02	40,830		2,333,090	11,780	1,356,490	1.7	
02/25/02	40,831		2,333,270	180	1,356,670	1.7	
03/05/02	40,968		2,353,460	20,190	1,376,860	2.5	
04/08/02	41,735		2,448,360	94,900	1,471,760	2.1	
05/04/02	42,362		2,487,090	38,730	1,510,490	1.0	
05/31/02	42,832	d	2,503,380	16,290	1,526,780	0.6	
08/19/02	44,925		2,520,289	16,909	1,543,689	0.1	
10/03/02	44,956	e	2,520,582	293	1,543,982	N/A	
10/07/02	44,956	e	2,522,394	1,812	1,545,794	N/A	
10/24/02	44,956	e	2,527,898	5,504	1,551,298	N/A	
11/07/02	0	f	44,956	2,527,925	27	1,551,325	N/A
11/21/02	336		45,292	2,527,945	20	1,551,345	0.00
12/05/02	479	g	45,435	2,528,113	168	1,551,513	0.02

**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)	Volume Reading (gallons)	Net Volume (gallons)	Cumulative Volume Removed† (gallons)	Average Flow Rate (gpm)
12/18/02	788	g	45,744	2,555,895	27,782	1,579,295	1.50
01/03/02	1,174	g	46,130	2,591,359	35,464	1,614,759	1.53
01/16/03	1,486	g	46,442	2,625,812	34,453	1,649,212	1.84
02/13/03	2,156	g	47,112	2,692,710	66,898	1,716,110	1.67
03/13/03	2,832		47,788	2,758,948	66,238	1,782,348	1.63
03/27/03	3,165		48,121	2,790,668	31,720	1,814,068	1.58
REPORTING PERIOD:						02/13/03 to 03/27/03	
PERIOD AVERAGE FLOW RATE (gpm):						1.62	
PERIOD VOLUME DISCHARGED:						97,958	

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.

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)
INFL (influent to primary carbon)									
09/26/91	38	4.8	0.6	1.6	1.1	NS	NS	NS	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
11/22/91	ND<30	0.5	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
02/19/92	370	14	0.34	14	2.4	NS	NS	NS	NA
03/17/92	160	18	0.32	0.56	1.6	NS	NS	NS	NA
04/15/92	200	11	ND<0.3	7.3	0.77	NS	NS	NS	NA
05/14/92	45	1.4	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
07/14/92	97	25	ND<0.5	8.5	ND<0.5	NS	NS	NS	NA
08/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
09/15/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/16/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/17/92	96	7.7	13	0.56	9.7	NS	NS	NS	NA
01/18/93	100	13	6.6	1.1	11	NS	NS	NS	NA
02/22/93	480	36	29	4.9	96	NS	NS	NS	NA
03/15/93	310	29	14	4.9	55	NS	NS	NS	NA
04/09/93	140	11	2.8	2.6	17	NS	NS	NS	NA
05/13/93	530	27	12	18	96	NS	NS	NS	NA
06/04/93	170	5.2	1.6	2.5	23	NS	NS	NS	NA
07/20/93	200	12	0.91	8.2	29	NS	NS	NS	NA
08/16/93	150	4.9	0.63	2.9	15	NS	NS	NS	NA
09/13/93	80	2.2	ND<0.5	ND<0.5	4.8	NS	NS	NS	NA
10/08/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/19/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/21/93	73	3.5	ND<0.5	1.9	8.4	NS	NS	NS	NA
01/18/94	60	3.1	ND<0.5	3.2	4.3	NS	NS	NS	NA
02/17/94	ND<50	2.5	ND<0.5	2.1	3.1	NS	NS	NS	NA
03/15/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
04/21/94	110	7.8	ND<1.0	9.6	ND<1.0	NS	NS	NS	NA
05/13/94	230	8.3	ND<0.5	14	6.0	NS	NS	NS	NA
06/14/94	230	12	ND<0.5	16	1.5	NS	NS	NS	NA
07/14/94	270	6.9	ND<0.5	15	1.9	NS	NS	NS	NA
08/18/94	ND<50	1.8	ND<0.5	1.5	ND<0.5	NS	NS	NS	NA
09/12/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/05/94	ND<50	0.66	ND<0.5	2.6	ND<0.5	NS	NS	NS	NA
12/05/94	470	32	0.59	29	6.2	NS	NS	NS	NA
01/04/95	ND<50	1.1	ND<0.50	1.4	ND<0.50	NS	NS	NS	NA
02/06/95	100	2.4	1.1	1.2	2.8	NS	NS	NS	NA
03/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
04/04/95	290	6.6	ND<0.50	10	1.7	NS	NS	NS	NA
05/02/95	240	7.1	ND<0.50	3.2	1.6	NS	NS	NS	NA
06/05/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
07/06/95	270	2.4	ND<0.50	7.6	1.0	NS	NS	NS	NA
08/21/95	230	1.8	ND<0.50	1.6	0.9	NS	NS	NS	NA
06/05/00	700	7.24	ND<1.00	2.11	ND<1.00	361	NS	NS	NA
07/08/00	133	5.09	0.598	ND<0.500	ND<0.500	272	NS	NS	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)
INFL (influent to primary carbon) (cont.)									
08/10/00	144	2.80	ND<0.500	1.04	ND<0.500	126	NS	NS	NA
09/08/00	261	2.74	0.826	0.626	ND<0.500	120	NS	NS	NA
10/10/00	114	ND<0.500	1.68	0.843	ND<0.500	ND<2.50	NS	NS	NA
11/07/00	128	ND<0.500	ND<0.500	ND<0.500	ND<0.500	98.6	NS	NS	NA
12/05/00	167	0.775	ND<0.500	ND<0.500	ND<0.500	104	NS	NS	NA
01/04/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	86.8	NS	NS	NA
02/06/01	203	0.572	ND<0.500	0.513	ND<0.500	80.5	NS	NS	NA
03/08/01	219	ND<0.500	6.16	1.21	0.682	81.0	NS	NS	NA
04/18/01	74.5	ND<0.500	ND<0.500	ND<0.500	ND<0.500	97.5	NS	NS	NA
05/04/01	63.3	ND<0.500	ND<0.500	ND<0.500	ND<0.500	93.2	NS	NS	NA
06/09/01	64	ND<0.50	ND<0.50	ND<0.50	ND<0.50	71	NS	NS	NA
07/05/01	100	ND<0.50	2.5	ND<0.50	ND<0.50	430	NS	NS	NA
08/14/01	290	2.2	3.5	ND<1.0	ND<1.0	870	NS	NS	NA
09/05/01	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<1.0	340	NS	NS	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	150	NS	NS	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	92	NS	NS	NA
12/11/01	65	ND<0.50	0.58	ND<0.50	ND<0.50	83	NS	NS	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	NS	NS	NA
02/05/02	100	ND<0.50	ND<0.50	ND<0.50	ND<0.50	190	NS	NS	NA
03/05/02	150	ND<1.2	ND<1.2	ND<1.2	ND<1.2	350	NS	NS	NA
04/08/02	400	9.6	ND<1.0	1.4	ND<1.0	260	NS	NS	NA
05/16/02	310	ND<1.0	ND<1.0	ND<1.0	ND<1.0	330	NS	NS	NA
10/07/02	160	4.1	ND<1.0	ND<1.0	ND<1.0	130	NS	NS	NA
11/07/02	250	ND<0.50	10	0.70	0.77	210	NS	NS	NA
12/05/02	220	ND<1.0	ND<1.0	ND<1.0	ND<1.0	110	NS	NS	NA
01/03/03	170	ND<1.0	ND<1.0	ND<1.0	ND<1.0	140	NS	NS	NA
02/13/03	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	66	NS	NS	NA
03/27/03	110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	71	NS	NS	NA

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Total Petroleum Hydrocarbons
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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)
MID-1 (between primary and secondary carbons)									
09/26/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
02/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
03/17/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
04/15/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
05/14/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
07/14/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
08/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/15/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/16/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/17/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/18/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
02/22/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/15/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
04/09/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
05/13/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
06/04/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/14/94	ND	ND	ND	ND	ND	NS	NS	NS	NA
08/17/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/12/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/18/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/04/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
02/06/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/02/95	NS	NS	NS	NS	NS	NS	NS	NS	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
07/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
09/08/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
10/10/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
12/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.3	NS	NS	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.7	NS	NS	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.0	NS	NS	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	26	NS	NS	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)
MID-1 (cont.)									
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	NS	NS	NA
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	39	NS	NS	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	58	NS	NS	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	55	NS	NS	NA
11/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	100	NS	NS	NA
12/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	51	NS	NS	NA
01/03/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	66	NS	NS	NA
02/13/03	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	130	NS	NS	NA
03/27/03	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	120	NS	NS	NA
MID-2 (between secondary and tertiary carbons)									
06/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	NA
07/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/10/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/07/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/05/00	NS	NS	NS	NS	NS	NS	NS	NS	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
02/06/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
04/18/01	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	NS	NS	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
06/09/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
07/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
08/14/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
09/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
10/05/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
11/13/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
12/11/01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
01/04/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
02/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
03/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
04/08/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.7	NS	NS	NA
05/16/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
11/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
12/05/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
01/03/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	NA
02/13/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0	NS	NS	NA
03/27/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.94	NS	NS	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)
EFFL (effluent to sewer)									
09/26/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
10/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
11/22/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
12/19/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
01/16/91	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
02/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
03/17/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
04/15/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
05/14/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
06/19/92	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NS	NS	NS	NA
07/14/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
08/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
09/15/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/16/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/17/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
01/18/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
02/22/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
03/15/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
04/09/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
05/13/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
06/04/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
07/20/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
08/16/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
09/13/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/08/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/19/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/21/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
01/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
02/17/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
03/15/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
04/21/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
05/13/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
06/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
07/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
08/17/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
09/12/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
10/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
11/05/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
12/05/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS	NA
01/04/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
02/06/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
03/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
04/04/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
05/02/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
06/05/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
07/06/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NA
08/21/95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	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
06/12/00	ND<50.0	NS	NS	NS	NS	NS	NS	NS	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

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)
EFFL (effluent to sewer) (cont.)									
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
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
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
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
12/05/00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	44.0	ND<10.0	7.48
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
10/07/02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NS	NS	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
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
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
02/13/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<30	ND<10	7.15
03/27/03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	32	ND<10	7.5

- TPH =Total purgeable petroleum hydrocarbons
- MtBE =Methyl tert Butyl Ether
- COD =Chemical oxygen demand
- TSS =Total suspended solids
- µg/L =Micrograms per liter
- mg/L =Miligrams per liter
- ND< =Denotes minimum laboratory detection limit.
- NA =Not applicable or not available
- NS =Not sampled
- ND =Not detected

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. Beginning 02/13/03 all constituents are analyzed with EPA Method 8260B.

ATTACHMENT A

**CERTIFIED ANALYTICAL REPORT
AND CHAIN-OF-CUSTODY DOCUMENTATION
MARCH 27, 2003**



**Sequoia
Analytical**

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

11 April, 2003

Scott Robinson
URS Corporation
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #608, San Lorenzo, Ca
Sequoia Work Order: MMC0891

Enclosed are the results of analyses for samples received by the laboratory on 03/27/03 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate #1210



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #608, San Lorenzo, Ca
Project Number: Intrim- 50715
Project Manager: Scott Robinson

MMC0891
Reported:
04/11/03 12:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INFL	MMC0891-01	Water	03/27/03 12:30	03/27/03 15:40
MID-1	MMC0891-02	Water	03/27/03 12:25	03/27/03 15:40
MID-2	MMC0891-03	Water	03/27/03 12:20	03/27/03 15:40
EFFL	MMC0891-04	Water	03/27/03 12:15	03/27/03 15:40

There were no custody seals that were received with this project.



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URS Corporation
 500 12th Street, Suite 100
 Oakland CA, 94607

Project: ARCO #608, San Lorenzo, Ca
 Project Number: Intrm- 50715
 Project Manager: Scott Robinson

MMC0891
 Reported:
 04/11/03 12:56

Total Purgeable Hydrocarbons (C6-C10) and Volatile Organic Compounds by EPA method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INFL (MMC0891-01) Water Sampled: 03/27/03 12:30 Received: 03/27/03 15:40									
Methyl tert-butyl ether	71	0.50	ug/l	1	3D08047	04/08/03	04/08/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Gasoline Range Organics (C6-C10)	110	50	"	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		98.0 %	78-129		"	"	"	"	"
MID-1 (MMC0891-02) Water Sampled: 03/27/03 12:25 Received: 03/27/03 15:40									
Methyl tert-butyl ether	120	2.5	ug/l	5	3D08047	04/08/03	04/08/03	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	"
Toluene	ND	2.5	"	"	"	"	"	"	"
Ethylbenzene	ND	2.5	"	"	"	"	"	"	"
Xylenes (total)	ND	2.5	"	"	"	"	"	"	"
Gasoline Range Organics (C6-C10)	ND	250	"	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		96.0 %	78-129		"	"	"	"	"
MID-2 (MMC0891-03) Water Sampled: 03/27/03 12:20 Received: 03/27/03 15:40									
Methyl tert-butyl ether	0.94	0.50	ug/l	1	3D08047	04/08/03	04/09/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		97.4 %	78-129		"	"	"	"	"

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #608, San Lorenzo, Ca
Project Number: Intrm- 50715
Project Manager: Scott Robinson

MMC0891
Reported:
04/11/03 12:56

**Total Purgeable Hydrocarbons (C6-C10) and Volatile Organic Compounds by EPA method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MMC0891-04) Water Sampled: 03/27/03 12:15 Received: 03/27/03 15:40									
Methyl tert-butyl ether	ND	0.50	ug/l	1	3D08047	04/08/03	04/09/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %		78-129	"	"	"	"	



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MMC0891
Reported:
04/11/03 12:56

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MMC0891-04) Water Sampled: 03/27/03 12:15 Received: 03/27/03 15:40									
Chemical Oxygen Demand	32	30	mg/l	1	3D01041	04/01/03	04/01/03	EPA 410.4	
Total Suspended Solids	ND	10	"	"	3D04021	03/27/03	03/28/03	EPA 160.2	



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MMC0891
Reported:
04/11/03 12:56

I Purgeable Hydrocarbons (C6-C10) and Volatile Organic Compounds by EPA method 8260B - Quality Cont
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3D08047 - EPA 5030B P/T

Blank (3D08047-BLK1)			Prepared & Analyzed: 04/08/03							
Methyl tert-butyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.80		"	5.00		96.0	78-129			

Laboratory Control Sample (3D08047-BS1)			Prepared & Analyzed: 04/08/03							
Methyl tert-butyl ether	10.2	0.50	ug/l	10.0		102	63-137			
Benzene	10.1	0.50	"	10.0		101	78-124			
Toluene	8.99	0.50	"	10.0		89.9	78-129			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.69		"	5.00		93.8	78-129			

Laboratory Control Sample (3D08047-BS2)			Prepared & Analyzed: 04/08/03							
Methyl tert-butyl ether	9.35	0.50	ug/l	9.04		103	63-137			
Benzene	5.85	0.50	"	5.44		108	78-124			
Toluene	31.0	0.50	"	32.8		94.5	78-129			
Gasoline Range Organics (C6-C10)	352	50	"	440		80.0	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.94		"	5.00		98.8	78-129			

Matrix Spike (3D08047-MS1)			Source: MMC0891-02		Prepared & Analyzed: 04/08/03					
Methyl tert-butyl ether	164	2.5	ug/l	45.2	120	97.3	63-137			
Benzene	28.0	2.5	"	27.2	0.45	101	78-124			
Toluene	149	2.5	"	164	ND	90.9	78-129			
Gasoline Range Organics (C6-C10)	1870	250	"	2200	170	77.3	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.93		"	5.00		98.6	78-129			

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



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URS Corporation
 500 12th Street, Suite 100
 Oakland CA, 94607

Project: ARCO #608, San Lorenzo, Ca
 Project Number: Intra- 50715
 Project Manager: Scott Robinson

MMC0891
 Reported:
 04/11/03 12:56

**I Purgeable Hydrocarbons (C6-C10) and Volatile Organic Compounds by EPA method 8260B - Quality Cont
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3D08047 - EPA 5030B P/T

Matrix Spike Dup (3D08047-MSD1)

Source: MMC0891-02

Prepared & Analyzed: 04/08/03

Methyl tert-butyl ether	168	2.5	ug/l	45.2	120	106	63-137	2.41	13	
Benzene	29.1	2.5	"	27.2	0.45	105	78-124	3.85	12	
Toluene	156	2.5	"	164	ND	95.1	78-129	4.59	10	
Gasoline Range Organics (C6-C10)	1930	250	"	2200	170	80.0	70-113	3.16	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.02</i>		<i>"</i>	<i>5.00</i>		<i>100</i>	<i>78-129</i>			

Sequoia Analytical - Morgan Hill

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URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #608, San Lorenzo, Ca
Project Number: Intrm- 50715
Project Manager: Scott Robinson

MMC0891
Reported:
04/11/03 12:56

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3D01041 - General Preparation										
Blank (3D01041-BLK1) Prepared & Analyzed: 04/01/03										
Chemical Oxygen Demand	ND	30	mg/l							
Laboratory Control Sample (3D01041-BS1) Prepared & Analyzed: 04/01/03										
Chemical Oxygen Demand	87.6	30	mg/l	100		87.6	80-124			
Matrix Spike (3D01041-MS1) Source: MMC0891-04 Prepared & Analyzed: 04/01/03										
Chemical Oxygen Demand	903	300	mg/l	1000	32	87.1	80-124			
Matrix Spike Dup (3D01041-MSD1) Source: MMC0891-04 Prepared & Analyzed: 04/01/03										
Chemical Oxygen Demand	957	300	mg/l	1000	32	92.5	80-124	5.81	23	
Batch 3D04021 - General Preparation										
Blank (3D04021-BLK1) Prepared: 03/27/03 Analyzed: 03/28/03										
Total Suspended Solids	ND	10	mg/l							



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Oakland CA, 94607

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Project Number: **Intrm-** 50715
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MMC0891
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04/11/03 12:56

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



Chain of Custody Record

Project Name: Station 608 - 18501 Hesperian Blvd, San Lorenzo, CA
 Facility Name: Atlantic Richfield Company, Morgan Hill, CA 95037
 Laboratory Contract Number: 4 5 1 3 0 0

Date: 3/17/03

Sampling Date Date:
 (min/del/yy - 2 weeks from sampling date)

On-site Time:	1130	Temp:	70
Off-site Time:		Temp:	
Sky Conditions:	Clear		
Meteorological Events:	None		
Wind Speed:		Direction:	

Send To:	BP/GEM Facility No.: Station 608	Consultant: URS Oakland
Lab Name: Sequoia Analytical	BP/GEM Facility Address: 18501 Hesperian Blvd, San Lorenzo, CA	Address: 500 12th Street, #200
Lab Address: 885 Jarvis Drive	Site ID No. Station 608	Oakland, CA 94607
Morgan Hill, CA 95037	California Global ID #: T0600101665	e-mail EDO: Scott.Robinson@URSComp.com No EDO
	BP/GEM PM Contact: Paul Supple	Consultant Project No.: 38465883.00327
Lab PM: Latonya Pelt	Address: P.O. Box 6549, Moraga, CA 94570	Consultant Tele/Fax: 510-874-3280/510-874-3268
Tele/Fax: 408-782-8154/408-782-6308	Tele/Fax: 925-299-8891/925-299-3872	Consultant PM: Scott Robinson
Report Type & QC Level: Normal /		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
				Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-g (8015)	BTEX (8021)	MTBE (8021)	COD	
1	INFL	INFL	1230	X				3			X	X	X					
2	MID-1	MID-1	1225	X				3			X	X	X					
3	MID-2	MID-2	1220	X				3			X	X	X					
4	EFFL	EFFL	1215	X				7	X	X	X	X	X	X	X			
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name: George Bradshaw	Relinquished By: [Signature]	Date/Time: 3/17/03 1540	Accepted By / Affiliation: Jimmie [Signature]	Date/Time: 3/17/03 1540
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

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
 REC. BY (PRINT): [Signature]
 WORKORDER: MMCOB91

DATE REC'D AT LAB: 3/27/03
 TIME REC'D AT LAB: 19:00
 DATE LOGGED IN: 3/29/03

Drinking water for regulatory purposes: YES NO
 Wastewater for regulatory purposes: YES NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/> Intact / Broken*	01		INFL	(3) vials	HCL	L	3/27/03	
2. Chain-of-Custody	Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/>	02		MID-1	↓	↓	↓	↓	
3. Traffic Reports or Packing List:	Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/>	03		MID-2	↓	↓	↓	↓	
4. Airbill:	Airbill / Sticker Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/>	04		EFFL	(3) vials (1) poly IL	H ₂ SO ₄ -	↓	↓	
5. Airbill #:									
6. Sample Labels:	Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/>								
7. Sample IDs:	Listed <input checked="" type="checkbox"/> Not Listed <input type="checkbox"/> on Chain-of-Custody								
8. Sample Condition:	Intact <input checked="" type="checkbox"/> Broken* / Leaking* <input type="checkbox"/>								
9. Does information on custody reports, traffic reports and sample labels agree?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								
10. Sample received within hold time:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								
11. Proper Preservatives used:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								
12. Temp Rec. at Lab: Is temp 4 +/- 2°C?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								
(Acceptance range for samples requiring thermal pres.)									
**Inception (if any): Metals / DFF (Direct From Field) or Problem COC									

Sampled

3/27/03

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

ATTACHMENT B

OPERATION AND MAINTENANCE FIELD LOGS

Date: 3/13/03

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

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

Carbon Vessels: Three ASC-1,200
 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>32902</u>	HOUR METER READING (hrs)	<u>2831.5</u>
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MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	<u>2758948</u>	<u>2758960</u>
FILTER INLET PRESSURE (psig)	<u>11</u>	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	<u>8.6</u>	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	<u>8.0</u>	(ideal range: 1 to 4 psig)
<u>Carbon #3</u> DISCHARGE PRESSURE (psig)	<u>4.6</u>	
DISCHARGE PRESSURE (psig)	<u>0</u>	(ideal range: 0 to 2 psig)

PART B: COMMENTS

PART C: WELL DATA (Monthly)

Not Done

*** 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	3/27
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	3/27
MID-1	TPH-gasoline, BTEX compounds, MtBE	3/27
MID-2	TPH-gasoline, BTEX compounds, MtBE	3/27

PART E: READINGS (Monthly)

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
	62	N/A	7.5	0.08

PART F: SYSTEM MAINTENANCE I (Monthly)

NUMBER OF SPARE FILTERS ON SITE?	10	CHANGE FILTERS? (if necessary)	Yes
PUMP AMP DRAW	N/A	H2O2 injection well EA-1 (if necessary)	No
SWEEP ENCLOSURE	Yes		

PART G: SYSTEM MAINTENANCE II (Quarterly)

Performed in Jan.

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			

Date: 3/27/03

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

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

Carbon Vessels: Three ASC-1,200
 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>33108</u>	HOUR METER READING (hrs)	<u>3165.1</u>
------------------------------------	--------------	-----------------------------	---------------

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	<u>2790668</u>	
FILTER INLET PRESSURE (psig)	<u>11.0</u>	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	<u>7.5</u>	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	<u>7.5</u>	(ideal range: 1 to 4 psig)
<u>Carbon #3 Inlet</u> DISCHARGE PRESSURE (psig)	<u>5.0</u>	(ideal range: 0 to 2 psig)
	<u>0</u>	

PART B: COMMENTS

PART C: WELL DATA (Monthly)

Not Done

* 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	3/27
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	3/27
MID-1	TPH-gasoline, BTEX compounds, MtBE	3/27
MID-2	TPH-gasoline, BTEX compounds, MtBE	3/27

PART E: READINGS (Monthly)

Collected 3/15/05

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
	62	N/A	7.5	0.08

PART F: SYSTEM MAINTENANCE I (Monthly)

NUMBER OF SPARE FILTERS ON SITE?	9	CHANGE FILTERS? (if necessary)	Yes
PUMP AMP DRAW	N/A	H202 injection well EA-1 (if necessary)	No
SWEEP ENCLOSURE	Yes		

PART G: SYSTEM MAINTENANCE II (Quarterly)

Performed in Jan.

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			