

EC

September 15, 2003

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

Alameda County
SEP 15 2003
Environmental Health

Re: **Monthly Discharge Report – August 2003**
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 July 24 and August 28, 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>	<i>07/24/03 to 08/28/03</i>
<i>Period Volume Discharged:</i>	<i>68,538 gallons</i>
<i>Effluent pH Reading:</i>	<i>7.03</i>
<i>Period Flow Rate:</i>	<i>1.37 gpm</i>
<i>Analytical Reports:</i>	<i>Attachment A</i>
<i>O & M Field Information:</i>	<i>Attachment B</i>

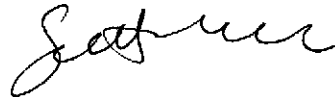
If you have any questions regarding this project or require further information, please do not hesitate to call me at 510-874-3280.

Sincerely,

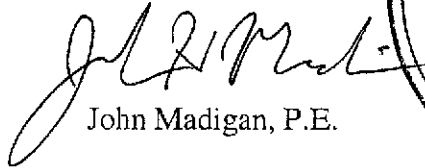
URS CORPORATION



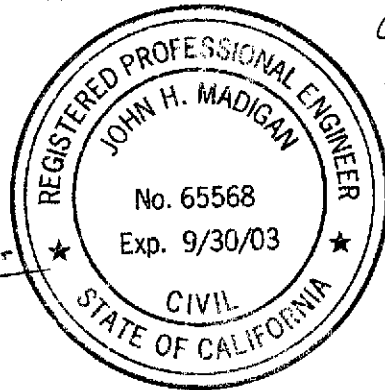
Teresa Tamburello
Staff Engineer



Scott Robinson
Project Manager



John 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, July 24, 2003
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
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)
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
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
04/10/03	3,500	48,456	2,828,060	37,392	1,851,460	1.86
04/24/03	3,837	48,793	2,865,050	36,990	1,888,450	1.83
05/08/03	4,172	49,128	2,900,937	35,887	1,924,337	1.79
05/22/03	4,459 h	49,415	2,931,190	30,253	1,954,590	1.75
05/30/03	4,459 i	49,415	2,931,190	0	1,954,590	0.00
06/05/03	4,606	49,562	2,946,180	14,990	1,969,580	1.69
06/19/03	4,940	49,896	2,971,985	25,805	1,995,385	1.29
07/11/03	4,940	49,896	2,971,985	0	1,995,385	0.00
07/24/03	5,331	50,287	2,972,362	377	1,995,762	0.02
08/14/03	5,831	50,787	3,013,517	41,155	2,036,917	1.37
08/28/03	6,165	51,121	3,040,900	27,383	2,064,300	1.37
REPORTING PERIOD:					07/24/03 to 08/28/03	
PERIOD AVERAGE FLOW RATE (gpm):					1.37	
PERIOD VOLUME DISCHARGED:					68,538	

gpm = Gallons per minute

N/A = Not available or not applicable

Initial 3-hour startup pumping period May 31, 2000

- a. System restarted 6/5/00 (previously ran 9/25/91 - 8/21/95)
- b. System down during construction to main sewer line starting 6/25/01.
- c. System restarted 8/14/01 following completion of construction work.
- d. Hour meter reading not recorded. Estimated hours using last 3 months average.
- e. Hour meter reading not functioning.
- f. Hour meter replaced.
- g. An error in the table has been corrected to show correct flow rate values.
- h. System was down upon arrival due to utility power outage.
- i. System restarted 5/30/03 after power restored to system.
- j. System was down upon arrival due pump overload. Pump was pulled for cleaning and inspection

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)
INFL (influent to primary carbon)										
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	0.5	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	6.0	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

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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)
INFL (influent to primary carbon) (cont.)										
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	1.0	NS	NS	NS	NA	NA
08/21/95	230	1.8	ND<0.50	1.6	0.9	NS	NS	NS	NA	NA
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	2.80	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	81.0	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	0.70	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

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 ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Xylenes ($\mu\text{g/L}$)	MtBE ($\mu\text{g/L}$)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
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	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)
MID-1 (cont.)										
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	9.0	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

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)
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	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	1.0	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

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)
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	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 ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Xylenes ($\mu\text{g/L}$)	MtBE ($\mu\text{g/L}$)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
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	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	44.0	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	7.5	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

- TPH-g =Total purgeable petroleum hydrocarbons as gasoline, analyzed using EPA Method 8015B/8021B
MtBE =Methyl tert Butyl Ether, analyzed using EPA Method 8015B/8021B
COD =Chemical oxygen demand, analyzed using EPA Method 410.4
TSS =Total suspended solids, analyzed using EPA Method 160.2
DO =Dissolved Oxygen, field measurement
 $\mu\text{g/L}$ =Micrograms per liter
mg/L =Milligrams per liter
ND< =Denotes minimum laboratory reporting limit.
NA =Not applicable or not available
NS =Not sampled
* =Analyzed with EPA Method 8260
** =MTBE concentration analyzed by EPA methods 8021B 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.

**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	d 42,832		2,503,380	16,290	1,526,780	0.6

ATTACHMENT A

**CERTIFIED ANALYTICAL REPORT
AND CHAIN-OF-CUSTODY DOCUMENTATION
JULY 24, 2003**



12 September, 2003

Scott Robinson
URS Corp. - Oakland
500 12th St. Suite 200
Oakland, CA 94607

RE: Arco Site #608, San Lorenzo, CA
Work Order: P308574

Enclosed are the results of analyses for samples received by the laboratory on 08/28/03 11:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Project Manager

CA ELAP Certificate #2374



URS Corp. - Oakland
500 12th St. Suite 200
Oakland CA, 94607

Project: Arco Site #608, San Lorenzo, CA
Project Number: [none]
Project Manager: Scott Robinson

P308574
Reported:
09/12/03 13:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INFL	P308574-01	Water	08/28/03 09:20	08/28/03 11:45
MID-1	P308574-02	Water	08/28/03 09:15	08/28/03 11:45
MID-2	P308574-03	Water	08/28/03 09:10	08/28/03 11:45
EFFL	P308574-04	Water	08/28/03 09:00	08/28/03 11:45

Samples were not received with custody seals.



URS Corp. - Oakland
500 12th St. Suite 200
Oakland CA, 94607

Project: Arco Site #608, San Lorenzo, CA
Project Number: [none]
Project Manager: Scott Robinson

P308574
Reported:
09/12/03 13:04

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INFL (P308574-01) Water Sampled: 08/28/03 09:20 Received: 08/28/03 11:45									
Gasoline Range Organics	ND	50	ug/l	1	3090142	09/08/03	09/08/03	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	30	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87 %	65-135		"	"	"	"	
MID-1 (P308574-02) Water Sampled: 08/28/03 09:15 Received: 08/28/03 11:45									
Gasoline Range Organics	ND	50	ug/l	1	3090142	09/08/03	09/08/03	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		65 %	65-135		"	"	"	"	
MID-2 (P308574-03) Water Sampled: 08/28/03 09:10 Received: 08/28/03 11:45									
Gasoline Range Organics	ND	50	ug/l	1	3090142	09/08/03	09/08/03	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	65-135		"	"	"	"	



URS Corp. - Oakland
500 12th St. Suite 200
Oakland CA, 94607

Project: Arco Site #608, San Lorenzo, CA
Project Number: [none]
Project Manager: Scott Robinson

P308574
Reported:
09/12/03 13:04

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (P308574-04) Water Sampled: 08/28/03 09:00 Received: 08/28/03 11:45									
Gasoline Range Organics	ND	50	ug/l	1	3090142	09/08/03	09/08/03	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %		65-135	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		79 %		65-135	"	"	"	"	

URS Corp. - Oakland
500 12th St. Suite 200
Oakland CA, 94607

Project: Arco Site #608, San Lorenzo, CA
Project Number: [none]
Project Manager: Scott Robinson

P308574
Reported:
09/12/03 13:04

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INFL (P308574-01) Water Sampled: 08/28/03 09:20 Received: 08/28/03 11:45									
Methyl tert-butyl ether	40	0.50	ug/l	1	3090260	09/10/03	09/10/03	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		107 %	84-122		"	"	"	"	

URS Corp. - Oakland
 500 12th St. Suite 200
 Oakland CA, 94607

Project: Arco Site #608, San Lorenzo, CA
 Project Number: [none]
 Project Manager: Scott Robinson

P308574
Reported:
 09/12/03 13:04

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
EFFL (P308574-04) Water Sampled: 08/28/03 09:00 Received: 08/28/03 11:45										
Chemical Oxygen Demand	ND	20		mg/l	1	3090256	09/11/03	09/11/03	EPA 410.4	
Total Suspended Solids	ND	10		"	"	3080626	08/29/03	08/29/03	EPA 160.2	

URS Corp. - Oakland
500 12th St. Suite 200
Oakland CA, 94607

Project: Arco Site #608, San Lorenzo, CA
Project Number: [none]
Project Manager: Scott Robinson

P308574
Reported:
09/12/03 13:04

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3090142 - EPA 5030, waters
Blank (3090142-BLK1)

Prepared & Analyzed: 09/08/03

Gasoline Range Organics	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	299		"	300		100	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	274		"	300		91	65-135			

Laboratory Control Sample (3090142-BS1)

Prepared & Analyzed: 09/08/03

Gasoline Range Organics	2290	50	ug/l	2750		83	65-135			
Benzene	40.7	0.50	"	34.0		120	65-135			
Toluene	217	0.50	"	208		104	65-135			
Ethylbenzene	49.1	0.50	"	47.0		104	65-135			
Xylenes (total)	236	0.50	"	241		98	65-135			
Methyl tert-butyl ether	72.6	2.5	"	56.0		130	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	335		"	300		112	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	286		"	300		95	65-135			

Matrix Spike (3090142-MS1)

Source: P308574-04

Prepared & Analyzed: 09/08/03

Gasoline Range Organics	2250	50	ug/l	2750	ND	82	65-135			
Benzene	38.6	0.50	"	34.0	ND	114	65-135			
Toluene	205	0.50	"	208	0.19	98	65-135			
Ethylbenzene	46.9	0.50	"	47.0	ND	100	65-135			
Xylenes (total)	228	0.50	"	241	0.43	94	65-135			
Methyl tert-butyl ether	62.2	2.5	"	56.0	0.41	110	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	317		"	300		106	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	287		"	300		96	65-135			

URS Corp. - Oakland
500 12th St. Suite 200
Oakland CA, 94607

Project: Arco Site #608, San Lorenzo, CA
Project Number: [none]
Project Manager: Scott Robinson

P308574
Reported:
09/12/03 13:04

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3090142 - EPA 5030, waters

Matrix Spike Dup (3090142-MSD1)	Source: P308574-04			Prepared & Analyzed: 09/08/03						
Gasoline Range Organics	2250	50	ug/l	2750	ND	82	65-135	0	20	
Benzene	37.6	0.50	"	34.0	ND	111	65-135	3	20	
Toluene	204	0.50	"	208	0.19	98	65-135	0.5	20	
Ethylbenzene	46.9	0.50	"	47.0	ND	100	65-135	0	20	
Xylenes (total)	228	0.50	"	241	0.43	94	65-135	0	20	
Methyl tert-butyl ether	63.6	2.5	"	56.0	0.41	113	65-135	2	20	
<i>Surrogate: a, a, a-Trifluorotoluene</i>	<i>313</i>		<i>"</i>	<i>300</i>		<i>104</i>	<i>65-135</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>289</i>		<i>"</i>	<i>300</i>		<i>96</i>	<i>65-135</i>			

URS Corp. - Oakland
500 12th St. Suite 200
Oakland CA, 94607

Project: Arco Site #608, San Lorenzo, CA
Project Number: [none]
Project Manager: Scott Robinson

P308574
Reported:
09/12/03 13:04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3090260 - EPA 5030 waters

Blank (3090260-BLK1)

Prepared & Analyzed: 09/10/03

Methyl tert-butyl ether	ND	0.50	ug/l							
<i>Surrogate: Dibromofluoromethane</i>	4.88		"	4.50		108	84-122			

Laboratory Control Sample (3090260-BS1)

Prepared & Analyzed: 09/10/03

Methyl tert-butyl ether	4.94	0.50	ug/l	5.00		99	77-123			
<i>Surrogate: Dibromofluoromethane</i>	4.90		"	4.50		109	84-122			

Laboratory Control Sample Dup (3090260-BSD1)

Prepared & Analyzed: 09/10/03

Methyl tert-butyl ether	5.03	0.50	ug/l	5.00		101	77-123	2	20	
<i>Surrogate: Dibromofluoromethane</i>	4.97		"	4.50		110	84-122			

URS Corp. - Oakland
500 12th St. Suite 200
Oakland CA, 94607

Project: Arco Site #608, San Lorenzo, CA
Project Number: [none]
Project Manager: Scott Robinson

P308574
Reported:
09/12/03 13:04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3080626 - General Preparation										
Blank (3080626-BLK1) Prepared & Analyzed: 08/29/03										
Total Suspended Solids	ND	10	mg/l							
Duplicate (3080626-DUP1) Source: P308572-01 Prepared & Analyzed: 08/29/03										
Total Suspended Solids	12.0	10	mg/l		13			8	20	
Batch 3090256 - General Preparation										
Blank (3090256-BLK1) Prepared & Analyzed: 09/11/03										
Chemical Oxygen Demand	ND	20	mg/l							
Laboratory Control Sample (3090256-BS1) Prepared & Analyzed: 09/11/03										
Chemical Oxygen Demand	242	20	mg/l	250		97	80-120			
Matrix Spike (3090256-MS1) Source: P308574-04 Prepared & Analyzed: 09/11/03										
Chemical Oxygen Demand	463	20	mg/l	500	ND	93	75-125			
Matrix Spike Dup (3090256-MSD1) Source: P308574-04 Prepared & Analyzed: 09/11/03										
Chemical Oxygen Demand	450	20	mg/l	500	ND	90	75-125	3	20	



URS Corp. - Oakland
500 12th St. Suite 200
Oakland CA, 94607

Project: Arco Site #608, San Lorenzo, CA
Project Number: [none]
Project Manager: Scott Robinson

P308574
Reported:
09/12/03 13:04

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



350514 revised bp

Revised

Chain of Custody Record (9/3/03)

Project Name: Station 608 - 10501 Hispanian Blvd, San Lorenzo, CA
 Business Unit: Atlantic Richfield Company, Southern CA Petroleum
 BP Laboratory Contract Number: 461040

Date: 9/11/03

Requested Due Date: 9/11/03
 (turn/deliv - 2 weeks from sampling date)

Drive Time:	0800	Temp:	65
OC site Temp:	1000	Temp:	68
Site Conditions:	Clear, Breeze		
Microbiological Events:	None		
Wind Speed:	1/4	Direction:	SE

Lab Name: Superior - Peninsula	BPGEM Facility No: Station 608	Consent: URS Oakland
Lab Address: 1433 N. McClellan Blvd.	BPGEM Facility Address: 10501 Hispanian Blvd, San Lorenzo, CA	Address: 500 12th Street, #200
State: D	Site ID No: Station 608	Oakland, CA 94601
Peninsula, CA 95054	California Global ID #: 0660101665	e-mail: BDD.AND.KDD
Lab EOE: Angeles Cmt	BPGEM Pkt Contact: Paul Sogala	Consent Project No: 98486167-00327
Lab Fax: 707-392-7528 707-392-8342	Address: P.O. Box 6549, Menlo Park, CA 94020	Consent TeleFax: 916-874-3266/310-874-3268
Report Type & QC Level: 1	TeleFax: 925-299-4800 925-299-8872	Consent Pkt: Scott Robinson
BPGEM Account No:		Service to: Atlantic Richfield Company
Lab Bottle Order No:		BPGEM Work Release No:

Bottle No.	Field Point ID	Sample ID	Time	Matrix				Lab No.	No. of containers	Preservatives						Requested Analysis		Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ O ₂	HNO ₃	HCl	TPH-s (2001)	STPH-s (2001)	MTBE (2001)	COD		TSS
1	BNFL	BNFL	0900	X				3					X	X	X		X		
2	AMD-1	AMD-1	0915	X				3					X	X	X		X		
3	AMD-2	AMD-2	0930	X				3					X	X	X		X		
4	BNFL	BNFL	0930	X				3					X	X	X		X		
5								3					X	X	X		X		
6																			
7																			
8																			
9																			
10																			

50012018015
 (2001)
 (2001)
 (2001)

Sampler's Name: George Bradshaw	Accepted By / Signature: [Signature]	Date: 9/11/03
Sampler's Company: URS Oakland	Time: 11:45	Date: 9/11/03
Shipment Date:	Accepted By / Signature: [Signature]	Date: 9/11/03
Shipment Method: Hand Deliver		
Shipment Tracking No:		

Special Instructions: COD = Chemical Oxygen Demand (3 VOS's w/12904), TSS = Total Suspended Solids (1 Liter poly unpreserved)

Custody Seal in Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt °F/C Trip Blank Yes No

TOTAL P. 02

10108743268 P. 02/02

revised 70

ATTACHMENT B

OPERATION AND MAINTENANCE FIELD LOGS

Date: 8/14/03

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (0008800)
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>34494</u>	HOUR METER READING (hrs)	<u>5830.6</u>
---------------------------------	--------------	--------------------------	---------------

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	<u>3,013,513</u>	<u>3,013,517</u>
FILTER INLET PRESSURE (psig)	<u>10.0</u>	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	<u>8.3</u>	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	<u>8.3 / 3.2</u> ^{Carbon 3}	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	<u>0</u>	(ideal range: 0 to 2 psig)

PART B: COMMENTS

Pump not operating line.
Good extraction flow and pressure.

PART C: WELL DATA (Monthly)

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

WELL	DTW (ft)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ADJUSTMENTS
E-1A				
UST-A		N/A	N/A	
UST-B		N/A	N/A	
SP1-74		N/A	N/A	

PART D: SAMPLING (Monthly)

due to collect 8/28/03

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

PART E: READINGS (Monthly)

due to collect 8/28/03

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

PART F: SYSTEM MAINTENANCE I (Monthly)

*25
MILES*

NUMBER OF SPARE FILTERS ON SITE?	<i>3</i>	CHANGE FILTERS? (if necessary)	<i>Yes</i>
PUMP AMP DRAW	<i>N/A</i>	H2O2 injection well EA-1 (if necessary)	<i>N/A</i>
SWEEP ENCLOSURE	<i>O.K.</i>		

PART G: SYSTEM MAINTENANCE II (Quarterly)

Due to Perform Oct.

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			

Date: 8/28/03

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

System Description:

Groundwater Pumps

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

Carbon Vessels: Three ASC-2,400
Filter: Rosedale P2 ~~25~~ micron
10

PART A: SYSTEM DATA (Semi-Monthly)

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

ELECTRIC METER READING (kw hrs)	<u>34644</u>	HOUR METER READING (hrs)	<u>6164.9</u>
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MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	<u>3,040,730</u>	<u>3,040,900</u>
FILTER INLET PRESSURE (psig)	<u>12.0</u>	(ideal range: 8 to 12 psig)
CARBON #1 INLET PRESSURE (psig)	<u>9.4</u>	(ideal range: 5 to 9 psig)
CARBON #2 INLET PRESSURE (psig)	<u>9.2</u> <u>Inlet #3 → 5.0</u>	(ideal range: 1 to 4 psig)
DISCHARGE PRESSURE (psig)	<u>0</u>	(ideal range: 0 to 2 psig)

PART B: COMMENTS All operations look great!

Need to order 1 box (50 ea.)
10 micron (extended life) large bag filters.

PART C: WELL DATA (Monthly)

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

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

PART D: SAMPLING (Monthly)

SAMPLE	ANALYSIS	COMPLETED
INFLUENT	TPH-gasoline, BTEX compounds, MtBE	8/28/03
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	8/28/03
MID-1	TPH-gasoline, BTEX compounds, MtBE	8/28/03
MID-2	TPH-gasoline, BTEX compounds, MtBE	8/28/03

PART E: READINGS (Monthly)

EFFLUENT	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
	68.5	963 μ S	7.03	2.12

PART F: SYSTEM MAINTENANCE I (Monthly)

NUMBER OF SPARE FILTERS ON SITE?	2	CHANGE FILTERS? (if necessary)	Yes
PUMP AMP DRAW	N/A	H202 injection well EA-1 (if necessary)	N/A
SWEEP ENCLOSURE	Yes		

PART G: SYSTEM MAINTENANCE II (Quarterly)

TEST ALARM SWITCHES	NO	BACKFLUSH CARBONS	N/A
CLEAN TOTALIZERS	NO		