

January 31, 2003

Alameda County

FEB 13 2003

Environmental Health

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

**Re: Third Quarter 2002 Groundwater Monitoring Report
ARCO Service Station # 0601
712 Lewelling Boulevard
San Leandro, California
URS Project #38486088**

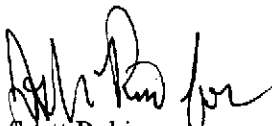
Dear Mr. Seery:

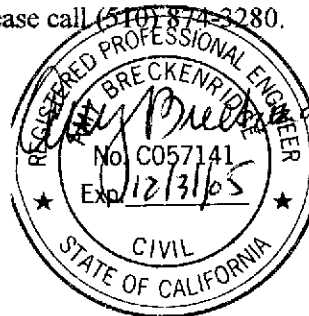
On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Third Quarter 2002 Groundwater Monitoring Report* for the ARCO Service Station #0601, located at 712 Lewelling Boulevard, San Leandro, California.

If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION


Scott Robinson
Project Manager



Amy P. Breckenridge, P.E.
Portfolio Manager

Enclosure: Third Quarter 2002 Quarterly Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570
Mr. Mike Bakaldin, Alameda County Fire Department Environmental Services Division, City of San Leandro, 835 E. 14th St, San Leandro, CA 94577



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 6549
Moraga, California 94570
Phone: (925) 299-8891
Fax: (925) 299-8872

February 6, 2003

Re: ARCO Station # 601 • 712 Lewelling Blvd. • San Leandro, CA
Third Quarter 2002 Quarterly Monitoring Report

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Paul Supple
Environmental Business Manager

REPORT

THIRD QUARTER 2002 GROUNDWATER MONITORING

ARCO SERVICE STATION #0601
712 LEWWLLING BOULEVARD
SAN LEANDRO, CALIFORNIA

Prepared for
Atlantic Richfield Company

January 31, 2003

URS

URS Corporation
500 12th Street, Suite 200
Oakland, California 94607

38486088

Date: January 31, 2003
Quarter: 3Q 02

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Former Facility No.: 0601 Address: 712 Lewelling Boulevard, San Leandro, California
BP Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486088
Primary Agency: ACHCSA

WORK PERFORMED THIS QUARTER (Third – 2002):

1. Performed third quarter 2002 groundwater monitoring event.
2. Prepared second quarter 2002 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2002):

1. Perform fourth quarter 2002 groundwater monitoring event.
2. Prepare third quarter 2002 groundwater monitoring report..

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Annual (1st Quarter): MW-2, MW-11, MW-13
Semi-Annual (1st/3rd Quarter): MW-9, MW-15
Quarterly: MW-1, MW-3 through MW-8, MW-10
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
FP Recovered this Quarter: None
Cumulative FP Recovered to Date: 3.45 gallons, Well MW-1
Bulk Soil Removed This Quarter: None
Bulk Soil Removed to Date: 1,565 cubic yards of TPH impacted soil
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 6.32 (MW-15) to 9.76 (MW-14) feet
Groundwater Gradient (direction): East-Southeast
Groundwater Gradient (magnitude): 0.025 feet per foot

DISCUSSION:

TPH-g was detected in four of the nine wells sampled this quarter at concentrations ranging from 820 µg/L (MW-4) to 45,000 µg/L (MW-3). Benzene was detected in four wells at concentrations ranging from 80 µg/L (MW-4) to 3,200 µg/L (MW-1). MTBE was detected in three wells at concentrations ranging from 8.7 µg/L (MW-8) to 110 µg/L (MW-5). 2-Methylnaphthalene and naphthalene was detected in well MW-1 at concentrations of 470 µg/L and 1,100 µg/L, respectively. No other semivolatile organic compounds were detected at or above the reporting limit in well MW-1. Wells MW-6 and MW-7 were not sampled this quarter due to insufficient water in the wells.

ATTACHMENTS:

- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Groundwater Flow Direction and Gradient
- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – July 23, 2002
- Attachment A - Field Procedures and Field Data Sheets
- Attachment B - Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C - Historic Groundwater Data
- Attachment D - EDCC and EDF/Geowell Submittal Confirmation

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station # 601
712 Lewelling Boulevard
San Leandro, California

Well Number	Date Sampled	Top of Riser Elevation (feet)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet)	TPH as			Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Semi Volatiles (mg/L)
					Gasoline (mg/L)	Benzene (mg/L)	Toluene (mg/L)				
MW-1	06/20/00	19.19	8.20	10.99	23,000	2,400	50	1,800	680	<200	NA
	09/29/00		8.55	10.64	23,600	2,880	<50	2,130	871	<250	430 ^a /1,100 ^b
	12/17/00		8.28	10.91	21,600	1,980	<50	1,610	664	<250	270 ^a /900 ^b
	03/28/01		8.13	11.06	19,800	2,310	<100	2,010	517	<500	11(c)
	06/20/01		8.60	10.59	17,000	2,200	23	1,800	320	100	NA
	09/22/01		9.03	10.16	20,000	2,900	<200	2,500	270	<1000	360 ^a , 980 ^b
	12/27/01		7.93	11.26	15,000	2,000	<50	1,700	140	290	370 ^a , 1,200 ^b
	03/15/02		7.89	11.30	12,000	1,800	<50	1,400	79	<250	220 ^a , 880 ^b
	04/18/02		7.05	12.14	16,000	3,000	180	2,600	320	<250	250 ^a , 880 ^b
	07/23/02	NP	8.70	10.49	14,000 ^e	3,200	<50	2,100	<50	<250	470 ^a ; 1,100 ^b
MW-2	06/20/00	21.12	7.12	14.00	NS	NS	NS	NS	NS	NS	NS
	09/29/00		7.60	13.52	NS	NS	NS	NS	NS	NS	NS
	12/17/00		7.42	13.70	NS	NS	NS	NS	NS	NS	NS
	03/28/01		6.84	14.28	838	18.1	<5.0	7.63	5.98	39.5	NA
	06/20/01		7.66	13.46	NS	NS	NS	NS	NS	NS	NS
	09/22/01		8.08	13.04	NS	NS	NS	NS	NS	NS	NA
	12/27/01		6.48	14.64	NS	NS	NS	NS	NS	NS	NS
	03/15/02		6.84	14.28	100	<0.5	<0.5	2.5	<0.5	75	NA
	04/18/02		6.19	14.93	NS	NS	NS	NS	NS	NS	NS
	07/23/02		7.73	13.39	NS	NS	NS	NS	NS	NS	NS

Table I
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712 Lewelling Boulevard
San Leandro, California

Well Number	Date Sampled	Top of Riser Elevation (feet)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet)	TPH as		Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Semi Volatiles (mg/L)
					Gasoline (mg/L)							
MW-3	06/20/00	22.99	6.22	16.77	45,000		670	990	2,400	12000	<500	NA
	09/29/00		7.20	15.79	51,000		860	1,120	2,720	12900	<250	NA
	12/17/00		NM	NM	NS		NS	NS	NS	NS	NS	NA
	03/28/01		6.10	16.89	43,500		804	<200	250	11,000	<1,000	NA
	06/20/01		6.14	16.85	62,000		1,000	850	2,800	13,000	<2,500	NA
	09/22/01		7.24	15.75	53,000		1,200	1,200	3,100	13,000	<1,000	NA
	12/27/01		7.00	15.99	44,000		860	840	2,300	10,000	<250	NA
	03/15/02		7.02	15.97	43,000		1,000	810	2,300	11,000	<250	NA
	04/18/02		NM	NM	NS		NS	NS	NS	NS	NS	NS
	07/23/02		7.22	15.77	45,000^d		750	570	2,100	10,000	<250	NA
MW-4	06/20/00	22.38	6.46	15.92	2,700		210	20	94	520	46	NA
	09/29/00		DRY	DRY	NS		NS	NS	NS	NS	NS	NS
	12/17/00		DRY	DRY	NS		NS	NS	NS	NS	NS	NS
	03/28/01		7.49	14.89	DRY		DRY	DRY	DRY	DRY	DRY	NA
	06/20/01		7.21	15.17	13,000		690	170	330	1,400	110	NA
	09/22/01		7.43	14.95	6,700		650	110	410	1,800	100	NA
	12/27/01		7.32	15.06	1,200		47	15	46	250	15	NA
	03/15/02		7.43	14.95	490		34	7.4	26	110	12	NA
	04/18/02		7	15.38	<50		0.57	0.83	<0.5	1.1	3.7	NA
	07/23/02		7.70	14.68	820^d		80	12	23	190	41	NA

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					Gasoline (mg/L)	Benzene (mg/L)	Toluene (mg/L)				
MW-5	06/20/00	22.45	6.78	15.67	10,000	3,000	650	260	700	<200	NA
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	12/17/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	03/28/01		6.48	15.97	23,400	4,160	3,450	728	3,090	<250	NA
	06/20/01		7.26	15.19	120,000	1,200	49	190	540	<100	NA
	09/22/01		DRY	DRY	NS	NS	NS	NS	NS	NS	NA
	12/27/01		6.56	15.89	16,000	1,500	2,700	730	3,200	<250	NA
	03/15/02		6.9	15.55	20,000	2,600	3,300	1,000	4,000	<250	NA
	04/18/02		6.17	16.28	17,000	3,200	2,900	790	3,000	<250	NA
	07/23/02	NP	7.36	15.09	4,600 ^d	1,400	30	160	470	110	NA
MW-6	06/20/00	22.77	DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	12/17/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	03/28/01		7.57	15.2	DRY	DRY	DRY	DRY	DRY	DRY	NA
	06/20/01		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09/22/01		DRY	DRY	NS	NS	NS	NS	NS	NS	NA
	12/27/01		7.21	15.56	<50	3	1	1.1	2	<2.5	NA
	03/15/02		7.51	15.26	2,100	380	8.6	110	17	<25	NA
	04/18/02		6.89	15.88	2,200	440	12	96	14	52	NA
	07/23/02	NP	8.50	14.27	NS	NS	NS	NS	NS	NS	NS

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Well Number	Date Sampled	Top of Riser Elevation (feet)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet)	TPH as		Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Semi Volatiles (mg/L)
					Gasoline (mg/L)							
MW-7	06/20/00	22.89	DRY	DRY	NS		NS	NS	NS	NS	NS	NS
	09/29/00		DRY	DRY	NS		NS	NS	NS	NS	NS	NS
	12/17/00		8.93	13.96	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	03/28/01		8.35	14.54	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		DRY	DRY	DRY		DRY	DRY	DRY	DRY	DRY	DRY
	09/22/01		DRY	DRY	NS		NS	NS	NS	NS	NS	NA
	12/27/01		8.42	14.47	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	03/15/02		8.54	14.35	<50		1.3	2.6	1.1	5.4	<2.5	NA
	04/18/02		7.84	15.05	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	07/23/02		NP	9.51	13.38		NS	NS	NS	NS	NS	NS
MW-8	06/20/00	20.89	7.23	13.66	150		<0.5	0.9	<0.5	<1.0	310	NA
	09/29/00		7.91	12.98	149		<0.5	<0.5	<0.5	<0.5	438	NA
	12/17/00		7.11	13.78	662		<5.0	<5.0	<5.0	<5.0	273	NA
	03/28/01		6.88	14.01	840		<5.0	<5.0	<5.0	<5.0	320	NA
	06/20/01		7.25	13.64	230		<0.5	<0.5	<0.5	0.65	330	NA
	09/22/01		8.14	12.75	<50		<0.5	<0.5	<0.5	<0.5	6.5	NA
	12/27/01		6.73	14.16	780		<0.5	<0.5	0.6	0.89	160	NA
	03/15/02		6.94	13.95	1,100		<10	<10	<10	<10	830	NA
	04/18/02		NM	NM	NS		NS	NS	NS	NS	NS	NS
	07/23/02		NP	7.89	13.00		<50	<0.50	<0.50	<0.50	8.7	NA

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					Gasoline (mg/L)							
MW-9	06/20/00	22.26	8.01	14.25	NS		NS	NS	NS	NS	NS	NS
	09/29/00		8.44	13.82	<50		<0.5	<0.5	<0.5	<0.5	3.44	NA
	12/17/00		7.84	14.42	NS		NS	NS	NS	NS	NS	NS
	03/28/01		7.58	14.68	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		7.75	14.51	NS		NS	NS	NS	NS	NS	NS
	9/22/2001		8.69	13.57	<50		<0.5	<0.5	<0.5	<0.5	7.8	NA
	12/27/2001		7.15	15.11	NS		NS	NS	NS	NS	NS	NS
	03/15/02		7.23	15.03	<50		< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	04/18/02		6.79	15.47	NS		NS	NS	NS	NS	NS	NS
	07/23/02	P	8.30	13.96	<50		<0.50	<0.50	<0.50	<0.50	<2.5	NA
MW-10	06/20/00	21.33	7.99	13.34	<0.5		<0.5	<0.5	<0.5	<0.5	<3.0	NA
	09/29/00		8.40	12.93	<50		< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	12/17/00		7.91	13.42	<50		< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	03/28/01		7.47	13.86	<50		< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	06/20/01		8.11	13.22	<50		< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	09/22/01		8.77	12.56	<50		< 0.5	< 0.5	<0.5	<0.5	<2.5	NA
	12/27/01		6.94	14.39	<50		< 0.5	< 0.5	<0.5	<0.5	<2.5	NA
	03/15/02		7.48	13.85	<50		< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	04/18/02		6.77	14.56	<50		< 0.5	< 0.5	< 0.5	<0.5	3.8	NA
	07/23/02	NP	8.42	12.91	<50		<0.50	<0.50	<0.50	<0.50	<2.5	NA

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Well Number	Date Sampled	Top of Riser Elevation (feet)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet)	TPH		Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Semi Volatiles (mg/L)
					as Gasoline (mg/L)							
MW-11	06/20/00	20.97	8.18	12.79	NS		NS	NS	NS	NS	NS	NS
	09/29/00		8.60	12.37	NS		NS	NS	NS	NS	NS	NS
	12/17/00		8.48	12.49	NS		NS	NS	NS	NS	NS	NS
	03/28/01		7.88	13.09	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		8.48	12.49	NS		NS	NS	NS	NS	NS	NS
	09/22/01		9.11	11.86	NS		NS	NS	NS	NS	NS	NS
	12/27/01		7.50	13.47	NS		NS	NS	NS	NS	NS	NS
	03/15/02		7.87	13.1	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	04/18/02		7.22	13.75	NS		NS	NS	NS	NS	NS	NS
	07/23/02		8.76	12.21	NS		NS	NS	NS	NS	NS	NS
MW-12	06/20/00	20.11	8.55	11.56	NS		NS	NS	NS	NS	NS	NS
	09/29/00		8.98	11.13	NS		NS	NS	NS	NS	NS	NS
	12/17/00		8.76	11.35	NS		NS	NS	NS	NS	NS	NS
	03/28/01		8.31	11.8	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		9.10	11.01	NS		NS	NS	NS	NS	NS	NS
	09/22/01		9.48	10.63	NS		NS	NS	NS	NS	NS	NS
	12/27/01		7.78	12.33	NS		NS	NS	NS	NS	NS	NS
	03/15/02		8.22	11.89	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	04/18/02		7.65	12.46	NS		NS	NS	NS	NS	NS	NS
	07/23/02		9.18	10.93	NS		NS	NS	NS	NS	NS	NS

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Well Number	Date Sampled	Top of Riser Elevation (feet)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet)	TPH as		Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Semi Volatiles (mg/L)
					Gasoline (mg/L)							
MW-13	06/20/00	20.75	7.56	13.19	NS		NS	NS	NS	NS	NS	NS
	09/29/00		8.27	12.48	NS		NS	NS	NS	NS	NS	NS
	12/17/00		8.09	12.66	NS		NS	NS	NS	NS	NS	NS
	03/28/01		7.69	13.06	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		8.46	12.29	NS		NS	NS	NS	NS	NS	NS
	09/22/01		8.57	12.18	NS		NS	NS	NS	NS	NS	NS
	12/27/01		7.14	13.61	NS		NS	NS	NS	NS	NS	NS
	03/15/02		7.62	13.13	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	04/18/02		6.91	13.84	NS		NS	NS	NS	NS	NS	NS
	07/23/02		8.50	12.25	NS		NS	NS	NS	NS	NS	NS
MW-14	06/20/00	20.90	9.16	11.74	<50		<0.5	<0.5	<0.5	<1.0	<10	NA
	09/29/00		9.48	11.42	<50		<0.5	<0.5	<0.5	<0.5	<2.50	NA
	12/17/00		9.24	11.66	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	03/28/01		8.91	11.99	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		9.7	11.20	<50		<0.5	<0.5	<0.5	<0.5	3.1	NA
	09/22/01		10.04	10.86	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	12/27/01		8.33	12.57	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	03/15/02		8.75	12.15	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	04/18/02		8.21	12.69	<50		<0.5	<0.5	<0.5	<0.5	<2.5	NA
	07/23/02	NP	9.76	11.14	<50		<0.50	<0.50	<0.50	<0.50	<2.5	NA

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ARCO Service Station # 601
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San Leandro, California

Well Number	Date Sampled	Top of Riser Elevation (feet)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet)	TPH as Gasoline (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Semi Volatiles (mg/L)
MW-15	06/20/00	22.08	5.98	16.10	NS	NS	NS	NS	NS	NS	NS
	09/29/00		6.50	15.58	<50	< 0.5	< 0.5	< 0.5	<0.5	<2.50	NA
	12/17/00		5.89	16.19	NS	NS	NS	NS	NS	NS	NS
	03/28/01		5.78	16.30	<50	< 0.5	< 0.5	< 0.5	<0.5	11.1	NA
	06/20/01		5.72	16.36	NS	NS	NS	NS	NS	NS	NS
	09/22/01		6.79	15.29	<50	<0.5	<0.5	<0.5	<0.5	13	NA
	12/27/01		5.49	16.59	NS	NS	NS	NS	NS	NS	NS
	03/15/02		5.68	16.40	<50	< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	04/18/02		4.85	17.23	NS	NS	NS	NS	NS	NS	NS
	07/23/02 P		6.32	15.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted

mg/L = Micrograms per liter

NA = Not analyzed

NS = Not sampled

TOC = Top of casing

P = Purge

NP = No purge

< = Not detected at or above specified laboratory method detection limit

a = 2-methylnaphthalene

b = Naphthalene

c = Phenol

d = Chromatogram Pattern: Gasoline C6-C10

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

Source: The data within this table collected prior to April 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

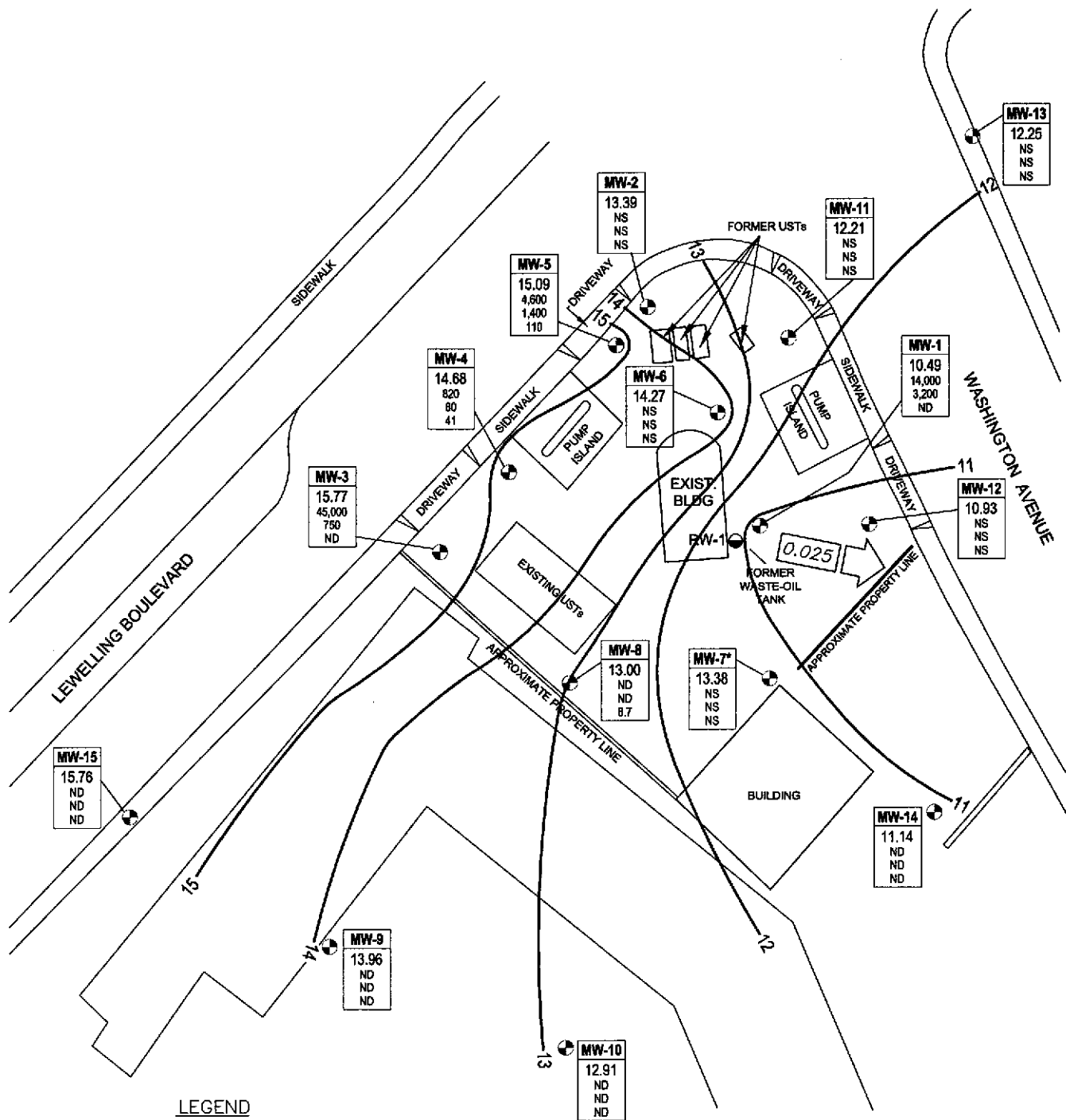
Table 2
Groundwater Flow Direction and Gradient

ARCO Service Station # 601
712 Lewelling Boulevard
San Leandro, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
06/20/00	East-Southeast	0.023
09/29/00	East-Southeast	0.023
12/17/00	East-Southeast	0.010
03/28/01	East-Southeast	0.014
06/20/01	East-Southeast	0.022
09/22/01	East-Southeast	0.025
12/27/01	East-Southeast	0.025
03/15/02	East	0.015
04/18/02	East	0.015
07/23/02	East-Southeast	0.025

Source:

The data within this table collected prior to April 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.



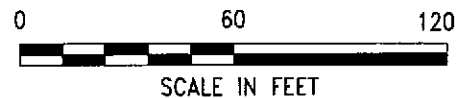
LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- RW-1 SOIL VAPOR EXTRACTION WELL LOCATION
- 13 — GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MSL)
- 0.025 → APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT
- | Well |
|---------|
| ELEV |
| TPH-g |
| Benzene |
| MTBE |

 WELL DESIGNATION
GROUNDWATER ELEVATION (FEET ABOVE MSL)
CONCENTRATIONS OF TPH-g, BENZENE & MTBE IN MICROGRAMS PER LITER (µg/L)
- * DATA NOT USED FOR CONTOURING
- ND NOT DETECTED
- NS NOT SAMPLED



NORTH



URS

Project No. 38465882
Arco Service Station 0601
712 Lewelling Boulevard
San Leandro, California

**GROUNDWATER ELEVATION CONTOUR
AND ANALYTICAL SUMMARY MAP**
Third Quarter 2002 (July 23, 2002)

FIGURE
1

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear TeflonTM bailer or an oil-water interface probe.

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

WELL GAUGING DATA

Project # 020723-BA1 Date 7/23/02 Client Arco 601

Site 712 LEWELLING BLVD

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4	odor				8.70	11.05	ToC	NP@7'
* MW-2	4					7.73	12.20		ORC
MW-3	4	odor				7.22 6.81	11.85		ORC NP@8'
MW-4	4					7.70	8.43		NP
* MW-5	4					7.36	10.04		ORC NP
MW-6	4					8.50	8.54		NP
MW-7	4					9.51	9.53		NP
MW-8	4					7.89	10.11		ORC NP
MW-9	2					8.30	15.88		
MW-10	2					8.42	18.67		NP
MW-11	4					8.76	11.80		
MW-12	4					9.18	11.54		
MW-13	2					8.50	12.92		
MW-14	2					9.76	12.95		NP@7.5'
MW-15	2					6.32	10.03		

* gauged w/ ORC in well

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020723-BA1</u>	Station # <u>601</u>
Sampler: <u>Brian A.</u>	Date: <u>7/23/02</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u>11.05</u>	Depth to Water: <u>8.70</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: <u> </u>	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: <u> </u>
---	---

Top of Screen: NP 27' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>Ø</u>	X	<u>3</u>	=	<u>Ø</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1330	75.4	6.8	1631	Ø	screen clear odor

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: <u>Ø</u>
Sampling Time: <u>1330</u>	Sampling Date: <u>7/23/02</u>
Sample I.D.: <u>MW-1</u>	Laboratory: Pace <u>(Sequoia)</u> Other <u> </u>
Analyzed for: <u>(TPH-G BTEX MTBE TPH-D)</u> Other: <u> </u>	
D.O. (if req'd):	Pre-purge: <u> </u> mg/L Post-purge: <u>(Ø)</u> <u>0.9</u> mg/L
O.R.P. (if req'd):	Pre-purge: <u> </u> mV Post-purge: <u> </u> mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020723-B41</u>	Station # <u>601</u>
Sampler: <u>Brian A.</u>	Date: <u>7/23/02</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u>11.85</u>	Depth to Water: <u>7.22</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: slow recharge Bailer Disposable Bailer Middleburg Electric Submersible Extraction Pump Other:

Sampling Method: Disposable Bailer Extraction Port Other:

Top of Screen: NPE 8' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3</u>	X	<u>3</u>	=	<u>9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1427</u>	<u>71.4</u>	<u>8.0</u>	<u>916</u>	<u>3</u>	<u>clear grey</u>
<u>1433</u>	<u>71.7</u>	<u>7.8</u>	<u>925</u>	<u>6</u>	<u>" w/ mild odor</u>
<u>1445</u>	<u>73.9</u>	<u>8.0</u>	<u>977</u>	<u>9</u>	<u>"</u>

Did well dewater? Yes <u> </u> No <u>(X)</u>		Gallons actually evacuated: <u>9</u>	
Sampling Time: <u>1450</u>		Sampling Date: <u>7/23/02</u>	
Sample I.D.: <u>MW-3</u>		Laboratory: Pace <u>(Sequoia)</u> Other <u> </u>	
Analyzed for: <u>(TPH-G BTEX MTBE TPH-D)</u> Other: <u> </u>			
D.O. (if req'd):	Pre-purge:	<u> </u> mg/L	Post-purge: <u>(1.0)</u> mg/L
O.R.P. (if req'd):	Pre-purge:	<u> </u> mV	Post-purge: <u> </u> mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020723-B41</u>	Station # <u>601</u>
Sampler: <u>Brian A.</u>	Date: <u>7/23/02</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>8.43</u>	Depth to Water: <u>7.70</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: <u>No Purge</u> Bailer Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Disposable Bailer</u> Extraction Port Other: _____
--	--

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

<u>Ø</u>	X	<u>3</u>	=	<u>Ø</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1320	74.4	7.3	1241	Ø	clear

Did well dewater? Yes ☐ No ☒	Gallons actually evacuated: <u>Ø</u>
Sampling Time: <u>1320</u>	Sampling Date: <u>7/23/02</u>
Sample I.D.: <u>MW-4</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> BTEX MTBE TPH-D Other: _____	
D.O. (if req'd): _____	Pre-purge: _____ mg/L
	Post-purge: <u>2.2</u> mg/L
O.R.P. (if req'd): _____	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020723-BA1</u>	Station # <u>601</u>
Sampler: <u>Brian A.</u>	Date: <u>7/23/02</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>10.04</u>	Depth to Water: <u>7.36</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: No Purge

☐ Bailer
☒ Disposable Bailer
☒ Middleburg
☒ Electric Submersible
☒ Extraction Pump
 Other: _____

Sampling Method: Disposable Bailer

☐ Bailer
☒ Disposable Bailer
☐ Extraction Port
 Other: _____

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

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

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1400</u>	<u>73.8</u>	<u>7.5</u>	<u>1765</u>	<u>Ø</u>	<u>clear mild odor</u>

Did well dewater? Yes ☐ No ☒	Gallons actually evacuated: <u>Ø</u>						
Sampling Time: <u>1400</u>	Sampling Date: <u>7/23/02</u>						
Sample I.D.: <u>MW-5</u>	Laboratory: Pace <u>Sequoia</u> Other _____						
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u> Other: _____							
D.O. (if req'd):	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Pre-purge: _____ mg/L</td> <td style="width: 50%;">Post-purge: <u>1.7</u> mg/L</td> </tr> <tr> <td>O.R.P. (if req'd):</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Pre-purge: _____ mV</td> <td style="width: 50%;">Post-purge: _____ mV</td> </tr> </table> </td> </tr> </table>	Pre-purge: _____ mg/L	Post-purge: <u>1.7</u> mg/L	O.R.P. (if req'd):	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Pre-purge: _____ mV</td> <td style="width: 50%;">Post-purge: _____ mV</td> </tr> </table>	Pre-purge: _____ mV	Post-purge: _____ mV
Pre-purge: _____ mg/L	Post-purge: <u>1.7</u> mg/L						
O.R.P. (if req'd):	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Pre-purge: _____ mV</td> <td style="width: 50%;">Post-purge: _____ mV</td> </tr> </table>	Pre-purge: _____ mV	Post-purge: _____ mV				
Pre-purge: _____ mV	Post-purge: _____ mV						

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020723-BA1</u>	Station # <u>601</u>
Sampler: <u>BLIAN A.</u>	Date: <u>7/23/02</u>
Well I.D.: <u>MW-6</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>8.54</u>	Depth to Water: <u>8.50</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: ~~Bailer~~
~~Disposable Bailer~~
~~Middleburg~~
~~Electric Submersible~~
~~Extraction Pump~~
NO PURGE
 Other: _____

Sampling Method: ~~Bailer~~
~~Disposable Bailer~~
~~Extraction Port~~
 Other: _____

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

<u>0</u>	X	<u>3</u>	=	<u>0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>INSUFFICIENT WATER FOR GRAB SAMPLE</u>					

Did well dewater? Yes ☒ No ☒	Gallons actually evacuated: <u>0</u>
Sampling Time: _____	Sampling Date: <u>7/23/02</u>
Sample I.D.: _____	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> BTEX MTBE TPH-D Other _____	
D.O. (if req'd): _____	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd): _____	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 020723-BA1	Station # 601
Sampler: BRIAN A.	Date: 7/23/02
Well I.D.: MW-7	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 9.53	Depth to Water: 9.51
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: ~~Bailer~~
~~Disposable Bailer~~
~~Middleburg~~
~~Electric Submersible~~
~~Extraction Pump~~
No Purge
 Other: _____

Sampling Method: ~~Bailer~~
~~Disposable Bailer~~
~~Extraction Port~~
 Other: _____

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

<u>2</u>	X	<u>3</u>	=	<u>6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>INSUFFICIENT WATER FOR GRAB SAMPLE</u>					

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>6</u>
Sampling Time: _____	Sampling Date: _____
Sample I.D.: _____	Laboratory: Pace Sequoia Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____	
D.O. (if req'd): _____	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd): _____	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020723-B41</u>	Station # <u>601</u>
Sampler: <u>Brian A.</u>	Date: <u>7/23/02</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>10.11</u>	Depth to Water: <u>7.89</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: ~~Bailer~~
~~Disposable Bailer~~
~~Middleburg~~
~~Electric Submersible~~
~~Extraction Pump~~
 Other: ~~_____~~

No Purge

Sampling Method: Bailer
Disposable Bailer
 Extraction Port
 Other: _____

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

<u>0</u>	X	<u>3</u>	=	<u>0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1305</u>	<u>71.8</u>	<u>7.7</u>	<u>1019</u>	<u>0</u>	<u>Clear Sandy</u>

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>0</u>
Sampling Time: <u>1305</u>	Sampling Date: <u>7/23/02</u>
Sample I.D.: <u>MW-8</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u> Other: _____	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>4.5</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 020723-BA1	Station # 601
Sampler: BRUNN A.	Date: 7/23/02
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8
Total Well Depth: 15.88	Depth to Water: 8.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer
 Disposable Bailer
 (Middleburg)
 Electric Submersible
 Extraction Pump
 Other: _____

Sampling Method: Bailer
 (Disposable Bailer)
 Extraction Port
 Other: _____

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

1.2 1.2	X 3	= 3.6 3.6	Gals.
1 Case Volume (Gals.)	Specified Volumes	Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1127	72.7 72.2	7.2	1044	1.25	clear
1130	71.1	7.2	1103	2.5	"
1134	71.4	7.2	1115	3.75	"

Did well dewater? Yes (No)		Gallons actually evacuated: 4	
Sampling Time: 11:40		Sampling Date: 7/23/02	
Sample I.D.: MW-9		Laboratory: Pace (Sequoia) Other: _____	
Analyzed for: (TPH-G) BTEX MTBE TPH-D Other: _____			
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: 1.4 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 020723-BA1	Station # 601
Sampler: Brian A.	Date: 7/23/02
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8
Total Well Depth: 18.67	Depth to Water: 8.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: ~~Bailer~~
~~Disposable Bailer~~
~~Middleburg~~
~~Electric Submersible~~
~~Extraction Pump~~
 Other: ~~_____~~

No Purge

Sampling Method: Bailer
Disposable Bailer
 Extraction Port
 Other: _____

Top of Screen: Unknown

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

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

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1105	70.7	7.2	1105	ϕ	cloudy brown

Did well dewater? Yes <u>No</u>		Gallons actually evacuated: ϕ	
Sampling Time: 1105		Sampling Date: 7/23/02	
Sample I.D.: MW-10		Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>TPH-G</u> BTEX MTBE TPH-D Other: _____			
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: 1.0 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 020723-BA1	Station # 401
Sampler: BRIAN A.	Date: 7/23/02
Well I.D.: MW-14	Well Diameter: (2) 3 4 6 8
Total Well Depth: 12.95	Depth to Water: 9.76
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: ~~Bailer~~
~~Disposable Bailer~~
~~Middleburg~~
~~Electric Submersible~~
~~Extraction Pump~~
 Other: _____

Sampling Method: ~~Bailer~~
 Disposable Bailer
 Extraction Port
 Other: _____

Top of Screen: N/A @ 7.5' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

$\emptyset$	X	3	=	$\emptyset$	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1240	72.5	7.1	1496	$\emptyset$	clear

Did well dewater? Yes (No) Gallons actually evacuated: $\emptyset$

Sampling Time: 1240 Sampling Date: 7/23/02

Sample I.D.: MW-14 Laboratory: Pace Sequoia Other: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: 1.4 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 020723-B41	Station # 601
Sampler: BRIAN A.	Date: 7/23/02
Well I.D.: MW-15	Well Diameter: (2) 3 4 6 8
Total Well Depth: 10.03	Depth to Water: 6.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer
 Disposable Bailer
 (Middleburg)
 Electric Submersible
 Extraction Pump
 Other: _____

Sampling Method: Bailer
 (Disposable Bailer)
 Extraction Port
 Other: _____

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

0.6	X	3	=	1.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
12:04	71.4	7.6	663	1.5	clear
12:06	71.8	7.8	669	1.0	"
12:08	70.4	7.9	675	1.5	"

Did well dewater? Yes (No)		Gallons actually evacuated: 1.5	
Sampling Time: 1215		Sampling Date: 7/23/02	
Sample I.D.: MW-15		Laboratory: Pace (Sequoia) Other _____	
Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____			
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: (2.0) mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV

WELLHEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client Arco

Inspection Date 7/23/02

Site Address 712 LEWELLING BLVD

Inspected By BRIAN A

1. Lid on box?	6. Casing secure?	12. Water standing in wellbox?	15. Well cap functional?
2. Lid broken?	7. Casing out level?	12a. Standing above the top of casing?	16. Can cap be pulled loose?
3. Lid bolts missing?	8. Debris in wellbox?	12b. Standing below the top of casing?	17. Can cap seal out water?
4. Lid bolts stripped?	9. Wellbox is too far above grade?	12c. Water even with the top of casing?	18. Padlock present?
5. Lid seal intact?	10. Wellbox is too far below grade?	13. Well cap present?	19. Padlock functional?
	11. Wellbox is crushed/damaged?	14. Well cap found secure?	

☐ Check box if no deficiencies were found. Note below deficiencies you were able to correct.[illegible]

Note below all deficiencies that could not be corrected and still need to be corrected.

Well I.D.	Persisting Deficiency	BTS Office assigns or defers Correction to:	Date assigned	Date corrected
MW-2	(4) (11) bolt mount (12) below (19) unknown lock type	BTS can make repairs if requested		
MW-13	(15) broken (19) unknown lock type			
MW-11	(4) (13) broken (19) unknown lock type			
MW-12	(4) (19) rusted			
MW-10	(19) rusted			
MW-9	(19) unknown lock type (11) minor damage to inside well			

MW-15 (19) rusted
MW-14 (19) unknown
type
MW-7 (19) unknown
type
MW-6 (19) unknown (15) broken
type
MW-8 (19) unknown
type

MW-4 (4) (14) unknown type
 MW-1 (3) (11) bolt mounts (19) rusted (15) broken
 MW-5 (19) unknown type
 MW-3 (3) (15) broken (18) no lock

BP GEM OIL COMPANY TYPE **A** BILL OF LADING

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

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

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

601

Station #

712 LEWELLING BVD, SAN LEANDRO

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

15

added equip.

rinse water

5

any other

adjustments

TOTAL GALS.

RECOVERED

20

loaded onto

BTS vehicle #

BTS event #

time

date

020723-BA1

1530

7/23/02

signature

REC'D AT

time

date

unloaded by

signature

ATTACHMENT B

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

LABORATORY PROCEDURES

Laboratory Procedures

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



**Sequoia
Analytical**

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

1 August, 2002

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

RE: ARCO #601, San Leandro, Ca
Sequoia Report: MLG0480

Enclosed are the results of analyses for samples received by the laboratory on 07/24/02 13:50. 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 #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MLG0480-01	Water	07/23/02 13:30	07/24/02 13:50
MW-3	MLG0480-02	Water	07/23/02 14:50	07/24/02 13:50
MW-4	MLG0480-03	Water	07/23/02 13:20	07/24/02 13:50
MW-5	MLG0480-04	Water	07/23/02 14:00	07/24/02 13:50
MW-8	MLG0480-05	Water	07/23/02 13:05	07/24/02 13:50
MW-14	MLG0480-06	Water	07/23/02 12:40	07/24/02 13:50
MW-15	MLG0480-07	Water	07/23/02 12:15	07/24/02 13:50
MW-9	MLG0480-08	Water	07/23/02 11:40	07/24/02 13:50
MW-10	MLG0480-09	Water	07/23/02 11:05	07/24/02 13:50

Sequoia Analytical - Morgan Hill

Latonya Pelt, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MLG0480-01) Water Sampled: 07/23/02 13:30 Received: 07/24/02 13:50									
Gasoline Range Organics (C6-C10)	14000	5000	ug/l	100	2G25002	07/25/02	07/25/02	8015Bm/8021 B	HC-12
Benzene	3200	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	2100	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>117 %</i>	<i>70-130</i>		"	"	"	"	
MW-3 (MLG0480-02) Water Sampled: 07/23/02 14:50 Received: 07/24/02 13:50									
Gasoline Range Organics (C6-C10)	45000	5000	ug/l	100	2G25002	07/25/02	07/25/02	8015Bm/8021 B	HC-21
Benzene	750	50	"	"	"	"	"	"	
Toluene	570	50	"	"	"	"	"	"	
Ethylbenzene	2100	50	"	"	"	"	"	"	
Xylenes (total)	10000	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>98.3 %</i>	<i>70-130</i>		"	"	"	"	
MW-4 (MLG0480-03) Water Sampled: 07/23/02 13:20 Received: 07/24/02 13:50									
Gasoline Range Organics (C6-C10)	820	100	ug/l	2	2G30020	07/29/02	07/30/02	8015Bm/8021 B	HC-21
Benzene	80	1.0	"	"	"	"	"	"	
Toluene	12	1.0	"	"	"	"	"	"	
Ethylbenzene	23	1.0	"	"	"	"	"	"	
Xylenes (total)	190	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	41	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>136 %</i>	<i>70-130</i>		"	"	"	"	S-02



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

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MLG0480-04) Water Sampled: 07/23/02 14:00 Received: 07/24/02 13:50									
Gasoline Range Organics (C6-C10)	4600	2000	ug/l	40	2G30020	07/29/02	07/30/02	8015Bm/8021 B	HC-21
Benzene	1400	20	"	"	"	"	"	"	
Toluene	30	20	"	"	"	"	"	"	
Ethylbenzene	160	20	"	"	"	"	"	"	
Xylenes (total)	470	20	"	"	"	"	"	"	
Methyl tert-butyl ether	110	100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>127 %</i>		<i>70-130</i>	"	"	"	"	
MW-8 (MLG0480-05) Water Sampled: 07/23/02 13:05 Received: 07/24/02 13:50									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G25002	07/25/02	07/25/02	8015Bm/8021 B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	8.7	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>112 %</i>		<i>70-130</i>	"	"	"	"	
MW-14 (MLG0480-06) Water Sampled: 07/23/02 12:40 Received: 07/24/02 13:50									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G25002	07/25/02	07/25/02	8015Bm/8021 B	
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>		<i>95.6 %</i>		<i>70-130</i>	"	"	"	"	



URS Corporation
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Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-15 (MLG0480-07) Water Sampled: 07/23/02 12:15 Received: 07/24/02 13:50									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G25002	07/25/02	07/25/02	8015Bm/8021	B
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		95.3 %		70-130	"	"	"	"	"
MW-9 (MLG0480-08) Water Sampled: 07/23/02 11:40 Received: 07/24/02 13:50									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G25002	07/25/02	07/25/02	8015Bm/8021	B
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		105 %		70-130	"	"	"	"	"
MW-10 (MLG0480-09) Water Sampled: 07/23/02 11:05 Received: 07/24/02 13:50									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2G25002	07/25/02	07/25/02	8015Bm/8021	B
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		99.5 %		70-130	"	"	"	"	"



URS Corporation
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Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MLG0480-01) Water Sampled: 07/23/02 13:30 Received: 07/24/02 13:50									
Acenaphthene	ND	54	ug/l	10	2G30008	07/30/02	07/31/02	EPA 8270C	
Acenaphthylene	ND	54	"	"	"	"	"	"	
Anthracene	ND	54	"	"	"	"	"	"	
Benzoic acid	ND	110	"	"	"	"	"	"	
Benzo (a) anthracene	ND	54	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	54	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	54	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	110	"	"	"	"	"	"	
Benzo[a]pyrene	ND	54	"	"	"	"	"	"	
Benzyl alcohol	ND	110	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	54	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	110	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	54	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	110	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	54	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	54	"	"	"	"	"	"	
4-Chloroaniline	ND	540	"	"	"	"	"	"	
2-Chloronaphthalene	ND	54	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	54	"	"	"	"	"	"	
2-Chlorophenol	ND	54	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	110	"	"	"	"	"	"	
Chrysene	ND	54	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	54	"	"	"	"	"	"	
Dibenzofuran	ND	54	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	54	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	110	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	110	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	110	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	540	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	54	"	"	"	"	"	"	
Diethyl phthalate	ND	54	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	110	"	"	"	"	"	"	
Dimethyl phthalate	ND	54	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	54	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	110	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	54	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	54	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	54	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MLG0480-01) Water Sampled: 07/23/02 13:30 Received: 07/24/02 13:50									
Fluoranthene	ND	54	ug/l	10	2G30008	07/30/02	07/31/02	EPA 8270C	
Fluorene	ND	54	"	"	"	"	"	"	
Hexachlorobenzene	ND	54	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	110	"	"	"	"	"	"	
Hexachloroethane	ND	110	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	110	"	"	"	"	"	"	
Isophorone	ND	54	"	"	"	"	"	"	
2-Methylnaphthalene	470	54	"	"	"	"	"	"	
2-Methylphenol	ND	54	"	"	"	"	"	"	
4-Methylphenol	ND	54	"	"	"	"	"	"	
Naphthalene	1100	54	"	"	"	"	"	"	
2-Nitroaniline	ND	110	"	"	"	"	"	"	
3-Nitroaniline	ND	1100	"	"	"	"	"	"	
4-Nitroaniline	ND	540	"	"	"	"	"	"	
Nitrobenzene	ND	54	"	"	"	"	"	"	
2-Nitrophenol	ND	54	"	"	"	"	"	"	
4-Nitrophenol	ND	110	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	110	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	54	"	"	"	"	"	"	
Pentachlorophenol	ND	110	"	"	"	"	"	"	
Phenanthrene	ND	54	"	"	"	"	"	"	
Phenol	ND	54	"	"	"	"	"	"	
Pyrene	ND	54	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	110	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	54	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	54	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		55.4 %	2-86		"	"	"	"	
Surrogate: Phenol-d6		37.0 %	15-50		"	"	"	"	
Surrogate: Nitrobenzene-d5		103 %	68-115		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		88.3 %	70-120		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		97.0 %	23-176		"	"	"	"	
Surrogate: p-Terphenyl-d14		97.2 %	91-143		"	"	"	"	

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

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2G25002 - EPA 5030B [P/T]									
Blank (2G25002-BLK1)				Prepared & Analyzed: 07/25/02					
Gasoline Range Organics (C6-C10)	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	"						
Surrogate: <i>a,a,a</i> -Trifluorotoluene	12.1		"	10.0		121	70-130		
LCS (2G25002-BS1)				Prepared & Analyzed: 07/25/02					
Benzene	10.7	0.50	ug/l	10.0		107	70-130		
Toluene	10.9	0.50	"	10.0		109	70-130		
Ethylbenzene	11.2	0.50	"	10.0		112	70-130		
Xylenes (total)	33.4	0.50	"	30.0		111	70-130		
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.8		"	10.0		108	70-130		
LCS (2G25002-BS2)				Prepared & Analyzed: 07/25/02					
Gasoline Range Organics (C6-C10)	268	50	ug/l	250		107	70-130		
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.1		"	10.0		101	70-130		
Matrix Spike (2G25002-MS1)				Source: MLG0480-05	Prepared & Analyzed: 07/25/02				
Gasoline Range Organics (C6-C10)	514	50	ug/l	550	ND	93.5	60-140		
Benzene	10.4	0.50	"	6.60	ND	158	60-140		QM-07
Toluene	43.1	0.50	"	39.7	ND	109	60-140		
Ethylbenzene	10.2	0.50	"	9.20	ND	111	60-140		
Xylenes (total)	51.3	0.50	"	46.1	ND	111	60-140		
Surrogate: <i>a,a,a</i> -Trifluorotoluene	11.1		"	10.0		111	70-130		
Matrix Spike Dup (2G25002-MSD1)				Source: MLG0480-05	Prepared & Analyzed: 07/25/02				
Gasoline Range Organics (C6-C10)	564	50	ug/l	550	ND	103	60-140	9.28	25
Benzene	10.7	0.50	"	6.60	ND	162	60-140	2.84	25
Toluene	42.6	0.50	"	39.7	ND	107	60-140	1.17	25
Ethylbenzene	10.2	0.50	"	9.20	ND	111	60-140	0.00	25
Xylenes (total)	50.9	0.50	"	46.1	ND	110	60-140	0.783	25
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.2		"	10.0		102	70-130		

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

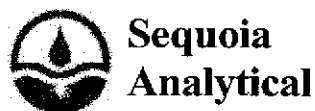
Reported:
08/01/02 07:52

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2G30020 - EPA 5030B [P/T]									
Blank (2G30020-BLK1)					Prepared & Analyzed: 07/29/02				
Gasoline Range Organics (C6-C10)	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	"						
Surrogate: <i>a,a,a</i> -Trifluorotoluene	11.6		"	10.0		116	70-130		
LCS (2G30020-BS1)					Prepared & Analyzed: 07/29/02				
Benzene	9.79	0.50	ug/l	10.0		97.9	70-130		
Toluene	10.2	0.50	"	10.0		102	70-130		
Ethylbenzene	10.3	0.50	"	10.0		103	70-130		
Xylenes (total)	30.5	0.50	"	30.0		102	70-130		
Surrogate: <i>a,a,a</i> -Trifluorotoluene	11.6		"	10.0		116	70-130		
LCS (2G30020-BS2)					Prepared & Analyzed: 07/29/02				
Gasoline Range Organics (C6-C10)	235	50	ug/l	250		94.0	70-130		
Surrogate: <i>a,a,a</i> -Trifluorotoluene	11.3		"	10.0		113	70-130		
LCS Dup (2G30020-BSD1)					Prepared & Analyzed: 07/29/02				
Benzene	9.23	0.50	ug/l	10.0		92.3	70-130	5.89	25
Toluene	9.59	0.50	"	10.0		95.9	70-130	6.16	25
Ethylbenzene	9.76	0.50	"	10.0		97.6	70-130	5.38	25
Xylenes (total)	28.5	0.50	"	30.0		95.0	70-130	6.78	25
Surrogate: <i>a,a,a</i> -Trifluorotoluene	11.9		"	10.0		119	70-130		
LCS Dup (2G30020-BSD2)					Prepared & Analyzed: 07/29/02				
Gasoline Range Organics (C6-C10)	260	50	ug/l	250		104	70-130	10.1	25
Surrogate: <i>a,a,a</i> -Trifluorotoluene	13.8		"	10.0		138	70-130		S-02

Sequoia Analytical - Morgan Hill

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URS Corporation
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Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2G30008 - EPA 3510B SepFunnel									
Blank (2G30008-BLK1)				Prepared: 07/30/02 Analyzed: 07/31/02					
1,2-Diphenylhydrazine	ND	10	ug/l						A-01
Benzidine	ND	50	"						
N-Nitrosodimethylamine	ND	5.0	"						
Acenaphthene	ND	5.0	"						
Acenaphthylene	ND	5.0	"						
Anthracene	ND	5.0	"						
Benzoic acid	ND	10	"						
Benzo (a) anthracene	ND	5.0	"						
Benzo (b) fluoranthene	ND	5.0	"						
Benzo (k) fluoranthene	ND	5.0	"						
Benzo (ghi) perylene	ND	10	"						
Benzo[a]pyrene	ND	5.0	"						
Benzyl alcohol	ND	10	"						
Bis(2-chloroethoxy)methane	ND	5.0	"						
Bis(2-chloroethyl)ether	ND	10	"						
Bis(2-chloroisopropyl)ether	ND	5.0	"						
Bis(2-ethylhexyl)phthalate	ND	10	"						
4-Bromophenyl phenyl ether	ND	5.0	"						
Butyl benzyl phthalate	ND	5.0	"						
4-Chloroaniline	ND	50	"						
2-Chloronaphthalene	ND	5.0	"						
4-Chloro-3-methylphenol	ND	5.0	"						
2-Chlorophenol	ND	5.0	"						
4-Chlorophenyl phenyl ether	ND	10	"						
Chrysene	ND	5.0	"						
Dibenz (a,h) anthracene	ND	5.0	"						
Dibenzofuran	ND	5.0	"						
Di-n-butyl phthalate	ND	5.0	"						
1,2-Dichlorobenzene	ND	10	"						
1,3-Dichlorobenzene	ND	10	"						
1,4-Dichlorobenzene	ND	10	"						
3,3'-Dichlorobenzidine	ND	50	"						
2,4-Dichlorophenol	ND	5.0	"						
Diethyl phthalate	ND	5.0	"						
2,4-Dimethylphenol	ND	10	"						
Dimethyl phthalate	ND	5.0	"						

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Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2G30008 - EPA 3510B SepFunnel

Blank (2G30008-BLK1)

Prepared: 07/30/02 Analyzed: 07/31/02

4,6-Dinitro-2-methylphenol	ND	5.0	ug/l						
2,4-Dinitrophenol	ND	10	"						
2,4-Dinitrotoluene	ND	5.0	"						
2,6-Dinitrotoluene	ND	5.0	"						
Di-n-octyl phthalate	ND	5.0	"						
Fluoranthene	ND	5.0	"						
Fluorene	ND	5.0	"						
Hexachlorobenzene	ND	5.0	"						
Hexachlorobutadiene	ND	10	"						
Hexachlorocyclopentadiene	ND	10	"						
Hexachloroethane	ND	10	"						
Indeno (1,2,3-cd) pyrene	ND	10	"						
Isophorone	ND	5.0	"						
2-Methylnaphthalene	ND	5.0	"						
2-Methylphenol	ND	5.0	"						
4-Methylphenol	ND	5.0	"						
Naphthalene	ND	5.0	"						
2-Nitroaniline	ND	10	"						
3-Nitroaniline	ND	100	"						
4-Nitroaniline	ND	50	"						
Nitrobenzene	ND	5.0	"						
2-Nitrophenol	ND	5.0	"						
4-Nitrophenol	ND	10	"						
N-Nitrosodiphenylamine	ND	10	"						
N-Nitrosodi-n-propylamine	ND	5.0	"						
Pentachlorophenol	ND	10	"						
Phenanthrene	ND	5.0	"						
Phenol	ND	5.0	"						
Pyrene	ND	5.0	"						
1,2,4-Trichlorobenzene	ND	10	"						
2,4,5-Trichlorophenol	ND	5.0	"						
2,4,6-Trichlorophenol	ND	5.0	"						
Surrogate: 2-Fluorophenol	27.0		"	50.0		54.0	2-86		
Surrogate: Phenol-d6	19.0		"	50.0		38.0	15-50		
Surrogate: Nitrobenzene-d5	41.6		"	50.0		83.2	68-115		
Surrogate: 2-Fluorobiphenyl	41.1		"	50.0		82.2	70-120		

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Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 2G30008 - EPA 3510B SepFunnel

Blank (2G30008-BLK1)

Prepared: 07/30/02 Analyzed: 07/31/02

Surrogate: 2,4,6-Tribromophenol	46.4		ug/l	50.0		92.8	23-176		
Surrogate: p-Terphenyl-d14	47.5		"	50.0		95.0	91-143		

LCS (2G30008-BS1)

Prepared: 07/30/02 Analyzed: 07/31/02

Acenaphthene	43.4	5.0	ug/l	50.0		86.8	67-118		
4-Chloro-3-methylphenol	48.1	5.0	"	50.0		96.2	56-125		
2-Chlorophenol	44.1	5.0	"	50.0		88.2	57-118		
1,4-Dichlorobenzene	39.4	10	"	50.0		78.8	58-103		
2,4-Dinitrotoluene	43.0	5.0	"	50.0		86.0	62-113		
4-Nitrophenol	10.5	10	"	50.0		21.0	16-48		
N-Nitrosodi-n-propylamine	46.3	5.0	"	50.0		92.6	58-112		
Pentachlorophenol	39.6	10	"	50.0		79.2	50-111		
Phenol	20.5	5.0	"	50.0		41.0	22-53		
Pyrene	48.0	5.0	"	50.0		96.0	71-147		
1,2,4-Trichlorobenzene	40.8	10	"	50.0		81.6	62-109		
Surrogate: 2-Fluorophenol	25.8		"	50.0		51.6	2-86		
Surrogate: Phenol-d6	18.7		"	50.0		37.4	15-50		
Surrogate: Nitrobenzene-d5	43.4		"	50.0		86.8	68-113		
Surrogate: 2-Fluorobiphenyl	43.5		"	50.0		87.0	70-120		
Surrogate: 2,4,6-Tribromophenol	49.7		"	50.0		99.4	23-176		
Surrogate: p-Terphenyl-d14	50.0		"	50.0		100	91-143		

LCS Dup (2G30008-BS1)

Prepared: 07/30/02 Analyzed: 07/31/02

Acenaphthene	44.2	5.0	ug/l	50.0		88.4	67-118	1.83	30	
4-Chloro-3-methylphenol	51.9	5.0	"	50.0		104	56-125	7.60	30	
2-Chlorophenol	46.2	5.0	"	50.0		92.4	57-118	4.65	30	
1,4-Dichlorobenzene	39.1	10	"	50.0		78.2	58-103	0.764	30	
2,4-Dinitrotoluene	44.6	5.0	"	50.0		89.2	62-113	3.65	30	
4-Nitrophenol	18.2	10	"	50.0		36.4	16-48	53.7	30	QR-02
N-Nitrosodi-n-propylamine	47.9	5.0	"	50.0		95.8	58-112	3.40	30	
Pentachlorophenol	47.1	10	"	50.0		94.2	50-111	17.3	30	
Phenol	22.2	5.0	"	50.0		44.4	22-53	7.96	30	
Pyrene	49.4	5.0	"	50.0		98.8	71-147	2.87	30	
1,2,4-Trichlorobenzene	41.8	10	"	50.0		83.6	62-109	2.42	30	
Surrogate: 2-Fluorophenol	27.7		"	50.0		55.4	2-86			
Surrogate: Phenol-d6	19.9		"	50.0		39.8	15-50			
Surrogate: Nitrobenzene-d5	43.6		"	50.0		87.2	68-113			

Sequoia Analytical - Morgan Hill

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Sequoia Analytical

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

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2G30008 - EPA 3510B SepFunnel

LCS Dup (2G30008-BSD1)

Prepared: 07/30/02 Analyzed: 07/31/02

Surrogate: 2-Fluorobiphenyl	43.6		ug/l	50.0		87.2	70-120			
Surrogate: 2,4,6-Tribromophenol	51.5		"	50.0		103	23-176			
Surrogate: p-Terphenyl-d14	49.1		"	50.0		98.2	91-143			



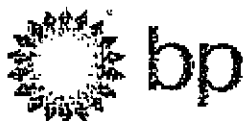
URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

Reported:
08/01/02 07:52

Notes and Definitions

- A-01 This result was generated using a one point calibration. This should be considered in evaluating the result for its intended purpose.
- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- HC-21 Chromatogram Pattern: Gasoline C6-C10
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- 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 _____
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____

Date: 7/23/02

Requested Due Date (mm/dd/yyyy) _____

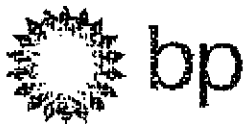
MLG0980

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

BP/GEM Facility No.:	Consultant/Contractor: URS
BP/GEM Facility Address: 712 Lewelling Blvd, San Leandro, CA	Address: 529 12th St., Ste. 200
Site ID No. ARCO 601	Oakland, CA 94609-4014
Site Lat/Long:	e-mail EDD: syed_rehan@urcorp.com
California Global ID #: T0600100108	Consultant/Contractor Project No.: 15-00000601.01 00427
BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-3280/510-874-3268
Address:	Consultant/Contractor PM: Scott Robinson
BP/GEM Account No.:	Invoice to: Consultant/Contractor or (BP/GEM (circle one))
Tele/Fax:	BP/GEM Work Release No.:

Bottle Order No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-G/BTEX (8015/8021)	TPH-D (8015)	MTBE (8021)	MTBE, TAME, ETBE, DIPE, TBA (8260)	1,2-DCA & EDB (8260)	SVOCs (8270)	
1	MW-1	1330		X			01	5	X			X	X	X	X			X	
2	MW-3	1450		X			02	3				X	X	X	X				
3	MW-4	1320		X			03	3				X	X	X	X				
4	MW-5	1400		X			04	3				X	X	X	X				
5	MW-8	1305		X			05	3				X	X	X	X				
6	MW-11	1240		X			06	3				X	X	X	X				
7	MW-15	1445		X			07	3				X	X	X	X				
8																			
9																			
10																			

Sampler's Name: BRIAN ALONSO	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: BRIAN TRON	<i>[Signature]</i>	7/24/02	0837	<i>[Signature]</i>	7/24/02	8:37
Event Date:	<i>[Signature]</i>	7/24/02	195	<i>[Signature]</i>	7/24/02	1350
Event Method:						
Tracking No.:						
Instructions: Address Invoice to BP/GEM but send to URS for approval						
In Place Yes	No ☒	Temperature Blank Yes	No ☒	Cooler Temperature on Receipt 0.8 °F(C)	Trip Blank Yes	No ☒



Chain of Custody Record

Project Name _____
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____

Date: 7/23/02

Requested Due Date (mm/dd/yy) 7/26/02

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

Lab Name: SEQUOIA	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	BP/GEM Facility Address: 712 Lewelling Blvd, San Leandro, CA	Address: 529 12th St., Ste. 200 Oakland, CA 94609-4014
	Site ID No. ARCO 601	e-mail EDD: syed.rehan@urscorp.com
	Site Lat/Long:	Consultant/Contractor Project No.: JS-00000601.01 00427
	California Global ID #: T0600100108	Consultant Tele/Fax: 510-874-3280/510-874-3268
Lab PM: Latonya Pell	BP/GEM PM Contact: PAUL SUPPLE	Consultant/Contractor PM: Scott Robinson
Tele/Fax: 408-776-9600 / 408-782-6308	Address:	Invoice to: Consultant/Contractor or BP/GEM (circle one)
Report Type & QC Level: Send EDF Reports	Tele/Fax:	BP/GEM Work Release No:
BP/GEM Account No.:		

Lab Bottle Order No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis								Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-3 / BTEX (8015 / 8021)	TPH-D (8015)	MTBE (8021)	SVDE, TAME, ETBE (8260)	DICP, TBA (8260)	1,2-DCA & EDB (8260)			
1	MW-9	1140	X				08	3				X	X								
2	MW-10	1105	X				09	3				X	X								
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Sampler's Name: Brian Alcorn	Relinquished By / Affiliation:	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: BLAINE TECH	<i>[Signature]</i>	7/24/02	0838	<i>[Signature]</i>	7/24/02	8158
Report Date:	<i>[Signature]</i>	7/24/02	145	Andia O'Brien	7/24/02	1350
Report Method:						
Tracking No:						

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

in Place Yes No ☒ Temperature Blank Yes No ☒ Cooler Temperature on Receipt (0.8 °F/C) Trip Blank Yes No ☒

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

BP COC Rev. 1 2/5/02

ATTACHMENT C

HISTORIC GROUNDWATER DATA

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-1	03-17-95	22.26	6.57	ND	15.69	03-17-95	120,000	5,300	370	1,500	13,000	--	--	48,000	6,200[1]		
MW-1	06-01-95	22.26	7.87	ND	14.39	06-01-95	250,000	7,100	950	3,500	21,000	--	--	38,000	190,000[1]		
MW-1	08-31-95	22.26	8.12	0.01	** 14.15	08-31-95	Not sampled: well contained floating product										
MW-1	11-27-95	22.26	8.42	Sheen	13.84	11-27-95	310,000	4,600	770	5,700	21,000	--	--	--	--		
MW-1	02-22-96	22.26	6.01	0.01	** 16.26	03-14-96	100,000	6,200	320	2,500	12,000	<1,000[1]	--	--	--		
MW-1	05-20-96	22.26	7.03	ND	15.23	05-21-96	340,000	6,600	240	4,500	22,000	<1,000	--	150	<2,500[1]		
MW-1	08-26-96	22.26	8.16	ND	14.10	08-26-96	210,000	7,900	320	3,400	15,000	<1,000	--	--	--		
MW-1	11-20-96	22.26	7.84	ND	14.42	11-20-96	62,000	5,900	77	2,000	7,700	<300	--	--	--		
MW-1	03-24-97	19.19	8.05	ND	11.14	03-24-97	170,000	6,500	<200	2,400	9,900	<1,000	--	--	--		
MW-1	05-23-97	19.19	8.42	ND	10.77	05-23-97	83,000	6,200	84	2,500	9,000	<300	--	--	--		
MW-1	08-19-97	19.19	8.65	ND	10.54	08-19-97	83,000	4,500	<100	2,200	8,100	<600	--	--	--		
MW-1	11-19-97	19.19	8.54	ND	10.65	11-19-97	250,000	4,400	<500	3,800	9,900	<3,000	--	--	--		
MW-1	02-19-98	19.19	5.57	ND	13.62	02-19-98	74,000	2,500	120	2,200	4,100	<300	--	--	--		
MW-1	04-23-98	19.19	6.92	ND	12.27	04-24-98	210,000	2,700	<500	4,200	8,300	<3,000	--	--	--	1.5	P
MW-1	07-27-98	19.19	8.14	ND	11.05	07-27-98	73,000	2,100	88	2,600	4,600	<300	--	--	--	1.0	P
MW-1	10-14-98	19.19	8.58	ND	10.61	10-14-98	47,000	2,900	<50	2,300	3,900	<300	--	--	--	1.5	P
MW-1	01-21-99	19.19	7.84	ND	11.35	01-22-99	45,000	1,400	64	2,100	2,400	<300	--	--	--	1.0	P
MW-1	05-06-99	19.19	8.00	ND	11.19	05-06-99	41,000	1,900	<20	2,800	3,400	<120	--	--	--	0.85	P
MW-1	08-23-99	19.19	8.56	ND	10.63	08-24-99	26,000	1,700	52	1,600	1,500	<75	--	--	--	0.72	P
MW-1	10-28-99	19.19	8.92	ND	10.27	10-28-99	38,000	2,500	35	2,400	2,500	<200	--	--	--	0.70	P
MW-2	03-17-95	21.33	6.12	ND	15.21	03-17-95	10,000	460	77	260	550	--	--	--	--		
MW-2	06-01-95	21.33	6.56	ND	14.77	06-01-95	13,000	400	78	210	410	--	--	--	--		

Table 1
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1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-2	08-31-95	21.33	7.18	ND	14.15	08-31-95	5,000	280	18	120	140	<50	--	--	--		
MW-2	11-27-95	21.33	7.39	ND	13.94	11-27-95	3,200	230	12	77	90	--	--	--	--		
MW-2	02-22-96	21.33	5.78	ND	15.55	03-14-96	11,000	290	67	190	330	<50	--	--	--		
MW-2	05-20-96	21.33	6.27	ND	15.06	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-2	08-26-96	21.33	7.30	ND	14.03	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-2	11-20-96	21.33	7.28	ND	14.05	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-2	03-24-97	21.12	7.11	ND	14.01	03-24-97	4,800	570	6	71	32	67	--	--	--		
MW-2	05-23-97	21.12	7.44	ND	13.68	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-2	08-19-97	21.12	7.64	ND	13.48	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-2	11-19-97	21.12	7.70	ND	13.42	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-2	02-19-98	21.12	5.22	ND	15.90	02-19-98	2,000	160	50	66	230	25	--	--	--		
MW-2	04-23-98	21.12	6.24	ND	14.88	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-2	07-27-98	21.12	7.02	ND	14.10	07-27-98	Not sampled: well sampled annually, during the first quarter										
MW-2	10-14-98	21.12	7.54	ND	13.58	10-14-98	Not sampled: well sampled annually, during the first quarter										
MW-2	01-21-99	21.12	7.15	ND	13.97	01-22-99	1,700	84	4	31	10	13	--	--	--	0.5	P
MW-2	05-06-99	21.12	6.95	ND	14.17	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-2	08-23-99	21.12	7.49	ND	13.63	08-24-99	Not sampled: well sampled annually, during the first quarter										
MW-2	10-28-99	21.12	7.92	ND	13.20	10-28-99	Not sampled: well sampled annually, during the first quarter										
MW-3	03-17-95	20.11	5.46	ND	14.65	03-17-95	370,000	4,800	12,000	5,800	34,000	--	--	--	--		
MW-3	06-01-95	20.11	6.34	ND	13.77	06-01-95	270,000	6,000	11,000	5,200	28,000	--	--	--	--		
MW-3	08-31-95	20.11	6.60	0.02	** 13.52	08-31-95	Not sampled: well contained floating product										
MW-3	11-27-95	20.11	6.76	0.01	** 13.36	11-27-95	150,000	5,100	8,800	3,900	21,000	--	--	--	--		

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MW-3	02-22-96	20.11	5.14	0.01	** 14.98	03-14-96	150,000	4,400	7,600	4,100	22,000	<3,000	--	--	--		
MW-3	05-20-96	20.11	5.17	ND	14.94	05-21-96	410,000	4,700	8,000	6,300	36,000	<3,000	--	--	--		
MW-3	08-26-96	20.11	7.04	ND	13.07	08-26-96	260,000	4,000	6,100	4,200	24,000	<2,000	--	--	--		
MW-3	11-20-96	20.11	6.26	ND	13.85	11-20-96	190,000	3,200	5,800	3,300	20,000	<1,000	--	--	--		
MW-3	03-24-97	22.99	6.94	ND	16.05	03-24-97	430,000	2,700	7,600	7,000	39,000	<5,000	--	--	--		
MW-3	05-23-97	22.99	6.98	ND	16.01	05-23-97	130,000	2,100	4,300	3,500	19,000	<700	--	--	--		
MW-3	08-19-97	22.99	7.25	ND	15.74	08-19-97	100,000	2,000	3,200	<100	19,000	<600	--	--	--		
MW-3	11-19-97	22.99	7.25	ND	15.74	11-19-97	93,000	1,700	2,400	2,800	16,000	<600	--	--	--		
MW-3	02-19-98	22.99	5.24	ND	17.75	02-19-98	80,000	620	1,200	2,500	13,000	<600	--	--	--		
MW-3	04-23-98	22.99	6.60	ND	16.39	04-24-98	130,000	1,500	2,400	3,500	18,000	<600	--	--	--	3.5	P
MW-3	07-27-98	22.99	7.00	ND	15.99	07-27-98	140,000	920	1,500	2,400	13,000	<600	--	--	--	1.0	P
MW-3	10-14-98	22.99	7.04	ND	15.95	10-14-98	300,000	1,200	2,400	5,700	32,000	970	--	--	--	1.0	P
MW-3	01-21-99	22.99	6.50	ND	16.49	01-22-99	120,000	860	1,500	2,600	14,000	<600	--	--	--	0.5	P
MW-3	05-06-99	22.99	6.90	ND	16.09	05-06-99	49,000	670	1,400	2,500	11,000	170	--	--	--	1.03	NP
MW-3	08-23-99	22.99	6.53	ND	16.46	08-24-99	51,000	440	930	2,200	9,200	<150	--	--	--	0.67	NP
MW-3	10-28-99	22.99	7.50	ND	15.49	10-28-99	1,400,000	830	4,100	15,000	78,000	<5,000	--	--	--	0.77	P
MW-4	03-17-95	20.75	6.65	ND	14.10	03-17-95	16,000	1,800	970	310	2,500	--	--	--	--		
MW-4	06-01-95	20.75	7.25	ND	13.50	06-01-95	16,000	2,800	870	380	2,700	--	--	--	--		
MW-4	08-31-95	20.75	7.75	ND	13.00	08-31-95	9,000	2,000	270	270	1,400	<100	--	--	--		
MW-4	11-27-95	20.75	7.87	ND	12.88	11-27-95	3,800	890	130	130	550	--	--	--	--		
MW-4	02-22-96	20.75	7.29	ND	13.46	03-14-96	940	150	82	19	130	<20	--	--	--		
MW-4	05-20-96	20.75	7.30	ND	13.45	05-21-96	6,700	1,100	330	120	1,100	<100	--	--	--		

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MW-4	08-26-96	20.75	7.57	ND	13.18	08-26-96	14,000	2,400	510	350	2,100	<100	--	--	--		
MW-4	11-20-96	20.75	7.89	ND	12.86	11-20-96	420	55	17	11	62	<3	--	--	--		
MW-4	03-24-97	22.38	6.90	ND	15.48	03-24-97	6,800	620	150	81	1,300	<50	--	--	--		
MW-4	05-23-97	22.38	7.80	ND	14.58	05-23-97	9,000	1,300	240	200	1,600	<60	--	--	--		
MW-4	08-19-97	22.38	DRY	ND	N/A	08-19-97	Not sampled: well is dry										
MW-4	11-19-97	22.38	DRY	ND	N/A	11-19-97	3,700[1]	600	93	120	710	<60	--	--	--		
MW-4	02-19-98	22.38	6.78	ND	15.60	02-19-98	1,800	93	51	29	420	110	--	--	--		
MW-4	04-23-98	22.38	6.47	ND	15.91	04-23-98	6,500	700	110	180	1,300	93	--	--	--	0.5	P
MW-4	07-27-98	22.38	7.22	ND	15.16	07-27-98	10,000	1,400	140	290	1,900	<120	--	--	--	1.5	P
MW-4	10-14-98	22.38	7.60	ND	14.78	10-14-98	6,500	900	63	200	1,200	63	--	--	--	1.0	P
MW-4	01-21-99	22.38	7.43	ND	14.95	01-22-99	1,700	140	22	56	320	13	--	--	--	0.5	P
MW-4	05-06-99	22.38	6.55	ND	15.83	05-06-99	3,300	250	36	73	890	41	--	--	--	1.28	P
MW-4	08-23-99	22.38	7.16	ND	15.22	08-24-99	7,400	500	73	230	1,700	57	--	--	--	0.89	P
MW-4	10-28-99	22.38	8.28	ND	14.10	10-28-99	370	41	5.7	14	52	16	--	--	--	0.92	NP
MW-5	03-17-95	20.90	5.51	ND	15.39	03-17-95	48,000	6,400	2,000	740	5,100	--	--	--	--		
MW-5	06-01-95	20.90	6.55	ND	14.35	06-01-95	76,000	11,000	5,400	1,400	7,700	--	--	--	--		
MW-5	08-31-95	20.90	6.80	ND	14.10	08-31-95	53,000	12,000	1,600	1,000	6,000	<500	--	--	--		
MW-5	11-27-95	20.90	7.13	ND	13.77	11-27-95	43,000	7,900	3,300	950	4,900	--	--	--	--		
MW-5	02-22-96	20.90	5.12	ND	15.78	03-14-96	52,000	9,100	3,300	940	5,000	<500	--	--	--		
MW-5	05-20-96	20.90	5.87	ND	15.03	05-21-96	55,000	9,300	3,800	1,100	5,400	<500	--	--	--		
MW-5	08-26-96	20.90	7.15	ND	13.75	08-26-96	47,000	5,300	2,100	780	3,200	<300	--	--	--		
MW-5	11-20-96	20.90	6.88	ND	14.02	11-20-96	53,000	8,700	5,700	920	4,400	<500	--	--	--		

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MW-5	03-24-97	22.45	7.13	ND	15.32	03-24-97	39,000	8,200	3,200	720	3,100	<500	--	--	--		
MW-5	05-23-97	22.45	7.42	ND	15.03	05-23-97	29,000	6,600	1,700	400	1,500	<600	--	--	--		
MW-5	08-19-97	22.45	7.58	ND	14.87	08-19-97	16,000	4,600	790	<50	1,300	<300	--	--	--		
MW-5	11-19-97	22.45	7.58	ND	14.87	11-19-97	22,000	5,800	1,300	380	1,300	<300	--	--	--		
MW-5	02-19-98	22.45	4.65	ND	17.80	02-19-98	40,000	5,100	3,800	620	2,900	<300	--	--	--		
MW-5	04-23-98	22.45	6.25	ND	16.20	04-23-98	45,000	8,000	4,000	970	4,200	<600	--	--	--	1.5	P
MW-5	07-27-98	22.45	6.71	ND	15.74	07-27-98	30,000	8,000	2,000	590	1,900	<600	--	--	--	1.5	P
MW-5	10-14-98	22.45	7.19	ND	15.26	10-14-98	33,000	7,400	1,900	550	1,700	<300	--	--	--	1.5	P
MW-5	01-21-99	22.45	7.03	ND	15.42	01-22-99	34,000	6,200	2,600	630	2,300	<600	--	--	--	2.5	P
MW-5	05-06-99	22.45	7.02	ND	15.43	05-06-99	7,900	2,400	200	240	580	12	--	--	--	1.07	NP
MW-5	08-23-99	22.45	7.04	ND	15.41	08-24-99	25,000	5,800	2,300	570	2,000	67	--	--	--	1.04	P
MW-5	10-28-99	22.45	7.90	ND	14.55	10-28-99	20,000	5,900	1,100	450	1,100	<250	--	--	--	0.87	P
MW-6	03-17-95	22.08	6.66	ND	15.42	03-17-95	45,000	9,300	<100	1,900	3,600	--	--	--	--		
MW-6	06-01-95	22.08	7.60	ND	14.48	06-01-95	23,000	5,600	<50	1,300	1,900	--	--	--	--		
MW-6	08-31-95	22.08	7.92	ND	14.16	08-31-95	26,000	8,000	<100	1,900	900	<500	--	--	--		
MW-6	11-27-95	22.08	8.21	ND	13.87	11-27-95	6,700	1,800	<20	480	230	--	--	--	--		
MW-6	02-22-96	22.08	6.21	ND	15.87	03-14-96	17,000	3,100	69	810	1,500	<300	--	--	--		
MW-6	05-20-96	22.08	7.07	ND	15.01	05-21-96	16,000	3,700	<50	1,100	1,100	<300	--	--	--		
MW-6	08-26-96	22.08	7.93	ND	14.15	08-26-96	23,000	5,800	<50	2,000	560	<300	--	--	--		
MW-6	11-20-96	22.08	8.02	ND	14.06	11-20-96	11,000	3,300	<50[1]	480	370	<300	--	--	--		
MW-6	03-24-97	22.77	7.95	ND	14.82	03-24-97	9,700	1,900	<20	800	270	<100	--	--	--		
MW-6	05-23-97	22.77	8.17	ND	14.60	05-23-97	16,000	4,300	<50	1,400	180	<300	--	--	--		

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ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/Not Purged P/NP
MW-6	08-19-97	22.77	-	ND	NA	08-19-97	Not sampled: well is dry										
MW-6	11-19-97	22.77	-	ND	NA	11-19-97	Not sampled: well is dry										
MW-6	02-19-98	22.77	5.78	ND	16.99	02-19-98	2,600	540	8	90	88	<30	--	--	--		
MW-6	04-23-98	22.77	6.83	ND	15.94	04-24-98	7,600	1,300	13	520	190	<60	--	--	--	0.5	P
MW-6	07-27-98	22.77	7.80	ND	14.97	07-27-98	15,000	3,600	<25	1,100	230	<150	--	--	--	1.0	P
MW-6	10-14-98	22.77	8.31	ND	14.46	10-14-98	8,700	2,400	<20	220	36	<120	--	--	--	2.0	P
MW-6	01-21-99	22.77	7.90	ND	14.87	01-22-99	4,800	1,100	<25	340	79	<150	--	--	--	2.0	P
MW-6	05-06-99	22.77	7.70	ND	15.07	05-06-99	1,300	240	2.3	85	19	5	--	--	--	1.18	P
MW-6	08-23-99	22.77	8.24	ND	14.53	08-24-99	4,200	970	12	110	29	<15	--	--	--	0.90	P
MW-6	10-28-99	22.77	-	ND	NA	10-28-99	Not sampled: well is dry										
MW-7	03-17-95	22.89	7.68	ND	15.21	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-7	06-01-95	22.89	8.40	ND	14.49	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-7	08-31-95	22.89	9.09	ND	13.80	08-31-95	<50	<0.5	<0.5	0.6	<0.5	<3	--	--	--		
MW-7	11-27-95	22.89	9.15	ND	13.74	11-27-95	<50	<0.5	<0.5	0.9	<0.5	--	--	--	--		
MW-7	02-22-96	22.89	7.44	ND	15.45	03-14-96	110	1.4	<0.5	3.8	3.0	<3	--	--	--		
MW-7	05-20-96	22.89	8.47	ND	14.42	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-7	08-26-96	22.89	8.81	ND	14.08	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-7	11-20-96	22.89	9.17	ND	13.72	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-7	03-24-97	22.89	8.31	ND	14.58	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-7	05-23-97	22.89	9.26	ND	13.63	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-7	08-19-97	22.89	-	ND	NA	08-19-97	Not sampled: well is dry										
MW-7	11-19-97	22.89	-	ND	NA	11-19-97	Not sampled: well is dry										

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MW-7	02-19-98	22.89	6.13	ND	16.76	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-7	04-23-98	22.89	7.44	ND	15.45	04-23-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-7	07-27-98	22.89	8.75	ND	14.14	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-7	10-14-98	22.89	9.22	ND	13.67	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-7	01-21-99	22.89	9.07	ND	13.82	01-22-99	52	<0.5	<0.5	<0.5	0.27	<3	--	--	--	3.0	P
MW-7	05-06-99	22.89	8.32	ND	14.57	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.83	P
MW-7	08-23-99	22.89	9.25	ND	13.64	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.42	P
MW-7	10-28-99	22.89	-	ND	NA	10-28-99	Not sampled: well is dry										
MW-8	03-17-95	20.97	6.14	ND	14.83	03-17-95	5,400	<5	<5	35	<5	--	--	--	--		
MW-8	06-01-95	20.97	6.50	ND	14.47	06-01-95	2,600	<2.5	<2.5	15	<2.5	--	--	--	--		
MW-8	08-31-95	20.97	7.35	ND	13.62	08-31-95	1,400	<3	<3	5	<3	520	--	900	--		
MW-8	11-27-95	20.97	7.60	ND	13.37	11-27-95	620	<0.5	<0.5	<0.5	0.5	--	560	900	510[1]		
MW-8	02-22-96	20.97	5.35	ND	15.62	03-14-96	5,800	<5	<5	28	<5	110	--	1,900	6,800[1]		
MW-8	05-20-96	20.97	5.92	ND	15.05	05-21-96	6,100	<5	<5	26	<5	240	--	--	--		
MW-8	08-26-96	20.97	7.08	ND	13.89	08-26-96	970	<1	<1	3	<1	710	--	--	--		
MW-8	11-20-96	20.97	7.01	ND	13.96	11-20-96	3,900	<2.5	<2.5	12	<2.5	930	--	--	--		
MW-8	03-24-97	20.89	7.33	ND	13.56	03-24-97	1,400	<10	<10	<10	12	1,300	--	--	--		
MW-8	05-23-97	20.89	7.55	ND	13.34	05-23-97	730	<5	<5	<5	<5	630	--	--	--		
MW-8	08-19-97	20.89	7.87	ND	13.02	08-19-97	<500	<5	<5	<5	<5	290	--	--	--		
MW-8	11-19-97	20.89	7.87	ND	13.02	11-19-97	<200	<2	<2	<2	<2	260	--	--	--		
MW-8	02-19-98	20.89	4.46	ND	16.43	02-19-98	2,000	<2	<2	9	<2	140	--	--	--		
MW-8	04-23-98	20.89	6.35	ND	14.54	04-24-98	4,500	<5	<5	<5	11	590	--	--	--	0.5	P

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MW-8	07-27-98	20.89	7.43	ND	13.46	07-27-98	Not sampled										
MW-8	10-14-98	20.89	7.79	ND	13.10	10-14-98	Not sampled										
MW-8	01-21-99	20.89	6.54	ND	14.35	01-22-99	2,000	<2	<2	3	<2	320	--	--	--	2.5	P
MW-8	05-06-99	20.89	7.30	ND	13.59	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	160	--	--	--	12.76	NP
MW-8	08-23-99	20.89	7.45	ND	13.44	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	5	--	--	--	7.85	NP
MW-8	10-28-99	20.89	8.22	ND	12.67	10-28-99	160	<0.5	<0.5	<0.5	<1	45	--	--	--	0.84	P
MW-9	03-17-95	20.89	6.94	ND	13.95	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-9	06-01-95	20.89	8.15	ND	12.74	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-9	08-31-95	20.89	8.10	ND	12.79	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	11-27-95	20.89	8.38	ND	12.51	11-27-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-9	02-22-96	20.89	7.36	ND	13.53	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	05-20-96	20.89	7.81	ND	13.08	05-21-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	08-26-96	20.89	8.00	ND	12.89	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	11-20-96	20.89	7.06	ND	13.83	11-20-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	03-24-97	22.26	7.74	ND	14.52	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	05-23-97	22.26	8.28	ND	13.98	05-23-97	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	08-19-97	22.26	8.32	ND	13.94	08-19-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	11-19-97	22.26	8.32	ND	13.94	11-19-97	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	02-19-98	22.26	7.11	ND	15.15	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	04-23-98	22.26	8.18	ND	14.08	04-23-98	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	07-27-98	22.26	7.97	ND	14.29	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	3.6	P
MW-9	10-14-98	22.26	8.29	ND	13.97	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	2.5	P

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MW-9	01-21-99	22.26	7.63	ND	14.63	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-9	05-06-99	22.26	7.27	ND	14.99	05-06-99	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	08-23-99	22.26	8.24	ND	14.02	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.93	P
MW-9	10-28-99	22.26	8.63	ND	13.63	10-28-99	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-10	03-17-95	21.12	6.26	ND	14.86	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-10	06-01-95	21.12	7.63	ND	13.49	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-10	08-31-95	21.12	8.17	ND	12.95	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	11-27-95	21.12	8.38	ND	12.74	11-27-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-10	02-22-96	21.12	5.41	ND	15.71	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	05-20-96	21.12	6.78	ND	14.34	05-21-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-10	08-26-96	21.12	8.00	ND	13.12	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	11-20-96	21.12	7.81	ND	13.31	11-20-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-10	03-24-97	21.33	7.87	ND	13.46	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	05-23-97	21.33	8.33	ND	13.00	05-23-97	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-10	08-19-97	21.33	8.39	ND	12.94	08-19-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	11-19-97	21.33	8.39	ND	12.94	11-19-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	02-19-98	21.33	4.65	ND	16.68	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	04-23-98	21.33	6.28	ND	15.05	04-23-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-10	07-27-98	21.33	7.97	ND	13.36	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	3.3	P
MW-10	10-14-98	21.33	8.41	ND	12.92	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.0	P
MW-10	01-21-99	21.33	6.65	ND	14.68	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-10	05-06-99	21.33	7.74	ND	13.59	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.76	P

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MW-10	08-23-99	21.33	8.37	ND	12.96	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.21	P
MW-10	10-28-99	21.33	8.73	ND	12.60	10-28-99	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	1.12	P
MW-11	03-17-95	22.38	6.94	ND	15.44	03-17-95	100	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-11	06-01-95	22.38	7.90	ND	14.48	06-01-95	210	<0.5	<0.5	0.9	0.7	--	--	--	--		
MW-11	08-31-95	22.38	8.18	ND	14.20	08-31-95	680	<0.5	<0.5	4	1.8	<3	--	--	--		
MW-11	11-27-95	22.38	8.48	ND	13.90	11-27-95	340	<0.5	<0.5	2.2	1.6	--	--	--	--		
MW-11	02-22-96	22.38	6.63	ND	15.75	03-14-96	150	<0.5	<0.5	<0.8	0.8	<3	--	--	--		
MW-11	05-20-96	22.38	7.25	ND	15.13	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-11	08-26-96	22.38	8.22	ND	14.16	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-11	11-20-96	22.38	8.37	ND	14.01	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-11	03-24-97	20.97	8.15	ND	12.82	03-24-97	63	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-11	05-23-97	20.97	8.48	ND	12.49	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-11	08-19-97	20.97	8.67	ND	12.30	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-11	11-19-97	20.97	8.67	ND	12.30	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-11	02-19-98	20.97	6.25	ND	14.72	02-19-98	<50	<0.5	1.6	<0.5	1.8	7	--	--	--		
MW-11	04-23-98	20.97	7.23	ND	13.74	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-11	07-27-98	20.97	8.05	ND	12.92	07-27-98	Not sampled: well sampled annually, during the first quarter										
MW-11	10-14-98	20.97	8.58	ND	12.39	10-14-98	Not sampled: well sampled annually, during the first quarter										
MW-11	01-21-99	20.97	8.25	ND	12.72	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-11	05-06-99	20.97	7.95	ND	13.02	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-11	08-23-99	20.97	8.51	ND	12.46	08-24-99	Not sampled: well sampled annually, during the first quarter										
MW-11	10-28-99	20.97	8.95	ND	12.02	10-28-99	Not sampled: well sampled annually, during the first quarter										

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MW-12	03-17-95	22.77	7.09	ND	15.68	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-12	06-01-95	22.77	8.40	ND	14.37	06-01-95	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-12	08-31-95	22.77	8.55	ND	14.22	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	11-27-95	22.77	8.95	ND	13.82	11-27-95	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-12	02-22-96	22.77	6.81	ND	15.96	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	05-20-96	22.77	7.56	ND	15.21	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-12	08-26-96	22.77	8.63	ND	14.14	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-12	11-20-96	22.77	8.38	ND	14.39	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-12	03-24-97	20.11	8.75	ND	11.36	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	05-23-97	20.11	8.92	ND	11.19	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-12	08-19-97	20.11	9.20	ND	10.91	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-12	11-19-97	20.11	9.20	ND	10.91	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-12	02-19-98	20.11	6.28	ND	13.83	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	04-23-98	20.11	7.52	ND	12.59	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-12	07-27-98	20.11	8.52	ND	11.59	07-27-98	Not sampled: well sampled annually, during the first quarter										
MW-12	10-14-98	20.11	9.06	ND	11.05	10-14-98	Not sampled: well sampled annually, during the first quarter										
MW-12	01-21-99	20.11	8.20	ND	11.91	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-12	05-06-99	20.11	8.47	ND	11.64	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-12	08-23-99	20.11	9.04	ND	11.07	08-24-99	Not sampled: well sampled annually, during the first quarter										0.85
MW-12	10-28-99	20.11	9.40	ND	10.71	10-28-99	Not sampled: well sampled annually, during the first quarter										
MW-13	03-17-95	22.45	6.91	ND	15.54	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-13	06-01-95	22.45	7.72	ND	14.73	06-01-95	Not sampled: well sampled annually, during the first quarter										

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-13	08-31-95	22.45	7.58	ND	14.87	08-31-95	Not sampled: well sampled annually, during the first quarter										
MW-13	11-27-95	22.45	7.98	ND	14.47	11-27-95	Not sampled: well sampled annually, during the first quarter										
MW-13	02-22-96	22.45	6.71	ND	15.74	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-13	05-20-96	22.45	6.98	ND	15.47	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-13	08-26-96	22.45	7.85	ND	14.60	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-13	11-20-96	22.45	7.76	ND	14.69	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-13	03-24-97	20.75	7.85	ND	12.90	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-13	05-23-97	20.75	8.16	ND	12.59	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-13	08-19-97	20.75	8.40	ND	12.35	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-13	11-19-97	20.75	8.40	ND	12.35	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-13	02-19-98	20.75	6.44	ND	14.31	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-13	04-23-98	20.75	6.80	ND	13.95	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-13	07-27-98	20.75	7.52	ND	13.23	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-13	10-14-98	20.75	8.15	ND	12.60	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	2.0	P
MW-13	01-21-99	20.75	7.85	ND	12.90	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-13	05-06-99	20.75	7.82	ND	12.93	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-13	08-23-99	20.75	8.29	ND	12.46	08-24-99	Not sampled: well sampled annually, during the first quarter										
MW-13	10-28-99	20.75	8.55	ND	12.20	10-28-99	Not sampled: well sampled annually, during the first quarter										
MW-14	03-17-95	22.99	8.17	ND	14.82	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-14	06-01-95	22.99	8.57	ND	14.42	06-01-95	Not sampled: well sampled annually, during the first quarter										
MW-14	08-31-95	22.99	9.05	ND	13.94	08-31-95	Not sampled: well sampled annually, during the first quarter										
MW-14	11-27-95	22.99	9.19	ND	13.80	11-27-95	Not sampled: well sampled annually, during the first quarter										

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-14	02-22-96	22.99	6.52	ND	16.47	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-14	05-20-96	22.99	7.88	ND	15.11	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-14	08-26-96	22.99	8.83	ND	14.16	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-14	11-20-96	22.99	8.95	ND	14.04	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-14	03-24-97	20.90	8.98	ND	11.92	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-14	05-23-97	20.90	9.61	ND	11.29	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-14	08-19-97	20.90	9.80	ND	11.10	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-14	11-19-97	20.90	9.80	ND	11.10	11-19-97	<50	1.7	<0.5	0.6	3	<3					
MW-14	02-19-98	20.90	6.27	ND	14.63	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-14	04-23-98	20.90	7.75	ND	13.15	04-23-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-14	07-27-98	20.90	9.24	ND	11.66	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.0	P
MW-14	10-14-98	20.90	9.73	ND	11.17	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.0	P
MW-14	01-21-99	20.90	8.90	ND	12.00	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-14	05-06-99	20.90	8.98	ND	11.92	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.73	P
MW-14	08-23-99	20.90	9.68	ND	11.22	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.91	P
MW-14	10-28-99	20.90	10.00	ND	10.90	10-28-99	<50	<0.5	<0.5	<0.5	<1	<10	--	--	--	1.06	P
MW-15	03-17-95	19.19	5.21	ND	13.98	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-15	06-01-95	19.19	5.84	ND	13.35	06-01-95	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-15	08-31-95	19.19	6.18	ND	13.01	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-15	11-27-95	19.19	6.42	ND	12.77	11-27-95	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-15	02-22-96	19.19	4.84	ND	14.35	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	12	--	--	--		
MW-15	05-20-96	19.19	5.31	ND	13.88	05-21-96	Not sampled: well sampled semi-annually, during the first and third quarters										

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-15	08-26-96	19.19	6.05	ND	13.14	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	8	--	--	--		
MW-15	11-20-96	19.19	5.46	ND	13.73	11-20-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-15	03-24-97	22.08	6.00	ND	16.08	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	15	--	--	--		
MW-15	05-23-97	22.08	6.25	ND	15.83	05-23-97	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-15	08-19-97	22.08	6.34	ND	15.74	08-19-97	99[1]	<0.5	<0.5	<0.5	0.7	6	--	--	--		
MW-15	11-19-97	22.08	6.34	ND	15.74	11-19-97	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-15	02-19-98	22.08	4.66	ND	17.42	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	48	--	--	--		
MW-15	04-23-98	22.08	5.18	ND	16.90	04-23-98	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-15	07-27-98	22.08	6.02	ND	16.06	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	50	--	--	--	1.0	P
MW-15	10-14-98	22.08	6.26	ND	15.82	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	27	--	--	--	1.5	P
MW-15	01-21-99	22.08	5.33	ND	16.75	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	6	--	--	--	1.0	P
MW-15	05-06-99	22.08	5.82	ND	16.26	05-06-99	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-15	08-23-99	22.08	6.24	ND	15.84	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	21	--	--	--	1.14	P
MW-15	10-28-99	22.08	6.60	ND	15.48	10-28-99	Not sampled: well sampled semi-annually, during the first and third quarters										

Table 2
Groundwater Flow Direction and Gradient

ARCO Service Station No. 601
712 Lewelling Boulevard, San Leandro, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
03/17/95	West-Southwest	0.006
06/01/95	Southwest	0.003
08/31/95	South-Southwest	0.005
11/27/95	South-Southwest	0.004
02/22/96	Northwest	0.007
05/20/96	Southwest	0.007
08/26/96	South-Southwest	0.004
11/20/96	South-Southeast	0.004
03/24/97	Southeast	0.013
05/23/97	Southeast	0.014
08/19/97	Southeast	0.04
11/19/97	Southeast	0.016
02/19/98	East	Variable
04/23/98	Variable	Variable
07/27/98	Southeast	0.05
10/14/98	Southeast	0.02
01/21/99	East	0.04
05/06/99	Southeast	0.05
08/23/99	Southeast	0.02
10/28/99	Southeast	0.04

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
ft-MSL: elevation in feet, relative to mean sea level TPHG: total petroleum hydrocarbons as gasoline, California DHS LUFT Method MTBE: Methyl tert-butyl ether TRPH: total recoverable petroleum hydrocarbons TPHD: total petroleum hydrocarbons as diesel, California DHS LUFT Method µg/L: micrograms per liter mg/L: milligrams per liter ND: none detected DRY: dry well; groundwater was not detected -- : not analyzed [1]: Sample contains a higher boiling point hydrocarbon mixture quantitated as gasoline. The chromatogram did not match the typical gasoline fingerprint. *: EPA method 8020 prior to 10/28/99 **: [corrected elevation (Z')] = Z + (h * 0.73) where: Z = measured elevation, h = floating product thickness, 0.73 = density ratio of oil to water ***: For previous historical groundwater elevation and analytical data please refer to <i>Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California</i> , (EMCON, March 14, 1996).																	

Table 3
Historical Groundwater Analytical Data
Metals*
1995 - Present**

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Sample Field Date	Cadmium EPA 6010 µg/L	Chromium EPA 6010 µg/L	Lead EPA 7421 µg/L	Nickel EPA 6010 µg/L	Zinc EPA 6010 µg/L
MW-1	03-17-95	<5	20	20	<40	60
MW-1	06-01-95	<5	20	22	70	100
MW-1	08-31-95	Not sampled: well contained floating product				
MW-1	11-27-95	Not sampled: well contained floating product				
MW-1	03-14-96	Not sampled: well contained floating product				
MW-1	05-21-96	0.006	<0.01	<0.005	<0.02	<0.02
MW-1	08-26-96	--	--	--	--	--
MW-1	11-20-96	--	--	--	--	--
MW-1	03-24-97	--	--	--	--	--
MW-1	05-23-97	Not analyzed: well MW-8 was sampled for additional parameters in lieu of well MW-1				
MW-1	08-19-97	--	--	--	--	--
MW-1	11-19-97	--	--	--	--	--
MW-1	02-19-98	<0.01	<0.01	<0.05	<0.02	<0.02
MW-1	04-23-98	--	--	--	--	--
MW-1	07-27-98	--	--	--	--	--
MW-1	10-14-98	--	--	--	--	--
MW-1	01-22-99	<0.005	<0.01	<0.05	<0.02	<0.02
MW-1	05-06-99	--	--	--	--	--
MW-1	08-24-99	--	--	--	--	--
MW-1	10-28-99	--	--	--	--	--
MW-8	08-31-95	<5	40	16	50	90
MW-8	11-27-95	<5	130	77	170	280
MW-8	03-14-96	<5	30	7	40	60
MW-8	05-23-97	<0.005	<0.01	<0.005	<0.02	<0.02

EPA: United States Environmental Protection Agency

mg/L: micrograms per liter

--: not analyzed

*: Historically samples were analyzed for total metals. Since March 14, 1996, the samples were filtered and analyzed for dissolved metals

**: For previous historical analytical data please refer to *Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California*, (EMCON, March 14, 1996).

Table 4
Historical Groundwater Analytical Data
Volatile and Semivolatile Organic Compounds
1995 - Present*

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation Water Sample Field Date	Volatile Organic Compounds by EPA Method 601/8010 or 624/8240							Semivolatile Organic Compounds by EPA Method 3520/8270				
	Methylene Chloride µg/L	1,2-Dichloro- ethane µg/L	1,1-Dichloro- ethane µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Naphthalene µg/L	2-Methyl- naphthalene µg/L	Bis (2-ethylhexyl) Phthalate µg/L	Phenol µg/L	2,4-Di-methyl- phenol µg/L
MW-1 03-17-95	--	--	--	--	--	--	--	1300	730	<50	ND	150
MW-1 06-01-95	--	--	--	--	--	--	--	2200	1700	<100	240	<100
MW-1 08-31-95	Not sampled: well contained floating product											
MW-1 11-27-95	Not sampled: well contained floating product											
MW-1 03-14-96	Not sampled: well contained floating product											
MW-1 05-21-96	--	--	--	--	--	--	--	1200	860	<50	<50	<50
MW-1 08-26-96	--	--	--	--	--	--	--	2300	1800	<500	<500	<1000
MW-1 11-20-96	--	--	--	--	--	--	--	590	250	91	<50	<100
MW-1 03-24-97	--	--	--	--	--	--	--	730	610	<50	<50	<100
MW-1 05-23-97	Not analyzed: well MW-8 was sampled for additional parameters in lieu of well MW-1											
MW-1 08-19-97	--	--	--	--	--	--	--	1,300	790	<50	<50	<100
MW-1 11-19-97	--	--	--	--	--	--	--	<5	<5	5	<5	<10
MW-1 02-19-98	--	--	--	--	--	--	--	870	330	<50	<50	<100
MW-1 04-23-98	Not analyzed											
MW-1 07-27-98	Not analyzed											
MW-1 10-14-98	Not analyzed											
MW-1 01-28-99**	--	--	--	--	--	--	--	950	580	<50	<50	<100
MW-1 05-06-99	Not analyzed											
MW-1 08-24-99	--	--	--	--	--	--	--	1,200	400	<50	<50	<100
MW-1 10-28-99	--	--	--	--	--	--	--	1,100	320	<50	<50	<100

Table 4
Historical Groundwater Analytical Data
Volatile and Semivolatile Organic Compounds
1995 - Present*

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation Water Sample Field Date	Volatile Organic Compounds by EPA Method 601/8010 or 624/8240							Semivolatile Organic Compounds by EPA Method 3520/8270				
	Methylene Chloride µg/L	1,2-Dichloro- ethane µg/L	1,1-Dichloro- ethane µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Naphthalene µg/L	2-Methyl- naphthalene µg/L	Bis (2-ethylhexyl) Phthalate µg/L	Phenol µg/L	2,4-Di-methyl- phenol µg/L
MW-8 08-31-95	--	--	--	--	--	--	--	62	8	<5	<5	<5
MW-8 11-27-95	--	--	--	--	--	--	--	15	<5	<5	<5	<5
MW-8 03-14-96	--	--	--	--	--	--	--	400	55	<50	<50	<50
MW-8 05-23-97	--	--	--	--	--	--	--	26	<5	<5	<5	<10
EPA: United States Environmental Protection Agency µg/L: micrograms per liter -- : not analyzed < = less than the laboratory detection limit stated to the right *: For previous historical analytical data please refer to <i>Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California</i> , (EMCON, March 14, 1996). **: Sampling date is different from Groundwater Monitoring Field Date												

Table 5
Approximate Cumulative Floating Product Recovered

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Date	Floating Product Recovered gallons
MW-1	1991	3.43
MW-1	1992	0.02
MW-1	1993	0.00
MW-1	1994	0.00
MW-1	1995	0.00
MW-1	1996	0.00
MW-1	1997	0.00
MW-1	1998	0.00
MW-1	1999	0.00
MW-1	2000	0.00
1991 to 2000 Total:		3.45

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

01/21/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #601, San Leandro, C
Work Order Number:	MLG0480
Global ID:	T0600100108
Lab Report Number:	MLG0480080120020842

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctf	Run	Sub
MLG04800801200	MW-1	MLG048001	W	CS	8270SIM	SW3510B	07/23/02	07/30/02	07/31/02	2G30008	1	
20842												
MLG04800801200	MW-1	MLG048001	W	CS	SW8020F	SW5030B	07/23/02	07/25/02	07/25/02	2G25002	1	
20842												
MLG04800801200	MW-10	MLG048009	W	CS	SW8020F	SW5030B	07/23/02	07/25/02	07/25/02	2G25002	1	
20842												
MLG04800801200	MW-14	MLG048006	W	CS	SW8020F	SW5030B	07/23/02	07/25/02	07/25/02	2G25002	1	
20842												
MLG04800801200	MW-15	MLG048007	W	CS	SW8020F	SW5030B	07/23/02	07/25/02	07/25/02	2G25002	1	
20842												
MLG04800801200	MW-3	MLG048002	W	CS	SW8020F	SW5030B	07/23/02	07/25/02	07/25/02	2G25002	1	
20842												
MLG04800801200	MW-4	MLG048003	W	CS	SW8020F	SW5030B	07/23/02	07/29/02	07/30/02	2G30020	1	
20842												
MLG04800801200	MW-5	MLG048004	W	CS	SW8020F	SW5030B	07/23/02	07/29/02	07/30/02	2G30020	1	
20842												
MLG04800801200	MW-8	MLG048005	W	CS	SW8020F	SW5030B	07/23/02	07/25/02	07/25/02	2G25002	1	
20842												
MLG04800801200	MW-9	MLG048008	W	CS	SW8020F	SW5030B	07/23/02	07/25/02	07/25/02	2G25002	1	
20842												
		2G25002BS1	WQ	BS1	SW8020F	SW5030B	//	07/25/02	07/25/02	2G25002	1	
		2G25002BS2	WQ	BS2	SW8020F	SW5030B	//	07/25/02	07/25/02	2G25002	1	
		2G25002BLK1	WQ	LB1	SW8020F	SW5030B	//	07/25/02	07/25/02	2G25002	1	
		2G25002MS1	W	MS1	SW8020F	SW5030B	//	07/25/02	07/25/02	2G25002	1	
		2G25002MSD1	W	SD1	SW8020F	SW5030B	//	07/25/02	07/25/02	2G25002	1	
		2G30008BSD1	WQ	BD1	8270SIM	SW3510B	//	07/30/02	07/31/02	2G30008	1	
		2G30008BS1	WQ	BS1	8270SIM	SW3510B	//	07/30/02	07/31/02	2G30008	1	
		2G30008BLK1	WQ	LB1	8270SIM	SW3510B	//	07/30/02	07/31/02	2G30008	1	
		2G30020BSD1	WQ	BD1	SW8020F	SW5030B	//	07/29/02	07/29/02	2G30020	1	
		2G30020BSD2	WQ	BD2	SW8020F	SW5030B	//	07/29/02	07/29/02	2G30020	1	
		2G30020BS1	WQ	BS1	SW8020F	SW5030B	//	07/29/02	07/29/02	2G30020	1	
		2G30020BS2	WQ	BS2	SW8020F	SW5030B	//	07/29/02	07/29/02	2G30020	1	
		2G30020BLK1	WQ	LB1	SW8020F	SW5030B	//	07/29/02	07/29/02	2G30020	1	

EDFSAMP: Error Summary Log

01/21/03

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
There are no errors in this data file					

EDFTEST: Error Summary Log

01/21/03

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					//	0

EDFRES: Error Summary Log

01/21/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2G25002MS1	MS1	W	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	2G25002MS1	MS1	W	SW8020F	PR	07/25/02	1	GROC6C10
Warning: extra parameter	2G25002MSD1	SD1	W	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	2G25002MSD1	SD1	W	SW8020F	PR	07/25/02	1	GROC6C10
Warning: extra parameter	MLG048001	CS	W	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	MLG048001	CS	W	SW8020F	PR	07/25/02	1	GROC6C10
Warning: extra parameter	MLG048001	CS	W	SW8020F	PR	07/25/02	1	MTBE
Warning: extra parameter	MLG048002	CS	W	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	MLG048002	CS	W	SW8020F	PR	07/25/02	1	GROC6C10
Warning: extra parameter	MLG048002	CS	W	SW8020F	PR	07/25/02	1	MTBE
Warning: extra parameter	MLG048003	CS	W	SW8020F	PR	07/30/02	1	AAATFBZME
Warning: extra parameter	MLG048003	CS	W	SW8020F	PR	07/30/02	1	GROC6C10
Warning: extra parameter	MLG048003	CS	W	SW8020F	PR	07/30/02	1	MTBE
Warning: extra parameter	MLG048004	CS	W	SW8020F	PR	07/30/02	1	AAATFBZME
Warning: extra parameter	MLG048004	CS	W	SW8020F	PR	07/30/02	1	GROC6C10
Warning: extra parameter	MLG048004	CS	W	SW8020F	PR	07/30/02	1	MTBE
Warning: extra parameter	MLG048005	CS	W	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	MLG048005	CS	W	SW8020F	PR	07/25/02	1	GROC6C10
Warning: extra parameter	MLG048005	CS	W	SW8020F	PR	07/25/02	1	MTBE
Warning: extra parameter	MLG048006	CS	W	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	MLG048006	CS	W	SW8020F	PR	07/25/02	1	GROC6C10
Warning: extra parameter	MLG048006	CS	W	SW8020F	PR	07/25/02	1	MTBE
Warning: extra parameter	MLG048007	CS	W	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	MLG048007	CS	W	SW8020F	PR	07/25/02	1	GROC6C10
Warning: extra parameter	MLG048007	CS	W	SW8020F	PR	07/25/02	1	MTBE

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MLG048008	CS	W	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	MLG048008	CS	W	SW8020F	PR	07/25/02	1	GROC6C10
Warning: extra parameter	MLG048008	CS	W	SW8020F	PR	07/25/02	1	MTBE
Warning: extra parameter	MLG048009	CS	W	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	MLG048009	CS	W	SW8020F	PR	07/25/02	1	GROC6C10
Warning: extra parameter	MLG048009	CS	W	SW8020F	PR	07/25/02	1	MTBE
Warning: extra parameter	2G25002BLK1	LB1	WQ	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	2G25002BLK1	LB1	WQ	SW8020F	PR	07/25/02	1	GROC6C10
Warning: extra parameter	2G25002BLK1	LB1	WQ	SW8020F	PR	07/25/02	1	MTBE
Warning: extra parameter	2G25002BS1	BS1	WQ	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	2G25002BS2	BS2	WQ	SW8020F	PR	07/25/02	1	AAATFBZME
Warning: extra parameter	2G25002BS2	BS2	WQ	SW8020F	PR	07/25/02	1	GROC6C10
Warning: extra parameter	2G30020BLK1	LB1	WQ	SW8020F	PR	07/29/02	1	AAATFBZME
Warning: extra parameter	2G30020BLK1	LB1	WQ	SW8020F	PR	07/29/02	1	GROC6C10
Warning: extra parameter	2G30020BLK1	LB1	WQ	SW8020F	PR	07/29/02	1	MTBE
Warning: extra parameter	2G30020BS1	BS1	WQ	SW8020F	PR	07/29/02	1	AAATFBZME
Warning: extra parameter	2G30020BS2	BS2	WQ	SW8020F	PR	07/29/02	1	AAATFBZME
Warning: extra parameter	2G30020BS2	BS2	WQ	SW8020F	PR	07/29/02	1	GROC6C10
Warning: extra parameter	2G30020BSD1	BD1	WQ	SW8020F	PR	07/29/02	1	AAATFBZME
Warning: extra parameter	2G30020BSD2	BD2	WQ	SW8020F	PR	07/29/02	1	AAATFBZME
Warning: extra parameter	2G30020BSD2	BD2	WQ	SW8020F	PR	07/29/02	1	GROC6C10

EDFQC: Error Summary Log

01/21/03

Error type	Lablotcti	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

01/21/03

Error type	Cirevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	11				

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