



Atlantic Richfield Company
(a BP affiliated company)

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Alameda County



JUN 25 2003

Environmental Health

June 19, 2003

Re: Second Quarter 2003 Monitoring Report
BP Station 6113
785 East Stanley Blvd.
Livermore, CA.

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



June 10, 2003

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: Semi-Annual 2003 Groundwater Monitoring Report
ARCO Service Station #6113
785 East Stanley Boulevard
Livermore, California
URS Project # 38486132**

Dear Ms. Chu:

On behalf of Atlantic Richfield Company (ARCO - an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Semi-Annual 2003 Groundwater Monitoring Report* for ARCO Service Station #6113, 785 East Stanley Boulevard, Livermore, California.

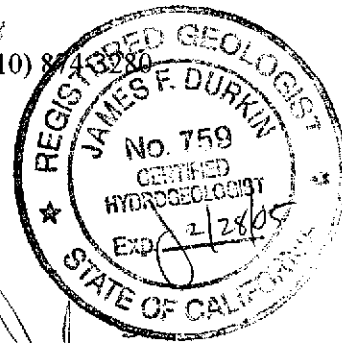
If you have any questions regarding this submission, please call (510) 874-3280

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

James F. Durkin, C.Hg.
Senior Geologist



Enclosure: Semi-Annual 2003 Groundwater Monitoring Report

cc: Mr. Paul Smith, Livermore-Pleasanton Fire Department, 3560 Nevada St., Pleasanton, CA, 94566
Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

R E P O R T

**SEMI-ANNUAL 2003
GROUNDWATER MONITORING**

ARCO SERVICE STATION #6113
785 EAST STANLEY BOULEVARD
LIVERMORE, CALIFORNIA

Prepared for
Atlantic Richfield Company

June 10, 2003

URS

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

38486132

Date: June 10, 2003

Quarter: 2Q 03

ATLANTIC RICHFIELD COMPANY SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Facility No.: 6113 Address: 785 East Stanley Boulevard, Livermore, California
Atlantic Richfield Co. Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486132
Primary Agency: Alameda County Health Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (Second – 2003):

1. Performed second quarter 2003 groundwater monitoring event on May 1, 2003.
2. Prepared and submitted semi-annual 2003 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Third – 2003):

1. Prepare and submit third quarter 2003 groundwater status report.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Annually (4th Quarter): Wells MW-1 through MW-3, MW-8 through MW-10
Semi-Annually (2nd/4th Quarter): Wells MW-4, MW-6, MW-7, MW-11 through MW-13, VW-1;
Frequency of Groundwater Monitoring: Semi-Annual
Is Free Product (FP) Present On-Site: No
Bulk Soil Removed to Date: 288 cubic yards of TPH impacted soil
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 16.47 (MW-8) to 20.55 (MW-11) feet
Groundwater Gradient (direction): North-Northeast
Groundwater Gradient (magnitude): 0.011 feet per foot

DISCUSSION:

TPH-g was detected in three of the six wells sampled this quarter at concentrations ranging from 120 micrograms per liter ($\mu\text{g/L}$) in well MW-4 to 21,000 $\mu\text{g/L}$ in well MW-13. Benzene was detected in four wells at concentrations ranging from 1.3 $\mu\text{g/L}$ in well MW-4 to 230 $\mu\text{g/L}$ in well MW-13. MTBE was detected in six wells at concentrations ranging from 1.5 $\mu\text{g/L}$ in well MW-11 to 1,600 $\mu\text{g/L}$ in well MW-13.

We recommend removing wells MW-1, MW-2 and MW-8 from the annual sampling event. These wells are the farthest upgradient and have had no detections of the constituents of concern above the reporting limits since 1995. There are three other upgradient wells that have constituents at non-detectable levels that will continue to be sampled annually: MW-3, MW-9, and MW-10.

ATTACHMENTS:

- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Groundwater Flow Direction and Gradient
- Table 3 - Fuel Oxygenate Analytical Data
- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – May 1, 2003
- Attachment A - Field Procedures and Field Data Sheets
- Attachment B - Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C - EDCC and EDF/Geowell Submittal Confirmation

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-1	03/23/95	457.04	14.12	442.92	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95		14.45	442.59	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95		17.12	439.92	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95		16.34	440.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96		13.23	443.81	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96		14.02	443.02	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96		16.13	440.91	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96		17.28	439.76	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97		14.91	442.13	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97		16.47	440.57	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98		14.69	442.35	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98		25.94	431.10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	06/04/99		17.38	439.66	Not sampled: well sampled annually, during the fourth quarter							
	11/11/99		P	18.63	438.41	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	1.03
	06/20/00			17.09	439.95	Not sampled: well sampled annually, during the fourth quarter						
	08/29/00			18.20	438.84	Not sampled: well sampled annually, during the fourth quarter						
	11/29/00		P	20.30	436.74	ND<50.0	ND<0.500	ND<0.500	ND<0.500	1.36	ND<2.50	0.71
	05/02/01			22.39	434.65	Not sampled: well sampled annually, during the fourth quarter						
	08/15/01			24.97	432.07	Not sampled: well sampled annually, during the fourth quarter						
	10/05/01		P	25.09	431.95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	0.78
01/21/02		24.58	432.46	Not sampled: well sampled annually, during the fourth quarter								
04/26/02		24.19	432.85	Not sampled: well sampled annually, during the fourth quarter								
10/0702	P	20.13	436.91	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	1.8	
05/01/03 ³		17.98	439.06	Not sampled: well sampled annually, during the fourth quarter								

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Livermore, California

Well Number	Date Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH			Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-2	03/23/95	457.74	14.15	443.59	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95		14.67	443.07	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95		17.24	440.50	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95		16.40	441.34	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96		13.55	444.19	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96		14.29	443.45	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96		16.19	441.55	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96		17.50	440.24	65	0.6	7.4	2.1	12	5		
	03/27/97		15.32	442.42	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97		16.62	441.12	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98		15.12	442.62	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98		26.66	431.08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	06/04/99		17.74	440.00	Not sampled: well sampled annually, during the fourth quarter							
	11/11/99	P	18.75	438.99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		0.82
	06/20/00		17.21	440.53	Not sampled: well sampled annually, during the fourth quarter							2.6
	08/29/00		18.25	439.49	Not sampled: well sampled annually, during the fourth quarter							2.65
	11/29/00	P	20.69	437.05	ND<50.0	ND<0.500	0.581	0.827	4.38	ND<2.50		0.88
	05/02/01		22.69	435.05	Not sampled: well sampled annually, during the fourth quarter							
	08/15/01		25.15	432.59	Not sampled: well sampled annually, during the fourth quarter							
	10/05/01	P	25.22	432.52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.80
	01/21/02		24.70	433.04	Not sampled: well sampled annually, during the fourth quarter							
	04/26/02		24.53	433.21	Not sampled: well sampled annually, during the fourth quarter							
	10/07/02	P	19.45	438.29	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	1.5
	05/01/03 ³		18.18	439.56	Not sampled: well sampled annually, during the fourth quarter							

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Well Number	Date Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-3	03/23/95	456.97	14.13	442.84	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95		14.46	442.51	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95		17.06	439.91	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95		16.27	440.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96		13.14	443.83	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96		13.95	443.02	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96		16.03	440.94	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96		17.26	439.71	ND<50	ND<0.5	0.9	ND<0.5	1.5	ND<3		
	03/27/97		14.85	442.12	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97		16.40	440.57	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98		14.66	442.31	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98		25.85	431.12	ND<1,000	ND<10	ND<10	ND<10	ND<10	1,700		
	06/04/99		17.35	439.62	Not sampled: well sampled annually, during the fourth quarter							
	11/11/99	P	18.58	438.39	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		0.79
	06/20/00		17.03	439.94	Not sampled: well sampled annually, during the fourth quarter							2.8
	08/29/00		18.25	438.72	Not sampled: well sampled annually, during the fourth quarter							3.39
	11/29/00		20.27	436.70	ND<50.0	ND<0.500	ND<0.500	1.08	3.34	ND<2.50		0.67
	05/02/01		22.33	434.64	Not sampled: well sampled annually, during the fourth quarter							
	08/15/01		25.03	431.94	Not sampled: well sampled annually, during the fourth quarter							
	10/05/01	P	25.17	431.80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.79
	01/21/02		24.79	432.18	Not sampled: well sampled annually, during the fourth quarter							
	04/26/02		24.27	432.70	Not sampled: well sampled annually, during the fourth quarter							
	10/07/02	P	20.20	436.77	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	-	ND<0.50	1.2
	05/01/03 ³		18.27	438.70	Not sampled: well sampled annually, during the fourth quarter							

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Well Number	Date Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)	
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)						
MW-4	03/23/95	456.55	15.39	441.16	210	2.1	0.6	0.8	2.1	--			
	05/31/95		15.32	441.23	190	1.6	ND<0.5	0.7	0.9	--			
	08/31/95		17.86	438.69	160	1.2	0.7	ND<0.5	ND<2	ND<3			
	11/28/95		17.18	439.37	150	0.7	ND<0.5	0.7	1.4	ND<3			
	02/22/96		14.80	441.75	100	ND<0.5	ND<0.5	ND<0.6	0.8	ND<3			
	05/23/96		14.43	442.12	86	ND<0.5	ND<0.5	ND<0.5	ND<0.7	ND<3			
	08/08/96		16.80	439.75	98	ND<0.5	ND<0.5	ND<0.5	1.3	ND<3			
	11/07/96		17.90	438.65	140	ND<0.5	ND<0.5	ND<0.9	1.3	ND<3			
	03/27/97		15.22	441.33	ND<50	1.1	ND<0.5	ND<0.5	1.6	ND<3			
	05/19/97		16.98	439.57	62	ND<0.5	ND<0.5	ND<0.5	0.6	ND<3			
	05/18/98		14.99	441.56	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	64			
	11/02/98		25.29	431.26	74	ND<0.5	ND<0.5	ND<0.5	ND<0.5	96			
	06/04/99	P		17.95	438.60	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	38		
	11/11/99	P		19.25	437.30	88	ND<0.5	ND<0.5	ND<0.5	ND<1	10		0.77
	DUP	06/20/00		NR	NR	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	62.3		
06/20/00		P		17.79	438.76	ND<50.0	ND<0.500	ND<0.500	ND<0.500	82.4		1.3	
08/29/00		P		18.90	437.65	56.0	ND<0.500	ND<0.500	ND<0.500	47.9		0.97	
11/29/00		P		20.50	436.05	ND<50.0	ND<0.500	ND<0.500	ND<0.500	9.88	10.4	0.59	
05/02/01		P		22.65	433.90	ND<50.0	ND<0.500	ND<0.500	ND<0.500	61.1	70.9	0.74	
05/02/01				NR	NR	ND<50.0	ND<0.500	ND<0.500	ND<0.500	59.4	68.4		
08/15/01				NR	NR	Not sampled: well dry							
10/05/01				NR	NR	Not sampled: well dry							
01/21/02				NR	NR	Not sampled: well dry							
04/26/02		P		20.15	436.40	110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	150		0.21
10/07/02	P		20.76	435.79	96 ¹	ND<0.50	ND<0.50	0.54	ND<0.50	--	260	1.0	
05/01/03 ³	P		19.67	436.88	120	1.3	ND<0.50	ND<0.50	ND<0.50	--	86	1.7	

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					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-5	03/23/95	455.84	13.97	441.87	68	4.2	3.4	2.3	12	--		
	05/31/95		NR	NR	Not sampled: well was inaccessible							
	08/31/95		NR	NR	Not sampled: well was inaccessible							
	11/28/95		16.46	439.38	960	41	24	38	210	ND<5		
	02/22/96		13.34	442.50	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/23/96		14.36	441.48	7,100	440	180	270	1,700	ND<50		
	08/08/96		16.38	439.46	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/07/96		17.26	438.58	5,600	230	86	210	1,100	ND<80		
	03/27/97		15.95	439.89	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/19/97		16.64	439.20	7,600	480	140	400	1,200	ND<40		
	05/18/98		14.75	441.09	990	46	13	45	180	4		
	11/02/98		27.83	428.01	14,000	690	140	550	2,200	100		
	06/04/99	P	17.47	438.37	8,300	690	370	90	440	1,400		
	11/11/99	P	18.80	437.04	18,000	900	190	1,100	3,200	72		0.86
	06/20/00	P	17.14	438.70	10,200	618	122	832	2,020	ND<50.0		1.6
	08/29/00	P	18.60	437.24	12,300	436	166	711	2,120	517		0.79
	11/29/00	P	20.57	435.27	26,000	491	149	1,090	3,810	671	ND<20.0	0.51
	05/02/01		NR	NR	Well Abandoned							

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					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)						
MW-6	03/23/95	454.93	13.38	441.55	ND<50	1.5	ND<0.5	ND<0.5	0.9	--			
	05/31/95		13.96	440.97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--			
	08/31/95		16.71	438.22	150	9	1.8	4	12	ND<3			
	11/28/95		15.65	439.28	ND<50	0.6	ND<0.5	ND<0.5	0.8	ND<3			
	02/22/96		12.53	442.40	ND<50	1.9	ND<0.5	0.8	2.1	ND<3			
	05/23/96		13.24	441.69	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3			
	08/08/96		16.65	438.28	ND<50	0.5	ND<0.5	ND<0.5	0.5	ND<3			
	11/07/96		16.65	438.28	110	5.3	1.3	3.1	6.6	ND<3			
	03/27/97		14.25	440.68	ND<50	2.3	ND<0.5	0.9	3.5	4			
	05/19/97		15.87	439.06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3			
	05/18/98		14.00	440.93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3			
	11/02/98		24.95	429.98	ND<50	1.2	ND<0.5	ND<0.5	ND<0.5	3			
	06/04/99		P	16.68	438.25	310	41	3.8	11	19	33		
	11/11/99		P	16.12	438.81	ND<50	0.5	ND<0.5	ND<0.5	ND<1	ND<3		0.92
DUP	06/20/00	P	16.63	438.30	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	17.3		1.9	
	08/29/00	NR	NR	NR	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50			
	08/29/00	P	17.91	437.02	ND<50.0	ND<0.500	0.551	ND<0.500	ND<0.500	ND<2.50		1.67	
	11/29/00	P	20.30	434.63	ND<50.0	ND<0.500	ND<0.500	ND<0.500	1.03	ND<2.50		0.79	
	05/02/01	P	22.20	432.73	3,230	1,300	33.6	89.4	136	1,810	2,310	0.95	
	08/15/01	P	27.95	426.98	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21	25	0.63	
	10/05/01	P	28.05	426.88	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.85	
	01/21/02	P	26.81	428.12	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0		0.91	
	04/26/02	P	26.27	428.66	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17		0.75	
	10/07/02	P	20.05	434.88	60 ¹	13	1.7	1.7	3.5	--	8.0	2.8	
05/01/03 ³	P	17.62	437.31	ND<50	5.4	ND<0.50	0.63	1.3	--	12	1.6		

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785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled	Top of Casing	Depth to	Groundwater	TPH			Ethyl-	Total	MTBE	MTBE	Dissolved
		Elevation (ft-MSL)	Water (feet)	Elevation (ft-MSL)	Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	benzene (µg/L)	Xylenes (µg/L)	8021B (µg/L)	8260 (µg/L)	Oxygen (mg/L)
MW-7	03/23/95	454.92	13.29	441.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--		
	05/31/95		13.72	441.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--		
	08/31/95		16.53	438.39	ND<50	ND<0.5	ND<0.5	ND<0.5	1.2	ND<3		
	11/28/95		15.50	439.42	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96		12.30	442.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	05/23/96		13.02	441.90	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	08/08/96		NR	NR	Not sampled: unable to locate well							
	11/07/96		16.50	438.42	ND<50	ND<0.5	ND<0.5	ND<0.5	0.8	ND<3		
	03/27/97		14.22	440.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	05/19/97		15.74	439.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	05/18/98		13.82	441.10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/02/98		24.80	430.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4		
	06/04/99	P	16.55	438.37	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/11/99	P	18.02	436.90	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		1.03
	06/20/00	P	16.50	438.42	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		1.3
	08/29/00	P	17.80	437.12	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		1.67
	11/29/00	P	19.61	435.31	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		0.51
	05/02/01	P	22.05	432.87	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	2.66	0.9
	08/15/01	P	27.55	427.37	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.84
	10/05/01	P	27.59	427.33	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.62
	01/21/02	P	26.50	428.42	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	15	21	0.65
	04/26/02	P	26.22	428.70	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	18		0.61
	10/07/02	P	20.04	434.88	ND<50	1.2	ND<0.50	ND<0.50	0.77	--	41	4.8
	05/01/03 ³	P	17.47	437.45	ND<50	ND<0.50	ND<0.50	ND<0.50	0.50	--	43	2.7

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-8	03/23/95	456.97	11.55	445.42	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95		12.37	444.60	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95		15.68	441.29	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95		14.15	442.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96		10.97	446.00	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96		11.90	445.07	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96		13.85	443.12	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96		15.08	441.89	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97		12.96	444.01	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97		14.35	442.62	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98		12.97	444.00	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98		26.01	430.96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	06/04/99		15.53	441.44	Not sampled: well sampled annually, during the fourth quarter							
	11/11/99	P	16.67	440.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	1.01	
	06/20/00		15.29	441.68	Not sampled: well sampled annually, during the fourth quarter							2.4
	08/29/00		16.59	440.38	Not sampled: well sampled annually, during the fourth quarter							3.37
	11/29/00	P	19.80	437.17	ND<50.0	ND<0.500	ND<0.500	ND<0.500	0.772	ND<2.50	1.35	
	05/02/01		22.12	434.85	Not sampled: well sampled annually, during the fourth quarter							
	08/15/01		27.63	429.34	Not sampled: well sampled annually, during the fourth quarter							
	10/05/01	P	27.65	429.32	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	1.07	
	01/21/02		26.73	430.24	Not sampled: well sampled annually, during the fourth quarter							
	04/26/02		26.39	430.58	Not sampled: well sampled annually, during the fourth quarter							
	10/07/02	P	18.43	438.54	ND<50	ND<0.50	ND<0.50	ND<0.50	0.86	-	ND<0.50	4.2
	05/01/03 ^a		16.47	440.50	Not sampled: well sampled annually, during the fourth quarter							

Table 1
Groundwater Elevation and Analytical Data

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Livermore, California

Well Number	Date Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-9	03/23/95	456.18	13.18	443.00	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95		12.66	443.52	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95		14.40	441.78	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95		14.26	441.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96		12.05	444.13	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96		12.07	444.11	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96		14.12	442.06	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96		15.42	440.76	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97		13.01	443.17	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97		14.60	441.58	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98		12.60	443.58	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98		25.08	431.10	Not sampled							
	06/04/99		P	15.87	440.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	
	11/11/99		P	17.02	439.16	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	0.96
	06/20/00			15.54	440.64	Not sampled: well sampled annually, during the fourth quarter						
	08/29/00			16.81	439.37	Not sampled: well sampled annually, during the fourth quarter						
	11/29/00		P	18.81	437.37	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	0.81
	05/02/01			22.09	434.09	Not sampled: well sampled annually, during the fourth quarter						
	08/15/01			27.59	428.59	Not sampled: well sampled annually, during the fourth quarter						
	10/05/01		P	27.63	428.55	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	0.93
DUP	10/05/01	NR	NR	NR	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		
	01/21/02		26.77	429.41	Not sampled: well sampled annually, during the fourth quarter							
	04/26/02		26.41	429.77	Not sampled: well sampled annually, during the fourth quarter							
	10/07/02	P	18.85	437.33	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	2.6
	05/01/03 ³		17.84	438.34	Not sampled: well sampled annually, during the fourth quarter							

Table 1
Groundwater Elevation and Analytical Data

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Livermore, California

Well Number	Date Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-10	03/23/95	456.85	14.86	441.99	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95		15.63	441.22	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95		14.40	442.45	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95		17.24	439.61	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96		14.30	442.55	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96		14.93	441.92	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96		17.20	439.65	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96		18.25	438.60	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97		15.77	441.08	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97		17.38	439.47	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98		15.47	441.38	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98		26.94	429.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	06/04/99		17.19	439.66	Not sampled: well sampled annually, during the fourth quarter							
	11/11/99	P	19.35	437.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		0.68
	06/20/00		17.92	438.93	Not sampled: well sampled annually, during the fourth quarter							2.9
	08/29/00		19.15	437.70	Not sampled: well sampled annually, during the fourth quarter							1.54
	11/29/00	P	21.30	435.55	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		0.95
	05/02/01		29.95	426.90	Not sampled: well sampled annually, during the fourth quarter							
	08/15/01		30.74	426.11	Not sampled: well sampled annually, during the fourth quarter							
	10/05/01	P	30.95	425.90	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.89
	01/21/02		28.97	427.88	Not sampled: well sampled annually, during the fourth quarter							
	04/26/02		28.50	428.35	Not sampled: well sampled annually, during the fourth quarter							
	10/07/02	P	21.15	435.70	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	3.0
	05/01/03 ³		18.90	437.95	Not sampled: well sampled annually, during the fourth quarter							

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
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Livermore, California

Well Number	Date Sampled	Top of Casing	Depth to	Groundwater	TPH			Ethyl-	Total	MTBE	MTBE	Dissolved
		Elevation (ft-MSL)	Water (feet)	Elevation (ft-MSL)	Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	benzene (µg/L)	Xylenes (µg/L)	8021B (µg/L)	8260 (µg/L)	Oxygen (mg/L)
MW-11	03/23/95	455.07	17.34	437.73	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/31/95		16.68	438.39	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--		
	08/31/95		20.20	434.87	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/28/95		17.80	437.27	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96		15.97	439.10	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/23/96		15.50	439.57	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	08/08/96		17.77	437.30	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/07/96		17.45	437.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97		15.77	439.30	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/19/97		16.80	438.27	ND<50	1.1	4.5	ND<0.5	2.2	ND<3		
	05/18/98		15.38	439.69	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/02/98		24.15	430.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	06/04/99	P	18.39	436.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/11/99	P	18.62	436.45	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		1.01
	06/20/00	P	17.82	437.25	ND<50.0	0.631	ND<0.500	ND<0.500	ND<0.500	ND<2.50		4.1
	08/29/00		19.50	435.57	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/29/00	P	20.60	434.47	ND<50.0	ND<0.500	ND<0.500	ND<0.500	1.63	ND<2.50		0.97
	05/02/01	P	22.42	432.65	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		1.04
	08/15/01		27.41	427.66	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	10/05/01	P	27.59	427.48	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		1.05
	01/21/02		26.75	428.32	Not sampled: well sampled semi annually, during the second quarter							
	04/26/02	P	26.50	428.57	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.47
	10/07/02	P	20.79	434.28	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.0	1.4
	05/01/03 ³	P	20.55	434.52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.5	3.2

**Table 1
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Well Number	Date Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH			Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-12	03/23/95	455.04	15.54	439.50	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/31/95		15.66	439.38	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--		
	08/31/95		18.23	436.81	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/28/95		17.53	437.51	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96		14.45	440.59	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/23/96		14.88	440.16	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	08/08/96		17.30	437.74	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/07/96		18.30	436.74	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97		15.69	439.35	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/19/97		17.41	437.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	05/18/98		15.21	439.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/02/98		NR	NR	Not sampled: unable to locate well							
	06/04/99		NR	NR	Not sampled: unable to locate well							
	11/11/99		NR	NR	Not sampled: unable to locate well							
	06/20/00		NR	NR	Not sampled: unable to locate well							
	08/29/00		NR	NR	Not sampled: unable to locate well							
	11/29/00		NR	NR	Not sampled: unable to locate well							
	05/02/01		NR	NR	Not sampled: unable to locate well							
	08/15/01		NR	NR	Not sampled: unable to locate well							
	10/05/01		NR	NR	Not sampled: unable to locate well							
	01/21/02		NR	NR	Not sampled: unable to locate well							
	04/26/02		NR	NR	Not sampled: unable to locate well							
	10/07/02		NR	NR	Not sampled: unable to locate well							
	05/01/03³		NR	NR	Not sampled: unable to locate well							

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Livermore, California

Well Number	Date Sampled		Top of Casing	Depth to	Groundwater	TPH			Ethyl-	Total	MTBE	MTBE	Dissolved
			Elevation (ft-MSL)	Water (feet)	Elevation (ft-MSL)	Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	benzene (µg/L)	Xylenes (µg/L)	8021B (µg/L)	8260 (µg/L)	Oxygen (mg/L)
MW-13	01/21/02	P	NR	24.61	NR	15,000	160	68	1,700	3,200	4,900	5,200	0.71
	04/26/02	P		24.2	NR	17,000	98	ND<100	1,700	3,400	1,600		0.6
	10/07/02	P		20.12	NR	14,000 ²	510	ND<50	2,200	2,300	--	2,800	0.8
	05/01/03 ³	P		17.82	NR	21,000	230	ND<50	1,900	2,300	--	1,600	1.9
VW-1	08/29/00	P	NR	17.40	NR	2,360	27.6	11.6	26.3	33.2	110		4.47
	11/29/00	P		18.75	NR	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		0.46
	05/02/01			21.59	NR	Well not sampled							
	08/15/01	P		24.62	NR	1,200	6.3	4.3	1.7	1.3	20	17	
DUP	08/15/01			NR	NR	1,200	6.2	4.1	1.8	1.1	20	17	
	10/05/01	P		24.75	NR	1,500	140	55	28	82	610	660	0.71
DUP	01/21/02	P		24.59	NR	6,700	810	350	270	1,100	2,600	3,400	0.69
	01/21/02			NR	NR	8,000	770	320	96	1,100	2,500	3,200	
DUP	04/26/02	P		24.27	NR	370	26	2.1	6.6	1.7	48		0.50
	04/26/02			NR	NR	350	24	1.6	5.9	1.6	45		
DUP	10/07/02	P		19.20	NR	410 ²	25	2.2	8.0	4.3	--	88	1.7
	05/01/03 ³	P		16.60	NR	240	6.4	ND<0.50	3.3	1.3	--	36	1.7
VW-2	08/29/00		NR	NR	NR	Well inaccessible							
	11/29/00			NR	NR	Well inaccessible							
	05/02/01			NR	NR	Well not sampled							
	05/02/01			NR	NR	Well not sampled							
	10/05/01			NR	NR	Well inaccessible							
	01/21/02			NR	NR	Well inaccessible							
	04/26/02			NR	NR	Not sampled: unable to locate well							
	10/07/02			NR	NR	Not sampled: well inaccessible							
	05/01/03 ³			NR	NR	Not sampled: well inaccessible							

**Table 1
Groundwater Elevation and Analytical Data**

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Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
						Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
VW-3	08/29/00	P	NR	17.93	NR	25,400	3,540	10,600	1,280	43,000	44,700		
	11/29/00	P		19.75	NR	54,200	9,450	1,870	2,350	9,400	12,300	15,100	0.47
	05/02/01			NR	NR	Well abandoned							
VW-4	08/29/00		NR	NR	NR	Well inaccessible							
	11/29/00	P		19.45	NR	37,500	4,510	206	2,100	9,030	6,770	7,880	0.42
DUP	11/29/00			NR	NR	36,100	3,700	206	1,850	7,890	6,430	8,460	
	05/02/01			21.66	NR	Well not sampled							
	08/15/01			NR	NR	Well not sampled							
	10/05/01			NR	NR	Not sampled: well dry							
	01/21/02			NR	NR	Not sampled: well dry							
	04/26/02			NR	NR	Not sampled: well dry							
	10/07/02			19.25	NR	Well not sampled							
	05/01/03 ³			17.29	NR	Well not sampled							

Notes:

- = Not analyzed, not applicable
- NR = not reported; data not available or not measurable
- TPH = Total petroleum hydrocarbons by modified EPA method 8015 (Before 05/01/03)
- BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 11/11/99) (Before 5/01/03)
- MTBE = Methyl tertiary butyl ether by EPA method 8021B. (EPA method 8020 prior to 11/11/99). Any MTBE Detection by 8021B was confirmed by EPA method 8260 beginning Third Quarter 2000 (08-29-00 Results)
- ft-MSL = elevation in feet, relative to mean sea level
- µg/L = micrograms per liter
- mg/L = milligrams per liter
- ND< = less than laboratory detection limit stated to the right
- DUP = duplicate
- 1 = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- 2 = Chromatogram Pattern: C6-C10
- 3 = TPH-g, BTEX and MTBE analyzed using EPA Method 8260B beginning second quarter 2003 (05/01/03)

The data within this table collected prior to October 2002 was provided to URS by Group Environment 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 6113
785 East Stanley Boulevard
Livermore, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
03/23/95	Northwest	0.035
05/31/95	North-Northwest	0.028
08/31/95	North-Northwest	0.03
11/28/95	North-Northwest	0.025
02/22/96	North-Northwest	0.031
05/23/96	North-Northwest	0.025
08/08/96	North	0.019
11/07/96	North-Northeast	0.019
03/27/97	North-Northwest	0.021
05/19/97	North	0.019
05/18/98	North	0.02
11/02/98	North	0.02
06/04/99	North	0.02
11/11/99	North	0.03
06/20/00	North-Northeast	0.014
08/29/00	North-Northeast	0.013
11/29/00	North-Northwest	0.026
05/02/01	Northeast	0.026
08/15/01	Northeast	0.047
10/05/01	Northeast	0.031
01/21/02	Northeast	0.033
04/26/02	Northeast	0.031
10/07/02	Northeast	0.017
05/01/03	North-Northeast	0.011

Note:

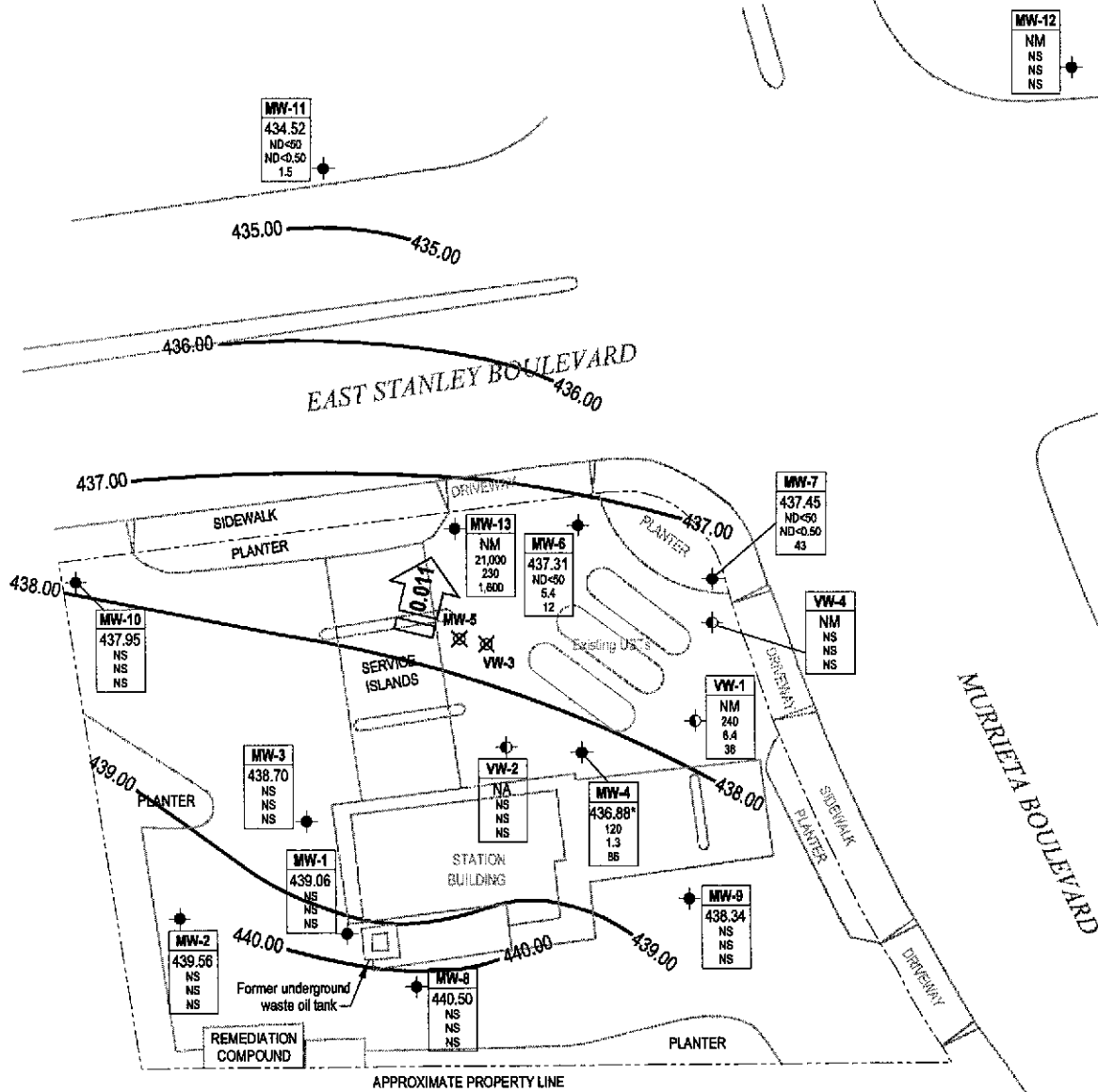
The data within this table collected prior to October 2002 was provided to URS by Group Environment Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 3
Fuel Oxygenate Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-Dichloroethane (µg/L)	Ethylene Dibromide (µg/L)
MW-1	10/07/02 05/01/03	ND<40 NS	ND<20 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS
MW-2	10/07/02 05/01/03	ND<40 NS	ND<20 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS
MW-3	10/07/02 05/01/03	ND<40 NS	ND<20 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS
MW-4	10/07/02 05/01/03	ND<400 ND<100	ND<200 25	260 86	ND<5.0 ND<0.50	ND<5.0 ND<0.50	ND<5.0 ND<0.50	ND<5.0 ND<0.50	ND<5.0 ND<0.50
MW-6	10/07/02 05/01/03	ND<40 ND<100	ND<20 ND<20	8.0 12	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50
MW-7	10/07/02 05/01/03	ND<40 ND<100	ND<20 ND<20	41 43	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50
MW-8	10/07/02 05/01/03	ND<40 NS	ND<20 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS
MW-9	10/07/02 05/01/03	ND<40 NS	ND<20 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS
MW-10	10/07/02 05/01/03	ND<40 NS	ND<20 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS	ND<0.50 NS
MW-11	10/07/02 05/01/03	ND<40 ND<100	ND<20 ND<20	1.0 1.5	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50
MW-13	10/07/02 05/01/03	ND<4,000 ND<10,000	ND<2,000 ND<2,000	2,800 1,600	ND<50 ND<50	ND<50 ND<50	ND<50 ND<50	ND<50 ND<50	ND<50 ND<50
VW-1	10/07/02 05/01/03	ND<80 ND<100	ND<40 ND<20	88 36	ND<1.0 ND<0.50	ND<1.0 ND<0.50	ND<1.0 ND<0.50	ND<1.0 ND<0.50	ND<1.0 ND<0.50

Note = All fuel oxygenate compounds analyzed using EPA Method 8260B
TBA = tert-Butyl alcohol
MTBE = Methyl tert-butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert butyl ether
TAME = tert-Amyl methyl ether
µg/L = micrograms per liter
ND< = less than laboratory detection limit stated to the right

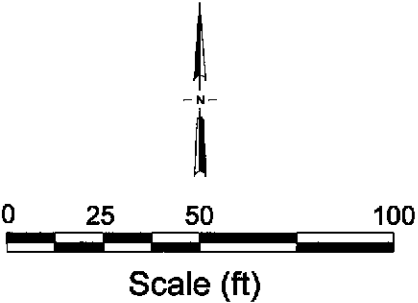


EXPLANATION

- ◆ Monitoring well
- ◆ Vapor extraction well
- ⊗ Abandoned well
- 435.00 Groundwater elevation contour (Feet above MSL)

Well ID	ELEV	TPH-g	Benzene	MTBE
*				
NA				
ND				
NM				
NS				

← 0.011 Approximate groundwater flow direction and gradient (ft/ft)



NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

URS	Project No. 38486132	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP	FIGURE 1
	Arco Service Station #6113 785 East Stanley Boulevard Livermore, California		

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 # 030501-CH1

Date 5/1/03

Client Arlo 6113

Site 785 E Stanley Blvd, Livermore

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	2					17.98	44.70		G
MW-2	2					18.18	38.72		G
MW-3	2					18.27	39.09		G
MW-4	4					19.67	26.75		
MW-6	4					17.62	66.80		
MW-7	4					17.47	67.50		
MW-8	4					16.47	66.75		G
MW-9	4					17.84	68.10		G
MW-10	4					18.90	49.90		G
MW-11	2					20.55	44.45		
MW-12		Unable to locate							
MW-13	2					17.82	30.35		
VW-1	4					16.60	44.42		
VW-2		Unable to access							G
VW-4	4					17.27	24.55		G

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>070501-RH1</u>	Station # <u>Arco 6113</u>
Sampler: <u>Ryan H</u>	Date: <u>5/1/03</u>
Well I.D.: <u>mw-4</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u>26.75</u>	Depth to Water: <u>19.67</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>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u>	<u>Disposable Bailer</u>
<u>Middleburg</u>	<u>Extraction Port</u>
<u>Electric Submersible</u>	Other: <u> </u>
<u>Extraction Pump</u>	
Other: <u> </u>	

Top of Screen: 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>4.6</u>	x	<u>3</u>	=	<u>13.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
953	67.1	6.9	704	4.6	clear
954	66.0	6.8	706	9.2	"
955	66.7	6.8	711	13.8	"

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: <u>13.8</u>
Sampling Time: <u>1001</u>	Sampling Date: <u>5/1/03</u>
Sample I.D.: <u>mw-4</u>	Laboratory: Pace <u>(Sequoia)</u> Other <u> </u>
Analyzed for: <u>TPH-C</u> <u>BTEX</u> MTBE TPH-D Other: <u>oxygens, ethanol, BZCA, BDB by S260</u>	
D.O. (if req'd):	Pre-purge: <u> </u> mg/L
	Post-purge: <u>1.7</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>030501-2H1</u>	Station # <u>Arco 6113</u>
Sampler: <u>Ryan H</u>	Date: <u>5/1/03</u>
Well I.D.: <u>mw-6</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: <u>66.50</u>	Depth to Water: <u>17.62</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>Bailer</u>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u>	<u>Disposable Bailer</u>
<u>Middleburg</u>	<u>Extraction Port</u>
<u>Electric Submersible</u>	Other: _____
<u>Extraction Pump</u>	
Other: _____	

Top of Screen: _____ 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>32.0</u>	X	<u>3</u>	=	<u>96.0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
932	66.7	6.9	699	32.0	clear
938	66.7	7.0	718	64.0	"
945	67.2	6.7	720	96.0	"

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: <u>96.0</u>
Sampling Time: <u>950</u>	Sampling Date: <u>5/1/03</u>
Sample I.D.: <u>mw-6</u>	Laboratory: Pace <u>(Sequoia)</u> Other _____
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: <u>oxyanates, ethanol, LZCH, BDB by 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>1.0</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030501-RH1</u>	Station # <u>Arco 6113</u>
Sampler: <u>Ryan H</u>	Date: <u>5/1/03</u>
Well I.D.: <u>mw-7</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>67.30</u>	Depth to Water: <u>17.97</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>Bailer</u>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u>	<u>Disposable Bailer</u>
<u>Middleburg</u>	<u>Extraction Port</u>
<u>Electric Submersible</u>	Other: _____
<u>Extraction Pump</u>	
Other: _____	

Top of Screen: _____ 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>32.8</u>	x	<u>3</u>	=	<u>98.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>906</u>	<u>65.5</u>	<u>6.9</u>	<u>711</u>	<u>32.8</u>	<u>clear</u>
<u>912</u>	<u>65.9</u>	<u>6.9</u>	<u>663</u>	<u>65.6</u>	"
<u>919</u>	<u>66.2</u>	<u>6.9</u>	<u>656</u>	<u>98.4</u>	"

Did well dewater? Yes <input type="checkbox"/> <u>No</u>	Gallons actually evacuated: <u>98.4</u>
Sampling Time: <u>924</u>	Sampling Date: <u>5/1/03</u>
Sample I.D.: <u>mw-7</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-C</u> <u>BTEX</u> MTBE TPH-D Other: <u>oxygens, ethanol, 1,2-DCA, EDB by 826c</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>2.7</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>070501-241</u>	Station # <u>Arco 6113</u>
Sampler: <u>Ryan H</u>	Date: <u>5/1/03</u>
Well I.D.: <u>mw-11</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>44.45</u>	Depth to Water: <u>20.55</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>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
--	---

Top of Screen: _____ 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>3.8</u>	x	<u>3</u>	=	<u>11.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1050	<u>66.8</u>	<u>7.2</u>	<u>667</u>	<u>3.8</u>	<u>brown, cloudy</u>
1055	<u>66.4</u>	<u>7.0</u>	<u>690</u>	<u>7.6</u>	" "
1100	<u>66.2</u>	<u>7.1</u>	<u>672</u>	<u>11.4</u>	" "

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>11.4</u>	
Sampling Time: <u>1105</u>	Sampling Date: <u>5/1/03</u>	
Sample I.D.: <u>mw-11</u>	Laboratory: Pace <u>(Sequoia)</u> Other _____	
Analyzed for: <u>TPH-C</u> <u>BTEX</u> MTBE TPH-D Other: <u>oxygenates, ethanol, LZCA, EDB by S2E0</u>		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>3.2</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>070501-241</u>	Station # <u>Arco 6113</u>
Sampler: <u>Ryan H</u>	Date: <u>5/1/03</u>
Well I.D.: <u>mw-12</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth:	Depth to Water:
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>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
---	---

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

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
		<u>Unable to locate</u>			

Did well dewater? Yes, <u>No</u>	Gallons actually evacuated: _____
Sampling Time: _____	Sampling Date: <u>5/1/03</u>
Sample I.D.: <u>mw-12</u>	Laboratory: Face <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: <u>oxygens, ethanol, 1,2-DCA, BHS by S260</u>	
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>030501-RH</u>	Station # <u>Arco 6113</u>
Sampler: <u>Ryan H</u>	Date: <u>5/1/03</u>
Well I.D.: <u>mw-13</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>30.95</u>	Depth to Water: <u>17.82</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>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
--	---

Top of Screen: _____ 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>2.0</u>	X	<u>3</u>	=	<u>6.0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1032	67.3	6.8	1096	2.0	grey, cloudy, color
1035	67.4	6.8	1064	4.0	" " "
1038	67.4	6.8	1060	6.0	" " "

Did well dewater? Yes No Gallons actually evacuated: 6.0

Sampling Time: 1043 Sampling Date: 5/1/03

Sample I.D.: mw-13 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: oxyanions, ethanol, ZINC, EOB by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.9 mg/L
	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030501-RH1	Station # Area 6113
Sampler: Ryan H	Date: 5/1/03
Well I.D.: VW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 44.42	Depth to Water: 16.00
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>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
--	---

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

18.0	X	3	=	54.0	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1008	66.4	7.0	691	18.0	slightly grey turbid
1011	66.2	7.0	688	36.0	" " "
1015	66.5	6.9	693	54.0	" " "

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: 54.0
Sampling Time: 1020	Sampling Date: 5/1/03
Sample I.D.: VW-1	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: oxygenates, ethanol, LZCH, EOB by 5260	
D.O. (if req'd):	Pre-purge: _____ mg/L <u>Post-purge:</u> 1.7 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

WELLHEAD INSPECTION CHECKLIST

Client Arco 6113 Date 5/1/03

Site Address 785 E Stanley Blvd, Livermore

Job Number 030501-241 Technician Ryan H

Well ID	Well Inspected - No Corrective Action Required	Water Bared From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
mw-1		X						X
mw-2								X
mw-3								X
mw-4	X							
mw-6								X
mw-7	X							
mw-8								X
mw-9								X
mw-10								X
mw-11	X							
mw-12	—	Unable to locate						
mw-13	X							
VW-1	X							
VW-2		Unable to access						
VW-4	X							

NOTES: mw-10: tabs stripped, mw-2: bolts missing, bit broken off in tab, mw-1: missing bolts
 mw-8: lid broken near tab, bit missing, mw-9: tab stripped

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:

Arco 6113

Station #

785 E Stanley Blvd, Livermore

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

278.0

added equip.
rinse water

2.0

any other
adjustments

TOTAL GALS.

RECOVERED 280.0

loaded onto
BTS vehicle #

22

BTS event #

030501-RH1

time

date

1115

5 / 1 / 03

signature

[Signature]

REC'D AT

time

date

unloaded by
signature

1 / 1

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.



16 May, 2003

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

RE: ARCO #6113, Livermore, CA
Sequoia Work Order: MME0074

Enclosed are the results of analyses for samples received by the laboratory on 05/02/03 14:45. 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 [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #6113, Livermore, CA
Project Number: INTRIM-50739
Project Manager: Scott Robinson

MME0074
Reported:
05/16/03 12:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	MME0074-01	Water	05/01/03 10:01	05/02/03 14:45
MW-6	MME0074-02	Water	05/01/03 09:50	05/02/03 14:45
MW-7	MME0074-03	Water	05/01/03 09:24	05/02/03 14:45
MW-11	MME0074-04	Water	05/01/03 11:05	05/02/03 14:45
MW-13	MME0074-05	Water	05/01/03 10:43	05/02/03 14:45
VW-1	MME0074-06	Water	05/01/03 10:20	05/02/03 14:45

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



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

Project: ARCO #6113, Livermore, CA
Project Number: INTRIM-50739
Project Manager: Scott Robinson

MME0074
Reported:
05/16/03 12:51

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MME0074-01) Water Sampled: 05/01/03 10:01 Received: 05/02/03 14:45									
Ethanol	ND	100	ug/l	1	3E07022	05/07/03	05/07/03	EPA 8260B	
tert-Butyl alcohol	25	20	"	"	"	"	"	"	
Methyl tert-butyl ether	86	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	1.3	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	120	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.0 %		78-129	"	"	"	"	
MW-6 (MME0074-02) Water Sampled: 05/01/03 09:50 Received: 05/02/03 14:45									
Ethanol	ND	100	ug/l	1	3E07022	05/07/03	05/07/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	12	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	5.4	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	0.63	0.50	"	"	"	"	"	"	
Xylenes (total)	1.3	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.2 %		78-129	"	"	"	"	



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

Project: ARCO #6113, Livermore, CA
Project Number: INTRIM-50739
Project Manager: Scott Robinson

MME0074
Reported:
05/16/03 12:51

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-7 (MME0074-03) Water **Sampled: 05/01/03 09:24** **Received: 05/02/03 14:45**

Ethanol	ND	100	ug/l	1	3E07022	05/07/03	05/07/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	43	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	0.50	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 97.2 % 78-129 " " " "

MW-11 (MME0074-04) Water **Sampled: 05/01/03 11:05** **Received: 05/02/03 14:45**

Ethanol	ND	100	ug/l	1	3E07022	05/07/03	05/07/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	1.5	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 94.0 % 78-129 " " " "



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

Project: ARCO #6113, Livermore, CA
Project Number: INTRIM-50739
Project Manager: Scott Robinson

MME0074
Reported:
05/16/03 12:51

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-13 (MME0074-05) Water Sampled: 05/01/03 10:43 Received: 05/02/03 14:45									
Ethanol	ND	10000	ug/l	100	3E07022	05/07/03	05/07/03	EPA 8260B	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	"
Methyl tert-butyl ether	1600	50	"	"	"	"	"	"	"
Di-isopropyl ether	ND	50	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	"
tert-Amyl methyl ether	ND	50	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	"
Benzene	230	50	"	"	"	"	"	"	"
Toluene	ND	50	"	"	"	"	"	"	"
Ethylbenzene	1900	50	"	"	"	"	"	"	"
Xylenes (total)	2300	50	"	"	"	"	"	"	"
Gasoline Range Organics (C6-C10)	21000	5000	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %		78-129	"	"	"	"	"
VW-1 (MME0074-06) Water Sampled: 05/01/03 10:20 Received: 05/02/03 14:45									
Ethanol	ND	100	ug/l	1	3E07022	05/07/03	05/07/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	"
Methyl tert-butyl ether	36	0.50	"	"	"	"	"	"	"
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	"
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	"
Benzene	6.4	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	3.3	0.50	"	"	"	"	"	"	"
Xylenes (total)	1.3	0.50	"	"	"	"	"	"	"
Gasoline Range Organics (C6-C10)	240	50	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.8 %		78-129	"	"	"	"	"

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

 Project: ARCO #6113, Livermore, CA
 Project Number: INTRIM-50739
 Project Manager: Scott Robinson

 MME0074
 Reported:
 05/16/03 12:51

Volatile Organic Compounds by EPA Method 8260B - 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 3E07022 - EPA 5030B P/T
Blank (3E07022-BLK1)

Prepared & Analyzed: 05/07/03

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							

<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.55		"	5.00		91.0	78-129			
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Laboratory Control Sample (3E07022-BS1)

Prepared & Analyzed: 05/07/03

Methyl tert-butyl ether	9.10	0.50	ug/l	10.0		91.0	63-137			
Benzene	10.2	0.50	"	10.0		102	78-124			
Toluene	10.6	0.50	"	10.0		106	78-129			

<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.64		"	5.00		92.8	78-129			
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Laboratory Control Sample (3E07022-BS2)

Prepared & Analyzed: 05/07/03

Methyl tert-butyl ether	8.12	0.50	ug/l	9.04		89.8	63-137			
Benzene	5.39	0.50	"	5.44		99.1	78-124			
Toluene	32.2	0.50	"	32.8		98.2	78-129			
Gasoline Range Organics (C6-C10)	391	50	"	440		88.9	70-113			

<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.96		"	5.00		99.2	78-129			
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URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607	Project: ARCO #6113, Livermore, CA Project Number: INTRIM-50739 Project Manager: Scott Robinson	MME0074 Reported: 05/16/03 12:51
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Volatile Organic Compounds by EPA Method 8260B - 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 3E07022 - EPA 5030B P/T

Matrix Spike (3E07022-MS1)		Source: MME0074-05		Prepared & Analyzed: 05/07/03						
Methyl tert-butyl ether	2040	50	ug/l	904	1600	48.7	63-137			QM-07
Benzene	702	50	"	544	230	86.8	78-124			
Toluene	3060	50	"	3280	43	92.0	78-129			
Gasoline Range Organics (C6-C10)	53000	5000	"	44000	21000	72.7	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.37		"	5.00		87.4	78-129			

Matrix Spike Dup (3E07022-MSD1)		Source: MME0074-05		Prepared & Analyzed: 05/07/03						
Methyl tert-butyl ether	2000	50	ug/l	904	1600	44.2	63-137	1.98	13	QM-07
Benzene	700	50	"	544	230	86.4	78-124	0.285	12	
Toluene	3200	50	"	3280	43	96.2	78-129	4.47	10	
Gasoline Range Organics (C6-C10)	53800	5000	"	44000	21000	74.5	70-113	1.50	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.19		"	5.00		83.8	78-129			



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

Project: ARCO #6113, Livermore, CA
Project Number: INTRIM-50739
Project Manager: Scott Robinson

MME0074
Reported:
05/16/03 12:51

Notes and Definitions

QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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: _____

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

Date: 5/1/03

Requested Due Date (mm/dd/yyyy) _____

Lab Name: SEQUOIA
 Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037
 Lab PM: Latonya Pelt
 Tele/Fax: 408-776-9600 / 408-782-6308
 Report Type & QC Level: Send EDF Reports
 BP/GEM Account No.: _____

BP/GEM Facility No.: _____
 BP/GEM Facility Address: 785 E. Stanley Blvd, LIVERMORE, CA
 Site ID No. ARCO 6113
 Site Lat/Long: _____
 California Global ID #: TD600100111
 BP/GEM PM Contact: PAUL SUPPLE
 Address: _____
 Tele/Fax: _____

Consultant/Contractor: URS
 Address: 500 12th St, Ste. 200 Oakland, CA 94609-4014
 e-mail EDD: syed_rehan@urscorp.com
 Consultant/Contractor Project No.: J5-00006113.01 00427
 Consultant Tele/Fax: 510-874-1735/510-874-3288
 Consultant/Contractor PM: Scott Robinson
 Invoice to: Consultant/Contractor or (BP/GEM) (circle one)
 BP/GEM Work Release No: INTRIM -50739

Item 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 (8215) (8217) (8218) (8219)	TPH -D (8015)	MTBE (8021)		MTBE, TAME, ETBE (8260)	DIBP, TBA (8260)	1,2-DCA & EDB (8260)
1	mw-4	1001	X			<u>MME0074</u>	<u>01</u>	<u>3</u>					X						
2	mw-6	980	X				<u>02</u>						X						
3	mw-7	924	X				<u>03</u>						X						
4	mw-11	1109	X				<u>04</u>						X						
5	mw-13	1043	X				<u>05</u>						X						
6	Vw-1	1020	X				<u>06</u>						X						
7																			
8																			
9																			
10																			

Sampler's Name:	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
<u>Payan Hamstad</u>	<u>Blaine Tech / BIS</u>	<u>5/1/03</u>	<u>1332</u>	<u>[Signature]</u>	<u>5/2/03</u>	<u>1332</u>
<u>Blaine Tech</u>	<u>[Signature]</u>	<u>5/1/03</u>	<u>1445</u>	<u>[Signature]</u>	<u>5/2/03</u>	<u>1445</u>

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

Body Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 47°F/C Trip Blank Yes No

ATTACHMENT C

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

05/22/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #6113, Livermore, CA
Work Order Number:	MME0074
Global ID:	T0600100111
Lab Report Number:	MME0074051620031251

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MME00740516200	MW-11 31251	MME007404	W	CS	8260+OX	SW5030B	05/01/03	05/07/03	05/07/03	3E07022	1	
MME00740516200	MW-13 31251	MME007405	W	CS	8260+OX	SW5030B	05/01/03	05/07/03	05/07/03	3E07022	1	
MME00740516200	MW-4 31251	MME007401	W	CS	8260+OX	SW5030B	05/01/03	05/07/03	05/07/03	3E07022	1	
MME00740516200	MW-6 31251	MME007402	W	CS	8260+OX	SW5030B	05/01/03	05/07/03	05/07/03	3E07022	1	
MME00740516200	MW-7 31251	MME007403	W	CS	8260+OX	SW5030B	05/01/03	05/07/03	05/07/03	3E07022	1	
MME00740516200	VW-1 31251	MME007406	W	CS	8260+OX	SW5030B	05/01/03	05/07/03	05/07/03	3E07022	1	
		3E07022BS1	WQ	BS1	8260+OX	SW5030B	//	05/07/03	05/07/03	3E07022	1	
		3E07022BS2	WQ	BS2	8260+OX	SW5030B	//	05/07/03	05/07/03	3E07022	1	
		3E07022BLK1	WQ	LB1	8260+OX	SW5030B	//	05/07/03	05/07/03	3E07022	1	
		3E07022MS1	W	MS1	8260+OX	SW5030B	//	05/07/03	05/07/03	3E07022	1	
		3E07022MSD1	W	SD1	8260+OX	SW5030B	//	05/07/03	05/07/03	3E07022	1	

EDFSAMP: Error Summary Log

05/22/03

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

EDFTEST: Error Summary Log

05/22/03

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

EDFRES: Error Summary Log

05/22/03

Error type	Labsampid	Qcocode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3E07022MS1	MS1	W	8260+OX	PR	05/07/03	1	GROC6C10
Warning: extra parameter	3E07022MSD1	SD1	W	8260+OX	PR	05/07/03	1	GROC6C10
Warning: extra parameter	MME007401	CS	W	8260+OX	PR	05/07/03	1	GROC6C10
Warning: extra parameter	MME007401	CS	W	8260+OX	PR	05/07/03	1	XYLENES
Warning: extra parameter	MME007402	CS	W	8260+OX	PR	05/07/03	1	GROC6C10
Warning: extra parameter	MME007402	CS	W	8260+OX	PR	05/07/03	1	XYLENES
Warning: extra parameter	MME007403	CS	W	8260+OX	PR	05/07/03	1	GROC6C10
Warning: extra parameter	MME007403	CS	W	8260+OX	PR	05/07/03	1	XYLENES
Warning: extra parameter	MME007404	CS	W	8260+OX	PR	05/07/03	1	GROC6C10
Warning: extra parameter	MME007404	CS	W	8260+OX	PR	05/07/03	1	XYLENES
Warning: extra parameter	MME007405	CS	W	8260+OX	PR	05/07/03	1	GROC6C10
Warning: extra parameter	MME007405	CS	W	8260+OX	PR	05/07/03	1	XYLENES
Warning: extra parameter	MME007406	CS	W	8260+OX	PR	05/07/03	1	GROC6C10
Warning: extra parameter	MME007406	CS	W	8260+OX	PR	05/07/03	1	XYLENES
Warning: extra parameter	3E07022BLK1	LB1	WQ	8260+OX	PR	05/07/03	1	GROC6C10
Warning: extra parameter	3E07022BLK1	LB1	WQ	8260+OX	PR	05/07/03	1	XYLENES
Warning: extra parameter	3E07022BS2	BS2	WQ	8260+OX	PR	05/07/03	1	GROC6C10

EDFQC: Error Summary Log

05/22/03

Error type	Lablctcl	Anmcode	Parlabel	Qccode	Labqid
There are no errors in this data files					

EDFCL: Error Summary Log

05/22/03

Error type	Clrevdate	Anmcode	Exmcode	Parlabel	Clcode
There are no errors in this data file	//				

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Confirmation Number: 9462019681
Date/Time of Submittal: 5/27/2003 9:17:01 AM
Facility Global ID: T0600100111
Facility Name: ARCO # 06113
Submittal Title: 2nd Quarter 2003 Monitoring Report
Submittal Type: GW Monitoring Report

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Submittal Title: 2nd Qtr 2003 Monitoring Data for
#6113

Submittal Date/Time: 5/27/2003 9:21:43 AM

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Number: 1066120743

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