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URS

December 22, 2003

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

Alameda County
DEC 31 2003
Environmental Health

Re: Fourth Quarter 2003 Monitoring Report
Former ARCO Service Station #6002
6235 Seminary Avenue
Oakland, California
URS Project #38486463

Dear Mr. Hwang:

On behalf of Atlantic Richfield Company (ARCO-a BP affiliated company), URS Corporation (URS) is submitting the *Fourth Quarter 2003 Groundwater Monitoring Report* for the Former ARCO Service Station #6002, located at 6235 Seminary Avenue, Oakland, California.

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

Sincerely,

URS CORPORATION

REGISTERED GEOLOGIST
JAMES F. DURKIN
No. 759
CERTIFIED HYDROGEOLOGIST
Exp. 2/28/05
STATE OF CALIFORNIA

Scott Robinson
Project Manager

James Durkin, C.Hg.
Senior Geologist

Enclosure: Fourth Quarter 2003 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)

URS Corporation
500 12th Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
Fax: 510.874.3268

Atlantic Richfield Company
(a BP affiliated company)

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

December 22, 2003

RE: Fourth Quarter 2003 Monitoring Report
Former ARCO Service Station #6002
6235 Seminary Avenue
Oakland, CA
URS Project #38486463

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

FOURTH QUARTER 2003 GROUNDWATER MONITORING

FORMER ARCO SERVICE STATION #6002
6235 SEMINARY AVENUE
OAKLAND, CALIFORNIA

Prepared for
Atlantic Richfield Company

December 22, 2003

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

38486463

Date: December 22, 2003

Quarter: 4Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Former Facility No.:	6002	Address:	6235 Seminary Avenue, Oakland, California
ARCO Environmental Business Manager:			Paul Supple
Consulting Co./Contact Person:			URS Corporation / Scott Robinson
Consultant Project No.:			38486463
Primary Agency			Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Fourth – 2003):

1. Performed fourth quarter 2003 groundwater monitoring event on November 13, 2003.
2. Prepared and submitted fourth quarter 2003 groundwater monitoring report.
3. Well repairs are scheduled for the end of December.

WORK PROPOSED FOR NEXT QUARTER (First – 2004):

1. Perform first quarter 2004 groundwater monitoring event.
2. Prepare and submit first quarter 2004 groundwater monitoring report.

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Annual (3rd quarter): MW-3, MW-4, MW-6, MW-7, and MW-8 Quarterly: MW-5, VW-1, and VW-4
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	No
Bulk Soil Removed to Date :	Approximately 370 cubic yards of TPH impacted soil
Current Remediation Techniques:	Natural Attenuation
Approximate Depth to Groundwater:	7.43 (VW-1) to 12.49 (MW-5) feet
Groundwater Gradient (direction):	West-Southwest
Groundwater Gradient (magnitude):	0.066 feet per foot

DISCUSSION:

TPH-g was detected in one of the three wells sampled this quarter (MW-5) at a concentration of 1,900 µg/L. MTBE was detected in all three wells at concentrations of 13 µg/L (VW-1), 90 µg/L (MW-5), and 130 µg/L (VW-4). Benzene and TBA were not detected above their respective detection limits in any of the wells sampled this quarter.

RECOMMENDATION:

Beginning this quarter, the sampling frequency of wells MW-4, MW-7 and MW-8 was reduced from quarterly to annual.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – November 13, 2003
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Table 3 – Fuel Oxygenate Analytical Data
- 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

SEMINARY AVENUE

OVERDALE AVENUE

SUNNYMERE AVENUE

SIDEWALK

DRIVEWAY

SIDEWALK

DRIVEWAY

580 ON RAMP

580 ON RAMP

GRAVEL

6150

6152

6154

GARAGE

6209
(APTS.)

6217
(APTS.)

STAIRS

Gate

Gate

CONCRETE

CONCRETE

PLANTER

4' block wall (Typ.)

SERVICE ISLAND

SERVICE STATION BUILDING

Former UST and concrete pad

DRIVEWAY

planter

8" block wall

Elevation 8' lower than ARCO property

6166

6267

Garage

Gate

6174

Approximate property line (Typ.)

MW-4
231.27
NS
A(3)

MW-7
227.88
NS
A(3)

MW-5
232.33
1,900
ND<0.50
90
Q

MW-8
230.92
NS
A(3)

MW-3
239.94
NS
A(3)

MW-2

MW-1

MW-6
241.52
NS
A(3)

VW-4
NA
ND<500
ND<5.0
130
Q

VW-3
NA
NS

VW-2
NA
NS

VW-1
NA
ND<50
ND<0.50
13
Q

AS-1

228.0

232.0

236.0

240.0

0.066

N

0 15 30 60

Scale (ft)

EXPLANATION

- Monitoring well
- Decommissioned monitoring well
- Vapor extraction well
- Air sparge well
- Well ID — Well designation
- ELEV — Groundwater elevation (ft above MSL)
- TPH-g, Benzene, MTBE, Q or A(q) — Concentration of TPH-g, Benzene and MTBE in groundwater in micrograms per liter (µg/L)
- Sampled Quarterly OR Sampled Annually in (quarter)
- NA — Not available, well casing
- NS — Not sampled
- ND< — Not detected at or above laboratory reporting limits
- 228.00 — Groundwater elevation contour
- 0.066 — Approximate groundwater flow direction and gradient (ft/ft)

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

URS	Project No. 38486463 Former ARCO Service Station #6002 6235 Seminary Avenue Oakland, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Fourth Quarter 2003 (November 13, 2003)	FIGURE 1

X:\x_env_waste\BP GEM\Sites\Scott Robinson\Paul Supple\6002\Monitoring\Qtr.4,2003\Drawings\GWEC_A8_11-13.dwg

Table 1
Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002
6235 Seminary Avenue, Oakland, California

Well Number	Date Sampled		TOC Elevation (ft-MSL)	Top of Screen (ft., MSL)	Total Well Depth (ft., BGS)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen[5] (mg/L)	pH Level[5]
MW-3	03/15/95		248.35	243.35	24.40	6.76	0.00	241.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	05/30/95					7.81	0.00	240.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	09/01/95					8.65	0.00	239.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	11/13/95					8.25	0.00	240.10	120	45	0.7	ND<0.5	6.2	--	--	--	--
	02/23/96					6.64	0.00	241.71	ND<50	ND<0.5	ND<0.5	0.6	1.9	ND<3	--	--	--
	05/10/96					7.95	0.00	240.40	Not sampled: well sampled annually, during the first quarter								
	08/09/96					8.06	0.00	240.29	Not sampled: well sampled annually, during the first quarter								
	11/08/96					NR	NR	NR	Not sampled: inaccessible								
	03/21/97					8.21	0.00	240.14	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	05/27/97					8.25	0.00	240.10	Not sampled: well sampled annually, during the first quarter								
	08/05/97					8.29	0.00	240.06	Not sampled: well sampled annually, during the first quarter								
	10/29/97					8.58	0.00	239.77	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	02/25/98					7.69	0.00	240.66	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	05/12/98					8.20	0.00	240.15	Not sampled: well sampled annually, during the first quarter								
	07/28/98					8.55	0.00	239.80	Not sampled: well sampled annually, during the first quarter								
	10/27/98					8.30	0.00	240.05	Not sampled: well sampled annually, during the first quarter								
	02/08/99					7.90	0.00	240.45	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	06/01/99					8.40	0.00	239.95	Not sampled: well sampled annually, during the first quarter								
	08/25/99					8.49	0.00	239.86	Not sampled: well sampled annually, during the first quarter							1.67	1.67
	10/29/99					8.52	0.00	239.83	Not sampled: well sampled annually, during the first quarter							6.90	6.90
	02/16/00	NP				8.03	0.00	240.32	ND<50	ND<0.5	0.8	ND<0.5	ND<1	ND<3	--	8.51	8.51
	06/23/00					7.55	0.00	240.80	Not sampled: well sampled annually, during the first quarter							2.10	2.10
	08/17/00					8.65	0.00	239.70	Not sampled: well sampled annually, during the first quarter							1.10	1.10
	11/10/00					7.19	0.00	241.16	Not sampled: well sampled annually, during the first quarter								
	02/12/01	NP				8.60	0.00	239.75	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	0.81	0.81
	04/13/01					6.13	0.00	242.22	Not sampled: well sampled annually, during the first quarter								
	07/18/01					6.47	0.00	241.88	Not sampled: well sampled annually, during the first quarter								
	10/01/01					6.99	0.00	241.36	Not sampled: well sampled annually, during the first quarter								
	01/14/02	NP				5.47	0.00	242.88	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	--	--
	04/03/02					6.95	0.00	241.40	Not sampled: well sampled annually, during the first quarter								
	08/08/02					8.78	0.00	239.57	Not sampled: well sampled annually, during the first quarter								
	11/27/02					8.52	0.00	239.83	Not sampled: well sampled annually, during the first quarter								
	02/10/03[4]	NP				8.40	0.00	239.95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	0.7	6.4
	06/03/03					8.40	0.00	239.95	Not sampled: well sampled annually, during the first quarter								
	08/14/03					8.60	0.00	239.75	Not sampled: well sampled annually, during the first quarter								
	11/13/03					**8.41**	**0.00**	**239.94**	**Not sampled: well sampled annually, during the first quarter**								

Table 1
Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002
6235 Seminary Avenue, Oakland, California

Well Number	Date Sampled		TOC Elevation (ft-MSL)	Top of Screen (ft., MSL)	Total Well Depth (ft., BGS)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen[5] (mg/L)	pH Level[5]
MW-4	03/15/95		242.91	238.41	24.00	9.37	0.00	233.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	05/30/95					11.47	0.00	231.44	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	09/01/95					12.28	0.00	230.63	78	ND<0.5	0.7	ND<0.5	ND<0.5	ND<3	--	--	--
	11/13/95					11.75	0.00	231.16	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	02/23/96					8.51	0.00	234.40	59	1.2	7.4	1.6	9.3	3	--	--	--
	05/10/96					11.35	0.00	231.56	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	08/09/96					9.70	0.00	233.21	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	11/08/96					11.79	0.00	231.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	03/21/97					10.94	0.00	231.97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	81	--	--	--
	05/27/97					11.51	0.00	231.40	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	08/05/97					11.90	0.00	231.01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	10/29/97					12.00	0.00	230.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	02/25/98					8.34	0.00	234.57	ND<50	ND<0.5	0.9	ND<0.5	0.9	4	--	--	--
	05/12/98					10.93	0.00	231.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	07/28/98					12.08	0.00	230.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	10/27/98					11.40	0.00	231.51	ND<5,000	ND<50	ND<50	160	64	6,400	--	--	--
	02/08/99					8.40	0.00	234.51	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	06/01/99	NP				11.93	0.00	230.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	4.0	4.0
	08/25/99	NP				12.21	0.00	230.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	1.29	1.29
	10/29/99	NP				12.37	0.00	230.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--	1.50	1.50
	02/16/00	NP				7.45	0.00	235.46	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--	2.38	2.38
	06/23/00	NP				12.31	0.00	230.60	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	2.80	2.80
DUP	08/17/00					--	--	--	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	--	--
	08/17/00	NP				11.92	0.00	230.99	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	2.38	2.38
	11/10/00	NP				10.80	0.00	232.11	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	1.55	1.55
	02/12/01	NP				11.65	0.00	231.26	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	1.12	1.12
	04/13/01	NP				8.17	0.00	234.74	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	--	--
DUP	04/13/01					--	--	--	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	--	--
	07/18/01	NP				8.51	0.00	234.40	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	--	--
	10/01/01	NP				8.71	0.00	234.20	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	--	--
	01/14/02	NP				7.13	0.00	235.78	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	--	--
DUP	01/14/02					--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	--	--
	04/03/02	NP				10.1	0.00	232.81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	--	--
	08/08/02	NP				12.64	0.00	230.27	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	2.4	8.1
	11/27/02	NP				12.01	0.00	230.90	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	4.7	2.5	6.5
	02/10/03[4]	NP				11.22	0.00	231.69	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	0.8	6.6
	06/03/03	NP				11.54	0.00	231.37	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	3.9	6.0
	08/14/03	NP				12.41	0.00	230.50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	1.8	6.3
	11/13/03					**11.64**	**0.00**	**231.27**	**Not sampled: well sampled annually, during the first quarter**								

Table 1
Groundwater Elevation and Analytical Data

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6235 Seminary Avenue, Oakland, California

Well Number	Date Sampled		TOC Elevation (ft-MSL)	Top of Screen (ft., MSL)	Total Well Depth (ft., BGS)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen[5] (mg/L)	pH Level[5]
MW-5	03/15/95		244.82	239.82	24.40	11.99	0.00	232.83	21,000	870	22	1,600	1,900	--	--	--	--
	05/30/95					12.97	0.00	231.85	17,000	2,100	250	1,000	520	--	--	--	--
	09/01/95					14.03	0.00	230.79	19,000	1,500	25	1,600	880	8,300	--	--	--
	11/13/95					13.65	0.00	231.17	21,000	1,300	22	1,400	630	--	--	--	--
	02/23/96					11.93	0.00	232.89	27,000	1,300	ND<50	1,600	1,500	730	--	--	--
	05/10/96					13.05	0.00	231.77	17,000	460	21	760	480	1,000	--	--	--
	08/09/96					13.22	0.00	231.60	16,000	420	14	870	390	1,500	--	--	--
	11/08/96					NR	NR	NR	Not sampled: well inaccessible								
	03/21/97					13.24	0.00	231.58	18,000	110	ND<50	730	1,500	1,800	--	--	--
	05/27/97					13.10	0.00	231.72	21,000	86	ND<20	810	610	1,700	--	--	--
	08/05/97					13.14	0.00	231.68	340	2.2	ND<0.5	15	8.8	39	--	--	--
	10/29/97					13.03	0.00	231.79	19,000	130	ND<20	1,400	620	1,700	--	--	--
	02/25/98					11.33	0.00	233.49	8,500	19	13	190	100	170	--	--	--
	05/12/98					12.81	0.00	232.01	10,000	34	ND<10	390	220	610	--	--	--
	07/28/98					13.12	0.00	231.70	15,000	68	ND<10	690	620	1,000	--	--	--
	10/27/98					12.90	0.00	231.92	15,000	60	ND<10	770	400	890	--	--	--
	02/08/99					11.08	0.00	233.74	8,200	23	ND<10	290	120	ND<60	--	--	--
	06/01/99	NP				12.95	0.00	231.87	11,000	33	3.3	340	180	580	--	1.0	1.0
	08/25/99	NP				12.99	0.00	231.83	9,200	26	14	420	270	1,100	--	0.37	0.37
	10/29/99	NP				13.10	0.00	231.72	11,000	19	9.8	260	150	590	--	1.27	1.27
	02/16/00	NP				8.21	0.00	236.61	12,000	8.1	10	340	160	130	--	1.42	1.42
	06/23/00	NP				12.90	0.00	231.92	9,680	38.0	ND<20.0	212	114	930	--	1.40	1.40
	08/17/00	NP				13.00	0.00	231.82	10,500	15.0	7.98	223	118	430	--	0.68	0.68
	11/10/00	NP				12.50	0.00	232.32	7,030	19.7	ND<10.0	190	43.6	445	--	1.27	1.27
	02/12/01	NP				12.81	0.00	232.01	8,840	33.9	ND<10.0	186	56.4	352	--	0.40	0.40
	04/13/01	NP				11.31	0.00	233.51	9,020	54.2	43.3	137	96.0	297	--	--	--
	07/18/01	NP				11.59	0.00	233.23	13,000	19	10	110	49	230	--	--	--
	10/01/01	NP				11.84	0.00	232.98	8,500	6.9	ND<1.0	87	27	220	--	--	--
	01/14/02	NP				10.75	0.00	234.07	9,500	ND<20	ND<20	140	22	ND<200	--	--	--
	04/03/02	NP				12.50	0.00	232.32	2,400	21	ND<5.0	91	8.5	130	--	--	--
DUP	04/03/02	NP				--	--	--	2,700	24.0	5.1	92	8.5	130	--	--	--
	08/08/02	NP				12.83	0.00	231.99	2,000	ND<20	ND<20	48	ND<20	520	--	0.8	6.9
	11/27/02	NP				12.79	0.00	232.03	2,200	ND<10	ND<10	33	ND<10	--	150	0.8	6.4
	02/10/03[4]	NP				12.62	0.00	232.20	2,600	ND<2.5	ND<2.5	47	4.2	--	100	0.7	6.6
	06/03/03	NP				12.41	0.00	232.41	2,400	ND<5.0	ND<5.0	26	ND<5.0	--	160	1.8	6.3
	08/14/03					NR	NR	NR	Not sampled: well inaccessible								
	11/13/03	**NP**				**12.49**	**0.00**	**232.33**	**1,900**	**ND<5.0**	**ND<5.0**	**13**	**ND<5.0**	**--**	**90**	**0.9**	**6.4**

Table 1
Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002
6235 Seminary Avenue, Oakland, California

Well Number	Date Sampled		TOC Elevation (ft-MSL)	Top of Screen (ft., MSL)	Total Well Depth (ft., BGS)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen[5] (mg/L)	pH Level[5]
MW-6	06/29/95		NR			6.63	0.00	NR	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	09/01/95		NR			NR	NR	NR	Not sampled								
	11/13/95		NR			7.70	0.00	NR	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	02/23/96		NR			9.82	0.00	NR	ND<50	ND<0.5	0.8	ND<0.5	0.6	ND<3	--	--	--
	05/10/96		NR			15.25	0.00	NR	Not sampled: well sampled annually, during the first quarter								
	08/09/96		252.20	235.20	30.00	11.11	0.00	241.09	Not sampled: well sampled annually, during the first quarter								
	11/08/96					9.31	0.00	242.89	Not sampled: well sampled annually, during the first quarter								
	03/21/97					9.40	0.00	242.80	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	05/27/97					7.08	0.00	245.12	Not sampled: well sampled annually, during the first quarter								
	08/05/97					7.12	0.00	245.08	Not sampled: well sampled annually, during the first quarter								
	10/29/97					7.42	0.00	244.78	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	02/25/98					10.35	0.00	241.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	05/12/98					15.83	0.00	236.37	Not sampled: well sampled annually, during the first quarter								
	07/28/98					11.84	0.00	240.36	Not sampled: well sampled annually, during the first quarter								
	10/27/98					9.73	0.00	242.47	Not sampled: well sampled annually, during the first quarter								
	02/08/99					8.10	0.00	244.10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	06/01/99					17.84	0.00	234.36	Not sampled: well sampled annually, during the first quarter								
	08/25/99					11.00	0.00	241.20	Not sampled: well sampled annually, during the first quarter							0.77	0.77
	10/29/99					9.03	0.00	243.17	Not sampled: well sampled annually, during the first quarter							3.42	3.42
	02/16/00	P				7.71	0.00	244.49	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--	2.42	2.42
	06/23/00					6.69	0.00	245.51	Not sampled: well sampled annually, during the first quarter							2.30	2.30
	08/17/00					6.95	0.00	245.25	Not sampled: well sampled annually, during the first quarter							2.51	2.51
	11/10/00					11.79	0.00	240.41	Not sampled: well sampled annually, during the first quarter								
	02/12/01	P				7.35	0.00	244.85	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	1.66	1.66
DUP	02/12/01					--	--	--	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	--	--
	04/13/01					10.52	0.00	241.68	Not sampled: well sampled annually, during the first quarter								
	07/18/01					11.03	0.00	241.17	Not sampled: well sampled annually, during the first quarter								
	10/01/01					11.31	0.00	240.89	Not sampled: well sampled annually, during the first quarter								
	01/14/02	P				9.87	0.00	242.33	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	--	--
	04/03/02					12.19	0.00	240.01	Not sampled: well sampled annually, during the first quarter								
	08/08/02					7.04	0.00	245.16	Not sampled: well sampled annually, during the first quarter								
	11/27/02					6.85	0.00	245.35	Not sampled: well sampled annually, during the first quarter								
	02/10/03[4]	NP				6.74	0.00	245.46	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	1.1	7.4
	06/03/03					14.35	0.00	237.85	Not sampled: well sampled annually, during the first quarter								
	08/14/03					10.74	0.00	241.46	Not sampled: well sampled annually, during the first quarter								
	11/13/03					**10.68**	**0.00**	**241.52**	**Not sampled: well sampled annually, during the first quarter**								

Table 1
Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002
6235 Seminary Avenue, Oakland, California

Well Number	Date Sampled		TOC Elevation (ft-MSL)	Top of Screen (ft., MSL)	Total Well Depth (ft., BGS)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen[5] (mg/L)	pH Level[5]
MW-7	08/09/96		235.95	227.45	13.30	NR	NR	NR	Not sampled: well was dry								
	11/08/96					NR	NR	NR	Not sampled: well was dry								
	01/27/97					NR	NR	NR	2,900	29	ND<5	ND<5	580	220	--	--	--
	03/21/97					7.13	0.00	228.82	590	3.5	ND<0.5	ND<0.5	1.3	90	--	--	--
	05/27/97					9.02	0.00	226.93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	08/05/97					12.33	0.00	223.62	110	0.5	ND<0.5	ND<0.5	0.8	81	--	--	--
	10/29/97					NR	NR	NR	Not sampled: well was dry								
	02/25/98					8.04	0.00	227.91	ND<50	ND<0.5	0.6	ND<0.5	0.7	ND<3	--	--	--
	05/12/98					8.88	0.00	227.07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	07/28/98					10.50	0.00	225.45	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	10/27/98					8.75	0.00	227.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	02/08/99					9.35	0.00	226.60	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	06/01/99	NP				9.85	0.00	226.10	250	ND<0.5	0.6	ND<0.5	1.6	18	--	1.0	1.0
	08/25/99	NP				11.31	0.00	224.64	119	ND<0.5	5.7	ND<0.5	ND<0.5	11	--	0.41	0.41
	10/29/99	NP				9.08	0.00	226.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--	1.29	1.29
	02/25/00	NP				8.02	0.00	227.93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	38	--	2.10	2.10
	06/23/00	NP				10.68	0.00	225.27	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	14.4	--	1.60	1.60
	08/17/00	NP				11.85	0.00	224.10	70.0	ND<0.500	0.678	ND<0.500	1.07	14.2	--	1.59	1.59
	11/10/00	NP				9.62	0.00	226.33	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	1.09	1.09
	02/12/01	NP				12.10	0.00	223.85	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	0.84	0.84
	04/13/01	P				7.95	0.00	228.00	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	--	--
	07/18/01	P				8.20	0.00	227.75	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	--	--
	10/01/01	NP				8.59	0.00	227.36	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	--	--
	01/14/02	P				6.93	0.00	229.02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	--	--
	04/03/02	P				8.31	0.00	227.64	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	--	--
	08/08/02	P				12.11	0.00	223.84	Not sampled: insufficient water/recharge for purge/sample								
	11/27/02	NP				13.01	0.00	222.94	Not sampled: insufficient water								
	02/10/03[4]	NP				10.02	0.00	225.93	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	1.5	6.7
	06/03/03	NP				6.82	0.00	229.13	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	8.1	6.8
	08/14/03	P				8.16	0.00	227.79	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	2.8	6.7
	11/13/03					**8.07**	**0.00**	**227.88**	**Not sampled: well sampled annually, during the first quarter**								

Table 1
Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002
6235 Seminary Avenue, Oakland, California

Well Number	Date Sampled		TOC Elevation (ft-MSL)	Top of Screen (ft., MSL)	Total Well Depth (ft., BGS)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen[5] (mg/L)	pH Level[5]
MW-8	08/09/96		240.37	234.87	13.90	9.41	0.00	230.96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	11/08/96					9.19	0.00	231.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	03/21/97					8.55	0.00	231.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	05/27/97					11.06	0.00	229.31	91	0.6	ND<0.5	ND<0.5	0.6	66	--	--	--
	08/05/97					9.32	0.00	231.05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	10/29/97					9.35	0.00	231.02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	02/25/98					7.08	0.00	233.29	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	05/12/98					8.61	0.00	231.76	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	07/28/98					9.63	0.00	230.74	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4	--	--	--
	10/27/98					9.30	0.00	231.07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	02/08/99					5.56	0.00	234.81	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	06/01/99					NR	NR	NR	Not sampled: well inaccessible								
	08/25/99					NR	NR	NR	Not sampled: well inaccessible								
	10/29/99					NR	NR	NR	Not sampled: well inaccessible								
	02/16/00					NR	NR	NR	Not sampled: well inaccessible								
	06/23/00	NP				9.45	0.00	230.92	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	1.90	1.90
	08/17/00	NP				6.40	0.00	233.97	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	2.56	2.56
	11/10/00	NP				6.25	0.00	234.12	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	1.93	1.93
DUP	11/10/00					--	--	--	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	--	--
	02/12/01	NP				8.11	0.00	232.26	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	1.65	1.65
	04/13/01	P				5.19	0.00	235.18	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	--	--
	07/18/01	NP				5.55	0.00	234.82	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	--	--
	10/01/01	NP				6.41	0.00	233.96	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	--	--
	01/14/02	P				5.07	0.00	235.30	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	--	--
	04/03/02	P				8.60	0.00	231.77	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	--	--
	08/08/02	P				9.58	0.00	230.79	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	1.7	7.0
	11/27/02	P				9.15	0.00	231.22	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	3.1	6.7
	02/10/03[4]	P				8.55	0.00	231.82	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	1.3	6.6
	06/03/03	P				8.72	0.00	231.65	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	9.1	6.3
	08/14/03	P				9.52	0.00	230.85	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	5.5	6.4
	11/13/03					**9.45**	**0.00**	**230.92**	**Not sampled: well sampled annually, during the first quarter**								

Table 1
Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002
6235 Seminary Avenue, Oakland, California

Well Number	Date Sampled		TOC Elevation (ft-MSL)	Top of Screen (ft., MSL)	Total Well Depth (ft., BGS)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen[5] (mg/L)	pH Level[5]
VW-1	02/23/96		NR	6 ft. bgs	13.50	5.29	0.00	NR	21,000	490	57	520	1,500	240	--	--	--
	05/10/96		NR			6.80	0.00	NR	3,700	61	ND<5	100	50	200	--	--	--
	08/09/96		NR			7.03	0.00	NR	970	2.7	ND<2.5	2.7	3.7	180	--	--	--
	11/08/96		NR			NR	NR	NR	Not sampled: well inaccessible								
	03/21/97		NR			7.51	0.00	NR	640	ND<4	ND<1	1	3	194	--	--	--
	05/27/97		NR			7.51	0.00	NR	Not sampled: well sampled semi-annually, during the first and third quarters								
	08/05/97		NR			7.51	0.00	NR	630	ND<1	ND<1	3	2	120	--	--	--
	10/29/97		NR			7.53	0.00	NR	600	ND<0.5	ND<0.5	ND<0.5	1.6	84	--	--	--
	02/25/98		NR			6.77	0.00	NR	230	ND<4	ND<0.7	1.2	0.5	27	--	--	--
	05/12/98		NR			7.43	0.00	NR	340	ND<0.5	0.5	2.3	0.8	29	--	--	--
	07/28/98		NR			7.00	0.00	NR	240	ND<0.5	ND<0.5	ND<0.5	1.1	54	--	--	--
	10/27/98		NR			7.52	0.00	NR	230	ND<0.5	ND<0.5	ND<0.5	ND<0.5	65	--	--	--
	02/08/99		NR			7.05	0.00	NR	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	36[3]	--	--
	06/01/99	NP	NR			7.55	0.00	NR	180	ND<0.5	ND<0.5	ND<0.5	ND<0.5	23	--	1.0	1.0
	08/25/99	NP	NR			7.66	0.00	NR	130	ND<0.5	5.6	ND<0.5	ND<0.5	40	--	0.39	0.39
	10/29/99	NP	NR			7.59	0.00	NR	200	1.0	ND<0.5	0.6	1.6	36	--	0.89	0.89
	02/16/00	NP	NR			7.03	0.00	NR	210	ND<0.5	0.9	2.2	1.9	11	--	1.41	1.41
	06/23/00	NP	NR			7.71	0.00	NR	175	1.04	ND<0.500	ND<0.500	ND<0.500	14.4	--	1.90	1.90
	08/17/00	NP	NR			7.75	0.00	NR	180	ND<0.500	ND<0.500	0.622	0.760	23.7	--	0.63	0.63
	11/10/00	NP	NR			6.83	0.00	NR	157	0.955	ND<0.500	0.973	ND<0.500	32.5	--	1.03	1.03
	02/12/01	NP	NR			7.85	0.00	NR	273	0.627	ND<0.500	ND<0.500	0.507	9.19	--	0.47	0.47
	04/13/01	P	NR			5.11	0.00	NR	213	ND<0.500	ND<0.500	ND<0.500	ND<0.500	6.38	--	--	--
	07/18/01	P	NR			5.39	0.00	NR	270	ND<0.50	ND<0.50	ND<0.50	ND<0.50	20	--	--	--
	10/01/01	NP	NR			6.50	0.00	NR	200	ND<0.50	ND<0.50	ND<0.50	0.81	14	--	--	--
	01/14/02	P	NR			5.04	0.00	NR	110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.4	--	--	--
	04/03/02	P	NR			7.51	0.00	NR	91	0.72	ND<0.50	ND<0.50	ND<0.50	12.0	--	--	--
	08/08/02	P	NR			9.58	0.00	NR	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	33.0	--	0.6	6.3
	11/27/02	P	NR			7.42	0.00	NR	52	0.72	0.78	ND<0.50	ND<0.50	--	21	1.0	6.1
	02/10/03[4]	NP	NR			7.38	0.00	NR	52	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	11	1.7	6.5
	06/03/03	P	NR			7.30	0.00	NR	71	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	13	3.3	6.3
	08/14/03	P	NR			7.59	0.00	NR	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	18	0.3	6.1
	11/13/03	**P**	**NR**			**7.43**	**0.00**	**NR**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**13**	**0.6**	**6.1**
VW-3	08/08/02		NR			8.85	0.00	NR	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.5	--	0.7	6.1
	11/27/02		NR			8.80	0.00	NR	Not sampled: well not part of sampling program								
	02/10/03[4]		NR			8.41	0.00	NR	Not sampled: well not part of sampling program								
	06/03/03		NR			8.71	0.00	NR	Not sampled: well not part of sampling program								
	08/14/03		NR			8.81	0.00	NR	Not sampled: well not part of sampling program								
	11/13/03		**NR**			**8.75**	**0.00**	**NR**	**Not sampled: well not part of sampling program**								

Table 1
Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002
6235 Seminary Avenue, Oakland, California

Well Number	Date Sampled		TOC Elevation (ft-MSL)	Top of Screen (ft., MSL)	Total Well Depth (ft., BGS)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen[5] (mg/L)	pH Level[5]
VW-4	05/10/96		NR	6 ft. bgs	15.00	8.58	0.00	NR	13,000	2,500	41	420	660	43,000	--	--	--
	08/09/96		NR			11.70	0.00	NR	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6,200	--	--	--
	11/08/96		NR			9.38	0.00	NR	7,800	510	7	180	370	21,000	--	--	--
	03/21/97		NR			9.11	0.00	NR	10,000	290	10	270	230	8,900	--	--	--
	05/27/97		NR			9.34	0.00	NR	Not sampled: well sampled semi-annually, during the first and third quarters								
	08/05/97		NR			9.47	0.00	NR	ND<10,000	180	ND<100	ND<100	110	12,000	--	--	--
	10/29/97		NR			9.35	0.00	NR	9,800	200	69	260	360	4,900	--	--	--
	02/25/98		NR			7.08	0.00	NR	ND<50	2.5	ND<0.5	ND<0.5	0.7	ND<3	--	--	--
	05/12/98		NR			9.17	0.00	NR	3,200	ND<20	22	29	52	2,100	--	--	--
	07/28/98		NR			9.55	0.00	NR	ND<10,000	ND<100	ND<100	ND<100	ND<100	5,100	--	--	--
	10/27/98		NR			9.92	0.00	NR	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--		
	02/08/99		NR			7.50	0.00	NR	ND<2,500	ND<25	ND<25	28	ND<25	2,400	3,100[3]	--	--
	06/01/99	NP	NR			9.87	0.00	NR	2,100	2.5	1.1	2.5	15	3,300	--	2.0	2.0
	08/25/99	NP	NR			9.78	0.00	NR	1,300	4.4	4.9	1.7	2.9	4,600	--	0.36	0.36
	10/29/99	NP	NR			9.93	0.00	NR	1,400	ND<0.5	1.8	1.6	3.0	4,200	--	1.18	1.18
	02/16/00	NP	NR			7.45	0.00	NR	1,800	ND<0.5	2.9	15	10	3,400	--	1.01	1.01
DUP 1	06/23/00		--			--	--	--	1,260	ND<2.00	ND<2.00	ND<2.00	2.73	2,720	--	--	--
	06/23/00	NP	NR			9.74	0.00	NR	1,360	ND<2.00	2.26	ND<2.00	2.25	4,900	--	1.50	1.50
	08/17/00	NP	NR			9.95	0.00	NR	2,230	ND<10.0	ND<10.0	ND<10.0	ND<10.0	5,310	--	1.13	1.13
	11/10/00	NP	NR			9.22	0.00	NR	1,390	18.5	ND<5.00	ND<5.00	ND<5.00	8,840	--	1.25	1.25
	02/12/01	NP	NR			8.99	0.00	NR	1,400	9.42	ND<2.00	17.8	16.1	3,570	--	0.91	0.91
	04/13/01	NP	NR			7.80	0.00	NR	556	3.82	ND<1.25	ND<1.25	ND<1.25	2,450	--	--	--
	07/18/01	NP	NR			7.73	0.00	NR	2,100	9.2	ND<2.0	ND<2.0	ND<2.0	3,700	--	--	--
DUP 1	07/18/01		--			--	--	--	2,000	8.7	2.2	ND<2.0	ND<2.0	3,400	--	--	--
	10/01/01	NP	NR			6.69	0.00	NR	2,000	ND<10	ND<10	ND<10	13	5,900	--	--	--
DUP	10/01/01		--			--	--	--	1,800	ND<10	ND<10	ND<10	ND<10	5,800	--	--	--
	01/14/02	P	NR			5.93	0.00	NR	580	ND<2.0	ND<2.0	ND<2.0	ND<2.0	2,700	--	--	--
	04/03/02	NP	NR			9.6	0.00	NR	1,400	5.2	16.0	ND<5.0	9.6	2,200	--	--	--
	08/08/02		NR			10.01	0.00	NR	Not sampled: well not part of sampling program								
	11/27/02	P	NR			10.30	0.00	NR	ND<10,000	ND<100	ND<100	ND<100	ND<100	--	3,800	1.7	6.7
	02/10/03[4]	NP	NR			10.06	0.00	NR	ND<5,000	ND<50	ND<50	ND<50	ND<50	--	2,500	1.0	6.8
	06/03/03	P	NR			10.04	0.00	NR	ND<1,000	ND<10	ND<10	ND<10	ND<10	--	440	1.9	6.6
	08/14/03	P	NR			9.66	0.00	NR	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	170	0.8	6.7
	11/13/03	**P**	**NR**			**10.01**	**0.00**	**NR**	**ND<500**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	--	**130**	**1.7**	**6.4**

Table 1
Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002
6235 Seminary Avenue, Oakland, California

Well Number	Date Sampled	TOC Elevation (ft-MSL)	Top of Screen (ft., MSL)	Total Well Depth (ft., BGS)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen[5] (mg/L)	pH Level[5]
MW-1	03/15/95	247.06			7.37	0.00	239.69	13,000	1,200	44	770	1,100	--	--	--	--
	05/30/95	247.06			8.48	0.00	238.58	19,000	1,600	30	890	1,400	--	--	--	--
	09/01/95	247.06			9.47	0.00	237.59	14,000	1,300	28	480	780	24,000	--	--	--
	11/13/95	247.06			8.78	0.01	238.29 [1]	11,000	570	17	260	410	--	25,000 [2]	--	--
	02/23/96	247.06			Well was decommissioned on 2-12-96											
MW-2	03/15/95	249.30			8.25	0.00	241.05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	05/30/95	249.30			9.93	0.00	239.37	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	09/01/95	249.30			10.69	0.00	238.61	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	--
	11/13/95	249.30			10.32	0.00	238.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	02/23/96	249.30			Well was decommissioned on 2-12-96											
VW-2	02/23/96	NR			6.92	0.00	NR	Not sampled: well not part of sampling program								
	08/08/02	NR			10.51	0.00	NR	Not sampled: well not part of sampling program								
AS-1	06/29/95	NR			9.20	0.00	NR	ND<50	1.6	ND<0.5	0.9	0.9	--	--	--	--

Table 1
Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002
6235 Seminary Avenue, Oakland, California

Abbreviation

TPH-g	= Total petroleum hydrocarbons as gasoline by modified EPA method 8260B (EPA Method 8015M prior to 2/10/03).
BTEX	= Benzene, toluene, ethylbenzene, xylenes by EPA method 8260B (EPA method 8021B from 10/29/99 to 2/10/03, and 8020 prior to 10/29/99).
MTBE	= Methyl tertiary butyl ether
*	= EPA method 8020 prior to 10/29/99
TOC	= Top of Casing
ft-MSL	= elevation in feet, relative to mean sea level
µg/L	= micrograms per liter
mg/L	= milligrams per liter
NR	= not reported; data not available or not measurable
--	= not analyzed, not available, or not applicable
ND<	= not detected at or above the laboratory detection limit.
1	= [corrected elevation (Z')] = Z + (h * 0.73) where: Z: measured elevation, h: floating product thickness, 0.73: density ratio of oil to water
2	= analyzed by EPA method 8240
3	= also analyzed for fuel oxygenates
4	=TPH-g, BTEX and MTBE analyzed by EPA method 8260B beginning on 1st quarter 2003 sampling event
5	= Dissolved oxygen and pH levels are field measurements.
DUP	= duplicate

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

Note: For previous historical groundwater elevation data please refer to Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 6002, Oakland, California, (EMCON, February 23, 1996)

Table 2
Groundwater Flow Direction and Gradient

Former ARCO Service Station #6002
6235 Seminary Avenue, Oakland, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
03/15/95	West-Southwest	0.08
05/30/95	West-Southwest	0.08
09/01/95	West-Southwest	0.09
11/13/95	West-Southwest	0.08
02/23/96	West-Southwest	0.08
05/10/96	West-Southwest	0.08
08/09/96	Southwest	0.08
11/08/96	Southwest	0.055
03/21/97	West-Southwest	0.051
05/27/97	West-Southwest	0.069
08/05/97	West	0.076
10/29/97	West-Southwest	0.036
02/25/98	West-Southwest	0.052
05/12/98	West	0.07
07/28/98	West	0.07
10/27/98	West-Southwest	0.06
02/08/99	West-Southwest	0.07
06/01/99	West-Northwest	0.07
08/25/99	West-Southwest	0.07
10/29/99	West	0.07
02/16/00	Southwest	0.05
06/23/00	West	0.042
08/17/00	West	0.087
11/10/00	West-Southwest	0.080
02/12/01	West-Southwest	0.074
04/13/01	West	0.085
07/18/01	West	0.075
10/01/01	West-Southwest	0.083
01/14/02	West-Southwest	0.072
04/03/02	West-Southwest	0.084
08/08/02	West-Southwest	0.088
11/27/02	West-Southwest	0.075
02/10/03	Southwest	0.062
06/03/03	West	0.069
08/14/03	West-Southwest	0.066
11/13/03	**West-Southwest**	**0.066**

Source:

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

Table 3
Fuel Oxygenate Analytical Data

Former ARCO Service Station #6002
6235 Seminary Avenue
Oakland, 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-DCA (µg/L)	EDB (µg/L)
MW-3	02/10/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-4	02/10/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/03/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	08/14/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-5	02/10/03	ND<200	ND<100	100	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/03/03	ND<1,000	ND<200	160	ND<5.0	ND<5.0	ND<5.0	NA	NA
	11/13/03	**ND<1,000**	**ND<200**	**90**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**NA**	**NA**
MW-6	02/10/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-7	02/10/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/03/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	08/14/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-8	02/10/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/03/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	08/14/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
VW-1	02/10/03	ND<40	ND<20	11	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/03/03	ND<100	ND<20	13	ND<0.50	ND<0.50	ND<0.50	NA	NA
	08/14/03	ND<100	ND<20	18	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	11/13/03	**ND<100**	**ND<20**	**13**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**NA**	**NA**
VW-4	02/10/03	ND<4,000	ND<2,000	2,500	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/03/03	ND<2,000	4,100	440	ND<10	ND<10	ND<10	NA	NA
	08/14/03	ND<1,000	3,200	170	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	11/13/03	**ND<1,000**	**3,300**	**130**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**NA**	**NA**

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
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
µg/L = micrograms per liter
ND< = Not detected at or above the laboratory reporting limit
NS = Not sampled
NA = Not analyzed

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 Teflon™ 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 # 031113-Ac1 Date 11/13/03 Client Arco 6002

Site 6235 Seminary Ave, Oakland

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-3	4					8.41	24.55	TOC	go
MW-4	4					11.64	24.04		go
MW-5	4					12.49	24.28		NP@5'
MW-6	2					10.68	31.95		go
MW-7	2					8.07	13.11		go
MW-8	2					9.45	13.92 ~~13.42~~		go
VW-1	4					7.43	13.90		P
VW-3	4					8.75	14.03		go
VW-4	4					10.01	14.70		P

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031113-AC1	Station # Arco 6602
Sampler: AC	Date: 11/13/03
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 24.28	Depth to Water: 12.49
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~~ / ~~Positive Air Displacement~~ / ~~Electric Submersible~~ / ~~Extraction Pump~~ / Other: ___

Sampling Method: Bailer / (Disposable Bailer) / ~~Extraction Port~~ / Other: ___

Top of Screen: 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.

NO Purge (1 Case Volume (Gals.)) X ___ (Specified Volumes) = ___ (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
0940	66.1	6.4	670	—	Clear, odor
					* used BTS stock vials

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Time: 0940 Sampling Date: 11/13/03

Sample I.D.: MW-5 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's + Ethanol

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	0.9	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031113-AC1	Station # Arco 6002
Sampler: AC	Date: 11/13/03
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 13.90	Depth to Water: 7.43
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 / Positive Air Displacement / (Electric Submersible) / Extraction Pump / Other: ____

Sampling Method: Bailer / (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.

4.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 13.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
0859	67.3	5.8	663	4.5	Clear
0900	68.3	5.9	647	9	"
0901	68.5	6.1	656	13.5	"
					* Used BTS stock H2O2

Did well dewater? Yes (No) Gallons actually evacuated: 13.5

Sampling Time: 0905 Sampling Date: 11/13/03

Sample I.D.: MW-1 Laboratory: Pace (Sequoia) Other ____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's + Ethanol

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	0.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031113-AC1	Station # Arco 6002
Sampler: AC	Date: 11/13/03
Well I.D.: VW-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 14.70	Depth to Water: 10.01
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 / Positive Air Displacement / (Electric Submersible) / Extraction Pump / Other: ____

Sampling Method: Bailer / (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.

3.5 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 10.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
0923	64.9	6.3	791	3.5	clear
	well dewatered	@	5 gal		
0950	64.8	6.4	797	—	DTW = 10.75
					* used BTS stock vocs

Did well dewater? (Yes) No Gallons actually evacuated: 5

Sampling Time: 0950 Sampling Date: 11/13/03

Sample I.D.: VW-4 Laboratory: Pace (Sequoia) Other ____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's + Ethanol

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	1.7	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

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 6002

Station #

6235 Seminary Ave, Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

25

added equip. rinse water 10

any other adjustments

TOTAL GALS. RECOVERED 35

loaded onto BTS vehicle # 52

BTS event # 031113-AC1

time 1015

date 11/13/03

signature Alan Costa

* *

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 ARCO 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

3 December, 2003

Scott Robinson
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland, CA 94607

RE: ARCO #6002, Oakland, CA
Work Order: MMK0608

Enclosed are the results of analyses for samples received by the laboratory on 11/14/03 18:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley For Theresa Allen
Project Manager

CA ELAP Certificate #1210

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URS Corporation [Arco]	Project: ARCO #6002, Oakland, CA	MMK0608
500 12th Street, Suite 200	Project Number: INTRIM-50675	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/03/03 10:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	MMK0608-01	Water	11/13/03 09:40	11/14/03 18:20
VW-1	MMK0608-02	Water	11/13/03 09:05	11/14/03 18:20
VW-4	MMK0608-03	Water	11/13/03 09:50	11/14/03 18:20

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500 12th Street, Suite 200	Project Number: INTRIM-50675	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/03/03 10:11

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MMK0608-01) Water Sampled: 11/13/03 09:40 Received: 11/14/03 18:20									
Ethanol	ND	1000	ug/l	10	3K23001	11/23/03	11/23/03	EPA 8260B	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Methyl tert-butyl ether	**90**	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**13**	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics	**1900**	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*78-129*		"	"	"	"	
VW-1 (MMK0608-02) Water Sampled: 11/13/03 09:05 Received: 11/14/03 18:20									
Ethanol	ND	100	ug/l	1	3K23001	11/23/03	11/23/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**13**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: ARCO #6002, Oakland, CA	MMK0608
500 12th Street, Suite 200	Project Number: INTRIM-50675	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/03/03 10:11

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VW-4 (MMK0608-03) Water Sampled: 11/13/03 09:50 Received: 11/14/03 18:20									
Ethanol	ND	1000	ug/l	10	3K23001	11/23/03	11/23/03	EPA 8260B	
tert-Butyl alcohol	**3300**	200	"	"	"	"	"	"	
Methyl tert-butyl ether	**130**	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics	ND	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: ARCO #6002, Oakland, CA	MMK0608
500 12th Street, Suite 200	Project Number: INTRIM-50675	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/03/03 10:11

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
Batch 3K23001 - EPA 5030B P/T										
Blank (3K23001-BLK1)				Prepared & Analyzed: 11/23/03						
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	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*5.13*		"	*5.00*		*103*	*78-129*			
Laboratory Control Sample (3K23001-BS1)				Prepared & Analyzed: 11/23/03						
Ethanol	225	100	ug/l	200		112	31-186			
tert-Butyl alcohol	49.0	20	"	50.0		98.0	0-206			
Methyl tert-butyl ether	9.75	0.50	"	10.0		97.5	63-137			
Di-isopropyl ether	9.79	0.50	"	10.0		97.9	76-130			
Ethyl tert-butyl ether	9.90	0.50	"	10.0		99.0	61-141			
tert-Amyl methyl ether	10.1	0.50	"	10.0		101	56-140			
1,2-Dichloroethane	10.2	0.50	"	10.0		102	77-136			
1,2-Dibromoethane (EDB)	9.48	0.50	"	10.0		94.8	77-132			
Benzene	10.1	0.50	"	10.0		101	78-124			
Toluene	9.54	0.50	"	10.0		95.4	78-129			
Ethylbenzene	9.29	0.50	"	10.0		92.9	84-117			
Xylenes (total)	28.0	0.50	"	30.0		93.3	83-125			
Surrogate: 1,2-Dichloroethane-d4	*5.25*		"	*5.00*		*105*	*78-129*			

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URS Corporation [Arco]	Project: ARCO #6002, Oakland, CA	MMK0608
500 12th Street, Suite 200	Project Number: INTRIM-50675	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/03/03 10:11

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
Batch 3K23001 - EPA 5030B P/T										
Laboratory Control Sample (3K23001-BS2)				Prepared & Analyzed: 11/23/03						
Methyl tert-butyl ether	8.24	0.50	ug/l	9.92		83.1	63-137			
Benzene	5.44	0.50	"	6.40		85.0	78-124			
Toluene	29.6	0.50	"	29.7		99.7	78-129			
Ethylbenzene	7.11	0.50	"	6.96		102	84-117			
Xylenes (total)	34.1	0.50	"	33.7		101	83-125			
Gasoline Range Organics	405	50	"	440		92.0	70-113			
Surrogate: 1,2-Dichloroethane-d4	*5.44*		*"*	*5.00*		*109*	*78-129*			
Laboratory Control Sample Dup (3K23001-BSD1)				Prepared & Analyzed: 11/23/03						
Ethanol	160	100	ug/l	200		80.0	31-186	33.8	37	
tert-Butyl alcohol	35.7	20	"	50.0		71.4	0-206	31.4	22	O-10, QR-02
Methyl tert-butyl ether	9.13	0.50	"	10.0		91.3	63-137	6.57	13	
Di-isopropyl ether	9.59	0.50	"	10.0		95.9	76-130	2.06	9	
Ethyl tert-butyl ether	9.57	0.50	"	10.0		95.7	61-141	3.39	9	
tert-Amyl methyl ether	9.48	0.50	"	10.0		94.8	56-140	6.33	12	
1,2-Dichloroethane	9.96	0.50	"	10.0		99.6	77-136	2.38	13	
1,2-Dibromoethane (EDB)	9.12	0.50	"	10.0		91.2	77-132	3.87	9	
Benzene	9.99	0.50	"	10.0		99.9	78-124	1.10	12	
Toluene	9.24	0.50	"	10.0		92.4	78-129	3.19	10	
Ethylbenzene	9.23	0.50	"	10.0		92.3	84-117	0.648	10	
Xylenes (total)	27.3	0.50	"	30.0		91.0	83-125	2.53	11	
Surrogate: 1,2-Dichloroethane-d4	*5.08*		*"*	*5.00*		*102*	*78-129*			
Laboratory Control Sample Dup (3K23001-BSD2)				Prepared & Analyzed: 11/23/03						
Methyl tert-butyl ether	8.22	0.50	ug/l	9.92		82.9	63-137	0.243	13	
Benzene	5.52	0.50	"	6.40		86.2	78-124	1.46	12	
Toluene	29.6	0.50	"	29.7		99.7	78-129	0.00	10	
Ethylbenzene	7.01	0.50	"	6.96		101	84-117	1.42	10	
Xylenes (total)	34.1	0.50	"	33.7		101	83-125	0.00	11	
Gasoline Range Organics	405	50	"	440		92.0	70-113	0.00	9	
Surrogate: 1,2-Dichloroethane-d4	*5.34*		*"*	*5.00*		*107*	*78-129*			

Sequoia Analytical

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URS Corporation [Arco]	Project: ARCO #6002, Oakland, CA	MMK0608
500 12th Street, Suite 200	Project Number: INTRIM-50675	**Reported:**
Oakland CA, 94607	Project Manager: Scott Robinson	12/03/03 10:11

Notes and Definitions

O-10	The result was reported with a possible low bias due to the continuing calibration verification falling outside the acceptance criteria.
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.
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

mmk0608

Page 1 of 1

Chain of Custody Record

bp

Project Name 6002 GWM
BP BU/GEM CO Portfolio Retail
BP Laboratory Contract Number: Atlantic Richfield Company
Date: 11/13/03 Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: 0815 Temp: 62°
Off-site Time: 1015 Temp: 65°
Sky Conditions: Cloudy
Meteorological Events:
Wind Speed: 0 mph Direction:

Send To:	BP/GEM Facility No.: ARCO 6002	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 6235 Seminary Ave, OAKLAND, CA	Address: 500 12th St., Ste. 200
Lab Address: 885 Jarvis Dr.	Site ID No. ARCO 6002	Oakland, CA 94609-4014
Morgan Hill, CA 95037	Site Lat/Long:	e-mail BDD: donna_cosper@URSCorp.com
	California Global ID #: T0600100105	Consultant/Contractor Project No.: 35-00006002.01 00427
Lab PM Theresa Allen	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-893-3600/510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address: P.O. Box 6549	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: 1 Send EDF Reports	Moraga, CA 94570	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.:	Tele/Fax: 925-299-8891/925-299-8872	BP/GEM Work Release No: INTRIM -50675

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediment	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: TPH-G / BTEX (8015/8021/8260)	Requested Analysis: TPH-D (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE (8260)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Requested Analysis: Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-5	0940		X			mmk0608-01	3				X	X				X		X	
2	VW-1	0905		X			-02	3				X	X				X		X	
3	VW-4	0950		X			-03	3				X	X				X		X	
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: Aaron Costa	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date / Time
Sampler's Company: Blaine Tech	Aaron Costa / Blaine Tech				11/14 11:55
Shipment Date:		11/14	18:20		11/14/03 1820
Shipment Method:					
Shipment Tracking No:					

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

Preservation Yes X No ✓ Temperature Blank Yes ___ No ✓ Cooler Temperature on Receipt 4 °F/C Trip Blank Yes ___ No X

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

BP COC Rev. 1 2/5/03

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
REC. BY (PRINT): TL
WORKORDER: 311006008

DATE REC'D AT LAB: 11/14/03
TIME REC'D AT LAB: 1620
DATE LOGGED IN: 11-19-03

DRINKING WATER for regulatory purposes: YES / (NO)
WASTE WATER for regulatory purposes: YES / (NO)

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / (Absent) Intact / Broken*	01		MW-5	(3) Vomo	HCl	L	11/13/03	3268616
		02		MW-1	"	"	"	"	"
2. Chain-of-Custody	(Present) / Absent*	03		MW-4	"	"	"	"	"
3. Traffic Reports or Packing List:	Present / (Absent)								
4. Airbill:	Airbill / Sticker Present / (Absent)								
5. Airbill #:									
6. Sample Labels:	(Present) / Absent								
7. Sample IDs:	(Listed) / Not Listed on Chain-of-Custody								
8. Sample Condition:	(Intact) / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	(Yes) / No*								
10. Sample received within hold time:	(Yes) / No*								
11. Adequate sample volume received?	(Yes) / No*								
12. Proper Preservatives used:	(Yes) / No*								
13. Temp Rec. at Lab: 5°C Is temp 4 +/-2°C?	(Yes) / No**								

11/14/03 TL

(Acceptance range for samples requiring thermal pres.)
**Exception (if any): METALS / OFF ON ICE
*Problem COC

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

cv 4.xls
n 4 (11/10/03)
Revision 3 (03/18/03)
*10/03

ATTACHMENT C

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

12/17/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #6002, Oakland, CA
Work Order Number:	MMK0608
Global ID:	T0600100105
Lab Report Number:	MMK0608120320031026

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MMK06081203200 31026	MW-5	MMK060801	W	CS	8260TPH	SW5030B	11/13/03	11/23/03	11/23/03	3K23001	1
MMK06081203200 31026	VW-1	MMK060802	W	CS	8260TPH	SW5030B	11/13/03	11/23/03	11/23/03	3K23001	1
MMK06081203200 31026	VW-4	MMK060803	W	CS	8260TPH	SW5030B	11/13/03	11/23/03	11/23/03	3K23001	1
		3K23001BSD1	WQ	BD1	8260TPH	SW5030B	/ /	11/23/03	11/23/03	3K23001	1
		3K23001BSD2	WQ	BD2	8260TPH	SW5030B	/ /	11/23/03	11/23/03	3K23001	1
		3K23001BS1	WQ	BS1	8260TPH	SW5030B	/ /	11/23/03	11/23/03	3K23001	1
		3K23001BS2	WQ	BS2	8260TPH	SW5030B	/ /	11/23/03	11/23/03	3K23001	1
		3K23001BLK1	WQ	LB1	8260TPH	SW5030B	/ /	11/23/03	11/23/03	3K23001	1

EDFSAMP: Error Summary Log

12/17/03

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
Error: LOGCODE field is blank or invalid	URSO	ARCO #6002, Oakland, CA	MMK0608	MW-5	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #6002, Oakland, CA	MMK0608	VW-1	W
Error: LOGCODE field is blank or invalid	URSO	ARCO #6002, Oakland, CA	MMK0608	VW-4	W

EDFTEST: Error Summary Log

12/17/03

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
Error: ANMCODE field is blank or invalid	3K23001BLK1	LB1	8260TPH	SW5030B	11/23/03	1
Error: ANMCODE field is blank or invalid	3K23001BS1	BS1	8260TPH	SW5030B	11/23/03	1
Error: ANMCODE field is blank or invalid	3K23001BS2	BS2	8260TPH	SW5030B	11/23/03	1
Error: ANMCODE field is blank or invalid	3K23001BSD1	BD1	8260TPH	SW5030B	11/23/03	1
Error: ANMCODE field is blank or invalid	3K23001BSD2	BD2	8260TPH	SW5030B	11/23/03	1
Error: ANMCODE field is blank or invalid	MMK060801	CS	8260TPH	SW5030B	11/23/03	1
Error: ANMCODE field is blank or invalid	MMK060802	CS	8260TPH	SW5030B	11/23/03	1
Error: ANMCODE field is blank or invalid	MMK060803	CS	8260TPH	SW5030B	11/23/03	1

EDFRES: Error Summary Log

12/17/03

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

EDFQC: Error Summary Log

12/17/03

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqcid
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	BZ	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	BZ	BD2	3K23001BSD2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	BZ	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	BZ	BS2	3K23001BS2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	BZ	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	BZME	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	BZME	BD2	3K23001BSD2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	BZME	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	BZME	BS2	3K23001BS2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	BZME	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	DCA12	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	DCA12	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	DCA12	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	DCA12D4	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	DCA12D4	BD2	3K23001BSD2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	DCA12D4	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	DCA12D4	BS2	3K23001BS2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	DCA12D4	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	DIPE	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	DIPE	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	DIPE	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	EBZ	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	EBZ	BD2	3K23001BSD2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	EBZ	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	EBZ	BS2	3K23001BS2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	EBZ	LB1	3K23001BLK1

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqcid
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	EDB	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	EDB	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	EDB	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	ETBE	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	ETBE	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	ETBE	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	ETHANOL	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	ETHANOL	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	ETHANOL	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	GRO	BD2	3K23001BSD2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	GRO	BS2	3K23001BS2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	GRO	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	MTBE	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	MTBE	BD2	3K23001BSD2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	MTBE	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	MTBE	BS2	3K23001BS2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	MTBE	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	TAME	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	TAME	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	TAME	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	TBA	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	TBA	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	TBA	LB1	3K23001BLK1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	XYLENES	BD1	3K23001BSD1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	XYLENES	BD2	3K23001BSD2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	XYLENES	BS1	3K23001BS1
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	XYLENES	BS2	3K23001BS2
Error: ANMCODE field is blank or invalid	3K23001	8260TPH	XYLENES	LB1	3K23001BLK1

EDFCL: Error Summary Log

12/17/03

Error type	Clrevdate	Anmcode	Exmcode	Parlabel	Clcode
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DCA12D4	SLSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	BZ	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	BZ	LSP
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	BZME	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	BZME	LSP
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	DCA12	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	DCA12	LSP
Error: ANMCODE field is blank or invalid	08/30/02	8260TPH	SW5030B	DCA12D4	SLSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	DIPE	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	DIPE	LSP
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	EBZ	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	EBZ	LSP
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	EDB	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	EDB	LSP
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	ETBE	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	ETBE	LSP
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	ETHANOL	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	ETHANOL	LSP
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	GRO	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	GRO	LSP
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	MTBE	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	MTBE	LSP
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	TAME	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	TAME	LSP
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	TBA	LSA
Error: ANMCODE field is blank or invalid	11/23/03	8260TPH	SW5030B	TBA	LSP

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Confirmation Number: 6951046645
Date/Time of Submittal: 12/12/2003 6:01:11 PM
Facility Global ID: T0600100105
Facility Name: ARCO
Submittal Title: Fourth Quarter 2003 Monitoring Report
Submittal Type: GW Monitoring Report

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Submittal Report For ARCO: page 1 of 1

Title	Type	Submitted	Submittal Status	Confirmation #	
2nd Quarter Ground Water Monitoring report	GWM_R	7/31/2002	**RECEIVED: 5/7/2003 10:35:05 AM**	2310868501	
2nd quarter geowells for # 6002	GEO_WELL	8/7/2002	**AWAITING APPROVAL**	8624439835	Delete Submittal
Geowell # 6002	GEO_WELL	12/20/2002	**AWAITING APPROVAL**	3032653629	Delete Submittal
EDCC Report for # 6002	ADD_R	12/20/2002	**RECEIVED: 5/7/2003 10:35:56 AM**	3691621959	
4th Qtr 2002 Monitoring Report for #6002	GWM_R	1/20/2003	**RECEIVED: 5/7/2003 10:37:29 AM**	2164257347	
4th Qtr 2002 Monitoring Report for # 6002	GEO_WELL	1/20/2003	**AWAITING APPROVAL**	5691090226	Delete Submittal
First Quarter 03 Geowell for site # 6002	GEO_WELL	3/25/2003	**AWAITING APPROVAL**	3314198136	Delete Submittal
First Quarter 03 Groundwater Monitoring Report for site # 6002	GWM_R	3/25/2003	**RECEIVED: 5/7/2003 10:38:01 AM**	1523817718	
2nd Qtr 2003 Monitoring Report for #6002	GWM_R	6/19/2003	**RECEIVED: 11/17/2003 7:53:01 AM**	4180585443	
2nd Qtr 2003 Geowell for #6002	GEO_WELL	6/19/2003	**AWAITING APPROVAL**	2562850773	Delete Submittal
Third Quarter 03 Geowell for site #6002	GEO_WELL	8/20/2003	**AWAITING APPROVAL**	9182545304	Delete Submittal
Third Quarter 03 Ground Water Monitoring Site #6002	GWM_R	9/3/2003	**AWAITING APPROVAL**	9783035039	Delete Submittal
Geo XY Site #6002	GEO_XY	12/3/2003	**AWAITING APPROVAL**	3374622941	Delete Submittal
GEO_MAP	GEO_MAP	12/4/2003	**AWAITING APPROVAL**	1199918448	Delete Submittal
GEO_MAP	GEO_MAP	12/5/2003	**AWAITING APPROVAL**	4543470084	Delete Submittal
Fourth Quarter 2003 Monitoring Report	GWM_R	12/12/2003	**AWAITING APPROVAL**	6951046645	Delete Submittal
Fourth Quarter 2003 Groundwater Monitoring Report - Geowell for Site#6002	GEO_WELL	12/15/2003	**AWAITING APPROVAL**	8934391617	Delete Submittal

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