



December 22, 2003

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

Alameda County  
JAN 08 2004  
Environmental Health

**Re: Fourth Quarter 2003 Groundwater Monitoring Report  
ARCO Service Station #5387  
20200 Hesperian Blvd  
Hayward, California  
URS Project #38486333**

Dear Mr. Seery:

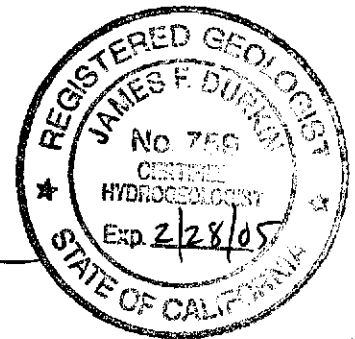
On behalf of Atlantic Richfield Company (ARCO – a BP affiliated company), URS Corporation (URS) is submitting the *Fourth Quarter 2003 Groundwater Monitoring Report* for ARCO Service Station #5387, located at 20200 Hesperian Boulevard, Hayward, California.

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

Sincerely,

**URS CORPORATION**

Scott Robinson  
Project Manager

  
James F. Durkin, C.Hg.  
Senior Geologist

Enclosure: Fourth Quarter 2003 Groundwater Monitoring Report

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



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 Groundwater Monitoring Report  
ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, CA  
URS Project #38486333



Alameda County  
JAN 06 2004  
Environmental Health

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

**R E P O R T**

**FOURTH QUARTER 2003  
GROUNDWATER MONITORING**

ARCO SERVICE STATION #5387  
2020 HESPERIAN BOULEVARD  
HAYWARD, CALIFORNIA

*Prepared for*  
Atlantic Richfield Company

December 22, 2003

**URS**

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

38486333



Date: December 22, 2003  
Quarter: 4Q 03

**ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT**

Former Facility No.: 5387 Address: 20200 Hesperian Boulevard, Hayward, California  
ARCO Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson  
Consultant Project No.: 38486333  
Primary Agency: Alameda County Health Care Services Agency (ACHCSA)

**WORK PERFORMED THIS QUARTER (Fourth – 2003):**

1. Performed fourth quarter groundwater monitoring event on November 17, 2003.
2. Prepared and submitted fourth quarter 2003 groundwater monitoring report.
3. Hydrogen peroxide injections performed on wells MW-1, MW-2, AR-1, AR-2, and A-7 on December 16, 2003
4. Performed well repairs on MW-1, MW-3, A-4, A-6, AR-1 and AR-2 on November 14, 2003. The top of casing for MW-3 was lowered by 0.17 feet during repairs (Attachment D).

**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: Quarterly: Wells MW-1, MW-2, AR-1, AR-2, A-7  
Semi-annually (1<sup>st</sup> and 3<sup>rd</sup> Quarters): Wells A-4, A-5, A-8, and A-9  
Annually (3<sup>rd</sup> Quarter): Wells MW-3, A-6, and A-10  
Frequency of Groundwater Monitoring: Quarterly  
Is Free Product (FP) Present On-Site: No  
Current Remediation Techniques: Natural Attenuation  
Approximate Depth to Groundwater: 9.93 ft (MW-3) to 13.84 ft (A-7)  
Groundwater Gradient (direction): West  
Groundwater Gradient (magnitude): 0.003 feet per foot

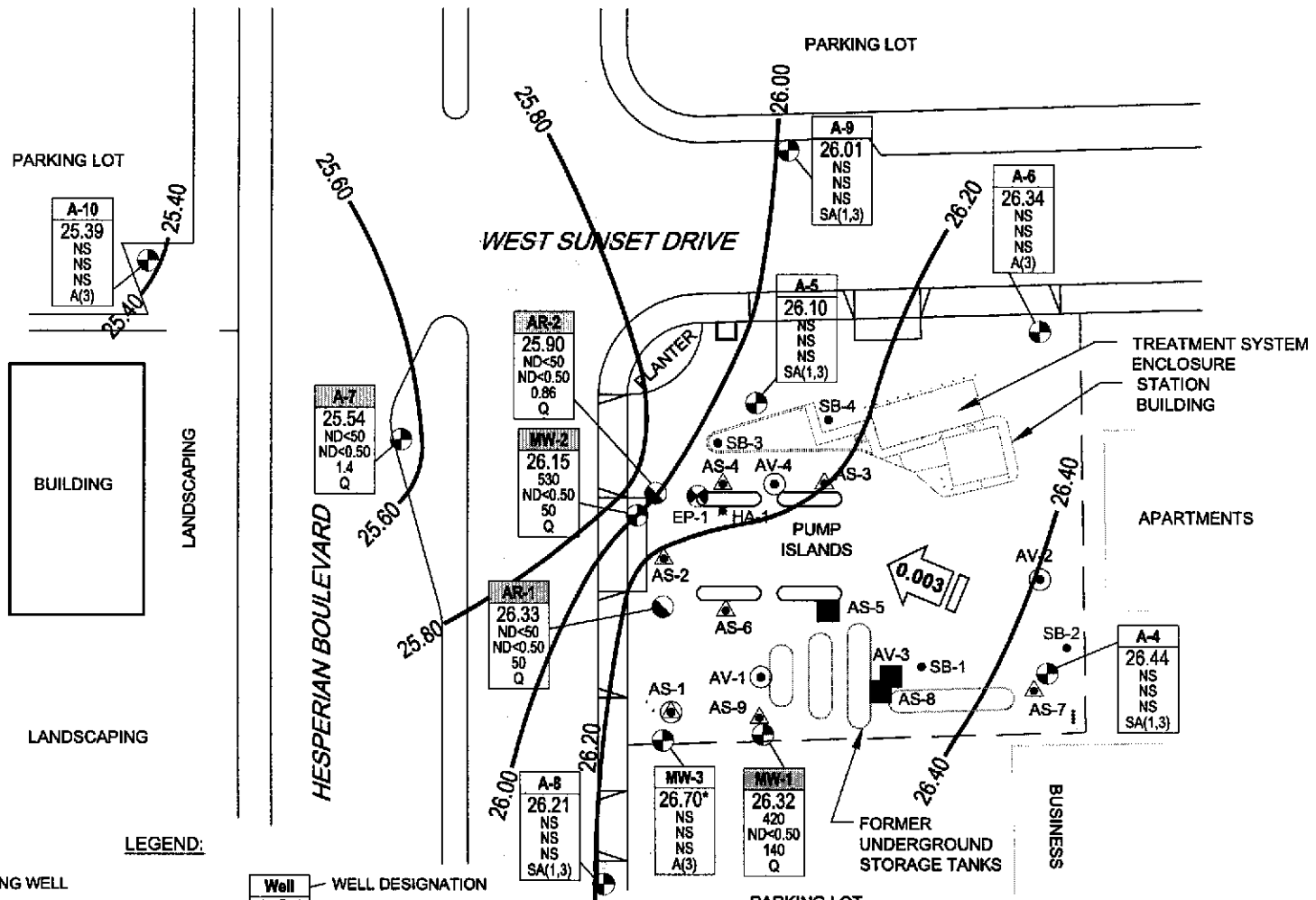
## DISCUSSION:

TPH-g was detected above the laboratory reporting limit in two of the five wells sampled this quarter at concentrations of 420 µg/L (MW-1) and 530 µg/L (MW-2). Benzene was not detected above the laboratory reporting limit in any of the wells sampled this quarter. MTBE was detected above the laboratory reporting limit in all five wells at concentrations ranging from 0.86 µg/L (AR-2) to 140 µg/L (MW-1). TAME was detected above the laboratory reporting limit in two wells at concentrations of 1.7 µg/L (MW-1) and 6.2 µg/L (MW-2).

Beginning this quarter, the sampling frequency in wells A-4, A-5, A-8, and A-9 was reduced from quarterly to semi-annually and in wells MW-3, A-6, and A-10 from quarterly to annually.

## ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – November 17, 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 Report and EDF/Geowell Submittal Confirmation
- Attachment D – Well Repair Field Data Sheets



**LEGEND:**

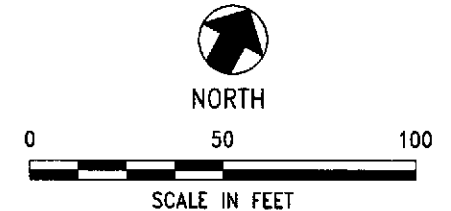
- ABANDONED MONITORING WELL
- MONITORING WELL
- ⊙ GROUNDWATER EXTRACTION WELL
- ⊙ SOIL VAPOR EXTRACTION WELL
- ▲ AIR SPARGE WELL
- ⊙ DUAL AIR SPARGE/SOIL VAPOR EXTRACTION WELL
- ✱ AIR SPARGE WELL
- ⊙ DUAL AIR SPARGE/SOIL VAPOR EXTRACTION WELL
- ⊙ EXTRACTION POINT

Well	WELL DESIGNATION
ELEV	GROUNDWATER ELEVATION
TPH-g	TPH-g, BENZENE & MTBE CONCENTRATIONS (µg/L)
Benzene	
MTBE	
A/SA/Q	SAMPLING FREQUENCY
*	NOT USED IN GROUNDWATER ELEVATION CONTOURS
ND<	NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
NS	NOT SAMPLED
A(3)	SAMPLED ANNUALLY, 3RD QUARTER
SA(1,3)	SAMPLED SEMI-ANNUALLY, 1ST & 3RD QUARTERS
Q	SAMPLED QUARTERLY

26.00 APPROXIMATE GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MSL)

0.003 GROUNDWATER FLOW DIRECTION AND GRADIENT (FEET/FOOT)

WELL PROPOSED HYDROGEN PEROXIDE WELL



NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

	<b>Project No. 38486333</b> <b>ARCO Service Station 5387</b> <b>20200 Hesperian Boulevard</b> <b>Hayward, California</b>	<b>GROUNDWATER ELEVATION CONTOUR</b> <b>AND ANALYTICAL SUMMARY MAP</b> <b>Fourth Quarter 2003 (November 17, 2003)</b>	FIGURE <b>1</b>

**Table 1  
Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH					DO <sup>g</sup> (mg/L)	pH <sup>g</sup>		
								as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)			MTBE (µg/L)	
AR-1	09/14/92		38.11	29.00**	4.00**	15.21	22.90	820	67	ND<1.0	8.8	6.7	---	---	---	
	11/12/92					15.36	22.75	140	66	ND<0.5	4.3	3.7	---	---	---	
	02/11/93					12.81	25.30	360	190	ND<2.5	8.6	ND<2.5	---	---	---	
	04/14/93					11.77	26.34	420	240	5.2	30	8.7	---	---	---	
	08/12/93					13.55	24.56	370	150	ND<2	11	ND<2	---	---	---	
	10/26/93					13.98	24.13	240	98	ND<2	11	ND<2	---	---	---	
	02/17/94		37.46			12.15	25.31	4,700	1,100	ND<10	140	26	---	---	---	
	05/03/94					12.03	25.43	620	130	1.3	48	4.3	---	---	---	
	08/17/94		37.33			12.92	24.41	3,600	630	ND<5	200	12	---	---	---	
	11/18/94					12.41	24.92	12,100	720	6.1	337	15	---	---	---	
	09/26/95		37.46			11.34	26.12	ND	8.3	ND	ND	ND	---	---	---	
	12/06/95					11.87	25.59	120	20	ND	20	0.6	---	---	---	
	02/14/96					10.48	26.98	ND	ND	ND	ND	0.52	---	---	---	
	10/29/96					11.80	25.66	ND	ND	0.99	ND	ND	---	---	---	
	01/29/97					11.25	26.21	ND<50	0.41	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<20	---	---
	04/30/97					12.24	25.22	ND<20	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	07/31/97					10.80	26.66	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	10/22/97					11.90	25.56	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	01/28/98					11.20	26.26	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98					12.20	25.26	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					9.10	28.36	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	10/22/98					9.80	27.66	270	2.1	ND<0.3	3.6	ND<0.5	190	---	---	
	01/13/99					10.10	27.36	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/29/99					11.35	26.11	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/15/02					---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	1.1	2.9	---	---	
	04/24/02					---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.6*	---	---	
	09/23/02	P				11.26	26.20	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<1.50	20.2	1.6	6.9
12/09/02	P				11.35	26.11	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<1.00	26.6	1.8	6.9	
02/11/03 <sup>g</sup>	P				9.91	27.55	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.7	1.2	6.7	
06/27/03	NP				10.30	27.16	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.6	1.6	7.0	
09/04/03 <sup>f</sup>					---	---	---	---	---	---	---	---	---	---	---	
11/17/03	P				11.13	26.33	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	1.8	6.7	

**Table 1  
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Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
AR-2	03/30/93		38.39	32.98	2.98	11.53	26.86	390	4.1	1.6	ND<0.5	47	---	---	---
	04/14/93					11.87	26.52	310	18	ND<0.5	0.67	36	---	---	---
	08/12/93					13.59	24.80	130	16	ND<0.5	1.7	0.57	---	---	---
	10/26/93					14.25	24.14	110	15	ND<0.5	1.8	ND<0.5	---	---	---
	02/17/94					12.76	25.22	130	2.9	ND<0.5	16	0.8	---	---	---
	05/03/94					12.60	25.38	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	08/17/94		38.18			13.86	24.32	3,000	140	140	220	91	---	---	---
	11/18/94					13.33	24.85	623	10.5	10.5	27.9	8.0	---	---	---
	09/26/95		37.98	32.98	2.98	11.67	26.31	ND	ND	ND	ND	ND	---	---	---
	12/06/95					12.32	25.66	320	12	12	23	2.1	---	---	---
	02/14/96					10.74	27.24	ND	ND	ND	ND	0.76	---	---	---
	10/29/96					11.95	26.03	ND	ND	ND	ND	ND	---	---	---
	01/29/97					11.35	26.63	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/30/97					12.15	25.83	ND<20	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	07/31/97					11.20	26.78	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	10/22/97					12.14	25.84	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	01/28/98					10.05	27.93	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98					12.10	25.88	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					9.50	28.48	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	10/22/98					10.45	27.53	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/13/99					10.50	27.48	ND<50	ND<0.3	0.40	ND<0.3	0.53	ND<20	---	---
	04/29/99					11.48	26.50	ND<50	ND<0.3	ND<0.3	ND<0.3	0.82	ND<5	---	---
	01/15/02					---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	---	---
	04/24/02					---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	39*	---	---
	09/23/02	P				12.22	25.76	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<1.50	4.43	1.0	7.1
	12/09/02	P				12.30	25.68	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<1.00	ND<5.00	1.1	7.0
	02/11/03 <sup>e</sup>	P				10.80	27.18	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.75	1.8	6.9
	06/27/03	NP				11.14	26.84	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.0	0.9	6.4
	09/04/03 <sup>f</sup>					---	---	---	---	---	---	---	---	---	---
	11/17/03	P				12.08	25.90	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.86	1.8	6.8



**Table 1**  
**Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft. MSL)	Top of Screen (ft. MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>	
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)						
MW-1	08/08/86		38.36	32.26	7.26	11.25	27.11	7,040	132	8.7	439	230	---	---	---	
	12/24/91					16.12	22.24	2,200	190	8.5	6.9	2.6	---	---	---	
	03/10/92					13.34	25.02	2,800	270	29	56	39	---	---	---	
	06/09/92					14.12	24.24	2,900	960	27	99	63	---	---	---	
	09/14/92					15.34	23.02	2,600	450	ND<5.0	45	21	---	---	---	
	11/12/92					15.46	22.90	1,600	310	7.2	22	8.9	---	---	---	
	02/11/93					11.95	26.41	4,000	510	47	200	91	---	---	---	
	04/14/93					11.65	26.71	1,700	260	20	100	70	---	---	---	
	08/12/93					12.93	25.43	830	60	3.8	39	3.6	---	---	---	
	10/26/93					14.13	24.23	8,800	140	ND<10	41	ND<10	---	---	---	
	02/17/94			37.26			11.86	25.40	1,200	130	12	54	58	---	---	---
	05/03/94						11.58	25.68	---	---	---	---	---	---	---	---
	08/17/94			37.33			12.78	24.55	3,900	86	5.1	78	9.4	---	---	---
	11/18/94						12.31	25.02	6,350	112	8.4	107	35	---	---	---
	09/26/95			37.26			11.26	26.00	ND	ND	ND	ND	ND	---	---	---
	12/06/95						12.16	25.10	4,100	0.86	0.46	0.38	0.92	---	---	---
	02/14/96						8.53	28.73	ND	ND	0.56	ND	0.82	---	---	---
	10/29/96						10.23	27.03	130	ND	ND	ND	ND	---	---	---
	01/29/97						8.15	29.11	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/30/97						8.05	29.21	ND<20	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	07/31/97						10.50	26.76	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	10/22/97						11.15	26.11	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	01/28/98						4.95	32.31	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98						8.10	29.16	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98						8.02	29.24	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	40	---	---
	10/22/98						9.70	27.56	230	0.43	1.9	0.99	0.99	33	---	---
	01/13/99						9.60	27.66	ND<50	0.43	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/29/99						8.05	29.21	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	^31/17	---	---
	01/15/02						---	---	ND<50	ND<0.05	ND<0.5	ND<0.5	ND<0.5	21	---	---
	04/24/02						---	---	160	1.5	ND<0.50	ND<0.50	ND<0.50	770*	---	---
	09/23/02 <sup>a</sup>						---	---	---	---	---	---	---	---	---	---
	12/09/02		P				11.22	26.04	998	ND<0.50	ND<0.50	ND<0.50	1.37 <sup>b</sup>	855(d)/ 1310*	2.2	7.0
02/11/03 <sup>g</sup>		P				9.70	27.56	120	ND<0.50	ND<0.50	ND<0.50	ND<0.50	76	1.6	6.7	

**Table 1**  
**Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>9</sup> (mg/L)	pH <sup>9</sup>
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-1	06/27/03	P				10.10	27.16	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	170	0.8	6.8
(Cont'd)	09/04/03 <sup>1</sup>					---	---	---	---	---	---	---	---	---	---
	11/17/03	P				10.94	26.32	420	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	1.7	6.7
MW-2	08/08/86		38.58	32.99	7.99	11.62	26.96	1,910	20.1	2.8	1.8	---	---	---	---
	12/24/91					16.50	22.08	23,000	1,500	1,100	480	1,400	---	---	---
	03/10/92					13.50	25.08	210,000	44,000	3,900	1,700	5,800	---	---	---
	06/09/92					14.52	24.06	33,000	2,300	370	780	2,600	---	---	---
	09/14/92					15.78	22.80	16,000	3,700	10	470	1,000	---	---	---
	11/12/92					15.98	22.60	16,000	3,800	86	470	910	---	---	---
	02/11/93					12.27	26.31	27,000	3,500	720	1,600	380	---	---	---
	04/14/93					12.01	26.57	27,000	3,500	220	2,200	5,100	---	---	---
	08/12/93					13.81	24.77	16,000	1,600	27	1,300	1,200	---	---	---
	10/26/93					14.53	24.05	12,000	1,200	ND<25	510	330	---	---	---
	02/17/94					12.81	25.77	15,000	1,800	21	850	540	---	---	---
	05/03/94					12.63	25.95	---	---	---	---	---	---	---	---
	08/17/94		37.99			13.69	24.30	14,000	850	13	640	270	---	---	---
	11/18/94		38.06			13.18	24.88	14,900	640	3.4	532	156	---	---	---
	09/26/95		37.99			12.23	25.76	5,100	40	25	2.5	18	---	---	---
	12/06/95					12.82	25.17	810	34	23	11	11	---	---	---
	02/14/96					10.87	27.12	420	0.75	0.54	0.64	0.53	---	---	---
	10/29/96					12.95	25.04	670	1.7	1.3	0.6	0.8	---	---	---
	01/29/97					11.15	26.84	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/30/97					11.09	26.90	ND<20	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	07/31/97					11.70	26.29	330	ND<0.3	0.58	0.53	ND<0.5	ND<20	---	---
	10/22/97					11.05	26.94	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	01/28/98					9.50	28.49	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98					11.15	26.84	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					10.20	27.79	78	ND<0.3	ND<0.3	ND<0.3	ND<0.5	97	---	---
	10/22/98					11.10	26.89	270	0.37	2.0	0.91	0.73	26	---	---
	01/13/99					11.10	26.89	650	5.8	1.0	1.4	1.1	ND<20	---	---
	04/29/99					11.05	26.94	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	^23/16	---	---
	01/15/02					---	---	1,200	15	4.5	ND<0.5	ND<0.5	190	---	---

**Table 1  
Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>9</sup> (mg/L)	pH <sup>9</sup>
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-2	04/24/02					---	---	1,300	18	ND<10	ND<10	ND<10	170*	---	---
(Cont'd)	09/23/02	P				12.15	25.84	1,440	11.2	0.730	ND<0.500	ND<1.50	228	1.6	6.9
	12/09/02	P				12.20	25.79	1,770	8.08	0.694	2.47	3.79 (b)	529(d)/ 902*	6.2	6.7
	02/11/03 <sup>9</sup>	P				10.79	27.20	1,100	ND<0.50	ND<0.50	ND<0.50	0.53	71	1.2	6.8
	06/27/03	P				11.20	26.79	520	ND<0.50	ND<0.50	ND<0.50	ND<0.50	45	0.8	6.8
	09/04/03	P				11.84	26.15	500	ND<0.50	ND<0.50	ND<0.50	ND<0.50	28	1.2	6.9
	11/17/03	P				11.98	26.15	530	ND<0.50	ND<0.50	ND<0.50	ND<0.50	50	3.1	6.7
MW-3	08/08/86		37.77	31.80	6.80	10.61	27.16	7,450	510	549	409	1,380	---	---	---
	12/24/91					15.60	22.17	6,800	450	10	610	45	---	---	---
	03/10/92					12.90	24.87	11,000	2,500	75	400	560	---	---	---
	06/09/92					13.60	24.17	16,000	2,000	69	1,300	2,600	---	---	---
	09/14/92					14.78	22.99	14,000	630	ND<50	1,500	2,400	---	---	---
	11/12/92					14.92	22.85	7,400	400	ND<25	860	330	---	---	---
	02/11/93					11.85	26.12	8,600	580	ND<20	710	300	---	---	---
	04/14/93					11.16	26.61	6,900	300	8.8	580	99	---	---	---
	08/12/93					12.82	24.95	3,400	56	ND<5	190	ND<5	---	---	---
	10/26/93					13.60	24.17	2,900	42	ND<10	76	ND<10	---	---	---
	02/17/94		36.80			11.53	25.27	3,100	160	ND<10	36	8.6	---	---	---
	05/03/94					11.36	25.44	2,300	44	ND<2.5	8.0	ND<2.5	---	---	---
	08/17/94		36.87			12.38	24.49	1,900	7.0	ND<9.5	4.4	ND<5	---	---	---
	11/18/94					11.93	24.94	909	1.1	ND<0.5	0.9	4.0	---	---	---
	09/26/95		36.80			10.96	25.84	410	1.3	1.9	2.3	3.3	---	---	---
	12/06/95					11.56	25.24	---	0.9	4.6	3.0	4.3	---	---	---
	02/14/96					7.47	29.33	99	ND	0.49	0.46	ND	---	---	---
	10/29/96					9.80	27.00	250	0.7	0.6	ND	ND	---	---	---
	01/29/97					7.50	29.30	170	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/30/97					12.10	24.70	ND<20	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	07/31/97					9.90	26.90	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	10/22/97					12.10	24.70	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	01/28/98					7.50	29.30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98					12.30	24.50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					8.30	28.50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-3	10/22/98					9.10	27.70	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
(Cont'd)	01/13/99					9.50	27.30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/29/99					5.93	30.87	ND<50	ND<0.3	0.35	ND<0.3	ND<0.5	ND<5	---	---
	01/15/02					---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.9	---	---
	04/24/02					---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50*	---	---
	09/23/02	P				10.30	26.50	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<1.50	ND<0.500	1.0	6.9
	12/09/02	P				10.38	26.42	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<1.00	ND<5.00	1.7	6.7
	02/11/03 <sup>g</sup>	P				8.85	27.95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.6	6.7
	06/27/03	P				9.12	27.68	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.61	0.9	6.8
	09/04/03	P				9.85	27.05	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0	6.9
	11/17/2003 <sup>h</sup>		36.63			9.93	26.70	---	---	---	---	---	---	---	---
A-4	03/06/91		39.46	29.53**	4.53**	13.22	26.24	34,000	11,000	870	2,500	2,100	---	---	---
	12/24/91		39.86			17.60	22.26	1,900	29	1.9	25	29	---	---	---
	03/10/92					14.76	25.10	7,400	37	ND<0.60	11	73	---	---	---
	06/09/92					15.63	24.23	4,500	3.2	1.5	37	16	---	---	---
	09/14/92					16.83	23.03	1,300	ND<2.5	2.5	61	6.8	---	---	---
	11/12/92					16.97	22.89	610	7.2	0.98	34	0.97	---	---	---
	02/11/93					13.43	26.43	740	2.4	ND<0.5	5.0	3.5	---	---	---
	04/14/93					13.06	26.80	380	ND<0.5	ND<0.5	10	1.6	---	---	---
	08/12/93					14.94	24.92	1,200	0.93	ND<0.5	0.91	ND<0.5	---	---	---
	10/26/93					15.52	24.34	160	ND<0.5	ND<0.5	1.0	ND<0.5	---	---	---
	02/17/94		39.46			14.02	25.44	320	0.5	ND<0.5	28	0.9	---	---	---
	05/03/94					13.85	25.61	130	ND<0.5	ND<0.5	1.1	ND<0.5	---	---	---
	08/17/94		39.53			14.95	39.53	62	34.58	ND<0.5	ND<0.5	ND<0.5	---	---	---
	11/18/94					14.46	25.07	98	1.3	0.6	ND<0.5	ND<0.5	---	---	---
	12/06/95					13.82	25.71	ND	0.6	ND	ND	ND	---	---	---
	02/14/96					11.24	28.29	ND	ND	2.3	ND	0.71	---	---	---
	10/29/96					13.50	26.03	140	ND	ND	ND	ND	---	---	---
	01/29/97					12.65	26.88	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/30/97					13.97	25.56	ND<20	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	07/31/97					12.70	26.83	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	10/22/97					13.95	25.58	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>9</sup> (mg/L)	pH <sup>9</sup>
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
A-4	01/28/98					11.90	27.63	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
(Cont'd)	04/22/98					13.92	25.61	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					10.80	28.73	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	10/22/98					12.60	26.93	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/13/99					12.60	26.93	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/29/99					12.61	26.92	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/15/02					---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.2	---	---
	04/24/02					---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50*	---	---
	09/23/02 <sup>a</sup>					---	---	---	---	---	---	---	---	---	---
	12/09/02	P				13.36	26.17	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<1.00	ND<5.00	2.4	6.6
	02/11/03 <sup>a</sup>	P				11.82	27.71	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.53	1.8	6.6
	06/27/03	P				12.12	27.41	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.2	6.7
	09/04/03 <sup>a</sup>					---	---	---	---	---	---	---	---	---	---
	11/17/03					13.09	26.44	---	---	---	---	---	---	---	---
A-5	12/24/91		38.94	28.47**	8.47**	16.85	22.09	1,600	21	ND<0.30	32	52	---	---	---
	03/10/92					13.83	25.11	1,000	1.6	ND<0.30	43	100	---	---	---
	06/09/92					14.91	24.03	680	34	ND<1.5	14	16	---	---	---
	09/14/92					16.14	22.80	770	12	ND<0.30	51	65	---	---	---
	11/12/92					16.35	22.59	520	3.0	ND<2.5	29	36	---	---	---
	02/11/93					13.21	25.73	150	1.6	0.96	5.1	1.5	---	---	---
	04/14/93					12.97	25.97	190	5.4	ND<0.5	1.5	0.97	---	---	---
	08/12/93					14.12	24.82	230	1.7	ND<0.5	5.3	0.94	---	---	---
	10/26/93					14.72	24.22	190	2.8	ND<0.5	5.5	2.0	---	---	---
	02/17/94		38.47			13.20	25.27	340	ND<0.5	ND<0.5	13	2.9	---	---	---
	05/03/94					13.08	25.39	170	1.4	ND<0.5	4.0	1.9	---	---	---
	08/17/94		38.54			14.18	24.36	270	0.6	ND<0.5	7.3	1.1	---	---	---
	11/18/94					13.73	24.81	338	---	ND<0.5	4.6	ND<0.5	---	---	---
	09/26/95		38.47			12.44	26.03	ND	0.63	1.1	ND	1.2	---	---	---
	12/06/95					12.92	25.55	ND	ND	ND	ND	ND	---	---	---
	02/14/96					10.76	27.71	ND	ND	2.0	ND	1.1	---	---	---
	10/29/96					12.35	26.12	ND	ND	ND	ND	ND	---	---	---
	01/29/97					10.85	27.62	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>9</sup> (mg/L)	pH <sup>9</sup>
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
A-5	04/30/97					13.56	24.91	ND<20	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
(Cont'd)	07/31/97					11.80	26.67	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	10/22/97					12.20	26.27	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	01/28/98					10.12	28.35	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98					13.50	24.97	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					10.20	28.27	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	10/22/98					11.50	26.97	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/13/99					10.15	28.32	ND<50	0.32	0.38	ND<0.3	ND<0.5	ND<20	---	---
	04/29/99					11.50	26.97	ND<50	ND<0.3	ND<0.3	ND<0.3	0.58	ND<5	---	---
	01/15/02					---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.0	---	---
	04/24/02					---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.2*	---	---
	09/23/02	P				12.55	25.92	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<1.50	1.30	1.0	6.7
	12/09/02	P				12.60	25.87	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<1.00	ND<5.00	1.9	6.6
	02/11/03 <sup>9</sup>	P				11.37	27.10	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.97	1.2	6.7
	06/27/03	P				11.55	26.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.98	1.5	6.8
	09/04/03	P				12.21	26.26	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.50	3.1	7.0
	11/17/03					12.37	26.10	---	---	---	---	---	---	---	---
A-6	12/24/91		39.07			16.88	22.19	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---
	03/10/92					13.73	25.34	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---
	06/09/92					14.95	24.12	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---
	09/14/92					16.20	22.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	11/12/92					16.35	22.72	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	02/11/93					13.04	26.03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	04/14/93					12.23	26.84	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	08/12/93					14.18	24.89	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	10/26/93					14.85	24.22	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	05/03/94					13.66	25.41	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	08/17/94		38.78			14.34	24.44	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	11/18/94					13.76	25.02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	09/26/95					12.56	26.22	ND	ND	ND	ND	ND	---	---	---
	12/06/95					13.18	25.60	ND	ND	ND	ND	ND	---	---	---
	02/14/96					12.46	26.32	ND	ND	ND	ND	ND	---	---	---

**Table 1**  
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ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
A-6	10/29/96					12.40	26.38	50	ND	ND	ND	ND	---	---	---
(Cont'd)	01/29/97					13.85	24.93	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/30/97					12.49	26.29	ND<20	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	07/31/97					12.10	26.68	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	10/22/97					15.20	23.58	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	01/28/98					13.80	24.98	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98					12.45	26.33	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					10.30	28.48	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	10/22/98					11.10	27.68	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/13/99					10.40	28.38	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/29/99					13.80	24.98	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/15/02					---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.7	---	---
	04/24/02					---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50*	---	---
	09/23/02	P				12.61	26.17	ND<50	ND<0.500	ND<0.500	ND<0.500	ND<1.50	ND<0.500	1.4	6.8
	12/09/02	P				12.67	26.11	ND<50	ND<0.500	ND<0.500	ND<0.500	ND<1.00	ND<5.00	2.6	6.7
	02/11/03 <sup>e</sup>	P				11.21	27.57	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	6.7
	06/27/03	P				11.60	27.18	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.0	6.9
	09/04/03	P				12.29	26.49	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.8	6.9
	<b>11/17/03</b>					<b>12.44</b>	<b>26.34</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>---</b>
A-7	12/24/91		39.95	6	4.38**	18.11	21.84	10,000	88	16	170	610	---	---	---
	03/10/92					15.30	24.65	320	9.3	0.54	8.8	34	---	---	---
	06/09/92					16.12	23.83	340	11	1.1	8.9	26	---	---	---
	09/14/92					17.35	22.60	510	12	ND<2.0	30	51	---	---	---
	11/12/92					17.47	22.48	760	17	0.83	50	73	---	---	---
	02/11/93					13.80	26.15	260	20	1.0	11	21	---	---	---
	04/14/93					13.60	26.35	1,300	89	2.1	48	87	---	---	---
	08/12/93					15.54	24.41	360	9.0	ND<0.50	13	9.0	---	---	---
	10/26/93					16.28	23.67	99	1.7	ND<0.50	4.0	3.0	---	---	---
	02/17/94		39.38			14.44	24.94	1,300	38	ND<1	35	25	---	---	---
	05/03/94					14.34	25.04	330	8.1	ND<0.5	7.8	3.7	---	---	---
	08/17/94		39.45			15.40	24.05	350	2.2	ND<0.5	9.6	3.6	---	---	---
	11/18/94					14.95	24.50	412	1.3	ND<0.5	6.2	2	---	---	---

**Table 1  
Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>9</sup> (mg/L)	pH <sup>9</sup>
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
A-7	09/26/95		39.38			13.92	25.46	ND	ND	ND	ND	ND	---	---	---
(Cont'd)	12/06/95					14.42	24.96	ND	ND	ND	ND	ND	---	---	---
	02/14/96					12.38	27.00	ND	ND	1.1	ND	0.59	---	---	---
	10/29/96					12.33	27.05	ND	ND	ND	ND	ND	---	---	---
	01/29/97					13.10	26.28	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/30/97					11.70	27.68	ND<20	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	07/31/97					13.25	26.13	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	10/22/97					14.42	24.96	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	01/28/98					13.00	26.38	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98					11.65	27.73	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					11.20	28.18	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	10/22/98					13.75	25.63	51	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/13/99					14.45	24.93	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/29/99					13.74	25.64	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/15/02					---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.8	---	---
	04/24/02					---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.2*	---	---
	09/23/02	P				13.78	25.60	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<1.50	3.48	0.8	6.7
	12/09/02	P				13.97	25.41	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<1.00	ND<5.00	2.2	6.8
	02/11/03 <sup>9</sup>	P				12.35	27.03	54	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21	1.7	6.3
	06/27/03	P				12.95	26.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.4	1.3	6.8
	09/04/03	P				13.59	25.79	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.4	2.6	6.9
	11/17/03	P				13.84	25.54	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	3.5	6.5
A-8	09/14/92		37.23	26.76**	1.76**	14.19	23.04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	11/12/92					14.35	22.88	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	02/11/93					11.25	25.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	04/14/93					12.33	24.90	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	08/12/93					12.41	24.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	10/26/93					13.02	24.21	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	02/17/94		36.76			11.47	25.29	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	05/03/94					11.35	25.41	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	08/17/94		36.84			12.34	24.50	ND<50	ND<0.5	1.7	ND<0.5	1.4	---	---	---
	11/18/94					11.90	24.94	ND<50	1.0	ND<0.5	ND<0.5	ND<0.5	---	---	---



**Table 1**  
**Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>9</sup> (mg/L)	pH <sup>9</sup>
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
A-8	09/26/95		36.76			10.94	25.82	ND<50	ND	ND	ND	ND	---	---	---
(Cont'd)	12/06/95					11.42	25.34	ND<50	ND	ND	ND	ND	---	---	---
	02/14/96					8.80	27.96	ND<50	ND	0.48	ND	ND	---	---	---
	10/29/96					11.30	25.48	ND<50	ND	ND	ND	ND	---	---	---
	01/29/97					7.60	29.16	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/30/97					10.54	26.22	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	07/31/97					11.20	25.56	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	10/22/97					12.14	24.62	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	01/28/98					4.43	32.33	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98					10.55	26.21	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					9.07	27.69	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	10/22/98					12.12	24.64	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/13/99					9.60	27.16	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/29/99					9.08	27.68	ND<50	ND<0.3	ND<0.3	ND<0.3	1.5	ND<5	---	---
	01/15/02					---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.6	---	---
	04/24/02					---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50*	---	---
	09/23/02	P				10.75	26.01	ND<50	ND<0.500	ND<0.500	ND<0.500	ND<1.50	ND<0.500	1.0	6.8
	12/09/02	P				10.81	25.95	ND<50	ND<0.500	ND<0.500	ND<0.500	ND<1.00	ND<5.00	2.1	6.6
	02/11/03 <sup>9</sup>	P				9.90	26.86	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	6.5
	06/27/03	P				9.73	27.03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	6.8
	09/04/03	P				10.32	26.44	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.1	6.9
	11/17/03					10.55	26.21	---	---	---	---	---	---	---	---
A-9	09/14/92		38.71	28.19	4.19	16.12	22.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	11/12/92					16.29	22.42	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	02/11/93					12.31	26.40	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	04/14/93					12.01	26.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	08/12/93					13.90	24.81	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	10/26/93					14.86	23.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	02/17/94		38.19			12.99	25.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	08/17/94					14.03	24.16	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	11/18/94		37.24			13.44	23.80	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	09/26/95					12.43	25.81	ND<50	ND<0.5	ND	ND	ND	---	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>9</sup> (mg/L)	pH <sup>9</sup>
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
A-9	12/06/95		38.19			13.14	25.05	ND<50	ND<0.5	ND	ND	ND	---	---	---
(Cont'd)	02/14/96					9.05	29.14	ND<50	ND	1.8	0.49	0.82	---	---	---
	10/29/96					12.85	25.34	ND<50	ND	ND	ND	ND	---	---	---
	01/29/97					9.02	29.17	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/30/97					12.05	26.14	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	07/31/97					12.18	26.01	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	10/22/97					7.45	30.74	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	01/28/98					21.25	16.94	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98					12.10	26.09	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					10.40	27.79	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	10/22/98					1.55	24.64	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/13/99					12.05	26.14	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/29/99					7.43	30.76	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/15/02					--	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.3	---	---
	04/24/02					---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50*	---	---
	09/23/02	P				12.35	25.84	ND<50	ND<0.500	ND<0.500	ND<0.500	ND<1.50	ND<0.500	1.6	6.8
	12/09/02	P				12.37	25.82	ND<50	ND<0.500	ND<0.500	ND<0.500	ND<1.00	ND<5.00	3.2	7.1
	02/11/03 <sup>9</sup>	P				10.97	27.22	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.0	6.7
	06/27/03	P				11.41	26.78	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.9	6.7
	09/04/03	P				12.00	26.19	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.3	6.9
	11/17/03					12.18	26.01	---	---	---	---	---	---	---	---
A-10	12/07/92		38.94			16.81	22.13	660	30	ND<2.5	ND<2.5	ND<2.5	---	---	---
	02/11/93					13.15	25.79	210	ND<0.5	0.97	ND<0.5	ND<0.5	---	---	---
	04/14/93					12.19	26.75	770	ND<0.5	3.0	0.76	1.9	---	---	---
	08/12/93					14.87	24.07	390	ND<0.5	ND<0.5	ND<0.5	0.84	---	---	---
	10/26/93					15.65	23.29	290	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	02/17/94		38.66			14.16	24.50	52	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	05/03/94					14.00	24.66	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	08/17/94		38.72			15.08	23.64	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	11/18/94					14.68	24.04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
	09/26/95		38.66			13.58	25.08	ND	ND	ND	ND	ND	---	---	---
	12/06/95					14.24	24.42	ND	ND	ND	ND	ND	---	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, MSL)	Bottom of Screen (ft., MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>d</sup>
								Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
A-10	02/14/96					6.70	31.96	ND	ND	ND	ND	ND	---	---	---
(Cont'd)	10/29/96					14.10	24.56	ND	ND	ND	ND	1.1	---	---	---
	01/29/97					11.20	24.46	ND<50	0.41	4.8	0.6	4.4	37	---	---
	04/30/97					12.66	26.00	ND<20	0.40	4.2	0.5	3.8	50	---	---
	07/31/97					13.20	25.46	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98					12.60	26.06	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					8.08	30.58	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	10/22/98					11.15	27.51	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/13/99					9.60	29.06	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/29/99					11.15	27.51	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/15/02					---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	---	---
	04/24/02					---	---	NS	NS	NS	NS	NS	NS	---	---
	09/23/02					DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS
	12/19/02	P				12.75	25.91	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5 (c)	---	---
	02/11/03 <sup>e</sup>	P				12.21	26.45	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.9	1.3	6.7
	06/27/03	P				12.66	26.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.99	0.8	7.2
	09/04/03	P				13.31	25.35	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	0.9	6.9
	11/17/03					13.27	25.39	---	---	---	---	---	---	---	---

**Table 1**  
**Groundwater Elevation and Analytical Data**

ARCO Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

MSL	= Mean Sea Level.
TPH	= Total Petroleum Hydrocarbons analyzed using EPA Method 8015B Modified (prior to 2/11/03).
MTBE	= Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted (prior to 2/11/03).
DO	= Dissolved oxygen.
ND <	= Not detected at or above the laboratory reporting limits.
P	= Purge.
NP	= No Purge.
" --- "	= Not analyzed/Not Measured/Not available.
mg/L	= Micrograms per liter.
mg/L	= Milligrams per liter.
*	= Analyzed by EPA Method 8260B.
**	= elevations were taken from cross-sectional figures, not original boring logs.
^	= Analytical results as measured by EPA Methods 8020 / 8260.
(a)	= well inaccessible.
(b)	= The analyte concentration may be artificially elevated due to coeluting compounds or components.
(c)	= The closing calibration was outside acceptance limits by 2%. This should be considered in evaluating the results. The average % difference for all analytes met the 15% requirement and the QC suggests that the calibration linearity is not a factor.
(d)	= Estimated value. The reported value exceeds the calibration range of the analysis.
(e)	= TPH-g, BTEX, and MTBE analyzed by EPA method 8260 B beginning first quarter monitoring event (2/11/03).
(f)	= Unable to gauge because the bolt was warped on the well head.
(g)	= DO and pH are field measurements.
(h)	= Well MW-3 top of casing was lowered by 0.17 feet during repairs on 11/14/03.
Source	=The data in this table prior to September 2002 was provided to URS by ARCO and its previous consultants. URS has not verified the accuracy of this data.

**Table 2**  
**Groundwater Flow Direction and Gradient**

ARCO Service Station #5387  
20200 Hesperian Blvd  
Hayward, California

<b>Date Measured</b>	<b>Average Flow Direction</b>	<b>Average Hydraulic Gradient</b>
04/24/02	-	-
09/23/02	West	0.004
12/09/02	West	0.003
02/11/03	West	0.007
06/27/03	West	0.005
09/04/03	West	0.005
<b>11/17/03</b>	<b>West</b>	<b>0.003</b>

**Table 3**  
**Fuel Oxygenate Analytical Data**  
 ARCO Service Station #5387  
 20200 Hesperian Blvd  
 Hayward, 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-1	02/11/03	ND<100	ND<20	76	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/27/03	ND<1,000	ND<200	170	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	11/17/03	ND<100	ND<20 (b)	140	ND<0.50	ND<0.50	1.7	NA	NA
MW-2	02/11/03	ND<100	ND<20	71	ND<0.50	ND<0.50	13	NA	NA
	06/27/03	ND<100	ND<20	45	ND<0.50	ND<0.50	5.4	ND<0.50	ND<0.50
	09/04/03	ND<100	ND<20	28	ND<0.50	ND<0.50	3.8	ND<0.50	ND<0.50
	11/17/03	ND<100	30 (b)	50	ND<0.50	ND<0.50	6.2	NA	NA
MW-3	02/11/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/27/03	ND<100	ND<20	0.61	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/04/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
A-4	02/11/03	ND<100	ND<20	0.53	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
A-5	02/11/03	ND<100	ND<20	0.97	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/27/03	ND<100	ND<20	0.98	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/04/03	ND<100	ND<20	0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
A-6	02/11/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/04/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

**Table 3**  
**Fuel Oxygenate Analytical Data**  
 ARCO Service Station #5387  
 20200 Hesperian Blvd  
 Hayward, 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)
A-7	02/11/03	ND<100	ND<20	21	ND<0.50	6.5	ND<0.50	NA	NA
	06/27/03	ND<100	ND<20	9.4	ND<0.50	ND<0.50	2.1	ND<0.50	ND<0.50
	09/04/03	ND<100	ND<20	3.4	ND<0.50	ND<0.50	0.86	ND<0.50	ND<0.50
	<b>11/17/03</b>	<b>ND&lt;100</b>	<b>ND&lt;20 (b)</b>	<b>1.4</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	NA	NA
A-8	02/11/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/04/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
A-9	02/11/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/27/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/04/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
A-10	02/11/03	ND<100	ND<20	1.9	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/27/03	ND<100 (a)	ND<20	0.99	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/04/03	ND<100	ND<20	1.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
AR-1	02/11/03	ND<100	ND<20	4.7	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/27/03	ND<100 (a)	ND<20	1.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	<b>11/17/03</b>	<b>ND&lt;100</b>	<b>ND&lt;20 (b)</b>	<b>1.4</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	NA	NA
AR-2	02/11/03	ND<100	ND<20	0.75	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/27/03	ND<100 (a)	ND<20	6.0	ND<0.50	ND<0.50	2.6	ND<0.50	ND<0.50
	<b>11/17/03</b>	<b>ND&lt;100</b>	<b>ND&lt;20 (b)</b>	<b>0.86</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	NA	NA

**Table 3**

**Fuel Oxygenate Analytical Data**  
ARCO Service Station #5387  
20200 Hesperian Blvd  
Hayward, 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)
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**Note:**

All fuel oxygenate compounds analyzed using EPA Method 8260B

**Abbreviations:**

- 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 specified laboratory reporting limit
- NA = Data not available, not analyzed, or not applicable
- (a) = The continuing calibration verification was outside of client contractual acceptance limits by 11.7% low. However, it was within method acceptance limits. The data should be useful for its intended purpose.
- (b) = The result was reported with a possible low bias due to the continuing calibration verification falling outside the acceptance criteria.



**ATTACHMENT A**  
**FIELD PROCEDURES AND FIELD DATA SHEETS**

## **FIELD PROCEDURES**

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### **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 # 03117-BA1 Date 11/17/03 Client Arco 5387

Site 20200 Hesperian Blvd, Hayward

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					10.94	28.58	TOC	242 VALVE
MW-2	2					11.98	28.39		
60 MW-3	2					9.93	27.98		242 VALVE
60 A-4	3					13.09	34.58		<del>242 VALVE</del>
60 A-5	3					12.37	29.52		
60 A-6	3					12.44	34.40		
A-7	3					13.84	35.03		
60 A-8	2					10.55	33.45		
60 A-9	2					12.18	33.13		
60 A-10	2					13.27	33.33		Bottom Casing
AR-1	6					11.13	33.92		242 VALVE Prod. Tubing
AR-2	6					12.08	35.17		242 VALVE

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>CS117-FA1</u>	Station # <u>5387</u>
Sampler: <u>Beia's Autos</u>	Date: <u>11/17/03</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>28.58</u>	Depth to Water: <u>10.94</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 <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Disposable Bailer      Disposable Bailer  
Positive Air Displacement      Extraction Port  
Electric Submersible      Other: \_\_\_\_\_  
Extraction Pump  
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>2.9</u>	x	<u>3</u>	=	<u>8.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1031	68.2	6.8	1,049	2.9	cloudy gray
1034	67.6	6.7	1,048	5.8	"
1037	67.4	6.7	1,048	8.7	"

Did well dewater? Yes  No      Gallons actually evacuated: 8.7

Sampling Time: 1040      Sampling Date: 11/17/03

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: 1-Cong + Ethanol All by SZC; Ferric Iron  
Aluminum (SM23208), Nitrate (E1530) (Hach)

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031117-FA1	Station # 5387
Sampler: BROWN ALCOBED	Date: 11/17/03
Well I.D.: MW-2	Well Diameter: <u>3</u> 3 4 6 8
Total Well Depth: 28.39	Depth to Water: 11.98
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 <sup>2</sup> * 0.163

Purge Method:  Bailer      Sampling Method:  Bailer

Disposable Bailer       Disposable Bailer  
 Positive Air Displacement       Extraction Port  
 Electric Submersible  
 Extraction Pump  
 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>2.7</u>	X	<u>3</u>	=	<u>8.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1008	67.7	6.6	1,067	2.7	cloudy gray, odor
1010	67.9	6.8	1,061	5.4	"
1012	68.1	6.7	1,058	8.1	"

Did well dewater? Yes   No      Gallons actually evacuated: 8.1

Sampling Time: 1015      Sampling Date: 11/17/03

Sample I.D.: MW-2      Laboratory: (Pace) Sequoia Other \_\_\_\_\_

Analyzed for: (TPH-G BTEX) MTBE TPH-D Other: Chloroform Ethanol ALL b<sub>5</sub> S2L0; Ferrrous Iron; Alkalinity (SM2320B); Nitrate (2-10-30) (Hach)

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	3.1	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 03117-BA1	Station # 5387
Sampler: BRIAN ALCOCO	Date: 11/17/03
Well I.D.: A-7	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 35.03	Depth to Water: 13.84
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 <sup>2</sup> * 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.

<u>7.9</u>	x	<u>3</u>	=	<u>23.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
0938	68.0	6.2	1,313	<del>7.9</del>	cloudy gray
0940	68.0	6.4	1,114	15.8	clear
0942	68.1	6.5	1,100	23.7	"

Did well dewater? Yes  No  Gallons actually evacuated: 23.7

Sampling Time: 0945 Sampling Date: 11/17/03

Sample I.D.: A-7 Laboratory: (Pace) Sequoia Other \_\_\_\_\_

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: TCs, PCBs, Ethanol, ALL by SCLC; Ferric Iron, Alkalinity (SM2320B), Nitrate (K1200) (Ames, IL)

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	3.5	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 03117-BA1	Station # 5387
Sampler: <u>BRAND ALUMINUM</u>	Date: 11/17/03
Well I.D.: AR-1	Well Diameter: 2 3 4 <u>(6)</u> 8
Total Well Depth: 33.92	Depth to Water: 11.13
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 <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
 Disposable Bailer  
 Positive Air Displacement  
Electric Submersible  
 Extraction Pump  
 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>33.5</u>	x	<u>3</u>	=	<u>100.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>(µS)</u> )	Gals. Removed	Observations
1107	68.8	6.9	1,058	33.5	cloudy brown-gray
1112	67.5	6.8	1,079	67.0	clear
1117	67.8	6.7	1,078	100.5	"

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: 100.5
Sampling Time: 1120	Sampling Date: 11/17/03
Sample I.D.: AR-1	Laboratory: <u>(Pace)</u> Sequoia Other _____
Analyzed for: <u>(TPH-G BTEX)</u> MTBE TPH-D Other: <u>(Cings + Ethanol All by SZE; Alkalis (S123248); Nitrate (S11752) (EPA 504) (Lead) (S11752))</u>	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: <u>1.8</u> mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031117-F41	Station # 5387
Sampler: Beina Access	Date: 11/17/03
Well I.D.: AR-2	Well Diameter: 2 3 4 (6) 8
Total Well Depth: 35.17	Depth to Water: 12.08
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 <sup>2</sup> * 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.

<u>32.4</u>	x	<u>3</u>	=	<u>97.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1137	69.1	6.9	1,072	32.4	cloudy brown
1142	68.2	6.9	1,128	64.8	"
1147	67.3	6.8	1,121	97.2	"

Did well dewater? Yes  No Gallons actually evacuated: 97.2

Sampling Time: 1150 Sampling Date: 11/17/03

Sample I.D.: AR-2 Laboratory: Pace Sequoia Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Alkalinity (SM23003), Nitrate (SM23004) (Floyd, L.)

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.8	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:

5387

Station #

20200 Hesperian Blvd, Hayward

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

added equip. \_\_\_\_\_  
rinse water \_\_\_\_\_

any other adjustments \_\_\_\_\_

TOTAL GALS. RECOVERED 240

loaded onto BTS vehicle # 58

BTS event # 03117.3A1

time 1200 date 11/17/03

signature 

\*\*\*\*\*

REC'D AT \_\_\_\_\_

time \_\_\_\_\_ date 1/1

unloaded by signature \_\_\_\_\_

**ATTACHMENT B**

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

## **LABORATORY PROCEDURES**

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### **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.



3 December, 2003

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

RE: ARCO #5387, Hayward, CA  
Work Order: MMK0620

Enclosed are the results of analyses for samples received by the laboratory on 11/17/03 15:50. 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

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

Project: ARCO #5387, Hayward, CA  
Project Number: N/P  
Project Manager: Scott Robinson

MMK0620  
Reported:  
12/03/03 15:58

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MMK0620-01	Water	11/17/03 10:40	11/17/03 15:50
MW-2	MMK0620-02	Water	11/17/03 10:15	11/17/03 15:50
A-7	MMK0620-03	Water	11/17/03 09:45	11/17/03 15:50
AR-1	MMK0620-04	Water	11/17/03 11:20	11/17/03 15:50
AR-2	MMK0620-05	Water	11/17/03 11:50	11/17/03 15:50
TB-5387-11172003	MMK0620-06	Water	11/17/03 12:00	11/17/03 15:50

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

 Project: ARCO #5387, Hayward, CA  
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 Project Manager: Scott Robinson

 MMK0620  
 Reported:  
 12/03/03 15:58

**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-1 (MMK0620-01) Water Sampled: 11/17/03 10:40 Received: 11/17/03 15:50**

Ethanol	ND	100	ug/l	1	3K26028	11/26/03	11/27/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-10
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<b>tert-Amyl methyl ether</b>	<b>1.7</b>	<b>0.50</b>	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<b>Gasoline Range Organics</b>	<b>420</b>	<b>50</b>	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>108 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

**MW-1 (MMK0620-01RE1) Water Sampled: 11/17/03 10:40 Received: 11/17/03 15:50**

<b>Methyl tert-butyl ether</b>	<b>140</b>	<b>5.0</b>	ug/l	10	3L01027	12/01/03	12/01/03	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>106 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

**MW-2 (MMK0620-02) Water Sampled: 11/17/03 10:15 Received: 11/17/03 15:50**

Ethanol	ND	100	ug/l	1	3K26028	11/26/03	11/27/03	EPA 8260B	
tert-Butyl alcohol	<b>30</b>	20	"	"	"	"	"	"	O-10
<b>Methyl tert-butyl ether</b>	<b>50</b>	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<b>tert-Amyl methyl ether</b>	<b>6.2</b>	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<b>Gasoline Range Organics</b>	<b>530</b>	<b>50</b>	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>109 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	



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12/03/03 15:58

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>A-7 (MMK0620-03) Water Sampled: 11/17/03 09:45 Received: 11/17/03 15:50</b>									
Ethanol	ND	100	ug/l	1	3K26028	11/26/03	11/27/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-10
<b>Methyl tert-butyl ether</b>	<b>1.4</b>	<b>0.50</b>	"	"	"	"	"	"	
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

**AR-1 (MMK0620-04) Water Sampled: 11/17/03 11:20 Received: 11/17/03 15:50**

Ethanol	ND	100	ug/l	1	3K26028	11/26/03	11/27/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-10
<b>Methyl tert-butyl ether</b>	<b>1.4</b>	<b>0.50</b>	"	"	"	"	"	"	
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*

109 % 78-129



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MMK0620  
Reported:  
12/03/03 15:58

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>AR-2 (MMK0620-05) Water</b> <b>Sampled: 11/17/03 11:50</b> <b>Received: 11/17/03 15:50</b>									
Ethanol	ND	100	ug/l	1	3K26028	11/26/03	11/27/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-10
<b>Methyl tert-butyl ether</b>	<b>0.86</b>	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	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %		78-129	"	"	"	"	





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Reported:  
12/03/03 15:58

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (MMK0620-01) Water    Sampled: 11/17/03 10:40    Received: 11/17/03 15:50</b>									
Bicarbonate Alkalinity	420	25	mg/l	5	3K25011	11/24/03	11/24/03	SM 2320B	
Carbonate Alkalinity	ND	25	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	25	"	"	"	"	"	"	
<b>Total Alkalinity</b>	<b>420</b>	<b>25</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	
<b>MW-2 (MMK0620-02) Water    Sampled: 11/17/03 10:15    Received: 11/17/03 15:50</b>									
Bicarbonate Alkalinity	480	25	mg/l	5	3K25011	11/24/03	11/24/03	SM 2320B	
Carbonate Alkalinity	ND	25	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	25	"	"	"	"	"	"	
<b>Total Alkalinity</b>	<b>480</b>	<b>25</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	
<b>A-7 (MMK0620-03) Water    Sampled: 11/17/03 09:45    Received: 11/17/03 15:50</b>									
Bicarbonate Alkalinity	380	25	mg/l	5	3K25011	11/24/03	11/24/03	SM 2320B	
Carbonate Alkalinity	ND	25	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	25	"	"	"	"	"	"	
<b>Total Alkalinity</b>	<b>380</b>	<b>25</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	
<b>AR-1 (MMK0620-04) Water    Sampled: 11/17/03 11:20    Received: 11/17/03 15:50</b>									
Bicarbonate Alkalinity	450	25	mg/l	5	3K25011	11/24/03	11/24/03	SM 2320B	
Carbonate Alkalinity	ND	25	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	25	"	"	"	"	"	"	
<b>Total Alkalinity</b>	<b>450</b>	<b>25</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	
<b>AR-2 (MMK0620-05) Water    Sampled: 11/17/03 11:50    Received: 11/17/03 15:50</b>									
Bicarbonate Alkalinity	460	25	mg/l	5	3K25011	11/24/03	11/24/03	SM 2320B	
Carbonate Alkalinity	ND	25	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	25	"	"	"	"	"	"	
<b>Total Alkalinity</b>	<b>460</b>	<b>25</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	

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**Reported:**  
 12/03/03 15:58

**Ferrous Iron by Hach method 8146/1;10 Phenanthroline Method  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (MMK0620-01) Water    Sampled: 11/17/03 10:40    Received: 11/17/03 15:50</b>									
Ferrous Iron	0.25	0.10	mg/l	1	3L01010	11/18/03	11/18/03	Hach Co. 8146	
<b>MW-2 (MMK0620-02) Water    Sampled: 11/17/03 10:15    Received: 11/17/03 15:50</b>									
Ferrous Iron	2.7	0.50	mg/l	5	3L01010	11/18/03	11/18/03	Hach Co. 8146	
<b>A-7 (MMK0620-03) Water    Sampled: 11/17/03 09:45    Received: 11/17/03 15:50</b>									
Ferrous Iron	0.15	0.10	mg/l	1	3L01010	11/18/03	11/18/03	Hach Co. 8146	
<b>AR-1 (MMK0620-04) Water    Sampled: 11/17/03 11:20    Received: 11/17/03 15:50</b>									
Ferrous Iron	2.8	0.50	mg/l	5	3L01010	11/18/03	11/18/03	Hach Co. 8146	
<b>AR-2 (MMK0620-05) Water    Sampled: 11/17/03 11:50    Received: 11/17/03 15:50</b>									
Ferrous Iron	0.13	0.10	mg/l	1	3L01010	11/18/03	11/18/03	Hach Co. 8146	



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MMK0620  
Reported:  
12/03/03 15:58

**Anions by EPA Method 300.0  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (MMK0620-01) Water</b> Sampled: 11/17/03 10:40 Received: 11/17/03 15:50									
Nitrate as NO3	0.90	0.50	mg/l	1	3K21026	11/18/03	11/18/03	EPA 300.0	
Sulfate as SO4	39	5.0	"	10	"	"	11/18/03	"	
<b>MW-2 (MMK0620-02) Water</b> Sampled: 11/17/03 10:15 Received: 11/17/03 15:50									
Nitrate as NO3	ND	0.50	mg/l	1	3K21026	11/18/03	11/18/03	EPA 300.0	
Sulfate as SO4	20	5.0	"	10	"	"	11/18/03	"	
<b>A-7 (MMK0620-03) Water</b> Sampled: 11/17/03 09:45 Received: 11/17/03 15:50									
Nitrate as NO3	33	5.0	mg/l	10	3K21026	11/18/03	11/18/03	EPA 300.0	
Sulfate as SO4	45	5.0	"	"	"	"	"	"	
<b>AR-1 (MMK0620-04) Water</b> Sampled: 11/17/03 11:20 Received: 11/17/03 15:50									
Nitrate as NO3	23	5.0	mg/l	10	3K21026	11/18/03	11/18/03	EPA 300.0	
Sulfate as SO4	40	5.0	"	"	"	"	"	"	
<b>AR-2 (MMK0620-05) Water</b> Sampled: 11/17/03 11:50 Received: 11/17/03 15:50									
Nitrate as NO3	31	5.0	mg/l	10	3K21026	11/18/03	11/18/03	EPA 300.0	
Sulfate as SO4	44	5.0	"	"	"	"	"	"	



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Reported:  
12/03/03 15:58

**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 3K26028 - EPA 5030B P/T**

**Blank (3K26028-BLK1)**

Prepared & Analyzed: 11/26/03

Ethanol	ND	100	ug/l							O-09
tert-Butyl alcohol	ND	20	"							O-09
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

5.87

"

5.00

117

78-129

**Laboratory Control Sample (3K26028-BS1)**

Prepared & Analyzed: 11/26/03

Ethanol	218	100	ug/l	200		109	31-186			O-09
tert-Butyl alcohol	63.4	20	"	50.0		127	0-206			O-09
Methyl tert-butyl ether	10.9	0.50	"	10.0		109	63-137			
Di-isopropyl ether	8.86	0.50	"	10.0		88.6	76-130			
Ethyl tert-butyl ether	8.57	0.50	"	10.0		85.7	61-141			
tert-Amyl methyl ether	10.3	0.50	"	10.0		103	56-140			
1,2-Dichloroethane	12.1	0.50	"	10.0		121	77-136			
1,2-Dibromoethane (EDB)	11.6	0.50	"	10.0		116	77-132			
Benzene	12.9	0.50	"	10.0		129	78-124			Q-LIM
Toluene	10.3	0.50	"	10.0		103	78-129			
Ethylbenzene	9.67	0.50	"	10.0		96.7	84-117			
Xylenes (total)	28.1	0.50	"	30.0		93.7	83-125			

Surrogate: 1,2-Dichloroethane-d4

5.32

"

5.00

106

78-129

URS Corporation [Arco]  
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MMK0620  
Reported:  
12/03/03 15:58

**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 3K26028 - EPA 5030B P/T**
**Laboratory Control Sample (3K26028-BS2)**

Prepared: 11/26/03 Analyzed: 11/27/03

Methyl tert-butyl ether	8.22	0.50	ug/l	9.92		82.9	63-137			
Benzene	7.37	0.50	"	6.40		115	78-124			
Toluene	35.9	0.50	"	29.7		121	78-129			
Ethylbenzene	7.30	0.50	"	6.96		105	84-117			
Xylenes (total)	35.5	0.50	"	33.7		105	83-125			
Gasoline Range Organics	446	50	"	440		101	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.06</i>		<i>"</i>	<i>5.00</i>		<i>101</i>	<i>78-129</i>			

**Laboratory Control Sample Dup (3K26028-BSD1)**

Prepared &amp; Analyzed: 11/26/03

Ethanol	243	100	ug/l	200		122	31-186	10.8	37	O-09
tert-Butyl alcohol	64.3	20	"	50.0		129	0-206	1.41	22	O-09
Methyl tert-butyl ether	11.0	0.50	"	10.0		110	63-137	0.913	13	
Di-isopropyl ether	9.32	0.50	"	10.0		93.2	76-130	5.06	9	
Ethyl tert-butyl ether	8.83	0.50	"	10.0		88.3	61-141	2.99	9	
tert-Amyl methyl ether	10.4	0.50	"	10.0		104	56-140	0.966	12	
1,2-Dichloroethane	12.0	0.50	"	10.0		120	77-136	0.830	13	
1,2-Dibromoethane (EDB)	11.5	0.50	"	10.0		115	77-132	0.866	9	
Benzene	12.6	0.50	"	10.0		126	78-124	2.35	12	Q-LIM
Toluene	10.0	0.50	"	10.0		100	78-129	2.96	10	
Ethylbenzene	9.59	0.50	"	10.0		95.9	84-117	0.831	10	
Xylenes (total)	28.0	0.50	"	30.0		93.3	83-125	0.357	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.35</i>		<i>"</i>	<i>5.00</i>		<i>107</i>	<i>78-129</i>			

**Laboratory Control Sample Dup (3K26028-BSD2)**

Prepared: 11/26/03 Analyzed: 11/27/03

Methyl tert-butyl ether	9.08	0.50	ug/l	9.92		91.5	63-137	9.94	13	
Benzene	6.72	0.50	"	6.40		105	78-124	9.23	12	
Toluene	34.5	0.50	"	29.7		116	78-129	3.98	10	
Ethylbenzene	6.94	0.50	"	6.96		99.7	84-117	5.06	10	
Xylenes (total)	35.0	0.50	"	33.7		104	83-125	1.42	11	
Gasoline Range Organics	413	50	"	440		93.9	70-113	7.68	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.08</i>		<i>"</i>	<i>5.00</i>		<i>102</i>	<i>78-129</i>			

Sequoia Analytical - Morgan Hill

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



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Project: ARCO #5387, Hayward, CA  
Project Number: N/P  
Project Manager: Scott Robinson

MMK0620  
Reported:  
12/03/03 15:58

**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 3K26028 - EPA 5030B P/T**

<b>Matrix Spike (3K26028-MS1)</b>	<b>Source: MMK0621-02</b>			<b>Prepared: 11/26/03</b>		<b>Analyzed: 11/27/03</b>				
Ethanol	1630	1000	ug/l	2000	ND	81.5	31-186			O-09
tert-Butyl alcohol	787	200	"	500	240	109	0-206			O-09
Methyl tert-butyl ether	438	5.0	"	100	300	138	63-137			QM-07
Di-isopropyl ether	145	5.0	"	100	ND	145	76-130			QM-07
Ethyl tert-butyl ether	109	5.0	"	100	ND	109	61-141			
tert-Amyl methyl ether	97.3	5.0	"	100	1.4	95.9	56-140			
1,2-Dichloroethane	113	5.0	"	100	ND	113	77-126			
1,2-Dibromoethane (EDB)	108	5.0	"	100	ND	108	77-132			
Benzene	637	5.0	"	100	450	187	78-124			QM-07
Toluene	119	5.0	"	100	10	109	78-129			
Ethylbenzene	235	5.0	"	100	110	125	84-117			QM-07
Xylenes (total)	388	5.0	"	300	70	106	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.30</i>		<i>"</i>	<i>5.00</i>		<i>106</i>	<i>78-129</i>			

<b>Matrix Spike Dup (3K26028-MSD1)</b>	<b>Source: MMK0621-02</b>			<b>Prepared: 11/26/03</b>		<b>Analyzed: 11/27/03</b>				
Ethanol	1840	1000	ug/l	2000	ND	92.0	31-186	12.1	37	O-09
tert-Butyl alcohol	640	200	"	500	240	80.0	0-206	20.6	22	O-09
Methyl tert-butyl ether	398	5.0	"	100	300	98.0	63-137	9.57	13	
Di-isopropyl ether	161	5.0	"	100	ND	161	76-130	10.5	9	QM-07, QR-07
Ethyl tert-butyl ether	118	5.0	"	100	ND	118	61-141	7.93	9	
tert-Amyl methyl ether	96.4	5.0	"	100	1.4	95.0	56-140	0.929	12	
1,2-Dichloroethane	106	5.0	"	100	ND	106	77-126	6.39	13	
1,2-Dibromoethane (EDB)	104	5.0	"	100	ND	104	77-132	3.77	9	
Benzene	584	5.0	"	100	450	134	78-124	8.68	12	QM-07
Toluene	110	5.0	"	100	10	100	78-129	7.86	10	
Ethylbenzene	222	5.0	"	100	110	112	84-117	5.69	10	
Xylenes (total)	372	5.0	"	300	70	101	83-125	4.21	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.98</i>		<i>"</i>	<i>5.00</i>		<i>99.6</i>	<i>78-129</i>			

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

Project: ARCO #5387, Hayward, CA  
Project Number: N/P  
Project Manager: Scott Robinson

MMK0620  
**Reported:**  
12/03/03 15:58

**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 3L01027 - EPA 5030B P/T**

**Blank (3L01027-BLK1)**

Prepared & Analyzed: 12/01/03

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.44		"	5.00		109	78-129			

**Laboratory Control Sample (3L01027-BS1)**

Prepared & Analyzed: 12/01/03

Ethanol	222	100	ug/l	200		111	31-186			
tert-Butyl alcohol	47.2	20	"	50.0		94.4	0-206			
Methyl tert-butyl ether	9.59	0.50	"	10.0		95.9	63-137			
Di-isopropyl ether	9.04	0.50	"	10.0		90.4	76-130			
Ethyl tert-butyl ether	9.26	0.50	"	10.0		92.6	61-141			
tert-Amyl methyl ether	9.51	0.50	"	10.0		95.1	56-140			
1,2-Dichloroethane	10.2	0.50	"	10.0		102	77-136			
1,2-Dibromoethane (EDB)	9.25	0.50	"	10.0		92.5	77-132			
Benzene	9.50	0.50	"	10.0		95.0	78-124			
Toluene	8.80	0.50	"	10.0		88.0	78-129			
Ethylbenzene	8.60	0.50	"	10.0		86.0	84-117			
Xylenes (total)	25.6	0.50	"	30.0		85.3	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.38		"	5.00		108	78-129			

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

 Project: ARCO #5387, Hayward, CA  
 Project Number: N/P  
 Project Manager: Scott Robinson

 MMK0620  
 Reported:  
 12/03/03 15:58

**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 3L01027 - EPA 5030B P/T**
**Laboratory Control Sample Dup (3L01027-BSD1)**

Prepared: 12/01/03 Analyzed: 12/02/03

Ethanol	202	100	ug/l	200	101	31-186	9.43	37		
tert-Butyl alcohol	47.3	20	"	50.0	94.6	0-206	0.212	22		
Methyl tert-butyl ether	9.68	0.50	"	10.0	96.8	63-137	0.934	13		
Di-isopropyl ether	9.33	0.50	"	10.0	93.3	76-130	3.16	9		
Ethyl tert-butyl ether	9.48	0.50	"	10.0	94.8	61-141	2.35	9		
tert-Amyl methyl ether	9.73	0.50	"	10.0	97.3	56-140	2.29	12		
1,2-Dichloroethane	10.4	0.50	"	10.0	104	77-136	1.94	13		
1,2-Dibromoethane (EDB)	9.20	0.50	"	10.0	92.0	77-132	0.542	9		
Benzene	10.3	0.50	"	10.0	103	78-124	8.08	12		
Toluene	9.51	0.50	"	10.0	95.1	78-129	7.76	10		
Ethylbenzene	9.37	0.50	"	10.0	93.7	84-117	8.57	10		
Xylenes (total)	27.6	0.50	"	30.0	92.0	83-125	7.52	11		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.18</i>		<i>"</i>	<i>5.00</i>	<i>104</i>	<i>78-129</i>				





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

Project: ARCO #5387, Hayward, CA  
Project Number: N/P  
Project Manager: Scott Robinson

MMK0620  
Reported:  
12/03/03 15:58

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3K25011 - General Preparation**

**Blank (3K25011-BLK1)**

Prepared & Analyzed: 11/24/03

Bicarbonate Alkalinity	ND	5.0	mg/l							
Carbonate Alkalinity	ND	5.0	"							
Hydroxide Alkalinity	ND	5.0	"							
Total Alkalinity	ND	5.0	"							

**Laboratory Control Sample (3K25011-BS1)**

Prepared & Analyzed: 11/24/03

Total Alkalinity	99.8	5.0	mg/l	100		99.8	80-120			
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**Matrix Spike (3K25011-MS1)**

Source: MMK0607-01

Prepared & Analyzed: 11/24/03

Total Alkalinity	129	5.0	mg/l	100	27	102	75-125			
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**Matrix Spike Dup (3K25011-MSD1)**

Source: MMK0607-01

Prepared & Analyzed: 11/24/03

Total Alkalinity	129	5.0	mg/l	100	27	102	75-125	0.00	20	
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URS Corporation [Arco]  
500 12th Street, Suite 200  
Oakland CA, 94607

Project: ARCO #5387, Hayward, CA  
Project Number: N/P  
Project Manager: Scott Robinson

MMK0620  
Reported:  
12/03/03 15:58

**Ferrous Iron by Hach method 8146/1;10 Phenanthroline Method - 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 3L01010 - General Preparation**

**Blank (3L01010-BLK1)**

Prepared & Analyzed: 11/18/03

Ferrous Iron                      ND                      0.10                      mg/l

**Laboratory Control Sample (3L01010-BS1)**

Prepared & Analyzed: 11/18/03

Ferrous Iron                      0.434                      0.10                      mg/l                      0.400                      108                      87-118

**Matrix Spike (3L01010-MS1)**

Source: MMK0620-05

Prepared & Analyzed: 11/18/03

Ferrous Iron                      0.631                      0.10                      mg/l                      0.400                      0.13                      125                      87-118                      QM-07

**Matrix Spike Dup (3L01010-MSD1)**

Source: MMK0620-05

Prepared & Analyzed: 11/18/03

Ferrous Iron                      0.638                      0.10                      mg/l                      0.400                      0.13                      127                      87-118                      1.10                      10                      QM-07

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

 Project: ARCO #5387, Hayward, CA  
 Project Number: N/P  
 Project Manager: Scott Robinson

 MMK0620  
 Reported:  
 12/03/03 15:58

**Anions by EPA Method 300.0 - 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 3K21026 - General Preparation**
**Blank (3K21026-BLK1)**

Prepared: 11/18/03 Analyzed: 11/19/03

Nitrate as NO3	ND	0.50	mg/l							
Sulfate as SO4	ND	0.50	"							

**Laboratory Control Sample (3K21026-BS1)**

Prepared: 11/18/03 Analyzed: 11/19/03

Nitrate as NO3	10.6	0.50	mg/l	10.0		106	90-110			
Sulfate as SO4	9.65	0.50	"	10.0		96.5	90-110			

**Matrix Spike (3K21026-MS1)**

Source: MMK0675-01

Prepared &amp; Analyzed: 11/18/03

Nitrate as NO3	12300	50	mg/l	1000	11000	130	80-124			QM-4X
Sulfate as SO4	1450	50	"	1000	410	104	72-140			

**Matrix Spike Dup (3K21026-MSD1)**

Source: MMK0675-01

Prepared &amp; Analyzed: 11/18/03

Nitrate as NO3	12100	50	mg/l	1000	11000	110	80-124	1.64	10	
Sulfate as SO4	1420	50	"	1000	410	101	72-140	2.09	10	



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

Project: ARCO #5387, Hayward, CA  
Project Number: N/P  
Project Manager: Scott Robinson

MMK0620  
Reported:  
12/03/03 15:58

### Notes and Definitions

- O-09 The result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.
- O-10 The result was reported with a possible low bias due to the continuing calibration verification falling outside the acceptance criteria.
- Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-4X The spike recovery was outside of control limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- QR-07 The RPD was outside control limits. The results may still be useful for their intended purpose.
- 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 546 GWM  
 BP BU/GEM CO Portfolio Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company  
 Requested Due Date (mm/dd/yy) 14 day TAT

Date: 11/17/03

On-site Time: 0845 Temp: 68  
 Off-site Time: 1200 Temp: 72  
 Sky Conditions: \_\_\_\_\_  
 Meteorological Events: \_\_\_\_\_  
 Wind Speed: \_\_\_\_\_ Direction: \_\_\_\_\_

Send To:	BP/GEM Facility No.: <u>ARCO 5387</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>20200 Hesperian Blvd, HAYWARD, CA</u>	Address: <u>500 12th St., Ste. 200</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 5387</u>	<u>Oakland, CA 94609-4014</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long: _____	e-mail EDD: <u>donna.casper@URSCorp.com</u>
Lab PM <u>Theresa Allen</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant/Contractor Project No.: <u>15-00005387.01 00427</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	Address: <u>P.O. Box 0549</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Report Type & QC Level: <u>1 Send RDF Reports</u>	<u>Moraga, CA 94570</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/GEM Account No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
		BP/GEM Work Release No: <u>INTRIM -50591</u>

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 <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	TPH-G/BTEX (8015/8021/8260)	TPH-D (8015)	MTBE (8021)	MTBE (8260)	MTBS, TAME, ETBE DIPE, TBA (8260)	1,2-DCA & EDB (8260)	Ethanol (8260)	Nitrates, Sulfates (EPA 300)	Alkalinity(SM2320B) Ferrous Iron (test 8146)		
1	MW-1	1040		X			MMK0620	4	1					X				X	X	X	X		
2	MW-2	1015		X			02	4	1					X				X	X	X	X		
3	A-7	0945		X			07	4	1					X				X	X	X	X		
4	AR-1	1120		X			04	4	1					X				X	X	X	X		
5	AR-2	1150		X			05	4	1					X				X	X	X	X		
6	TB-5387-11170003	1200		X			06	2															DW HOLD
7																							
8																							
9																							
10																							

Sampler's Name: <u>Brian Dinger</u>	Relinquished By / Affiliation: _____	Date: <u>11/17/03</u>	Time: <u>1512</u>	Accepted By / Affiliation: _____	Date: <u>11/15/03</u>	Time: <u>1512</u>
Sampler's Company: <u>BLAKE TREN SERVICE</u>	_____	<u>11/17/03</u>	<u>1550</u>	_____	<u>11/15/03</u>	<u>1550</u>
Shipment Date: _____	_____	_____	_____	_____	_____	_____
Shipment Method: _____	_____	_____	_____	_____	_____	_____
Shipment Tracking No: _____	_____	_____	_____	_____	_____	_____

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

Seals In Place Yes  No       Temperature Blank Yes  No       Cooler Temperature on Receipt 2 °F/C      Trip Blank Yes  No

# SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP  
 REC. BY (PRINT): RL  
 WORKORDER: MWKO 020

DATE REC'D AT LAB: 11/17/03  
 TIME REC'D AT LAB: 1550  
 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)	<input checked="" type="radio"/> Present / <input type="radio"/> Absent <input type="radio"/> Intact / <input type="radio"/> Broken*	01		MW-1	(2) Vials	H <sub>2</sub> O	w	11/17/03	3267020
2. Chain-of-Custody	<input checked="" type="radio"/> Present / <input type="radio"/> Absent*	02		MW-2	(1) 1L Poly	-			
3. Traffic Reports or Packing List:	<input type="radio"/> Present / <input checked="" type="radio"/> Absent	03		A-7					
4. Airbill:	Airbill / Sticker	04		AR-1					
	<input type="radio"/> Present / <input checked="" type="radio"/> Absent	05		AR-2					
5. Airbill #:		06		TB	(2) Vials	H <sub>2</sub> O	w		
6. Sample Labels:	<input checked="" type="radio"/> Present / <input type="radio"/> Absent								
7. Sample IDs:	<input checked="" type="radio"/> Listed / <input type="radio"/> Not Listed on Chain-of-Custody								
8. Sample Condition:	<input checked="" type="radio"/> Intact / <input type="radio"/> Broken* / <input type="radio"/> Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
10. Sample received within hold time:	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
11. Adequate sample volume received?	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
12. Proper Preservatives used:	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
13. Temp Rec. at Lab:	<u>2°C</u>								
Is temp 4 ± 2°C?	<input checked="" type="radio"/> Yes / <input type="radio"/> No**								

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

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

**ATTACHMENT C**

**EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION**

# AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Your EDF file has been successfully uploaded!

**Confirmation Number:** 1328189730

**Date/Time of Submittal:** 12/5/2003 4:46:05 PM

**Facility Global ID:** T0600101368

**Facility Name:** ARCO

**Submittal Title:** Fourth Quarter 2003 Groundwater Monitoring Report

**Submittal Type:** GW Monitoring Report

Logged in as URSCORP-OAKLAND  
(CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).



## AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

### UPLOADING A GEO\_WELL FILE

**Processing is complete. No errors were found!  
Your file has been successfully submitted!**

<b><u>Submittal Title:</u></b>	<b>Fourth Quarter 2003 Groundwater Monitoring Report - Geowell for Site #5387</b>
<b><u>Submittal Date/Time:</u></b>	<b>12/5/2003 5:00:05 PM</b>
<b><u>Confirmation Number:</u></b>	<b>2089085221</b>

**[Back to Main Menu](#)**

Logged in as URSCORP-OAKLAND  
(CONTRACTOR)

[CONTACT SITE ADMINISTRATOR.](#)

**ATTACHMENT D**  
**WELL REPAIR FIELD DATA SHEETS**

REPAIR DATA SHEET

Client Arco/BP #5387 Date 11/4/03  
Site Address 20200 Hesperian Blvd., Hayward, CA  
Job Number 031104-M61 Technician MB

Repair Location AR-2  
Deficiencies Corrected Vault lid welded to vault rim. Drilled, and cut off bolts. Opened vault, unable to repair bolt holes.  
Materials Used \_\_\_\_\_

Repair Location AR-1  
Deficiencies Corrected Vault lid welded to vault rim. Cut off welds, and one bolt. Opened vault, unable to repair bolt holes.  
Materials Used \_\_\_\_\_

Repair Location MW-1  
Deficiencies Corrected Vault lid welded to vault rim. Drilled out + cut off bolts. Opened vault, unable to repair bolt holes  
Materials Used \_\_\_\_\_

Repair Location AR-1 continued.  
Deficiencies Corrected Old Vapor Ext. cap not sealing well. Replaced w/ new 6" cap + lock.  
Materials Used 6" cap, lock

Repair Location MW-3  
Deficiencies Corrected Casing cracked. Lowered casing 0.17' No lock. Added new lock.  
Materials Used lock

Repair Location A-6  
Deficiencies Corrected Bolts/tabs stripped. Helicoiled 2 tabs + added 2 new bolts  
Materials Used 2 helicoils, 2 bolts.

REPAIR DATA SHEET

Client Arco/BP # 5387 Date 11/4/03

Site Address 20200 Hesperian Blvd., Hayward, CA

Job Number 031104-M61 Technician MB

Repair Location A-4

Deficiencies Corrected Bolts bent, tabs clogged w/ dirt. Tapped tabs + added 2 new bolts.

Materials Used 2 bolts

Repair Location \_\_\_\_\_

Deficiencies Corrected \_\_\_\_\_

Materials Used \_\_\_\_\_

Repair Location \_\_\_\_\_

Deficiencies Corrected \_\_\_\_\_

Materials Used \_\_\_\_\_

Repair Location \_\_\_\_\_

Deficiencies Corrected \_\_\_\_\_

Materials Used \_\_\_\_\_

Repair Location \_\_\_\_\_

Deficiencies Corrected \_\_\_\_\_

Materials Used \_\_\_\_\_

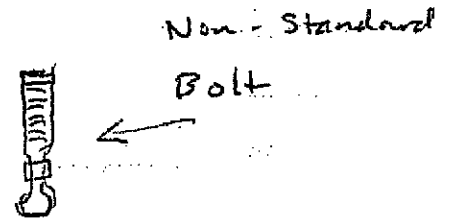
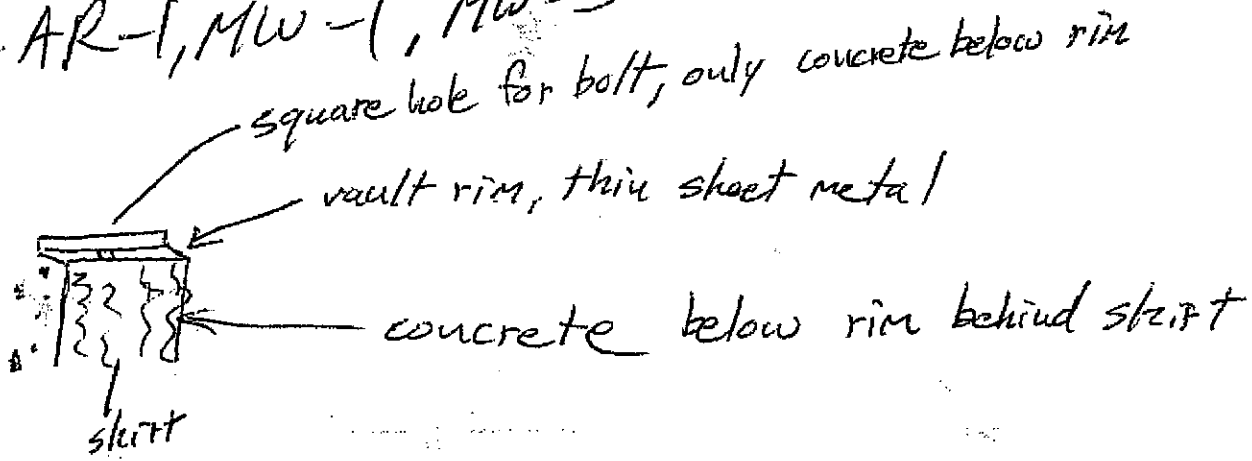
Repair Location \_\_\_\_\_

Deficiencies Corrected \_\_\_\_\_

Materials Used \_\_\_\_\_

SITE:  
ARLO 5387

AR-2, AR-1, MW-1, MW-3



---

## Error Summary Log

12/30/03

EDF 1.2i All files present in deliverable.

---

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #5387, Hayward, CA
Work Order Number:	MMK0620
Global ID:	NA
Lab Report Number:	MMK0620120320031612

## Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MMK06201203200 A-7 31612		MMK062003	W	CS	8260TPH	SW5030B	11/17/03	11/26/03	11/27/03	3K26028	1	
MMK06201203200 A-7 31612		MMK062003	W	CS	A2320B	METHOD	11/17/03	11/24/03	11/24/03	3K25011	1	
MMK06201203200 A-7 31612		MMK062003	W	CS	E300.0	METHOD	11/17/03	11/18/03	11/18/03	3K21026	1	
MMK06201203200 A-7 31612		MMK062003	W	CS	H8146	METHOD	11/17/03	11/18/03	11/18/03	3L01010	1	
MMK06201203200 AR-1 31612		MMK062004	W	CS	8260TPH	SW5030B	11/17/03	11/26/03	11/27/03	3K26028	1	
MMK06201203200 AR-1 31612		MMK062004	W	CS	A2320B	METHOD	11/17/03	11/24/03	11/24/03	3K25011	1	
MMK06201203200 AR-1 31612		MMK062004	W	CS	E300.0	METHOD	11/17/03	11/18/03	11/18/03	3K21026	1	
MMK06201203200 AR-1 31612		MMK062004	W	CS	H8146	METHOD	11/17/03	11/18/03	11/18/03	3L01010	1	
MMK06201203200 AR-2 31612		MMK062005	W	CS	8260TPH	SW5030B	11/17/03	11/26/03	11/27/03	3K26028	1	
MMK06201203200 AR-2 31612		MMK062005	W	CS	A2320B	METHOD	11/17/03	11/24/03	11/24/03	3K25011	1	
MMK06201203200 AR-2 31612		MMK062005	W	CS	E300.0	METHOD	11/17/03	11/18/03	11/18/03	3K21026	1	
MMK06201203200 AR-2 31612		MMK062005	W	CS	H8146	METHOD	11/17/03	11/18/03	11/18/03	3L01010	1	
MMK06201203200 MW-1 31612		MMK062001	W	CS	8260TPH	SW5030B	11/17/03	11/26/03	11/27/03	3K26028	1	
MMK06201203200 MW-1 31612		MMK062001	W	CS	A2320B	METHOD	11/17/03	11/24/03	11/24/03	3K25011	1	
MMK06201203200 MW-1 31612		MMK062001	W	CS	E300.0	METHOD	11/17/03	11/18/03	11/18/03	3K21026	1	
MMK06201203200 MW-1 31612		MMK062001	W	CS	H8146	METHOD	11/17/03	11/18/03	11/18/03	3L01010	1	
MMK06201203200 MW-1 31612		MMK062001R1	W	CS	8260TPH	SW5030B	11/17/03	12/01/03	12/01/03	3L01027	1	
MMK06201203200 MW-2 31612		MMK062002	W	CS	8260TPH	SW5030B	11/17/03	11/26/03	11/27/03	3K26028	1	
MMK06201203200 MW-2 31612		MMK062002	W	CS	A2320B	METHOD	11/17/03	11/24/03	11/24/03	3K25011	1	
MMK06201203200 MW-2 31612		MMK062002	W	CS	E300.0	METHOD	11/17/03	11/18/03	11/18/03	3K21026	1	

## Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MMK06201203200	MW-2	MMK062002	W	CS	H8146	METHOD	11/17/03	11/18/03	11/18/03	3L01010	1	
31612												
		MMK060701	W	NC	A2320B	METHOD	//	11/24/03	11/24/03	3K25011	1	
		MMK062102	W	NC	8260TPH	SW5030B	//	11/26/03	11/27/03	3K26028	1	
		MMK067501	W	NC	E300.0	METHOD	//	11/18/03	11/18/03	3K21026	1	
		3K21026BS1	WQ	BS1	E300.0	METHOD	//	11/18/03	11/19/03	3K21026	1	
		3K21026BLK1	WQ	LB1	E300.0	METHOD	//	11/18/03	11/19/03	3K21026	1	
		3K21026MS1	W	MS1	E300.0	METHOD	//	11/18/03	11/18/03	3K21026	1	
		3K21026MSD1	W	SD1	E300.0	METHOD	//	11/18/03	11/18/03	3K21026	1	
		3K25011BS1	WQ	BS1	A2320B	METHOD	//	11/24/03	11/24/03	3K25011	1	
		3K25011BLK1	WQ	LB1	A2320B	METHOD	//	11/24/03	11/24/03	3K25011	1	
		3K25011MS1	W	MS1	A2320B	METHOD	//	11/24/03	11/24/03	3K25011	1	
		3K25011MSD1	W	SD1	A2320B	METHOD	//	11/24/03	11/24/03	3K25011	1	
		3K26028BSD1	WQ	BD1	8260TPH	SW5030B	//	11/26/03	11/26/03	3K26028	1	
		3K26028BSD2	WQ	BD2	8260TPH	SW5030B	//	11/26/03	11/27/03	3K26028	1	
		3K26028BS1	WQ	BS1	8260TPH	SW5030B	//	11/26/03	11/26/03	3K26028	1	
		3K26028BS2	WQ	BS2	8260TPH	SW5030B	//	11/26/03	11/27/03	3K26028	1	
		3K26028BLK1	WQ	LB1	8260TPH	SW5030B	//	11/26/03	11/26/03	3K26028	1	
		3K26028MS1	W	MS1	8260TPH	SW5030B	//	11/26/03	11/27/03	3K26028	1	
		3K26028MSD1	W	SD1	8260TPH	SW5030B	//	11/26/03	11/27/03	3K26028	1	
		3L01010BS1	WQ	BS1	H8146	METHOD	//	11/18/03	11/18/03	3L01010	1	
		3L01010BLK1	WQ	LB1	H8146	METHOD	//	11/18/03	11/18/03	3L01010	1	
		3L01010MS1	W	MS1	H8146	METHOD	//	11/18/03	11/18/03	3L01010	1	
		3L01010MSD1	W	SD1	H8146	METHOD	//	11/18/03	11/18/03	3L01010	1	
		3L01027BSD1	WQ	BD1	8260TPH	SW5030B	//	12/01/03	12/02/03	3L01027	1	
		3L01027BS1	WQ	BS1	8260TPH	SW5030B	//	12/01/03	12/01/03	3L01027	1	
		3L01027BLK1	WQ	LB1	8260TPH	SW5030B	//	12/01/03	12/01/03	3L01027	1	



# EDFSAMP: Error Summary Log

12/30/03

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

# EDFTEST: Error Summary Log

12/30/03

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

# EDFRES: Error Summary Log

12/30/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3K21026MS1	MS1	W	E300.0	PR	11/18/03	1	NO3
Warning: extra parameter	3K21026MSD1	SD1	W	E300.0	PR	11/18/03	1	NO3
Warning: extra parameter	MMK062001	CS	W	A2320B	PR	11/24/03	1	ALKB
Warning: extra parameter	MMK062001	CS	W	A2320B	PR	11/24/03	1	ALKC
Warning: extra parameter	MMK062001	CS	W	A2320B	PR	11/24/03	1	ALKH
Warning: extra parameter	MMK062001	CS	W	E300.0	PR	11/18/03	1	NO3
Warning: extra parameter	MMK062002	CS	W	A2320B	PR	11/24/03	1	ALKB
Warning: extra parameter	MMK062002	CS	W	A2320B	PR	11/24/03	1	ALKC
Warning: extra parameter	MMK062002	CS	W	A2320B	PR	11/24/03	1	ALKH
Warning: extra parameter	MMK062002	CS	W	E300.0	PR	11/18/03	1	NO3
Warning: extra parameter	MMK062003	CS	W	A2320B	PR	11/24/03	1	ALKB
Warning: extra parameter	MMK062003	CS	W	A2320B	PR	11/24/03	1	ALKC
Warning: extra parameter	MMK062003	CS	W	A2320B	PR	11/24/03	1	ALKH
Warning: extra parameter	MMK062003	CS	W	E300.0	PR	11/18/03	1	NO3
Warning: extra parameter	MMK062004	CS	W	A2320B	PR	11/24/03	1	ALKB
Warning: extra parameter	MMK062004	CS	W	A2320B	PR	11/24/03	1	ALKC
Warning: extra parameter	MMK062004	CS	W	A2320B	PR	11/24/03	1	ALKH
Warning: extra parameter	MMK062004	CS	W	E300.0	PR	11/18/03	1	NO3
Warning: extra parameter	MMK062005	CS	W	A2320B	PR	11/24/03	1	ALKB
Warning: extra parameter	MMK062005	CS	W	A2320B	PR	11/24/03	1	ALKC
Warning: extra parameter	MMK062005	CS	W	A2320B	PR	11/24/03	1	ALKH
Warning: extra parameter	MMK062005	CS	W	E300.0	PR	11/18/03	1	NO3
Warning: extra parameter	MMK067501	NC	W	E300.0	PR	11/18/03	1	NO3
Warning: extra parameter	3K21026BLK1	LB1	WQ	E300.0	PR	11/19/03	1	NO3
Warning: extra parameter	3K21026BS1	BS1	WQ	E300.0	PR	11/19/03	1	NO3

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3K25011BLK1	LB1	WQ	A2320B	PR	11/24/03	1	ALKB
Warning: extra parameter	3K25011BLK1	LB1	WQ	A2320B	PR	11/24/03	1	ALKC
Warning: extra parameter	3K25011BLK1	LB1	WQ	A2320B	PR	11/24/03	1	ALKH

# EDFQC: Error Summary Log

12/30/03

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

# EDFCL: Error Summary Log

12/30/03

Error type	Clevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	//				

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**Submittal Type:** GW Monitoring Report

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