



Atlantic Richfield Company  
(a BP affiliated company)

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Alameda County  
JUL 13 2004  
Environmental Health

Mr. Robert Schultz  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Re: Second Quarter 2004 Groundwater Monitoring Report  
Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd  
Hayward, California  
URS Project #38486726

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

Submitted by:

Paul Supple  
Environmental Business Manager



July 12, 2004

Alameda County  
JUL 13 2004  
Environmental Health

Mr. Robert Schultz  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Re: Second Quarter 2004 Groundwater Monitoring Report  
Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd  
Hayward, California  
URS Project #38486726**

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the *Second Quarter 2004 Groundwater Monitoring Report* for Atlantic Richfield Company Service Station #5387, located at 20200 Hesperian Boulevard, Hayward, California.

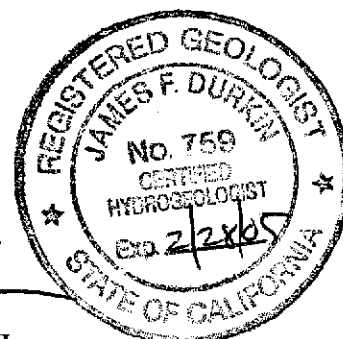
If you have any questions regarding this submission, please call me at (510) 874-3280.

Sincerely,

**URS CORPORATION**

Scott Robinson  
Project Manager

James F. Durkin, C.Hg.  
Senior Geologist



Enclosure: Second Quarter 2004 Groundwater Monitoring Report  
cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)

URS Corporation  
1333 Broadway, Suite 800  
Oakland, CA 94612-1924  
Tel: 510.893.3600  
Fax: 510.874.3268

**R E P O R T**

**SECOND QUARTER 2004  
GROUNDWATER MONITORING**

ATLANTIC RICHFIELD COMPANY  
SERVICE STATION #5387  
20200 HESPERIAN BOULEVARD  
HAYWARD, CALIFORNIA

*Prepared for*  
Atlantic Richfield Company

July 12, 2004

**URS**

URS Corporation  
1333 Broadway, Suite 800  
Oakland, California 94612

38486726



Date: July 12, 2004  
Quarter: 2Q 04

**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.: 38486726  
Primary Agency: Alameda County Environmental Health (ACEH)

**WORK PERFORMED THIS QUARTER (Second – 2004):**

1. Performed second quarter groundwater monitoring event on June 2, 2004.
2. Prepared and submitted second quarter 2004 groundwater monitoring report.
3. Performed well repairs on well A-5 on April 8, 2004 (Attachment D).
4. Prepared and submitted Site Closure Request on June 3, 2004.

**WORK PROPOSED FOR NEXT QUARTER (Third – 2004):**

1. Perform third quarter 2004 groundwater monitoring event.
2. Prepare and submit third 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: 9.25 ft (MW-3) to 13.08 ft (A-7)  
Groundwater Gradient (direction): West  
Groundwater Gradient (magnitude): 0.005 feet per foot



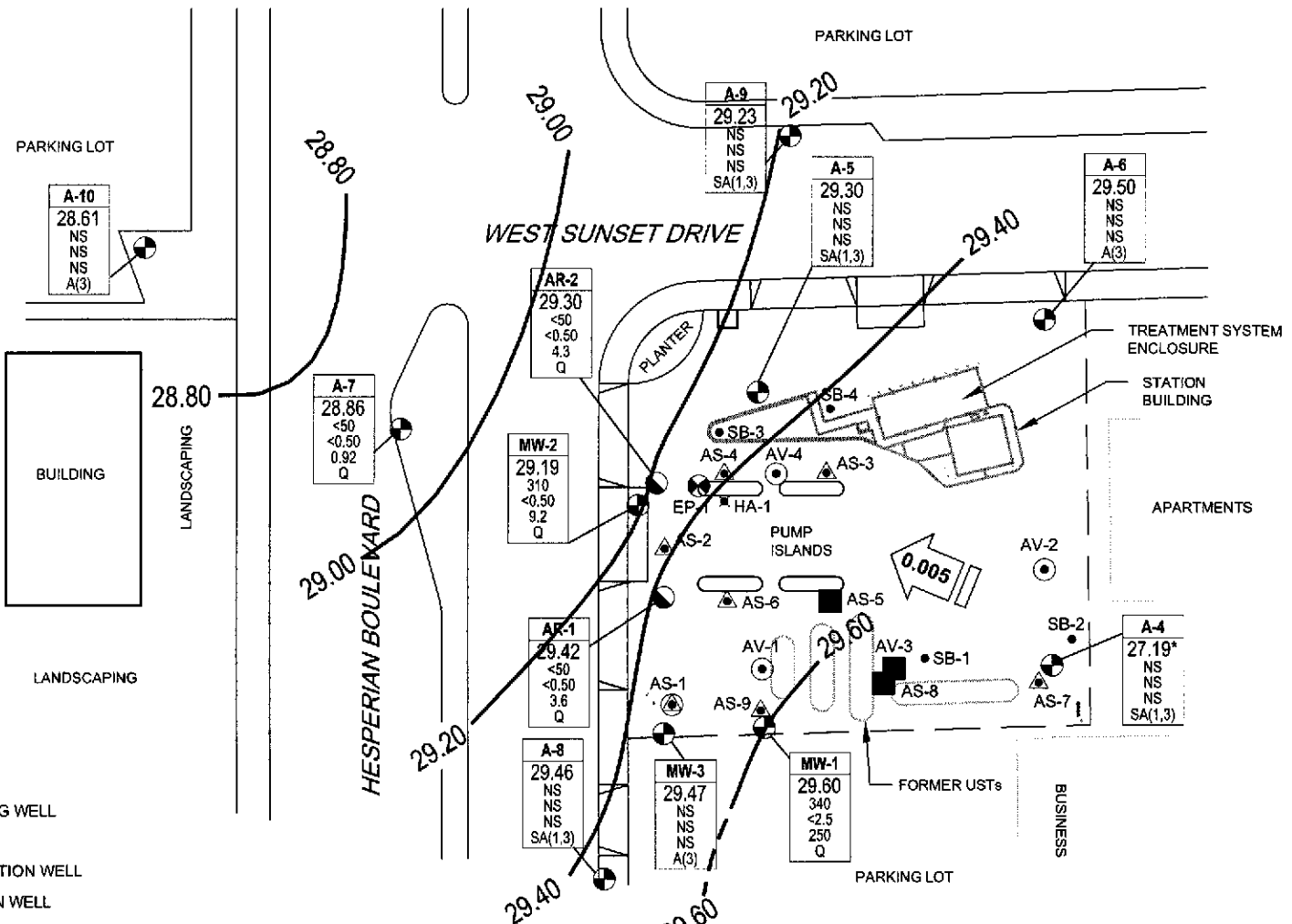
#### **DISCUSSION:**

Gasoline range organics (GRO) were detected above the laboratory reporting limit in two of the five wells sampled this quarter at a concentrations of 310 micrograms per liter ( $\mu\text{g/L}$ ) (MW-2) and 340  $\mu\text{g/L}$  (MW-1). Benzene was not detected above the laboratory reporting limit in any of the wells sampled this quarter. Methyl-tert-butyl ether (MTBE) was detected above the laboratory reporting limit in all wells sampled this quarter at concentrations ranging from 0.92  $\mu\text{g/L}$  (A-7) to 250  $\mu\text{g/L}$  (MW-1). Tert-amyl methyl ether (TAME) was detected above the laboratory reporting limit in one well at a concentration of 1.7  $\mu\text{g/L}$  (MW-2). No other fuel additives were detected above their respective laboratory reporting limits.

A Site Closure Request was prepared and submitted to the Alameda County Health Care Services Agency by URS on behalf of RM on June 3, 2004.

#### **ATTACHMENTS:**

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – June 2, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Table 3 – Fuel Additives 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 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

- 28.00 APPROXIMATE GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MSL)
- ← 0.005 GROUNDWATER FLOW DIRECTION AND GRADIENT (FEET/FOOT)

Well	WELL DESIGNATION
ELEV	GROUNDWATER ELEVATION
GRO	GRO, BENZENE & MTBE CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)
MTBE	
ASA/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

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



	<b>Project No. 38486726</b> Atlantic Richfield Company Station 5387 20200 Hesperian Boulevard Hayward, California	<b>GROUNDWATER ELEVATION CONTOUR          AND ANALYTICAL SUMMARY MAP</b> Second Quarter 2004 (June 2, 2004)	FIGURE <b>1</b>
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**Table 1**  
**Groundwater Elevation and Analytical Data**

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>
AR-1	09/14/92		38.11	10.0	35.0	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<20	---	---
	04/30/97					12.24	25.22	ND<20	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<0.5	ND<20	---	---
	10/22/97					11.90	25.56	ND<50	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<0.5	ND<20	---	---
	04/22/98					12.20	25.26	ND<50	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<0.5	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<0.5	ND<20	---	---
	04/29/99					11.35	26.11	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	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<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<1.00	26.6	1.8	6.9
	02/11/03 <sup>e</sup>	P				9.91	27.55	ND<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	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	1.4	1.8	6.7
	03/01/04 <sup>i</sup>	P	39.82			9.00	30.82	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8.6	0.6	7.0
	06/02/04	NP				10.40	29.42	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.6	0.3	7.2

**Table 1  
Groundwater Elevation and Analytical Data**

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>
AR-2	03/30/93		38.39	5.0	35.0	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	15	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			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>g</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
	03/01/04 <sup>l</sup>	P		40.68		10.01	30.67	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.2	6.9
06/02/04	NP				11.38	29.30	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.30	0.3	6.7	



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

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>
MW-1	08/08/86		38.36	5.0	30.0	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>e</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**

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft, bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>
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>f</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
	03/01/04 <sup>i</sup>	P	39.80			8.85	30.95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	14	2.1	6.5
	06/02/04	P				10.20	29.60	340	ND<2.5	ND<2.5	ND<2.5	ND<2.5	250	0.4	7.0
MW-2	08/08/86		38.58	5.0	30.0	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	---	---

**Table 1  
Groundwater Elevation and Analytical Data**

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>9</sup> (mg/L)	pH <sup>9</sup>
MW-2	01/15/02					---	---	1,200	15	4.5	ND<0.5	ND<0.5	190	---	---
(Cont'd)	04/24/02					---	---	1,300	18	ND<10	ND<10	ND<10	170*	---	---
	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
	03/01/04 <sup>1</sup>	P	40.51			10.05	30.46	890	ND<0.50	ND<0.50	ND<0.50	ND<0.50	36	3.1	6.6
	06/02/04	P				11.32	29.19	310	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.2	0.3	7.8
MW-3	08/08/86		37.77	5.0	30.0	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					11.65	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	---	---

**Table 1  
Groundwater Elevation and Analytical Data**

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>
MW-3	04/22/98					12.30	24.50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
(Cont'd)	07/08/98					8.30	28.50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	10/22/98					9.10	27.70	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	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
	11/17/03 <sup>h</sup>		36.63			9.93	26.70	-----Well Sampled Annually, 3rd Quarter -----							
	03/01/04 <sup>i</sup>		38.72			7.95	30.77	-----Well Sampled Annually, 3rd Quarter -----							
	06/02/04					9.25	29.47	-----Well Sampled Annually, 3rd Quarter -----							
A-4	03/06/91		39.46	10.0	35.0	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	---	---

**Table 1  
Groundwater Elevation and Analytical Data**

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>9</sup> (mg/L)	pH <sup>9</sup>
A-4	04/30/97					13.97	25.56	ND<20	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
(Cont'd)	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	---	---
	01/28/98					11.90	27.63	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	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>9</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>9</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>9</sup>					---	---	---	---	---	---	---	---	---	---
	11/17/03					13.09	26.44	----- Well Sampled Semi-annually (1 <sup>st</sup> and 3 <sup>rd</sup> Quarters) -----							
	03/01/04 <sup>1</sup>	P				10.95	28.58	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.2	6.7
	06/02/04					12.34	27.19	----- Well Sampled Semi-annually (1 <sup>st</sup> and 3 <sup>rd</sup> Quarters) -----							
A-5	12/24/91		38.94	10.0	31.5	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	---	---	---

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Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>
A-5	12/06/95					12.92	25.55	ND	ND	ND	ND	ND	---	---	---
(Cont'd)	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	---	---
	04/30/97					13.56	24.91	ND<20	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	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>g</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	----- Well Sampled Semi-annually (1 <sup>st</sup> and 3 <sup>rd</sup> Quarters) -----							
	03/01/04 <sup>l</sup>	P	41.00			10.90	30.10	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.77	3.2	6.7
	06/02/04					11.70	29.30	----- Well Sampled Semi-annually (1 <sup>st</sup> and 3 <sup>rd</sup> Quarters) -----							
A-6	12/24/91		39.07	NA	NA	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	---	---	---

**Table 1  
Groundwater Elevation and Analytical Data**

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>
A-6	08/17/94		38.78			14.34	24.44	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
(Cont'd)	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	---	---	---
	10/29/96					12.40	26.38	50	ND	ND	ND	ND	---	---	---
	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
	11/17/03					12.44	26.34	----- Well Sampled Annually, 3rd Quarter -----							
	03/01/04 <sup>i</sup>		41.25			10.45	30.80	----- Well Sampled Annually, 3rd Quarter -----							
	06/02/04					11.75	29.50	----- Well Sampled Annually, 3rd Quarter -----							
A-7	12/24/91		39.95	10.0	35.0	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	---	---	---

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

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>9</sup> (mg/L)	pH <sup>9</sup>
A-7	08/12/93					15.54	24.41	360	9.0	ND<0.50	13	9.0	---	---	---
(Cont'd)	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	---	---	---
	09/26/95		39.38			13.92	25.46	ND	ND	ND	ND	ND	---	---	---
	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
	03/01/04 <sup>1</sup>	P	41.94			12.65	29.29	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	3.5	6.7
	06/02/04	P				13.08	28.86	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.92	1.3	7.3
A-8	09/14/92		37.23	10.0	35.0	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	---	---	---



**Table 1  
Groundwater Elevation and Analytical Data**

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>d</sup> (mg/L)	pH <sup>d</sup>
A-8 (Cont'd)	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	---	---	---
	09/26/95		36.76			10.94	25.82	ND<50	ND	ND	ND	ND	---	---	---
	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	25.46	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>d</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	----- Well Sampled Semi-annually (1 <sup>st</sup> and 3 <sup>rd</sup> Quarters) -----								
03/01/04 <sup>1</sup>	P		39.29		8.51	30.78	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.76	3.6	6.8
06/02/04					9.83	29.46	----- Well Sampled Semi-annually (1 <sup>st</sup> and 3 <sup>rd</sup> Quarters) -----								
A-9	09/14/92		38.71	10.0	35.0	16.12	22.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---

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

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>	
A-9 (Cont'd)	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	---	---	---	
	12/06/95		38.19			13.14	25.05	ND<50	ND<0.5	ND	ND	ND	---	---	---	
	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<0.3	ND<0.5	ND<20	---	---
	04/30/97					12.05	26.14	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<50	---	---
	07/31/97					12.18	26.01	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	10/22/97					7.45	30.74	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	01/28/98					21.25	16.94	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/22/98					12.10	26.09	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	07/08/98					10.40	27.79	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	10/22/98					1.55	24.64	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/13/99					12.05	26.14	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<20	---	---
	04/29/99					7.43	30.76	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.5	ND<5	---	---
	01/15/02					---	---	ND<50	ND<0.5	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	ND<0.50*	---	---
	09/23/02	P				12.35	25.84	ND<50	ND<0.500	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<0.500	ND<1.00	ND<5.00	3.2	7.1
	02/11/03 <sup>g</sup>	P				10.97	27.22	ND<50	ND<0.50	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	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	ND<0.50	2.3	6.9	
11/17/03					12.18	26.01	----- Well Sampled Semi-annually (1 <sup>st</sup> and 3 <sup>rd</sup> Quarters) -----									
03/01/04 <sup>l</sup>	P		40.73		10.30	30.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.50	3.1	6.7	
06/02/04					11.50	29.23	----- Well Sampled Semi-annually (1 <sup>st</sup> and 3 <sup>rd</sup> Quarters) -----									
A-10	12/07/92		38.94	NA	NA	16.81	22.13	660	30	ND<2.5	ND<2.5	ND<2.5	---	---	---	

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

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Well Number	Date Sampled	Purge/ Not Purged	Casing Elevation (ft, MSL)	Top of Screen (ft, bgs)	Bottom of Screen (ft., bgs)	Depth to Groundwater (ft)	Groundwater Elevation (ft, MSL)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO <sup>g</sup> (mg/L)	pH <sup>g</sup>	
A-10 (Cont'd)	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	---	---	---	
	02/14/96					6.70	31.96	ND	ND	ND	ND	ND	---	---	---	
	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	----- Well Sampled Annually ( 3 <sup>rd</sup> Quarter) -----								
03/01/04 <sup>i</sup>			41.22			11.55	29.67	----- Well Sampled Annually ( 3 <sup>rd</sup> Quarter) -----								
06/02/04						12.61	28.61	----- Well Sampled Annually ( 3 <sup>rd</sup> Quarter) -----								

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

Atlantic Richfield Company Service Station #5387  
20200 Hesperian Blvd.  
Hayward, California

Notes: Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPH-g) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported. The carbon range for GRO was changed in the Second Quarter 2004 from C6-C10 to C4- C12.

- " --- " = Not analyzed/Not Measured/Not available.
- DO = Dissolved oxygen.
- GRO = Gasoline Range Organics, C4 - C12 Range
- µg/L = Micrograms per liter.
- MSL = Mean Sea Level.
- MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted (prior to 2/11/03).
- ND < = Not detected at or above the laboratory reporting limits.
- NP = No Purge.
- P = Purge.
- TPH -g = Total Petroleum Hydrocarbons quantified as gasoline and analyzed using EPA Method 8015B Modified (prior to 2/11/03).
- \* = Analyzed by EPA Method 8260B.
- ^ = 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.
- (i) = Well Surveyed to NAVD'88 datum on 2/23/04.
- 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**

Atlantic Richfield Company 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
11/17/03	West	0.003
03/01/04	West	0.008
<b>06/02/04</b>	<b>West</b>	<b>0.005</b>

**Table 3**  
**Fuel Additives Analytical Data**  
Atlantic Richfield Company 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
	09/04/03	NS	NS	NS	NS	NS	NS	NS	NS
	11/17/03	ND<100	ND<20 (b)	140	ND<0.50	ND<0.50	1.7	NA	NA
	03/01/04	ND<100 (a)	ND<20	14	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/02/04	ND<500	ND<100	250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
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
	03/01/04	ND<100 (a)	49	36	ND<0.50	ND<0.50	6.2	ND<0.50	ND<0.50
	06/02/04	ND<100	ND<20	9.2	ND<0.50	ND<0.50	1.7	ND<0.50	ND<0.50
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
	03/01/04	ND<100 (a)	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
	03/01/04	ND<100 (a)	ND<20	0.77	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 Additives Analytical Data**  
Atlantic Richfield Company 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
	11/17/03	ND<100	ND<20 (b)	1.4	ND<0.50	ND<0.50	ND<0.50	NA	NA
	03/01/04	ND<100 (a)	ND<20	1.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	<b>06/02/04</b>	<b>ND&lt;100</b>	<b>ND&lt;20</b>	<b>0.92</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>
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
	03/01/04	ND<100 (a)	ND<20	0.76	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
	03/01/04	ND<100 (a)	ND<20	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
	09/04/03	NS	NS	NS	NS	NS	NS	NS	NS
	11/17/03	ND<100	ND<20 (b)	1.4	ND<0.50	ND<0.50	ND<0.50	NA	NA
	03/01/04	ND<100 (a)	ND<20	8.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	<b>06/02/04</b>	<b>ND&lt;100</b>	<b>ND&lt;20</b>	<b>3.6</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>
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
	09/04/03	NS	NS	NS	NS	NS	NS	NS	NS
	11/17/03	ND<100	ND<20 (b)	0.86	ND<0.50	ND<0.50	ND<0.50	NA	NA
	03/01/04	ND<100 (a)	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	<b>06/02/04</b>	<b>ND&lt;100</b>	<b>ND&lt;20</b>	<b>4.3</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>2.2</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>

**Table 3**  
**Fuel Additives Analytical Data**  
Atlantic Richfield Company 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.



**Table 3**  
**Fuel Oxygenate Analytical Data**  
ARCO Service Station #5387  
20200 Hesperian Blvd  
Hayward, California

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**Note:**

All fuel additive compounds analyzed using EPA Method 8260B

**Abbreviations:**

- 1,2-DCA = 1,2-Dichloroethane
  - DIPE = Di-isopropyl ether
  - EDB = 1,2-Dibromoethane
  - ETBE = Ethyl tert butyl ether
  - µg/L = micrograms per liter
  - MTBE = Methyl tert-butyl ether
  - NA = Data not available, not analyzed, or not applicable
  - ND< = Less than laboratory reporting limit
  - NS = Not sampled
  - TAME = tert-Amyl methyl ether
  - TBA = tert-Butyl alcohol
  - (a) = The continuing calibration verification was outside of client contractual acceptance limits. 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 continuing calibration verification falling outside the acceptance criteria
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**ATTACHMENT A**  
**FIELD PROCEDURES AND FIELD DATA SHEETS**

## **FIELD PROCEDURES**

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### **Sampling Procedures**

The sampling procedure for each well consists Second 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 # 040602-IND Date 6/2/07 Client Area 538+

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 POC	
MW-1	2					10.20	28.55		P
MW-2	2					11.32	27.63		P
MW-3	2					9.25	27.59		
A-4	3					12.34	34.58		
A-5	3					11.70	29.54		
A-6	3					11.75	34.40		
A-7	3					13.08	34.97		P
A-8	2					9.83	33.45		
A-9	2					11.50	33.31		
A-10	2					12.61	33.50		
AR-1	6					10.40	33.71		NP
AR-2	6					11.38	35.08	↓	NP

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040602-MD#</u>	Station # <u>Arco 5387</u>
Sampler: <u>MD</u>	Date: <u>6/2/04</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u>   </u>
Total Well Depth: <u>28.55</u>	Depth to Water: <u>10.70</u>
Depth to Free Product: <u>   </u>	Thickness of Free Product (feet): <u>   </u>
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

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

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u>	<u>Disposable Bailer</u>
<u>(Positive Air Displacement)</u>	<u>Extraction Port</u>
<u>Electric Submersible</u>	Other: <u>   </u>
<u>Extraction Pump</u>	
Other: <u>   </u>	

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

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

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
<u>0856</u>	<u>67.4</u>	<u>7.2</u>	<u>983</u>	<u>3</u>	<u>cloudy, brown</u>
<u>0900</u>	<u>67.6</u>	<u>7.1</u>	<u>986</u>	<u>6</u>	<u>   </u>
<u>0905</u>	<u>67.9</u>	<u>7.0</u>	<u>986</u>	<u>9</u>	<u>cloudy, tan</u>

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: <u>9</u>
Sampling Time: <u>0915</u>	Sampling Date: <u>6/2/04</u>
Sample I.D.: <u>MW-1</u>	Laboratory: Pace <u>Sequon</u> Other <u>   </u>
Analyzed for: <u>(GRO) (TEX)</u> MTBE DRO	Other: <u>Oxys, EUB 1-2 Det, Ethanol</u>
D.O. (if req'd):	Pre-purge: <u>   </u> mg/L
	Post-purge: <u>0.4</u> mg/L
O.R.P. (if req'd):	Pre-purge: <u>   </u> mV
	Post-purge: <u>   </u> mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040602-MW1	Station # ARCO 5378 5387
Sampler: MD	Date: 6/2/04
Well I.D.: MW-2	Well Diameter: ② 3 4 6 8
Total Well Depth: 27.63	Depth to Water: 11.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method:  Bailor      Sampling Method:  Bailor

Disposable Bailor       Disposable Bailor  
 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.

2.6	x	3	=	7.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
0920	67.1	7.0	990	2.6	cloudy, Brown
0924	67.0	7.2	984	5.2	cloudy
0929	67.5	7.2	987	7.8	cloudy

Did well dewater? Yes  No  Gallons actually evacuated: 7.8

Sampling Time: 0940      Sampling Date: 6/2/04

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

Analyzed for:  GRO  BTEX  MTBE  DRO      Other:  XUS  1,2-DCA, EDB, Ethanol

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>090602-MD2</u>	Station # <u>ARCO 5387</u>
Sampler: <u>MD</u>	Date: <u>6/2/04</u>
Well I.D.: <u>A-7</u>	Well Diameter: 2 <u>(3)</u> 4 6 8 <u>   </u>
Total Well Depth: <u>34.97</u>	Depth to Water: <u>13.08</u>
Depth to Free Product: <u>   </u>	Thickness of Free Product (feet): <u>   </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSL</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       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>8.1</u>	x	<u>3</u>	=	<u>24.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
<u>0828</u>	<u>68.0</u>	<u>7.8</u>	<u>1061</u>	<u>8.5</u>	<u>orange, odor, turbid</u>
<u>0829</u>	<u>67.9</u>	<u>7.3</u>	<u>1052</u>	<u>17</u>	<u>   </u>
<u>0831</u>	<u>68.2</u>	<u>7.3</u>	<u>1053</u>	<u>24.5</u>	<u>orange, turbid, odor</u>

Did well dewater? Yes  No  Gallons actually evacuated: 24.5

Sampling Time: 0840 Sampling Date: 6/2/04

Sample I.D.: A-7 Laboratory: Pace Sequoia Other    

Analyzed for: GRO BTEX MTBE DRO Other: CX, YS, 1-2 DCA, EDB, Ethanol

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040602-MDI</u>	Station # <u>Arco 5387</u>
Sampler: <u>MD</u>	Date: <u>6/2/04</u>
Well I.D.: <u>AR-1</u>	Well Diameter: 2 3 4 <input checked="" type="radio"/> 8
Total Well Depth: <u>33.71</u>	Depth to Water: <u>10.46</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC Grade	D.O. Meter (if req'd): <input checked="" type="radio"/> YSI <input type="radio"/> 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: <input checked="" type="radio"/> Bailor <input type="radio"/> Disposable Bailor <input type="radio"/> Positive Air Displacement <input type="radio"/> Electric Submersible <input type="radio"/> Extraction Pump Other: _____	Sampling Method: <input checked="" type="radio"/> Bailor <input type="radio"/> Disposable Bailor <input type="radio"/> 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>0.163 / sample</u> 1 Case Volume (Gals.)	<u>N/D</u> Specified Volumes	=	_____ Gals. Calculated Volume
--	---------------------------------	---	----------------------------------

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
<u>0800</u>	<u>66.5</u>	<u>7.2</u>	<u>876</u>	—	<u>clear</u>

Did well dewater? Yes  No  Gallons actually evacuated: —

Sampling Time: 0800 Sampling Date: 6/2/04

Sample I.D.: AR-1 Laboratory: Pace  Sequoia Other \_\_\_\_\_

Analyzed for:  GRO  BTEX MTBE DRO Other: OXYIS 1-2 DCA, EDR, ETHANOL

D.O. (if req'd):	Pre-purge:	_____ mg/L	Post-purge:	<u>0.3</u> mg/L
	O.R.P. (if req'd):	Pre-purge:	_____ mV	Post-purge:



## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040602-MD2	Station # Arco 5387
Sampler: MD	Date: 6/2/04
Well I.D.: AR-2	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: 35.08	Depth to Water: 11.38
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: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
--	--

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

N/A	9 gal x sample	= _____ Gals.
1 Case Volume (Gals.)	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
0815	64.7	6.7	893	-	clear

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: -	
Sampling Time: 0815	Sampling Date: 6/2/04	
Sample I.D.: AR-2	Laboratory: Pace <u>Sequon</u> Other _____	
Analyzed for: <u>GRO</u> <u>BTEX</u> MTBE DRO	Other: <u>OXYS, 1,2-DCA, EDB, Ethanol</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>0.3</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV



# Chain of Custody Record

Project Name 5387 GWM  
 BP BU/GEM CO Portfolio Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company

On-site Time: <u>3:45</u>	Temp: <u>58</u>
Off-site Time: <u>1:00</u>	Temp: <u>70</u>
Sky Conditions: <u>clear</u>	
Meteorological Events:	
Wind Speed:	Direction:

Date: 6/2/04 Requested Due Date (mm/dd/yy) 14 day TAT

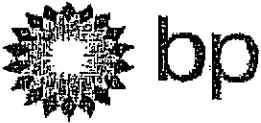
Client Name: <u>SEQUOIA</u>	BP/GEM Facility No.: <u>ARCO 5387</u>	Consultant/Contractor: <u>URS</u>
Client Address: <u>885 Jarvis Dr. Morgan Hill, CA 95037</u>	BP/GEM Facility Address: <u>20200 Hesperian Blvd, HAYWARD, CA</u>	Address: <u>1333 Broadway, Suite 800 Oakland, CA 94612</u>
Client Contact: <u>Lisa Race</u>	Site ID No.: <u>ARCO 5387</u>	e-mail EDD: <u>donna.casper@URSCorp.com</u>
Client Phone/Fax: <u>408-776-9600 / 408-782-6308</u>	Site Lat/Long:	Consultant/Contractor Project No.: <u>I5-00005387.01 00427</u>
Client Report Type & QC Level: <u>I Send EDF Reports</u>	California Global ID #:	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Client BP/GEM Account No.:	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
	Address: <u>P.O. Box 6549 Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
	Tele/Fax: <u>925-299-8891/925-299-8872</u>	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	GRO / BTEX (8015/8021) (8260)	DRO w/SOC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE, DIPE, TBA (8260)	1,2-DCA & EDB (8260)	
1	MW-1	0915		✓			1												
2	MW-2	0940		✓			1												
3	MW-7	0940		✓			1												
4	AR-1	0800		✓			1												
5	AR-2	0815		✓			1												
6	TB-5387-000264	0645		✓			1											on hold	
7																			
8																			
9																			
10																			

Sampler's Name: <u>John DeLong</u>	Relinquished By / Affiliation:	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>Blaine Tech Services</u>						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

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



# WELLHEAD INSPECTION CHECKLIST

## BP / GEM

Date 6/2/01

Site Address 20200 Hesperian Blvd., Hayward

Job Number 040602-MD1 Technician MD

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1		✓					Ⓟ	
MW-2							Ⓟ	
MW-3							Ⓟ	
A-4	✓							
A-5	✓							
A-6	✓							
A-7	✓							
A-8							Ⓟ	
A-9		✓					Ⓟ	
A-10	✓							
AR-1							Ⓟ	
AR-2							Ⓟ	

NOTES: Ⓟ repair order submitted

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**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 Atlantic Richfield Company have been reviewed and verified by that laboratory.



22 June, 2004

Scott Robinson  
URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland, CA 94612

RE: ARCO #5387, Hayward, CA  
Work Order: MNF0103

Enclosed are the results of analyses for samples received by the laboratory on 06/03/04 14:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race  
Senior Project Manager

CA ELAP Certificate #1210

URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland CA, 94612

Project: ARCO #5387, Hayward, CA  
Project Number: INTRIM-50591  
Project Manager: Scott Robinson

MNF0103  
**Reported:**  
06/22/04 19:01

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNF0103-01	Water	06/02/04 09:15	06/03/04 14:45
MW-2	MNF0103-02	Water	06/02/04 09:40	06/03/04 14:45
A-7	MNF0103-03	Water	06/02/04 08:40	06/03/04 14:45
AR-1	MNF0103-04	Water	06/02/04 08:00	06/03/04 14:45
AR-2	MNF0103-05	Water	06/02/04 08:15	06/03/04 14:45
TB-5387-060204	MNF0103-06	Water	06/02/04 06:45	06/03/04 14:45

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with no custody seals.

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: ARCO #5387, Hayward, CA  
 Project Number: INTRIM-50591  
 Project Manager: Scott Robinson

 MNF0103  
**Reported:**  
 06/22/04 19:01

**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 (MNF0103-01) Water**    **Sampled: 06/02/04 09:15**    **Received: 06/03/04 14:45**

Ethanol	ND	500	ug/l	5	4F14006	06/14/04	06/14/04	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>250</b>	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C12)</b>	<b>340</b>	250	"	"	"	"	"	"	

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

**MW-2 (MNF0103-02) Water**    **Sampled: 06/02/04 09:40**    **Received: 06/03/04 14:45**

Ethanol	ND	100	ug/l	1	4F14006	06/14/04	06/15/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>9.2</b>	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<b>tert-Amyl methyl ether</b>	<b>1.7</b>	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	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C12)</b>	<b>310</b>	50	"	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4*                      93.8 %                      78-129                      "                      "                      "                      "



URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: ARCO #5387, Hayward, CA  
 Project Number: INTRIM-50591  
 Project Manager: Scott Robinson

 MNF0103  
 Reported:  
 06/22/04 19:01

**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 (MNF0103-03) Water    Sampled: 06/02/04 08:40    Received: 06/03/04 14:45</b>									
Ethanol	ND	100	ug/l	1	4F16022	06/16/04	06/16/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>0.92</b>	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 (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87.2 %		78-129	"	"	"	"	

<b>AR-1 (MNF0103-04) Water    Sampled: 06/02/04 08:00    Received: 06/03/04 14:45</b>									
Ethanol	ND	100	ug/l	1	4F16022	06/16/04	06/16/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>3.6</b>	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 (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		78-129	"	"	"	"	

URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland CA, 94612

Project: ARCO #5387, Hayward, CA  
Project Number: INTRIM-50591  
Project Manager: Scott Robinson

MNF0103  
**Reported:**  
06/22/04 19:01

**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 (MNF0103-05) Water    Sampled: 06/02/04 08:15    Received: 06/03/04 14:45</b>									
Ethanol	ND	100	ug/l	1	4F16022	06/16/04	06/16/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>4.3</b>	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<b>tert-Amyl methyl ether</b>	<b>2.2</b>	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 (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		78-129	"	"	"	"	

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: ARCO #5387, Hayward, CA  
 Project Number: INTRIM-50591  
 Project Manager: Scott Robinson

 MNF0103  
**Reported:**  
 06/22/04 19:01

**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 4F14006 - EPA 5030B P/T**
**Blank (4F14006-BLK1)**

Prepared &amp; Analyzed: 06/14/04

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 (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.31		"	5.00		106	78-129			

**Laboratory Control Sample (4F14006-BS1)**

Prepared &amp; Analyzed: 06/14/04

Ethanol	161	100	ug/l	200		80.5	31-186			
tert-Butyl alcohol	45.3	20	"	50.0		90.6	0-206			
Methyl tert-butyl ether	7.88	0.50	"	10.0		78.8	63-137			
Di-isopropyl ether	8.95	0.50	"	10.0		89.5	76-130			
Ethyl tert-butyl ether	9.01	0.50	"	10.0		90.1	61-141			
tert-Amyl methyl ether	9.33	0.50	"	10.0		93.3	56-140			
1,2-Dichloroethane	8.72	0.50	"	10.0		87.2	77-136			
1,2-Dibromoethane (EDB)	9.40	0.50	"	10.0		94.0	77-132			
Benzene	8.51	0.50	"	10.0		85.1	78-124			
Toluene	10.1	0.50	"	10.0		101	78-129			
Ethylbenzene	9.48	0.50	"	10.0		94.8	84-117			
Xylenes (total)	28.7	0.50	"	30.0		95.7	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.63		"	5.00		92.6	78-129			

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
 Oakland CA, 94612

 Project: ARCO #5387, Hayward, CA  
 Project Number: INTRIM-50591  
 Project Manager: Scott Robinson

 MNF0103  
 Reported:  
 06/22/04 19:01

### 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 4F14006 - EPA 5030B P/T**
**Laboratory Control Sample (4F14006-BS2)**

Prepared &amp; Analyzed: 06/14/04

Methyl tert-butyl ether	7.56	0.50	ug/l	9.92		76.2	63-137			
Benzene	5.22	0.50	"	6.40		81.6	78-124			
Toluene	32.8	0.50	"	29.7		110	78-129			
Ethylbenzene	6.82	0.50	"	6.96		98.0	84-117			
Xylenes (total)	35.0	0.50	"	33.7		104	83-125			
Gasoline Range Organics (C4-C12)	419	50	"	440		95.2	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.71</i>		<i>"</i>	<i>5.00</i>		<i>94.2</i>	<i>78-129</i>			

**Laboratory Control Sample Dup (4F14006-BSD1)**

Prepared &amp; Analyzed: 06/14/04

Ethanol	197	100	ug/l	200		98.5	31-186	20.1	37	
tert-Butyl alcohol	48.9	20	"	50.0		97.8	0-206	7.64	22	
Methyl tert-butyl ether	9.92	0.50	"	10.0		99.2	63-137	22.9	13	QC21
Di-isopropyl ether	11.0	0.50	"	10.0		110	76-130	20.6	9	QC21
Ethyl tert-butyl ether	10.9	0.50	"	10.0		109	61-141	19.0	9	QC21
tert-Amyl methyl ether	11.2	0.50	"	10.0		112	56-140	18.2	12	QC21
1,2-Dichloroethane	10.8	0.50	"	10.0		108	77-136	21.3	13	QC21
1,2-Dibromoethane (EDB)	9.24	0.50	"	10.0		92.4	77-132	1.72	9	
Benzene	10.6	0.50	"	10.0		106	78-124	21.9	12	QC21
Toluene	10.9	0.50	"	10.0		109	78-129	7.62	10	
Ethylbenzene	9.68	0.50	"	10.0		96.8	84-117	2.09	10	
Xylenes (total)	30.6	0.50	"	30.0		102	83-125	6.41	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.78</i>		<i>"</i>	<i>5.00</i>		<i>95.6</i>	<i>78-129</i>			

**Laboratory Control Sample Dup (4F14006-BSD2)**

Prepared &amp; Analyzed: 06/14/04

Methyl tert-butyl ether	8.65	0.50	ug/l	9.92		87.2	63-137	13.4	20	
Benzene	5.42	0.50	"	6.40		84.7	69-124	3.76	20	
Toluene	36.0	0.50	"	29.7		121	78-129	9.30	20	
Ethylbenzene	7.56	0.50	"	6.96		109	84-132	10.3	20	
Xylenes (total)	36.9	0.50	"	33.7		109	83-137	5.29	20	
Gasoline Range Organics (C4-C12)	445	50	"	440		101	70-124	6.02	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.86</i>		<i>"</i>	<i>5.00</i>		<i>97.2</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.*

URS Corporation [Arco]  
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 Project Number: INTRIM-50591  
 Project Manager: Scott Robinson

 MNF0103  
 Reported:  
 06/22/04 19:01

### 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 4F14006 - EPA 5030B P/T**
**Matrix Spike (4F14006-MS1)**      **Source: MNF0102-02**      Prepared: 06/14/04 Analyzed: 06/15/04

Methyl tert-butyl ether	1100	50	ug/l	992	240	86.7	63-137			
Benzene	1230	50	"	640	680	85.9	78-124			
Toluene	3620	50	"	2970	46	120	78-129			
Ethylbenzene	1990	50	"	696	1300	99.1	84-117			
Xylenes (total)	7790	50	"	3370	3900	115	83-125			
Gasoline Range Organics (C4-C12)	67400	5000	"	44000	25000	96.4	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.67</i>		<i>"</i>	<i>5.00</i>		<i>93.4</i>	<i>78-129</i>			

**Matrix Spike Dup (4F14006-MSD1)**      **Source: MNF0102-02**      Prepared: 06/14/04 Analyzed: 06/15/04

Methyl tert-butyl ether	1150	50	ug/l	992	240	91.7	63-137	4.44	13	
Benzene	1300	50	"	640	680	96.9	78-124	5.53	12	
Toluene	3860	50	"	2970	46	128	78-129	6.42	10	
Ethylbenzene	2070	50	"	696	1300	111	84-117	3.94	10	
Xylenes (total)	8060	50	"	3370	3900	123	83-125	3.41	11	
Gasoline Range Organics (C4-C12)	71800	5000	"	44000	25000	106	70-124	6.32	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.83</i>		<i>"</i>	<i>5.00</i>		<i>96.6</i>	<i>78-129</i>			

**Batch 4F16022 - EPA 5030B P/T**
**Blank (4F16022-BLK1)**      Prepared & Analyzed: 06/16/04

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 (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.35</i>		<i>"</i>	<i>5.00</i>		<i>107</i>	<i>78-129</i>			

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 MNF0103  
 Reported:  
 06/22/04 19:01

### 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 4F16022 - EPA 5030B P/T**
**Laboratory Control Sample (4F16022-BS1)**

Prepared &amp; Analyzed: 06/16/04

Ethanol	202	100	ug/l	200	101	31-186				
tert-Butyl alcohol	46.4	20	"	50.0	92.8	0-206				
Methyl tert-butyl ether	11.7	0.50	"	10.0	117	63-137				
Di-isopropyl ether	10.4	0.50	"	10.0	104	76-130				
Ethyl tert-butyl ether	11.7	0.50	"	10.0	117	61-141				
tert-Amyl methyl ether	10.9	0.50	"	10.0	109	56-140				
1,2-Dichloroethane	10.4	0.50	"	10.0	104	77-136				
1,2-Dibromoethane (EDB)	10.9	0.50	"	10.0	109	77-132				
Benzene	10.4	0.50	"	10.0	104	78-124				
Toluene	11.2	0.50	"	10.0	112	78-129				
Ethylbenzene	11.1	0.50	"	10.0	111	84-117				
Xylenes (total)	29.2	0.50	"	30.0	97.3	83-125				

*Surrogate: 1,2-Dichloroethane-d4*

5.39 " 5.00 108 78-129

**Laboratory Control Sample (4F16022-BS2)**

Prepared &amp; Analyzed: 06/16/04

Gasoline Range Organics (C4-C12)	438	50	ug/l	440	99.5	70-124				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.63		"	5.00	113	78-129				

**Laboratory Control Sample Dup (4F16022-BSD1)**

Prepared &amp; Analyzed: 06/16/04

Ethanol	212	100	ug/l	200	106	31-186	4.83	37		
tert-Butyl alcohol	50.2	20	"	50.0	100	0-206	7.87	22		
Methyl tert-butyl ether	11.8	0.50	"	10.0	118	63-137	0.851	13		
Di-isopropyl ether	10.5	0.50	"	10.0	105	76-130	0.957	9		
Ethyl tert-butyl ether	11.4	0.50	"	10.0	114	61-141	2.60	9		
tert-Amyl methyl ether	11.2	0.50	"	10.0	112	56-140	2.71	12		
1,2-Dichloroethane	10.8	0.50	"	10.0	108	77-136	3.77	13		
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0	107	77-132	1.85	9		
Benzene	9.90	0.50	"	10.0	99.0	78-124	4.93	12		
Toluene	10.6	0.50	"	10.0	106	78-129	5.50	10		
Ethylbenzene	10.6	0.50	"	10.0	106	84-117	4.61	10		
Xylenes (total)	29.2	0.50	"	30.0	97.3	83-125	0.00	11		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.31		"	5.00	106	78-129				

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 Reported:  
 06/22/04 19:01

### 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 4F16022 - EPA 5030B P/T**
**Laboratory Control Sample Dup (4F16022-BSD2)**

Prepared &amp; Analyzed: 06/16/04

Gasoline Range Organics (C4-C12)	427	50	ug/l	440		97.0	70-124	2.54	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.31</i>		"	<i>5.00</i>		<i>86.2</i>	<i>78-129</i>			

**Matrix Spike (4F16022-MS1)**

Source: MNF0224-01

Prepared: 06/16/04 Analyzed: 06/17/04

Ethanol	1050	500	ug/l	1000	ND	105	31-186			
tert-Butyl alcohol	758	100	"	250	490	107	0-206			
Methyl tert-butyl ether	239	2.5	"	50.0	190	98.0	63-137			
Di-isopropyl ether	49.8	2.5	"	50.0	ND	99.6	76-130			
Ethyl tert-butyl ether	57.0	2.5	"	50.0	ND	114	61-141			
tert-Amyl methyl ether	52.5	2.5	"	50.0	0.55	104	56-140			
1,2-Dichloroethane	52.8	2.5	"	50.0	ND	106	77-126			
1,2-Dibromoethane (EDB)	54.0	2.5	"	50.0	ND	108	77-132			
Benzene	50.8	2.5	"	50.0	3.4	94.8	78-124			
Toluene	50.2	2.5	"	50.0	0.80	98.8	78-129			
Ethylbenzene	50.0	2.5	"	50.0	1.0	98.0	84-117			
Xylenes (total)	151	2.5	"	150	9.2	94.5	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.47</i>		"	<i>5.00</i>		<i>109</i>	<i>78-129</i>			

**Matrix Spike Dup (4F16022-MSD1)**

Source: MNF0224-01

Prepared: 06/16/04 Analyzed: 06/17/04

Ethanol	1210	500	ug/l	1000	ND	121	31-186	14.2	37	
tert-Butyl alcohol	777	100	"	250	490	115	0-206	2.48	22	
Methyl tert-butyl ether	244	2.5	"	50.0	190	108	63-137	2.07	13	
Di-isopropyl ether	50.4	2.5	"	50.0	ND	101	76-130	1.20	9	
Ethyl tert-butyl ether	58.0	2.5	"	50.0	ND	116	61-141	1.74	9	
tert-Amyl methyl ether	55.3	2.5	"	50.0	0.55	110	56-140	5.19	12	
1,2-Dichloroethane	54.8	2.5	"	50.0	ND	110	77-126	3.72	13	
1,2-Dibromoethane (EDB)	56.8	2.5	"	50.0	ND	114	77-132	5.05	9	
Benzene	50.4	2.5	"	50.0	3.4	94.0	78-124	0.791	12	
Toluene	52.6	2.5	"	50.0	0.80	104	78-129	4.67	10	
Ethylbenzene	49.0	2.5	"	50.0	1.0	96.0	84-117	2.02	10	
Xylenes (total)	143	2.5	"	150	9.2	89.2	83-125	5.44	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.41</i>		"	<i>5.00</i>		<i>108</i>	<i>78-129</i>			

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**Reported:**  
06/22/04 19:01

### Notes and Definitions

QC21 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference





# Chain of Custody Record

MNFO103

Project Name 5381 GWM  
 BP BU/GEM CO Portfolio Retail  
 BP Laboratory Contract Number: Atlantic Richfield Company  
 Requested Due Date (mm/dd/yy) 14 day TAT

Date: 6/2/04

On-site Time: 5:00 Temp: 58  
 Off-site Time: 1000 Temp: 70  
 Sky Conditions: clear  
 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>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 5387</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.cosper@URSCorp.com</u>
	California Global ID #:	Consultant/Contractor Project No.: <u>J5-00005387.01 00427</u>
Lab PM <u>Lisa Race</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
BP/GEM Account No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	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	GRO / BTEX (8015/8021/8060)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE (8260)	DPE, TBA (8260)	1,2-DCA & EOB (8260)		Ethanol (8260)		
1	MW-1	0915		✓			01	3						✓									
2	MW-2	0940		✓			02	3						✓									
3	A-7 MW T <sub>2</sub> 06	0840		✓			03	3						✓									
4	AR-1	0800		✓			04	3						✓									
5	AR-2	0815		✓			05	3						✓									
6	TB-5381-060204	0645		✓			06	2						✓									on hold
7																							
8																							
9																							
10																							

Sampler's Name: <u>John Dalong</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>6/2/04</u>	Time: <u>11:58</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>6/2/04</u>	Time: <u>11:58</u>
Sampler's Company: <u>Blair Tech Services</u>						
Event Date: <u>6/2/04</u>						
Event Method:						
Tracking No:						

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

Place Yes  No     
  Temperature Blank Yes  No     
  Cooler Temperature on Receipt  R/C     
  Trip Blank Yes  No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS  
 REC. BY (PRINT) Andrew Taffe  
 WORKORDER: MNF0103

DATE REC'D AT LAB: 6/3/04  
 TIME REC'D AT LAB: 14:45  
 DATE LOGGED IN: 6-4-04

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / <input checked="" type="checkbox"/> Absent Intact / Broken*	01		MW-1	(3) VOA	HCL	Liquid	6/2/04	Lot # 4128030
2. Chain-of-Custody	<input checked="" type="checkbox"/> Present / Absent*	02		MW-2	Sample/lot	SAB			
3. Traffic Reports or Packing List:	Present / <input checked="" type="checkbox"/> Absent	03		A-7					
4. Airbill:	Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent	04		AR-1					
5. Airbill #:		05		AR-2					
6. Sample Labels:	<input checked="" type="checkbox"/> Present / Absent	06		TB-5387-060204	(2) VOA				
7. Sample IDs:	<input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody								
8. Sample Condition:	<input checked="" type="checkbox"/> Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	<input checked="" type="checkbox"/> Yes / No*								
10. Sample received within hold time:	<input checked="" type="checkbox"/> Yes / No*								
11. Adequate sample volume received?	<input checked="" type="checkbox"/> Yes / No*								
12. Proper Preservatives used:	<input checked="" type="checkbox"/> Yes / No*								
13. Temp Rec. at Lab: Is temp 4 +/- 2°C?	<u>6°C</u> <input checked="" type="checkbox"/> Yes / 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

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### UPLOADING A GEO\_WELL FILE

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

**Submittal Title:** QMR Geowell Q2 2004 Site  
5387

**Submittal Date/Time:** 6/9/2004 4:44:42 PM

**Confirmation  
Number:** 3475834488

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(CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#)

## **AB2886 Electronic Delivery**

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**Your EDF file has been successfully uploaded!**

**Confirmation Number:** 4751054286

**Date/Time of Submittal:** 6/25/2004 5:17:30 PM

**Facility Global ID:** T0600101368

**Facility Name:** ARCO

**Submittal Title:** QMR Q2 2004 Site 5387

**Submittal Type:** GW Monitoring Report

Logged in as URSCORP-OAKLAND  
(CONTRACTOR)

[CONTACT SITE ADMINISTRATOR.](#)

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## Error Summary Log

06/26/04

EDF 1.2i All files present in deliverable.

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Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #5387, Hayward, CA
Work Order Number:	MNF0103
Global ID:	T0600101368
Lab Report Number:	MNF0103062220041901

## Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotcl	Run	Sub
MNF01030622200 A-7 41901		MNF010303	W	CS	8260FA	SW5030B	06/02/04	06/16/04	06/16/04	4F16022	1	
MNF01030622200 AR-1 41901		MNF010304	W	CS	8260FA	SW5030B	06/02/04	06/16/04	06/16/04	4F16022	1	
MNF01030622200 AR-2 41901		MNF010305	W	CS	8260FA	SW5030B	06/02/04	06/16/04	06/16/04	4F16022	1	
MNF01030622200 MW-1 41901		MNF010301	W	CS	8260FA	SW5030B	06/02/04	06/14/04	06/14/04	4F14006	1	
MNF01030622200 MW-2 41901		MNF010302	W	CS	8260FA	SW5030B	06/02/04	06/14/04	06/15/04	4F14006	1	
		MNF010202	W	NC	8260FA	SW5030B	//	06/14/04	06/15/04	4F14006	1	
		MNF022401	W	NC	8260FA	SW5030B	//	06/16/04	06/17/04	4F16022	1	
		4F14006BSD1	WQ	BD1	8260FA	SW5030B	//	06/14/04	06/14/04	4F14006	1	
		4F14006BSD2	WQ	BD2	8260FA	SW5030B	//	06/14/04	06/14/04	4F14006	1	
		4F14006BS1	WQ	BS1	8260FA	SW5030B	//	06/14/04	06/14/04	4F14006	1	
		4F14006BS2	WQ	BS2	8260FA	SW5030B	//	06/14/04	06/14/04	4F14006	1	
		4F14006BLK1	WQ	LB1	8260FA	SW5030B	//	06/14/04	06/14/04	4F14006	1	
		4F14006MS1	W	MS1	8260FA	SW5030B	//	06/14/04	06/15/04	4F14006	1	
		4F14006MSD1	W	SD1	8260FA	SW5030B	//	06/14/04	06/15/04	4F14006	1	
		4F16022BSD1	WQ	BD1	8260FA	SW5030B	//	06/16/04	06/16/04	4F16022	1	
		4F16022BSD2	WQ	BD2	8260FA	SW5030B	//	06/16/04	06/16/04	4F16022	1	
		4F16022BS1	WQ	BS1	8260FA	SW5030B	//	06/16/04	06/16/04	4F16022	1	
		4F16022BS2	WQ	BS2	8260FA	SW5030B	//	06/16/04	06/16/04	4F16022	1	
		4F16022BLK1	WQ	LB1	8260FA	SW5030B	//	06/16/04	06/16/04	4F16022	1	
		4F16022MS1	W	MS1	8260FA	SW5030B	//	06/16/04	06/17/04	4F16022	1	
		4F16022MSD1	W	SD1	8260FA	SW5030B	//	06/16/04	06/17/04	4F16022	1	

# EDFSAMP: Error Summary Log

06/26/04

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



# EDFTEST: Error Summary Log

06/26/04

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

# EDFRES: Error Summary Log

06/26/04

Error type	Labsampid	Qcocode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4F14006MS1	MS1	W	8260FA	PR	06/15/04	1	BZ
Warning: extra parameter	4F14006MS1	MS1	W	8260FA	PR	06/15/04	1	BZME
Warning: extra parameter	4F14006MS1	MS1	W	8260FA	PR	06/15/04	1	DCA12D4
Warning: extra parameter	4F14006MS1	MS1	W	8260FA	PR	06/15/04	1	EBZ
Warning: extra parameter	4F14006MS1	MS1	W	8260FA	PR	06/15/04	1	GROC4C12
Warning: extra parameter	4F14006MS1	MS1	W	8260FA	PR	06/15/04	1	XYLENES
Warning: extra parameter	4F14006MSD1	SD1	W	8260FA	PR	06/15/04	1	BZ
Warning: extra parameter	4F14006MSD1	SD1	W	8260FA	PR	06/15/04	1	BZME
Warning: extra parameter	4F14006MSD1	SD1	W	8260FA	PR	06/15/04	1	DCA12D4
Warning: extra parameter	4F14006MSD1	SD1	W	8260FA	PR	06/15/04	1	EBZ
Warning: extra parameter	4F14006MSD1	SD1	W	8260FA	PR	06/15/04	1	GROC4C12
Warning: extra parameter	4F14006MSD1	SD1	W	8260FA	PR	06/15/04	1	XYLENES
Warning: extra parameter	4F16022MS1	MS1	W	8260FA	PR	06/17/04	1	BZ
Warning: extra parameter	4F16022MS1	MS1	W	8260FA	PR	06/17/04	1	BZME
Warning: extra parameter	4F16022MS1	MS1	W	8260FA	PR	06/17/04	1	DCA12D4
Warning: extra parameter	4F16022MS1	MS1	W	8260FA	PR	06/17/04	1	EBZ
Warning: extra parameter	4F16022MS1	MS1	W	8260FA	PR	06/17/04	1	XYLENES
Warning: extra parameter	4F16022MSD1	SD1	W	8260FA	PR	06/17/04	1	BZ
Warning: extra parameter	4F16022MSD1	SD1	W	8260FA	PR	06/17/04	1	BZME
Warning: extra parameter	4F16022MSD1	SD1	W	8260FA	PR	06/17/04	1	DCA12D4
Warning: extra parameter	4F16022MSD1	SD1	W	8260FA	PR	06/17/04	1	EBZ
Warning: extra parameter	4F16022MSD1	SD1	W	8260FA	PR	06/17/04	1	XYLENES
Warning: extra parameter	MNF010202	NC	W	8260FA	PR	06/15/04	1	BZ
Warning: extra parameter	MNF010202	NC	W	8260FA	PR	06/15/04	1	BZME
Warning: extra parameter	MNF010202	NC	W	8260FA	PR	06/15/04	1	DCA12D4

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MNF010202	NC	W	8260FA	PR	06/15/04	1	EBZ
Warning: extra parameter	MNF010202	NC	W	8260FA	PR	06/15/04	1	GROC4C12
Warning: extra parameter	MNF010202	NC	W	8260FA	PR	06/15/04	1	XYLENES
Warning: extra parameter	MNF010301	CS	W	8260FA	PR	06/14/04	1	BZ
Warning: extra parameter	MNF010301	CS	W	8260FA	PR	06/14/04	1	BZME
Warning: extra parameter	MNF010301	CS	W	8260FA	PR	06/14/04	1	DCA12D4
Warning: extra parameter	MNF010301	CS	W	8260FA	PR	06/14/04	1	EBZ
Warning: extra parameter	MNF010301	CS	W	8260FA	PR	06/14/04	1	GROC4C12
Warning: extra parameter	MNF010301	CS	W	8260FA	PR	06/14/04	1	XYLENES
Warning: extra parameter	MNF010302	CS	W	8260FA	PR	06/15/04	1	BZ
Warning: extra parameter	MNF010302	CS	W	8260FA	PR	06/15/04	1	BZME
Warning: extra parameter	MNF010302	CS	W	8260FA	PR	06/15/04	1	DCA12D4
Warning: extra parameter	MNF010302	CS	W	8260FA	PR	06/15/04	1	EBZ
Warning: extra parameter	MNF010302	CS	W	8260FA	PR	06/15/04	1	GROC4C12
Warning: extra parameter	MNF010302	CS	W	8260FA	PR	06/15/04	1	XYLENES
Warning: extra parameter	MNF010303	CS	W	8260FA	PR	06/16/04	1	BZ
Warning: extra parameter	MNF010303	CS	W	8260FA	PR	06/16/04	1	BZME
Warning: extra parameter	MNF010303	CS	W	8260FA	PR	06/16/04	1	DCA12D4
Warning: extra parameter	MNF010303	CS	W	8260FA	PR	06/16/04	1	EBZ
Warning: extra parameter	MNF010303	CS	W	8260FA	PR	06/16/04	1	GROC4C12
Warning: extra parameter	MNF010303	CS	W	8260FA	PR	06/16/04	1	XYLENES
Warning: extra parameter	MNF010304	CS	W	8260FA	PR	06/16/04	1	BZ
Warning: extra parameter	MNF010304	CS	W	8260FA	PR	06/16/04	1	BZME
Warning: extra parameter	MNF010304	CS	W	8260FA	PR	06/16/04	1	DCA12D4
Warning: extra parameter	MNF010304	CS	W	8260FA	PR	06/16/04	1	EBZ
Warning: extra parameter	MNF010304	CS	W	8260FA	PR	06/16/04	1	GROC4C12
Warning: extra parameter	MNF010304	CS	W	8260FA	PR	06/16/04	1	XYLENES
Warning: extra parameter	MNF010305	CS	W	8260FA	PR	06/16/04	1	BZ
Warning: extra parameter	MNF010305	CS	W	8260FA	PR	06/16/04	1	BZME

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MNF010305	CS	W	8260FA	PR	06/16/04	1	DCA12D4
Warning: extra parameter	MNF010305	CS	W	8260FA	PR	06/16/04	1	EBZ
Warning: extra parameter	MNF010305	CS	W	8260FA	PR	06/16/04	1	GROC4C12
Warning: extra parameter	MNF010305	CS	W	8260FA	PR	06/16/04	1	XYLENES
Warning: extra parameter	MNF022401	NC	W	8260FA	PR	06/17/04	1	BZ
Warning: extra parameter	MNF022401	NC	W	8260FA	PR	06/17/04	1	BZME
Warning: extra parameter	MNF022401	NC	W	8260FA	PR	06/17/04	1	DCA12D4
Warning: extra parameter	MNF022401	NC	W	8260FA	PR	06/17/04	1	EBZ
Warning: extra parameter	MNF022401	NC	W	8260FA	PR	06/17/04	1	XYLENES
Warning: extra parameter	4F14006BLK1	LB1	WQ	8260FA	PR	06/14/04	1	BZ
Warning: extra parameter	4F14006BLK1	LB1	WQ	8260FA	PR	06/14/04	1	BZME
Warning: extra parameter	4F14006BLK1	LB1	WQ	8260FA	PR	06/14/04	1	DCA12D4
Warning: extra parameter	4F14006BLK1	LB1	WQ	8260FA	PR	06/14/04	1	EBZ
Warning: extra parameter	4F14006BLK1	LB1	WQ	8260FA	PR	06/14/04	1	GROC4C12
Warning: extra parameter	4F14006BLK1	LB1	WQ	8260FA	PR	06/14/04	1	XYLENES
Warning: extra parameter	4F14006BS1	BS1	WQ	8260FA	PR	06/14/04	1	BZ
Warning: extra parameter	4F14006BS1	BS1	WQ	8260FA	PR	06/14/04	1	BZME
Warning: extra parameter	4F14006BS1	BS1	WQ	8260FA	PR	06/14/04	1	DCA12D4
Warning: extra parameter	4F14006BS1	BS1	WQ	8260FA	PR	06/14/04	1	EBZ
Warning: extra parameter	4F14006BS1	BS1	WQ	8260FA	PR	06/14/04	1	XYLENES
Warning: extra parameter	4F14006BS2	BS2	WQ	8260FA	PR	06/14/04	1	BZ
Warning: extra parameter	4F14006BS2	BS2	WQ	8260FA	PR	06/14/04	1	BZME
Warning: extra parameter	4F14006BS2	BS2	WQ	8260FA	PR	06/14/04	1	DCA12D4
Warning: extra parameter	4F14006BS2	BS2	WQ	8260FA	PR	06/14/04	1	EBZ
Warning: extra parameter	4F14006BS2	BS2	WQ	8260FA	PR	06/14/04	1	GROC4C12
Warning: extra parameter	4F14006BS2	BS2	WQ	8260FA	PR	06/14/04	1	XYLENES
Warning: extra parameter	4F14006BSD1	BD1	WQ	8260FA	PR	06/14/04	1	BZ
Warning: extra parameter	4F14006BSD1	BD1	WQ	8260FA	PR	06/14/04	1	BZME
Warning: extra parameter	4F14006BSD1	BD1	WQ	8260FA	PR	06/14/04	1	DCA12D4

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4F14006BSD1	BD1	WQ	8260FA	PR	06/14/04	1	EBZ
Warning: extra parameter	4F14006BSD1	BD1	WQ	8260FA	PR	06/14/04	1	XYLENES
Warning: extra parameter	4F14006BSD2	BD2	WQ	8260FA	PR	06/14/04	1	BZ
Warning: extra parameter	4F14006BSD2	BD2	WQ	8260FA	PR	06/14/04	1	BZME
Warning: extra parameter	4F14006BSD2	BD2	WQ	8260FA	PR	06/14/04	1	DCA12D4
Warning: extra parameter	4F14006BSD2	BD2	WQ	8260FA	PR	06/14/04	1	EBZ
Warning: extra parameter	4F14006BSD2	BD2	WQ	8260FA	PR	06/14/04	1	GROC4C12
Warning: extra parameter	4F14006BSD2	BD2	WQ	8260FA	PR	06/14/04	1	XYLENES
Warning: extra parameter	4F16022BLK1	LB1	WQ	8260FA	PR	06/16/04	1	BZ
Warning: extra parameter	4F16022BLK1	LB1	WQ	8260FA	PR	06/16/04	1	BZME
Warning: extra parameter	4F16022BLK1	LB1	WQ	8260FA	PR	06/16/04	1	DCA12D4
Warning: extra parameter	4F16022BLK1	LB1	WQ	8260FA	PR	06/16/04	1	EBZ
Warning: extra parameter	4F16022BLK1	LB1	WQ	8260FA	PR	06/16/04	1	GROC4C12
Warning: extra parameter	4F16022BLK1	LB1	WQ	8260FA	PR	06/16/04	1	XYLENES
Warning: extra parameter	4F16022BS1	BS1	WQ	8260FA	PR	06/16/04	1	BZ
Warning: extra parameter	4F16022BS1	BS1	WQ	8260FA	PR	06/16/04	1	BZME
Warning: extra parameter	4F16022BS1	BS1	WQ	8260FA	PR	06/16/04	1	DCA12D4
Warning: extra parameter	4F16022BS1	BS1	WQ	8260FA	PR	06/16/04	1	EBZ
Warning: extra parameter	4F16022BS1	BS1	WQ	8260FA	PR	06/16/04	1	XYLENES
Warning: extra parameter	4F16022BS2	BS2	WQ	8260FA	PR	06/16/04	1	DCA12D4
Warning: extra parameter	4F16022BS2	BS2	WQ	8260FA	PR	06/16/04	1	GROC4C12
Warning: extra parameter	4F16022BSD1	BD1	WQ	8260FA	PR	06/16/04	1	BZ
Warning: extra parameter	4F16022BSD1	BD1	WQ	8260FA	PR	06/16/04	1	BZME
Warning: extra parameter	4F16022BSD1	BD1	WQ	8260FA	PR	06/16/04	1	DCA12D4
Warning: extra parameter	4F16022BSD1	BD1	WQ	8260FA	PR	06/16/04	1	EBZ
Warning: extra parameter	4F16022BSD1	BD1	WQ	8260FA	PR	06/16/04	1	XYLENES
Warning: extra parameter	4F16022BSD2	BD2	WQ	8260FA	PR	06/16/04	1	DCA12D4
Warning: extra parameter	4F16022BSD2	BD2	WQ	8260FA	PR	06/16/04	1	GROC4C12

# EDFQC: Error Summary Log

06/26/04

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

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## EDFCL: Error Summary Log

06/26/04

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

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



REPAIR DATA SHEET

Client ARCO/BP # 5387 Date 4-8-04

Site Address 20200 HESPERIAN

Job Number 040408 - MGI Technician MORGAN G.

Repair Location A-5

Deficiencies Corrected CRACKED LID, 1 of 2  
TABS BROKEN, REPLACED WITH  
NEW WELLBOX + 5 BAGS OF CONCRETE.

Materials Used 1 WELLBOX 5 BAGS OF CONCRETE

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 \_\_\_\_\_