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April 7, 2005

Ms. Arghavan Rashidi-Fard
Orange County Health Care Agency
Environmental Health Division
1241 East Dyer Road, Suite 120
Santa Ana, California 92705

Sent via UPS

Subject: Work Plan for Verification Soil Sampling
ARCO Facility No. 6131
3201 Harbor Boulevard
Costa Mesa, California
OCHCA Case No. 92UT12

Dear Ms. Rashidi-Fard:

On behalf of Atlantic Richfield Company (ARCO), Delta Environmental Consultants, Inc. (Delta) has prepared this *Work Plan for Additional Site Investigation* at ARCO Facility No. 6131 (the Site), located at 3201 Harbor Boulevard in the City of Costa Mesa, California (Figure 1). This work plan was prepared in response to a request by the Orange County Health Care Agency (OCHCA) in a letter, dated January 11, 2005, to Atlantic Richfield Company (Attachment A). This work plan proposes to advance three borings in the vicinity former fuel tanks and waste oil tank (Figure 2). This work plan includes a summary of previous site assessment and remediation activities, presents existing site conditions with respect to petroleum hydrocarbon-impacted soil and groundwater, and includes details regarding the proposed additional work at the Site.

SITE DESCRIPTION

The Site is located at 3201 Harbor Boulevard, in the City of Costa Mesa, Orange County, California (Figure 1). The property is an active ARCO retail gasoline service station. Activities at the property include the storage of unleaded gasoline in four USTs and retail gasoline dispensing at three dispenser islands. A site map showing the locations of existing USTs and fuel dispensers is included as Figure 2.

SITE HISTORY

Petroleum hydrocarbon-impacted soil was discovered at the Site in several investigations conducted by EA Engineering, Science, and Technology, Inc. (EA). EA conducted a preliminary tank replacement environmental assessment in January 1991, a tank removal investigation in January 1992, and a soil vapor contaminant assessment in August 1992 (Delta, 1993).

Under EA supervision, four 6,000-gallon steel USTs and one 550-gallon steel waste oil tank were removed by R.D. Builders on January 28, 1992 (EA, 1992).

On April 16, 1992, the removal of the bottom of the inlet portion of the oil/water separator and separator demolition was conducted under the direction of Delta.

On March 15 and 16, 1993, Delta installed two 4-inch diameter vadose wells, VW-1 and VW-2, two 4-inch diameter groundwater monitoring wells, B-4 and B-5; and a dual purpose vapor extraction/groundwater monitoring well B-6.

In September 1992, EA installed three groundwater monitoring wells (EA-1 through EA-3) at the Site to depths of approximately 40 feet below grade. Historical groundwater gauging data and analytical results are presented as Tables 1 and 2.

On December 21, 1993, two groundwater monitoring wells (B-10 and B-11) were installed at the Site under the direction of Delta.

On July 7, 1994, Delta conducted a groundwater recovery test. Three recovery tests were performed in two of the wells on site, EA-1 and EA-2; one test in EA-1 and two tests in EA-2 (Delta, 1994).

In September 1994, Delta supervised the installation of two air sparge/soil vapor extraction (AS/SVE) wells, SV-1 and SV-2.

On May 1996, Delta supervised the installation of two groundwater monitoring wells, B-8 and B-9.

On November 1996, two AS wells (AS-1 and AS-2) and five AS/SVE wells (SV-3 through SV-5) were installed at the Site under the direction of Delta. Analytical results from soil samples are present in Table 1.

GEOLOGY AND PHYSIOGRAPHY

The Site is located in the City of Costa Mesa, Orange County, California, within the Peninsular Ranges geomorphic province. More specifically, the Site is located in the Newport Mesa southwest of the Tustin Plain (Herndon, 1992). The site elevation is approximately 30 feet above mean sea level (msl). Site topography is relatively flat. Local topography slopes gently to the northeast toward the Greenville-Banning drainage channel, which flows into the Santa Ana River approximately 1 mile west of the Site (USGS, 1965).

Soil beneath the Site consists of undifferentiated alluvium and marine terrace deposits of Quaternary age (Morton and Miller, 1981). Soil encountered during investigations at the Site consists predominantly of silty and sandy clay from the ground surface to an approximate depth of 15 feet below ground surface (bgs), underlain by poor- to well-sorted sand from 15 to 30 feet bgs. Soil consists of layers of sandy clay and silty sand from approximately 25 to 45 feet bgs (total depth investigated).

HYDROGEOLOGY

The Site is located within the Santa Ana Pressure Sub-basin of the Lower Santa Ana River Groundwater Basin, which is located within the Orange County Coastal Plain (SWRCB, 1989). According to the United States Geological Water Supply Paper No. 1109, the principal water bearing zone of the Newport Mesa is comprised of sand and gravel within the San Pedro formation. Piezometric levels of principal basin aquifers in the site vicinity are approximately 60 feet below msl or approximately 90 feet bgs (Herndon, 1992).

There are three production wells located within 0.5 mile of the Site (OCWD, 1999). Two of the wells (MCWD-7 and MCWD-8) are municipal production wells. The remaining well (HMEM-COS) is an agricultural/irrigation production well. Well HMEM-COS is located approximately 1,700 feet southwest of the Site and has a depth to water of approximately 88 feet bgs. The screened interval of the well is unknown. Well MCWD-7 is located approximately 2,500 feet northwest of the Site and has a depth to water of approximately 128 feet bgs. The well is screened from 363 to 753 feet bgs. Well MCWD-8 is located approximately 2,700 feet northeast of the Site and has a depth to water of approximately 140 feet bgs. Well MCWD-8 is screened from 300 to 572 feet bgs. Depth to groundwater measurements collected at the Site on November 19, 2004, ranged from 24.61 to 28.30 feet bgs. Groundwater flow during the fourth quarter 2004 was to the southwest at approximately 0.006 feet per foot (Delta, 2004). Historic groundwater elevation data and analytical data are presented in Tables 2 and 3, respectively.

REMEDIAL SUMMARY

Construction of the air sparge/soil vapor extraction (AS/SVE) system (AQMD Permit No. F25888) was completed in July 1998 and was started by Delta Environmental Consultants, Inc. (Delta) on August 13, 1998. Eight vapor extraction wells (SV-3, SV-4, SV-5, SV-6, SV-7, VW-1, VW-2 and B-6) are connected to the SVE system. A total of approximately 5,834 pounds of vapor-phase petroleum hydrocarbons have been removed from the subsurface since the system was started on August 13, 1998. Approximately 334 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during the fourth quarter 2000 utilizing a mobile high-vacuum, dual-phase extraction system.

PROPOSED SCOPE OF WORK

In order to evaluate the concentrations of hydrocarbon source material remaining in the soil beneath the Site, Delta proposes to advance three soil borings to a depth of 25 feet bgs at the location shown in Figure 2. Advancement of the proposed borings will be conducted utilizing the following proposed scope of work:

Task 1: Project Initiation

- Prepare a site-specific Health and Safety Plan. A copy of the Health and Safety Plan will be on-site during all Delta-monitored field events.

- Mark the proposed boring locations shown on Figure 2, and notify Underground Service Alert, OCHCA, and Atlantic Richfield Company of the scheduled field activities.

- Schedule underground utility locator for underground utilities locations clearance.

- Schedule drilling equipment and personnel to perform the drilling.

Task 2: Field Activities

- Three Geoprobe® borings will be advanced using a Geoprobe® drill rig to the approximate vertical depth of 25 feet bgs at the location shown on Figure 2. The initial 5 feet of the boring will be advanced using air knife technology to reduce the possibility of damaging underground utilities.

- Soil samples for chemical analyses will be collected at five feet and at 5-foot intervals afterwards to the total depth of each boring. The samples will be collected using three 2.5- by 6-inch precleaned brass sleeves contained within a modified California-type, split-spoon sampler. Prior to initiating the sampling and between each sampling event, all sampling equipment will be washed with a phosphate-free detergent and water solution and double rinsed with deionized water. The ends of the bottom-most, intact sleeve from each sample interval will be lined with Teflon™ sheets, capped, and sealed. Each

sample will then be labeled, placed in a resealable plastic bag, and stored in an ice-chilled cooler. The samples will remain chilled until relinquished to a California Department of Health Services (CADHS)-certified analytical laboratory. Strict chain-of-custody procedures will be followed from the time the samples are collected until the time the samples are relinquished to the laboratory. Soil will also be screened in the field for volatile organic compounds using a PID. Delta will record PID readings, soil types, and other pertinent geologic data on the boring log.

- Soil samples will be submitted to a California Department of Health Services (CADHS)-certified laboratory, for analysis. All samples collected will be analyzed for TPHg according to EPA Method 8015M and for benzene, toluene, ethylbenzene, total xylenes (BTEX, collectively), MTBE, di-isoproyl ether (DIPE), ethyl tert butyl ether (ETBE), tert-amyl methyl ether (TAME), tert butyl alcohol (TBA), and ethanol according to EPA Method 8260B.

- Soil and wastewater generated during these activities will be contained in Department of Transportation-approved, 55 gallons drums. The drums will be labeled and stored on site pending disposal.

Task 3: Chemical Analysis

- All samples collected as part of this investigation will be submitted to Del Mar Analytical, an Atlantic Richfield Company contracted and CADHS-certified laboratory for chemical analysis. Strict chain-of-custody procedures will be followed from the time the samples are collected until the time they are relinquished to the laboratory.

- Soil samples will be analyzed for TPHg according to EPA Method 8015M and for VOCs and fuel oxygenates according to EPA Method 8260B.

Task 4: Report Preparation

Prepare a summary report of field activities and analytical results for submittal to OCHCA.

SCHEDULE

The proposed fieldwork will be initiated and completed within 60 days upon receipt of an approval letter from OCHCA. Results of the fieldwork will be reported 45 days following completion of the fieldwork.

REMARKS AND SIGNATURES

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are determined in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

If you have questions or comments regarding this work plan, please contact Steve Pence at (949) 860-0204.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Steve P. Pence
Project Manager

4/7/05
Date

Dean A. Richesin
California Registered Geologist No. 3587
Certified Engineering Geologist No. 1055

4/7/05
Date

REGISTERED GEOLOGIST
DEAN A. RICHESIN
No. 1055
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

Attachments:	Figure 1	Site Location Map
	Figure 2	Site Map with Boring Locations
	Figure 3	Groundwater Contour Elevation Map
	Table 1	Historical Soil Analytical Results
	Table 2	Historical Groundwater Gauging Data
	Table 3	Historical Groundwater Analytical Results

cc: Mr. Darrell Fah, Atlantic Richfield Company, La Palma, California
Ms. Valerie Jahn-Bull, CRWQCB-Santa Ana Region, Riverside, California

REFERENCES

California Department of Conservation, Division of Mines and Geology (CDMG), 1991, Geologic Map of the Santa Ana 1:100,000 Quadrangle, California: DMG Open-File Report 91-17, DMG, Sacramento, California.

Delta Environmental Consultants, Inc. (Delta), 1997a, Confirmation Boring and Groundwater Sampling Report, ARCO Facility No. 5139, Anaheim, CA, report dated April 15, 1997.

Delta Environmental Consultants, Inc. (Delta), 1997b, Groundwater Well Installation Report, ARCO Facility No. 5139, Anaheim, CA, report dated September 25, 1997.

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Delta Environmental Consultants, Inc. (Delta), 2004, ARCO Quarterly Groundwater Monitoring Report, Third Quarter 2004, ARCO Facility No. 5139, Anaheim, CA, dated October 30, 2004.

Delta Environmental Consultants, Inc. (Delta), 2004, Additional Assessment and Soil Vapor Extraction Test Report, ARCO Facility No. 5139, Anaheim, CA, dated December 2, 2004.

Herndon, Roy, 1992, "Hydrogeology of Orange County Ground Water Basin - An Overview", The Regressive Pleistocene Shoreline, Coastal Southern California, 1992: Annual Field Trip Guide Book No. 20, Santa Ana, California, South Coast Geological Society, Inc., pages 237-262.

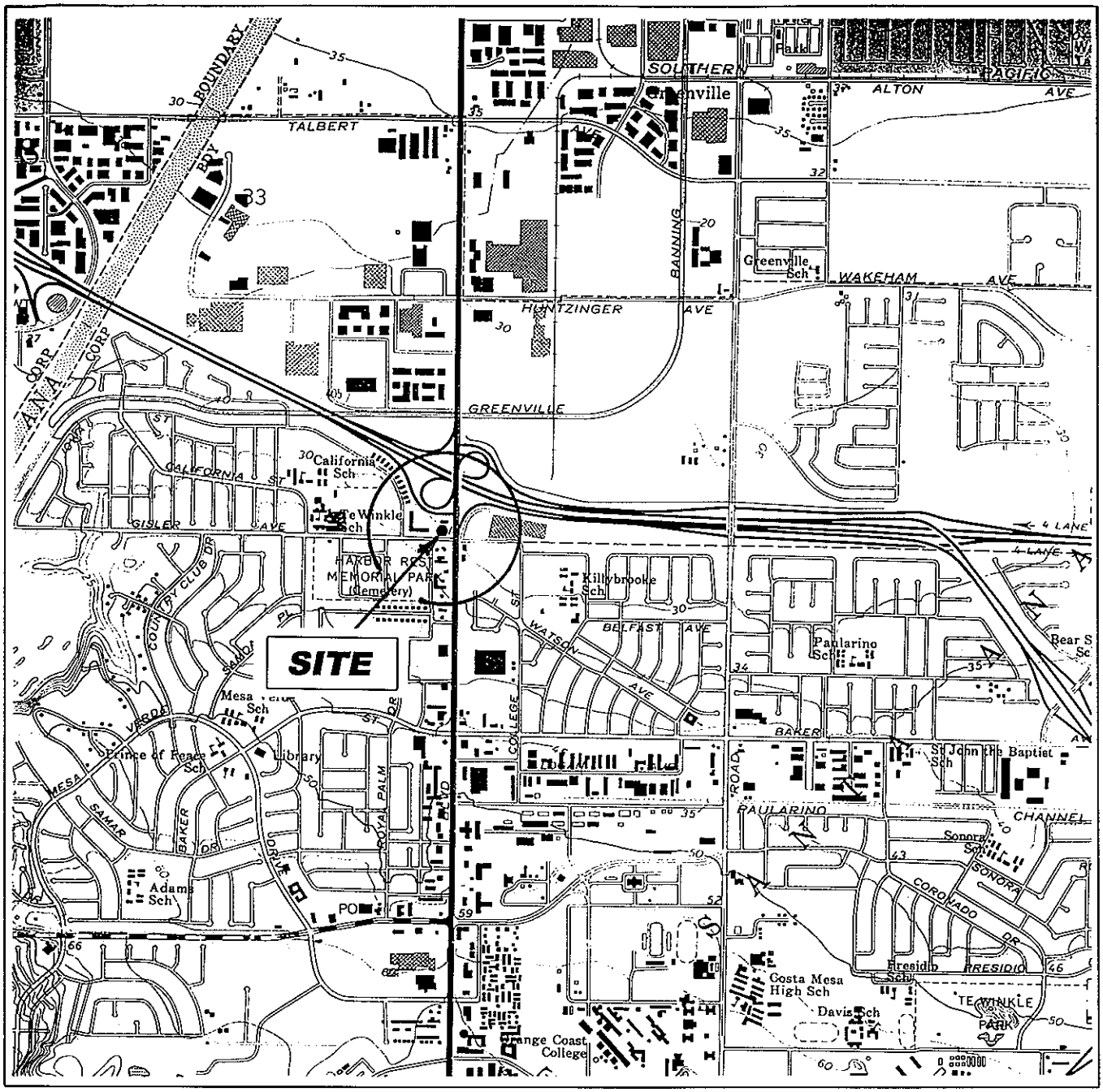
Hydro-Fluent, Inc. (Hydro-Fluent), 1985, Supplementary Tank Zone Investigation, December 12, 1985.

W.W. Irwin, Inc. (W.W. Irwin), 1991, Vadose Zone Venting Well Installation Report, February 27, 1991.

W.W. Irwin, Inc. (W.W. Irwin), 1994, Report on Supplemental Site Assessment, July 15, 1994.

ATTACHMENT A

OCHCA Letter Dated January 11, 2005



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
NEWPORT BEACH, CA. QUADRANGLE
7.5 MINUTE TOPOGRAPHIC MAP
1965
PHOTOREVISED 1981

QUADRANGLE LOCATION

N

0 1 2000 FT

SCALE: 1 : 24,000

FIGURE 1
SITE LOCATION MAP
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CA.

PROJECT NO. L092-934		DRAWN BY
FILE NO. 2-934-90		PREPARED BY
DATE 21 JAN 00	REV. A	REVIEWED BY

Delta Environmental Consultants, Inc.

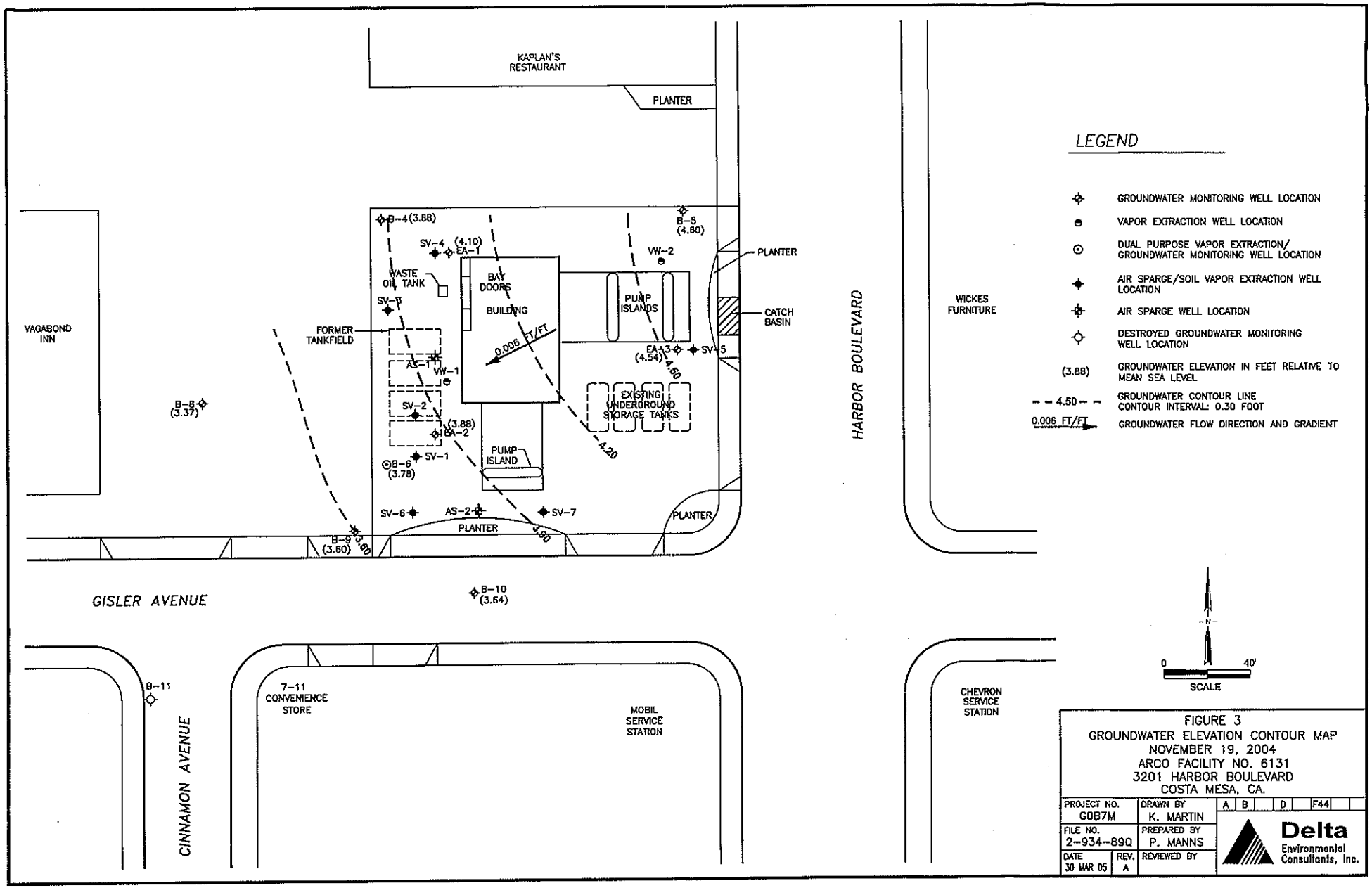
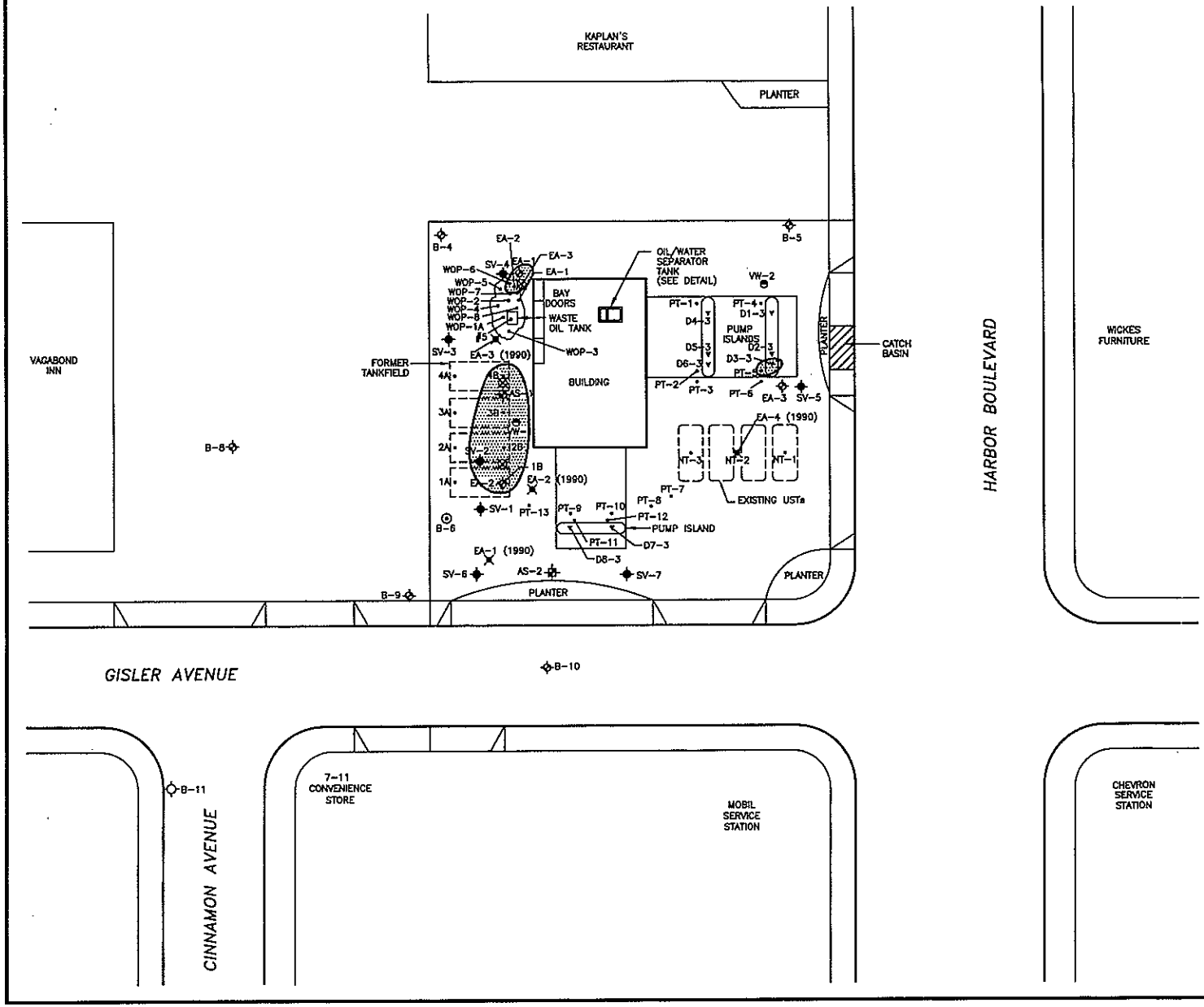


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
NOVEMBER 19, 2004
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CA.

PROJECT NO. G0B7M	DRAWN BY K. MARTIN	A B D F44
FILE NO. 2-934-89Q	PREPARED BY P. MANNS	Delta Environmental Consultants, Inc.
DATE 30 MAR 05 / REV. A	REVIEWED BY	



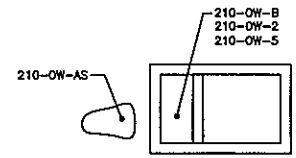
LEGEND

	PROPOSED BORING LOCATION
EA-1	GROUNDWATER MONITORING WELL LOCATION
VW-2	VAPOR EXTRACTION WELL LOCATION
B-6	DUAL PURPOSE VAPOR EXTRACTION/ GROUNDWATER MONITORING WELL LOCATION
SV-1	AIR SPARGE/SOIL VAPOR EXTRACTION WELL LOCATION
AS-1	AIR SPARGE WELL LOCATION
B-11	DESTROYED GROUNDWATER MONITORING WELL LOCATION
D4-3	DISPENSER SAMPLE LOCATION
1A	TANK PULL SAMPLE LOCATION
NT-1	NEW TANK SAMPLE LOCATION
PT-1	PIPING TRENCH SAMPLE LOCATION
WOP-2	WASTE OIL TANK SAMPLE LOCATION
210-OW-B	OIL/WATER SEPARATOR SOIL SAMPLE LOCATION
EA-4 (1990)	SOIL BORING LOCATION
	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPHg) CONCENTRATION >50 ppm IN SOIL

N

0 40'

SCALE



DETAIL

SCALE: 1" = 6'-0"

FIGURE 2
SITE MAP WITH TPHg CONCENTRATION >50 ppm
AND PROPOSED BORING LOCATIONS
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CA.

PROJECT NO. G0B7M	DRAWN BY K. MARTIN	A B D J24 SM
FILE NO. A0-586-02	PREPARED BY S. PENCE	Delta Environmental Consultants, Inc.
DATE 06 APR 05 / REV. A	REVIEWED BY	

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Sample I.D.	Depth (feet)	Date Sampled	EPA 8015/8015M	EPA Method 8020/8021/8260B					EPA Method 8260B				
			TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)
EA-1	NA	12/27/90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EA-2	30	12/27/90	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EA-3	5	12/27/90	31*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EA-3	30	12/27/90	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EA-4	NA	12/27/90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1A	14	01/28/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
2A	14	01/28/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
3A	14	01/28/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
4A	14	01/28/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
1B	14	01/28/92	5900.0	8.6	160.0	95.0	640.0	NA	NA	NA	NA	NA	NA
2B	14	01/28/92	620.0	0.14	7.7	11.0	86.0	NA	NA	NA	NA	NA	NA
3B	14	01/28/92	8900.0	14.0	200.0	100.0	470.0	NA	NA	NA	NA	NA	NA
4B	14	01/28/92	1.3	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
Waste Oil #5	NA	01/28/92	57.0*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NT-1	15	01/30/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
NT-2	15	01/30/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
NT-3	15	01/30/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
PT-1	NA	02/05/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
PT-2	NA	02/05/92	ND<1.0	ND<0.05	0.07	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
PT-3	NA	02/05/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
PT-4	NA	02/05/92	1400.0	ND<0.05	0.54	0.51	14.0	NA	NA	NA	NA	NA	NA
PT-5	NA	02/05/92	8400.0	19.0	200.0	77.0	410.0	NA	NA	NA	NA	NA	NA
PT-6	NA	02/05/92	ND<1.0	ND<0.05	0.11	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
PT-7	NA	02/05/92	7.9	ND<0.05	ND<0.05	ND<0.05	0.27	NA	NA	NA	NA	NA	NA
PT-8	NA	02/05/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA

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ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Sample I.D.	Depth (feet)	Date Sampled	EPA 8015/8015M	EPA Method 8020/8021/8260B					EPA Method 8260B				
			TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)
PT-9	NA	02/05/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
PT-10	NA	02/05/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
PT-11	NA	02/05/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
PT-12	NA	02/05/92	12.0	ND<0.05	ND<0.05	ND<0.05	0.06	NA	NA	NA	NA	NA	NA
PT-13	NA	02/28/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
WOP-1A	NA	02/28/92	ND<1.0/ND<5.0**	ND<0.05	ND<0.05	ND<0.05	0.06	NA	NA	NA	NA	NA	NA
WOP-2	NA	02/28/92	180.0/3300.0**	0.31	4.1	4.1	17	NA	NA	NA	NA	NA	NA
WOP-3	NA	02/28/92	ND<1.0/ND<5.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
WOP-4	NA	02/28/92	ND<1.0/ND<5.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
WOP-5	NA	03/04/92	4700.0*	ND<0.05	0.010	0.020	0.180	NA	NA	NA	NA	NA	NA
WOP-6	NA	03/04/92	ND<5.0*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WOP-7	NA	03/04/92	ND<5.0*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WOP-8	NA	03/04/92	1900.0*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EA-1	NA	03/13/92	ND<5.0*	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
EA-2	NA	03/13/92	ND<5.0*	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
EA-3	NA	03/13/92	ND<5.0*	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
EA-1	15	09/09/92	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
EA-1	30	09/09/92	370	ND<0.05	0.56	2.4	1.6	NA	NA	NA	NA	NA	NA
EA-2	15	09/09/92	4.4	ND<0.05	0.06	ND<0.05	0.3	NA	NA	NA	NA	NA	NA
EA-2	30	09/09/92	77	0.36	1.0	1.1	4.3	NA	NA	NA	NA	NA	NA
EA-2	35	09/09/92	4.1	0.25	0.08	0.11	0.10	NA	NA	NA	NA	NA	NA
EA-3	20	09/09/92	24	ND<0.05	ND<0.05	ND<0.05	0.18	NA	NA	NA	NA	NA	NA
EA-3	30	09/09/92	560	2.9	1.4	7.0	24	NA	NA	NA	NA	NA	NA

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3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Sample I.D.	Depth (feet)	Date Sampled	EPA 8015/8015M	EPA Method 8020/8021/8260B					EPA Method 8260B				
			TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)
B-4	5	03/15/93	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
B-4	15	03/15/93	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
B-4	25	03/15/93	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
B-5	10	03/16/93	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
B-5	15	03/16/93	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
B-5	20	03/16/93	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
B-6	10	03/15/93	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
B-6	20	03/15/93	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
B-6	30	03/15/93	210	ND<0.25	5.1	2.4	7.7	NA	NA	NA	NA	NA	NA
VW-1	10	03/15/93	23	ND<0.05	ND<0.05	0.14	0.37	NA	NA	NA	NA	NA	NA
VW-1	20	03/15/93	250	ND<0.5	1.3	1.6	12	NA	NA	NA	NA	NA	NA
VW-1	25	03/15/93	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
VW-2	10	03/16/93	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
VW-2	20	03/16/93	9.2	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
VW-2	25	03/16/93	9.3	ND<0.13	ND<0.13	ND<0.13	ND<0.13	NA	NA	NA	NA	NA	NA
SV-1	5	09/01/94	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
SV-1	10	09/01/94	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
SV-1	15	09/01/94	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
SV-1	20	09/01/94	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
SV-1	25	09/01/94	2.1	0.059	0.0084	0.16	0.028	NA	NA	NA	NA	NA	NA
SV-1	30	09/01/94	400	2.1	4	3.60	13.000	NA	NA	NA	NA	NA	NA
SV-1	35	09/01/94	7.6	0.12	ND<0.020	0.032	ND<0.060	NA	NA	NA	NA	NA	NA
SV-2	5	09/01/94	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
SV-2	10	09/01/94	80	0.31	0.20	0.54	1.8	NA	NA	NA	NA	NA	NA
SV-2	15	09/01/94	2.4	ND<0.0050	0.030	0.019	0.15	NA	NA	NA	NA	NA	NA
SV-2	20	09/01/94	ND<5	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA	NA	NA	NA	NA	NA
SV-2	25	09/01/94	2.6	0.14	0.016	0.12	0.10	NA	NA	NA	NA	NA	NA

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Sample I.D.	Depth (feet)	Date Sampled	EPA 8015/8015M	EPA Method 8020/8021/8260B					EPA Method 8260B				
			TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)
SV-2	30	09/01/94	1500	9.5	26	14	62	NA	NA	NA	NA	NA	NA
SV-2	35	09/01/94	1.1	0.0081	0.0089	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
B-8	5	05/29/96	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
B-8	10	05/29/96	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
B-8	15	05/29/96	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
B-8	20	05/29/96	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
B-9	5	05/29/96	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
B-9	10	05/29/96	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
B-9	15	05/29/96	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.015	NA	NA	NA	NA	NA	NA
B-9	20	05/29/96	ND<1.0	ND<0.005	ND<0.005	0.029	0.067	NA	NA	NA	NA	NA	NA
AS-1	5	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
AS-1	10	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
AS-1	15	11/14/96	1.1	0.0060	0.023	0.015	0.072	NA	NA	NA	NA	NA	NA
AS-1	20	11/14/96	8.9	ND<0.020	ND<0.020	0.28	1.4	NA	NA	NA	NA	NA	NA
AS-2	5	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
AS-2	10	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
AS-2	15	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
AS-2	20	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
AS-2		11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-3	5	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-3	10	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-3	15	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-3	20	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-4	5	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-4	10	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-4	15	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-4	20	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Sample I.D.	Depth (feet)	Date Sampled	EPA 8015/8015M	EPA Method 8020/8021/8260B					EPA Method 8260B				
			TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)
SV-5	5	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-5	10	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-5	15	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-5	20	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-6	5	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-6	10	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-6	15	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-6	20	11/14/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-7	5	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-7	10	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-7	15	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-7	20	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
SV-7	25	11/15/96	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	NA	NA	NA	NA	NA	NA
D1-3	3	08/19/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.035	NA	NA	NA	NA	NA
D2-3	3	08/19/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	0.63	0.220	NA	NA	NA	NA
D3-3	3	08/19/99	1,800	ND<1.7	ND<1.7	ND<1.7	ND<5.0	ND<12	NA	NA	NA	NA	NA
D4-3	3	08/19/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.035	NA	NA	NA	NA	NA
D5-3	3	08/19/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.035	NA	NA	NA	NA	NA
D6-3	3	08/19/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.035	NA	NA	NA	NA	NA
D7-3	3	08/19/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.035	NA	NA	NA	NA	NA
D8-3	3	08/19/99	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	0.62	NA	NA	NA	NA	NA

NOTES:

EPA	= Environmental Protection Agency	TAME	= *Tert*-amyl methyl ether
mg/kg	= Milligrams per kilogram	TBA	= *Tert*-butanol
TPHg	= Total petroleum hydrocarbons as gasoline	NA	= Not analyzed
MTBE	= Methyl *tert*-butyl ether	ND<	= Not detected at or above stated reporting limit
DIPE	= Di-isopropyl ether	*	= TRPH analuzed for using EPA Method 418.1
ETBE	= Ethyl *tert*-butyl ether	**	= TPHg analyzed for using EPA Method 8015/TRPH analyzed for using EPA Method 418.1

TABLE 2
HISTORICAL GROUNDWATER GAUGING DATA
ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
B-4	3/24/1993	30.74	NA	25.02	NA	5.72	
B-4	6/15/1993	30.74	NA	23.50	NA	7.24	
B-4	9/13/1993	30.74	NA	24.41	NA	6.33	
B-4	11/3/1993	30.74	NA	25.02	NA	5.72	
B-4	2/15/1994	30.74	NA	23.24	NA	7.50	
B-4	5/3/1994	30.74	NA	21.20	NA	9.54	
B-4	8/2/1994	30.74	NA	21.93	NA	8.81	
B-4	11/1/1994	30.74	NA	23.20	NA	7.54	
B-4	3/15/1995	30.74	NA	21.71	NA	9.03	
B-4	4/26/1995	30.74	NA	21.20	NA	9.54	
B-4	8/1/1995	30.73	NA	20.74	NA	9.99	
B-4	10/30/1995	30.73	NA	26.45	NA	4.28	
B-4	1/30/1996	30.73	NA	24.29	NA	6.44	
B-4	5/2/1996	30.73	NA	22.09	NA	8.64	
B-4	7/31/1996	30.73	NA	23.20	NA	7.53	
B-4	11/6/1996	30.73	NA	25.63	NA	5.10	
B-4	3/19/1997	30.73	NA	22.88	NA	7.85	
B-4	5/27/1997	30.73	NA	22.70	NA	8.03	
B-4	8/20/1997	30.52	NA	24.90	NA	5.62	
B-4	11/26/1997	30.52	NA	26.79	NA	3.73	
B-4	2/25/1998	30.52	NA	24.52	NA	6.00	
B-4	5/12/1998	30.52	NA	22.20	NA	8.32	
B-4	7/22/1998	30.52	NA	23.69	NA	6.83	
B-4	10/15/1998	30.52	NA	26.02	NA	4.50	
B-4	2/4/1999	30.52	NA	25.20	NA	5.32	
B-4	5/3/1999	30.52	NA	23.57	NA	6.95	
B-4	8/30/1999	30.52	NA	24.08	NA	6.44	
B-4	11/10/1999	30.52	NA	27.48	NA	3.04	
B-4	2/2/2000	30.52	NA	26.68	NA	3.84	
B-4	6/8/2000	30.52	NA	24.83	NA	5.69	
B-4	9/13/2000	30.52	NA	27.18	NA	3.34	
B-4	12/18/2000	30.52	NA	NA	NA	NA	Well not gauged due to sampling error
B-4	3/22/2001	30.52	NA	26.95	NA	3.57	
B-4	6/7/2001	30.52	NA	26.30	NA	4.22	
B-4	9/18/2001	30.52	NA	28.00	NA	2.52	
B-4	12/13/2001	30.52	NA	29.03	NA	1.49	
B-4	3/28/2002	30.52	NA	28.18	NA	2.34	
B-4	6/7/2002	30.52	NA	28.40	NA	2.12	
B-4	9/18/2002	30.52	NA	29.75	NA	0.77	
B-4	12/30/2002	30.52	NA	30.30	NA	0.22	
B-4	3/20/2003	30.52	NA	27.94	NA	2.58	
B-4	5/15/2003	30.52	NA	27.40	NA	3.12	
B-4	11/20/2003	30.52	NA	28.28	NA	2.24	
B-4	2/24/2004	30.52	NA	NA	NA	NA	Sampled semi-annually
B-4	5/25/2004	30.52	NA	25.95	NA	4.57	
B-4	8/26/2004	30.52	NA	26.86	NA	3.66	
B-4	11/19/2004	30.52	NA	26.64	NA	3.88	
B-4	2/25/2005	30.52	NA	24.10	NA	6.42	
B-5	3/24/1993	29.44	NA	23.26	NA	6.18	
B-5	6/15/1993	29.44	NA	21.81	NA	7.63	

TABLE 2
HISTORICAL GROUNDWATER GAUGING DATA
ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
B-5	9/13/1993	29.44	NA	22.61	NA	6.83	
B-5	11/3/1993	29.44	NA	23.30	NA	6.14	
B-5	2/15/1994	29.44	NA	21.68	NA	7.76	
B-5	5/3/1994	29.44	NA	19.65	NA	9.79	
B-5	8/2/1994	29.44	NA	20.37	NA	9.07	
B-5	11/1/1994	29.44	NA	20.40	NA	9.04	
B-5	3/15/1995	29.44	NA	20.12	NA	9.32	
B-5	4/26/1995	29.44	NA	19.68	NA	9.76	
B-5	8/1/1995	29.42	NA	22.38	NA	7.04	
B-5	10/30/1995	29.42	NA	24.67	NA	4.75	
B-5	1/30/1996	29.42	NA	22.50	NA	6.92	
B-5	5/2/1996	29.42	NA	20.50	NA	8.92	
B-5	7/31/1996	29.42	NA	21.41	NA	8.01	
B-5	11/6/1996	29.42	NA	23.65	NA	5.77	
B-5	3/19/1997	29.42	NA	21.24	NA	8.18	
B-5	5/27/1997	29.42	NA	20.80	NA	8.62	
B-5	8/20/1997	29.21	NA	22.95	NA	6.26	
B-5	11/26/1997	29.21	NA	24.71	NA	4.50	
B-5	2/25/1998	29.21	NA	22.79	NA	6.42	
B-5	5/12/1998	29.21	NA	20.60	NA	8.61	
B-5	7/22/1998	29.21	NA	21.08	NA	8.13	
B-5	10/15/1998	29.21	NA	23.90	NA	5.31	
B-5	2/4/1999	29.21	NA	23.30	NA	5.91	
B-5	5/3/1999	29.21	NA	22.88	NA	6.33	
B-5	8/30/1999	29.21	NA	23.93	NA	5.28	
B-5	11/10/1999	29.21	NA	25.26	NA	3.95	
B-5	2/2/2000	29.21	NA	24.68	NA	4.53	
B-5	6/8/2000	29.21	NA	22.90	NA	6.31	
B-5	9/13/2000	29.21	NA	24.92	NA	4.29	
B-5	12/18/2000	29.21	NA	NA	NA	NA	Well not gauged due to sampling error
B-5	3/22/2001	29.21	NA	24.84	NA	4.37	
B-5	6/7/2001	29.21	NA	24.25	NA	4.96	
B-5	9/18/2001	29.21	NA	25.65	NA	3.56	
B-5	12/13/2001	29.21	NA	26.81	NA	2.40	
B-5	3/28/2002	29.21	NA	26.15	NA	3.06	
B-5	6/7/2002	29.21	NA	26.21	NA	3.00	
B-5	9/18/2002	29.21	NA	27.48	NA	1.73	
B-5	12/30/2002	29.21	NA	28.24	NA	0.97	
B-5	3/20/2003	29.21	NA	25.98	NA	3.23	
B-5	5/15/2003	29.21	NA	25.30	NA	3.91	
B-5	11/20/2003	29.21	NA	26.07	NA	3.14	
B-5	2/24/2004	29.21	NA	NA	NA	NA	Sampled semi-annually
B-5	5/25/2004	29.21	NA	24.00	NA	5.21	
B-5	8/26/2004	29.21	NA	24.83	NA	4.38	
B-5	11/19/2004	29.21	NA	24.61	NA	4.60	
B-5	2/25/2005	29.21	NA	22.42	NA	6.79	
B-6	3/24/1993	31.13	NA	25.77	NA	5.36	
B-6	6/15/1993	31.13	NA	24.06	NA	7.07	
B-6	9/13/1993	31.13	NA	24.98	NA	6.15	
B-6	11/3/1993	31.13	NA	26.41	NA	4.72	

TABLE 2
HISTORICAL GROUNDWATER GAUGING DATA
ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
B-6	2/15/1994	31.13	NA	23.88	NA	7.25	
B-6	5/3/1994	31.13	NA	21.83	NA	9.30	
B-6	8/2/1994	31.13	NA	22.42	NA	8.71	
B-6	11/1/1994	31.13	NA	24.10	NA	7.03	
B-6	3/15/1995	31.13	NA	22.30	NA	8.83	
B-6	4/26/1995	31.13	NA	21.70	NA	9.43	
B-6	8/1/1995	31.13	NA	22.86	NA	8.27	
B-6	10/30/1995	31.13	NA	26.93	NA	4.20	
B-6	1/30/1996	31.13	NA	24.80	NA	6.33	
B-6	5/2/1996	31.13	NA	22.66	NA	8.47	
B-6	7/31/1996	31.13	NA	23.63	NA	7.50	
B-6	11/6/1996	31.13	NA	26.16	NA	4.97	
B-6	3/19/1997	31.13	NA	23.74	NA	7.39	
B-6	5/27/1997	31.13	NA	23.16	NA	7.97	
B-6	8/20/1997	31.19	NA	25.60	NA	5.59	
B-6	11/26/1997	31.19	NA	27.46	NA	3.73	
B-6	2/25/1998	31.19	NA	25.98	NA	5.21	
B-6	5/12/1998	31.19	NA	23.00	NA	8.19	
B-6	7/22/1998	31.19	NA	24.35	NA	6.84	
B-6	10/15/1998	31.19	NA	26.89	NA	4.30	
B-6	2/4/1999	31.19	NA	25.95	NA	5.24	
B-6	5/3/1999	31.19	NA	24.35	NA	6.84	
B-6	8/30/1999	31.19	NA	NA	NA	NA	Well not accessible due to construction activities
B-6	11/10/1999	31.19	NA	28.17	NA	3.02	
B-6	2/2/2000	31.19	NA	27.45	NA	3.74	
B-6	6/8/2000	31.19	NA	25.44	NA	5.75	
B-6	9/13/2000	31.19	NA	27.92	NA	3.27	
B-6	12/18/2000	31.19	NA	29.04	NA	2.15	
B-6	3/22/2001	31.19	NA	27.68	NA	3.51	
B-6	6/7/2001	31.19	NA	27.00	NA	4.19	
B-6	9/18/2001	31.19	NA	28.65	NA	2.54	
B-6	12/13/2001	31.19	NA	29.70	NA	1.49	
B-6	3/28/2002	31.19	NA	28.92	NA	2.27	
B-6	6/7/2002	31.19	NA	29.15	NA	2.04	
B-6	9/18/2002	31.19	NA	30.40	NA	0.79	
B-6	12/30/2002	31.19	31.08	31.08	Sheen	0.11	
B-6	3/20/2003	31.19	27.73	27.73	Sheen	3.46	
B-6	5/15/2003	31.19	28.31	28.31	Sheen	2.88	
B-6	8/12/2003	31.19	29.04	29.04	Sheen	2.15	
B-6	11/20/2003	31.19	NA	29.01	NA	2.18	
B-6	2/24/2004	31.19	NA	27.96	NA	3.23	
B-6	5/25/2004	31.19	NA	26.78	NA	4.41	
B-6	8/26/2004	31.19	NA	26.00	NA	5.19	
B-6	11/19/2004	31.19	NA	27.41	NA	3.78	
B-6	2/25/2005	31.19	NA	24..87	NA	7.19	
B-8	8/22/1996	NA	NA	25.40	NA	NA	Well not surveyed
B-8	11/6/1996	NA	NA	27.30	NA	NA	Well not surveyed
B-8	3/19/1997	NA	NA	24.26	NA	NA	Well not surveyed
B-8	5/27/1997	NA	NA	23.76	NA	NA	Well not surveyed
B-8	8/20/1997	31.67	NA	26.52	NA	5.15	

TABLE 2
HISTORICAL GROUNDWATER GAUGING DATA
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3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
B-8	11/26/1997	31.67	NA	28.46	NA	3.21	
B-8	2/25/1998	31.67	NA	25.97	NA	5.70	
B-8	5/12/1998	31.67	NA	23.55	NA	8.12	
B-8	7/22/1998	31.67	NA	25.28	NA	6.39	
B-8	10/15/1998	31.67	NA	28.80	NA	2.87	
B-8	2/4/1999	31.67	NA	26.75	NA	4.92	
B-8	5/3/1999	31.67	NA	25.12	NA	6.55	
B-8	8/30/1999	31.67	NA	27.87	NA	3.80	
B-8	11/10/1999	31.67	NA	29.25	NA	2.42	
B-8	2/2/2000	31.67	NA	28.33	NA	3.34	
B-8	6/8/2000	31.67	NA	26.50	NA	5.17	
B-8	9/13/2000	31.67	NA	29.02	NA	2.65	
B-8	12/18/2000	31.67	NA	NA	NA	NA	Well not gauged due to sampling error
B-8	3/22/2001	31.67	NA	28.67	NA	3.00	
B-8	6/7/2001	31.67	NA	27.96	NA	3.71	
B-8	9/18/2001	31.67	NA	29.80	NA	1.87	
B-8	12/13/2001	31.67	NA	30.75	NA	0.92	
B-8	3/28/2002	31.67	NA	29.75	NA	1.92	
B-8	6/7/2002	31.67	NA	30.10	NA	1.57	
B-8	9/18/2002	31.67	NA	31.45	NA	0.22	
B-8	12/30/2002	31.67	NA	31.96	NA	-0.29	
B-8	3/20/2003	31.67	NA	29.57	NA	2.10	
B-8	5/15/2003	31.67	NA	29.11	NA	2.56	
B-8	8/12/2003	31.67	NA	30.01	NA	1.66	
B-8	11/20/2003	31.67	NA	30.00	NA	1.67	
B-8	2/24/2004	31.67	NA	28.75	NA	2.92	
B-8	5/25/2004	31.67	NA	27.58	NA	4.09	
B-8	8/26/2004	31.67	NA	28.57	NA	3.10	
B-8	11/19/2004	31.67	NA	28.30	NA	3.37	
B-8	2/25/2005	31.67	NA	25.50	NA	6.17	
B-9	8/22/1996	NA	NA	24.25	NA	NA	Well not surveyed
B-9	11/6/1996	NA	NA	26.20	NA	NA	Well not surveyed
B-9	3/19/1997	NA	NA	NA	NA	NA	Not accessible; well covered with asphalt
B-9	5/27/1997	NA	NA	NA	NA	NA	Not accessible; well covered with asphalt
B-9	8/20/1997	30.84	NA	25.37	NA	5.47	
B-9	11/26/1997	30.84	NA	27.38	NA	3.46	
B-9	2/25/1998	30.84	NA	24.96	NA	5.88	
B-9	5/12/1998	30.84	NA	22.70	NA	8.14	
B-9	7/22/1998	30.84	NA	24.08	NA	6.76	
B-9	10/15/1998	30.84	NA	26.52	NA	4.32	
B-9	2/4/1999	30.84	NA	25.70	NA	5.14	
B-9	5/3/1999	30.84	NA	24.09	NA	6.75	
B-9	8/30/1999	30.84	NA	26.59	NA	4.25	
B-9	11/10/1999	30.84	NA	27.99	NA	2.85	
B-9	2/2/2000	30.84	NA	27.27	NA	3.57	
B-9	6/8/2000	30.84	NA	25.35	NA	5.49	
B-9	9/13/2000	30.84	NA	27.74	NA	3.10	
B-9	12/18/2000	30.84	NA	28.78	NA	2.06	
B-9	3/22/2001	30.84	NA	27.48	NA	3.36	
B-9	6/7/2001	30.84	NA	26.73	NA	4.11	

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3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
B-9	9/18/2001	30.84	NA	28.46	NA	2.38	
B-9	12/13/2001	30.84	NA	29.51	NA	1.33	
B-9	3/28/2002	30.84	NA	28.67	NA	2.17	
B-9	6/7/2002	30.84	NA	28.93	NA	1.91	
B-9	9/18/2002	30.84	NA	30.23	NA	0.61	
B-9	12/30/2002	30.84	NA	30.92	NA	-0.08	
B-9	3/20/2003	30.84	NA	28.57	NA	2.27	
B-9	5/15/2003	30.84	NA	28.09	NA	2.75	
B-9	8/12/2003	30.84	NA	28.91	NA	1.93	
B-9	11/20/2003	30.84	NA	28.90	NA	1.94	
B-9	2/24/2004	30.84	NA	27.81	NA	3.03	
B-9	5/25/2004	30.84	NA	26.60	NA	4.24	
B-9	8/26/2004	30.84	NA	27.47	NA	3.37	
B-9	11/19/2004	30.84	NA	27.24	NA	3.60	
B-9	2/25/2005	30.84	NA	24.61	NA	6.23	
B-10	11/1/1994	NA	NA	23.19	NA	NA	Well not surveyed
B-10	3/15/1995	NA	NA	22.22	NA	NA	Well not surveyed
B-10	4/26/1995	NA	NA	21.70	NA	NA	Well not surveyed
B-10	8/1/1995	30.98	NA	22.79	NA	8.19	
B-10	10/30/1995	30.98	NA	26.92	NA	4.06	
B-10	1/30/1996	30.98	NA	24.78	NA	6.20	
B-10	5/2/1996	30.98	NA	22.72	NA	8.26	
B-10	7/31/1996	30.98	NA	23.58	NA	7.40	
B-10	11/6/1996	30.98	NA	26.25	NA	4.73	
B-10	3/19/1997	30.98	NA	23.48	NA	7.50	
B-10	5/27/1997	30.98	NA	22.94	NA	8.04	
B-10	8/20/1997	30.77	NA	25.42	NA	5.35	
B-10	11/26/1997	30.77	NA	27.44	NA	3.33	
B-10	2/25/1998	30.77	NA	24.91	NA	5.86	
B-10	5/12/1998	30.77	NA	22.75	NA	8.02	
B-10	7/22/1998	30.77	NA	24.00	NA	6.77	
B-10	10/15/1998	30.77	NA	26.44	NA	4.33	
B-10	2/4/1999	30.77	NA	25.70	NA	5.07	
B-10	5/3/1999	30.77	NA	24.12	NA	6.65	
B-10	8/30/1999	30.77	NA	25.51	NA	5.26	
B-10	11/10/1999	30.77	NA	27.80	NA	2.97	
B-10	2/2/2000	30.77	NA	27.17	NA	3.60	
B-10	6/8/2000	30.77	NA	25.35	NA	5.42	
B-10	9/13/2000	30.77	NA	27.55	NA	3.22	
B-10	12/18/2000	30.77	NA	NA	NA	NA	Well not gauged due to sampling error
B-10	3/22/2001	30.77	NA	27.33	NA	3.44	
B-10	6/7/2001	30.77	NA	26.62	NA	4.15	
B-10	9/18/2001	30.77	NA	28.31	NA	2.46	
B-10	9/18/2001	30.77	NA	28.31	NA	2.46	
B-10	12/13/2001	30.77	NA	NA	NA	NA	Not gauged; city would not allow street sampling
B-10	3/28/2002	30.77	NA	28.60	NA	2.17	
B-10	6/7/2002	30.77	NA	28.80	NA	1.97	
B-10	9/18/2002	30.77	NA	30.05	NA	0.72	
B-10	12/30/2002	30.77	NA	NA	NA	NA	Not gauged; city would not allow street sampling
B-10	3/20/2003	30.77	NA	28.72	NA	2.05	

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Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
B-10	5/15/2003	30.77	NA	28.00	NA	2.77	
B-10	8/12/2003	30.77	NA	28.77	NA	2.00	
B-10	11/20/2003	30.77	NA	28.81	NA	1.96	
B-10	2/24/2004	30.77	NA	27.72	NA	3.05	
B-10	5/25/2004	30.77	NA	26.53	NA	4.24	
B-10	8/26/2004	30.77	NA	27.38	NA	3.39	
B-10	11/19/2004	30.77	NA	27.13	NA	3.64	
B-10	2/25/2005	30.77	NA	24.55	NA	6.22	
B-11	11/1/1994	NA	NA	NA	NA	NA	Not gauged; well destroyed during sewer construction
EA-1	9/18/1992	30.79	NA	28.07	NA	2.72	
EA-1	3/24/1993	30.96	NA	25.12	NA	5.84	
EA-1	6/15/1993	30.96	NA	23.62	NA	7.34	
EA-1	9/13/1993	30.96	NA	24.42	NA	6.54	
EA-1	11/3/1993	30.96	NA	26.00	NA	4.96	
EA-1	2/15/1994	30.96	NA	23.61	NA	7.35	
EA-1	5/3/1994	30.96	NA	21.68	NA	9.28	
EA-1	8/2/1994	30.96	NA	22.08	NA	8.88	
EA-1	11/1/1994	30.96	NA	22.00	NA	8.96	
EA-1	3/15/1995	30.96	NA	22.28	NA	8.68	
EA-1	4/26/1995	30.96	NA	21.35	NA	9.61	
EA-1	8/1/1995	30.94	NA	22.50	NA	8.44	
EA-1	10/30/1995	30.94	NA	26.52	NA	4.42	
EA-1	1/30/1996	30.94	NA	24.38	NA	6.56	
EA-1	5/2/1996	30.94	NA	22.22	NA	8.72	
EA-1	7/31/1996	30.94	NA	23.26	NA	7.68	
EA-1	11/6/1996	30.94	NA	25.70	NA	5.24	
EA-1	3/19/1997	30.94	NA	23.30	NA	7.64	
EA-1	5/27/1997	30.94	NA	22.50	NA	8.44	
EA-1	8/20/1997	30.75	NA	24.93	NA	5.82	
EA-1	11/26/1997	30.75	NA	26.80	NA	3.95	
EA-1	2/25/1998	30.75	NA	24.73	NA	6.02	
EA-1	5/12/1998	30.75	NA	22.45	NA	8.30	
EA-1	7/22/1998	30.75	NA	23.47	NA	7.28	
EA-1	10/15/1998	30.75	NA	26.00	NA	4.75	
EA-1	2/4/1999	30.75	NA	25.25	NA	5.50	
EA-1	5/3/1999	30.75	NA	23.77	NA	6.98	
EA-1	8/30/1999	30.75	NA	26.02	NA	4.73	
EA-1	11/10/1999	30.75	NA	27.43	NA	3.32	
EA-1	2/2/2000	30.75	NA	26.69	NA	4.06	
EA-1	6/8/2000	30.75	NA	24.85	NA	5.90	
EA-1	9/13/2000	30.75	NA	27.11	NA	3.64	
EA-1	12/18/2000	30.75	NA	NA	NA	NA	Well not gauged due to sampling error
EA-1	3/22/2001	30.75	NA	26.91	NA	3.84	
EA-1	6/7/2001	30.75	NA	26.29	NA	4.46	
EA-1	9/18/2001	30.75	NA	27.90	NA	2.85	
EA-1	12/13/2001	30.75	NA	28.98	NA	1.77	
EA-1	3/28/2002	30.75	NA	28.17	NA	2.58	
EA-1	6/7/2002	30.75	NA	28.37	NA	2.38	
EA-1	9/18/2002	30.75	NA	29.70	NA	1.05	
EA-1	12/30/2002	30.75	NA	29.42	NA	1.33	

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Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
EA-1	3/20/2003	30.75	NA	28.00	NA	2.75	
EA-1	5/15/2003	30.75	NA	27.42	NA	3.33	
EA-1	11/20/2003	30.75	NA	28.25	NA	2.50	
EA-1	2/24/2004	30.75	NA	NA	NA	NA	Sampled semi-annually
EA-1	5/25/2004	30.75	NA	26.00	NA	4.75	
EA-1	8/26/2004	30.75	NA	26.93	NA	3.82	
EA-1	11/19/2004	30.75	NA	26.65	NA	4.10	
EA-1	2/25/2005	30.75	NA	24.23	NA	6.52	
EA-2	9/18/1992	31.40	NA	28.95	NA	2.45	
EA-2	3/24/1993	31.46	NA	25.94	NA	5.52	
EA-2	6/15/1993	31.46	NA	24.33	NA	7.13	
EA-2	9/13/1993	31.46	NA	25.19	NA	6.27	
EA-2	11/3/1993	31.46	NA	26.38	NA	5.08	
EA-2	2/15/1994	31.46	NA	24.14	NA	7.32	
EA-2	5/3/1994	31.46	NA	22.13	NA	9.33	
EA-2	8/2/1994	31.46	NA	22.71	NA	8.75	
EA-2	11/1/1994	31.46	NA	23.26	NA	8.20	
EA-2	3/15/1995	31.46	NA	22.58	NA	8.88	
EA-2	4/26/1995	31.46	NA	22.00	NA	9.46	
EA-2	8/1/1995	31.44	NA	23.11	NA	8.33	
EA-2	10/30/1995	31.44	NA	27.19	NA	4.25	
EA-2	1/30/1996	31.44	NA	25.07	NA	6.37	
EA-2	5/2/1996	31.44	NA	22.95	NA	8.49	
EA-2	7/31/1996	31.44	NA	23.88	NA	7.56	
EA-2	11/6/1996	31.44	NA	26.40	NA	5.04	
EA-2	3/19/1997	31.44	NA	23.76	NA	7.68	
EA-2	5/27/1997	31.44	NA	23.22	NA	8.22	
EA-2	8/20/1997	31.25	NA	21.45	NA	9.80	
EA-2	11/26/1997	31.25	NA	27.65	NA	3.60	
EA-2	2/25/1998	31.25	NA	25.31	NA	5.94	
EA-2	5/12/1998	31.25	NA	23.02	NA	8.23	
EA-2	7/22/1998	31.25	NA	24.35	NA	6.90	
EA-2	10/15/1998	31.25	NA	26.66	NA	4.59	
EA-2	2/4/1999	31.25	NA	25.96	NA	5.29	
EA-2	5/3/1999	31.25	NA	24.35	NA	6.90	
EA-2	8/30/1999	31.25	NA	NA	NA	NA	Well not accessible due to construction activities
EA-2	11/10/1999	31.25	NA	28.13	NA	3.12	
EA-2	2/2/2000	31.25	NA	27.43	NA	3.82	
EA-2	6/8/2000	31.25	NA	25.57	NA	5.68	
EA-2	9/13/2000	31.25	NA	27.86	NA	3.39	
EA-2	12/18/2000	31.25	NA	29.01	NA	2.24	
EA-2	3/22/2001	31.25	NA	27.65	NA	3.60	
EA-2	6/7/2001	31.25	NA	26.95	NA	4.30	
EA-2	9/18/2001	31.25	NA	28.61	NA	2.64	
EA-2	12/13/2001	31.25	NA	29.67	NA	1.58	
EA-2	3/28/2002	31.25	NA	28.87	NA	2.38	
EA-2	6/7/2002	31.25	NA	29.10	NA	2.15	
EA-2	9/18/2002	31.25	NA	30.34	NA	0.91	
EA-2	12/30/2002	31.25	NA	31.09	NA	0.16	
EA-2	3/20/2003	31.25	NA	28.72	NA	2.53	

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Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
EA-2	5/15/2003	31.25	NA	28.21	NA	3.04	
EA-2	8/12/2003	31.25	NA	29.00	NA	2.25	
EA-2	11/20/2003	31.25	NA	29.01	NA	2.24	
EA-2	2/24/2004	31.25	NA	27.95	NA	3.30	
EA-2	5/25/2004	31.25	NA	26.78	NA	4.47	
EA-2	8/26/2004	31.25	NA	27.61	NA	3.64	
EA-2	11/19/2004	31.25	NA	27.37	NA	3.88	
EA-2	2/25/2005	31.25	NA	24.89	NA	6.36	
EA-3	9/18/1992	29.69	NA	26.43	NA	3.26	
EA-3	3/24/1993	29.80	NA	23.80	NA	6.00	
EA-3	6/15/1993	29.80	NA	22.27	NA	7.53	
EA-3	9/13/1993	29.80	NA	23.03	NA	6.77	
EA-3	11/3/1993	29.80	NA	24.00	NA	5.80	
EA-3	2/15/1994	29.80	NA	22.21	NA	7.59	
EA-3	5/3/1994	29.80	NA	20.24	NA	9.56	
EA-3	8/2/1994	29.80	NA	20.81	NA	8.99	
EA-3	11/1/1994	29.80	NA	22.17	NA	7.63	
EA-3	3/15/1995	29.80	NA	20.69	NA	9.11	
EA-3	4/26/1995	29.80	NA	20.15	NA	9.65	
EA-3	8/1/1995	29.79	NA	21.18	NA	8.61	
EA-3	10/30/1995	29.79	NA	25.08	NA	4.71	
EA-3	1/30/1996	29.79	NA	22.96	NA	6.83	
EA-3	5/2/1996	29.79	NA	20.98	NA	8.81	
EA-3	7/31/1996	29.79	NA	21.83	NA	7.96	
EA-3	11/6/1996	29.79	NA	24.10	NA	5.69	
EA-3	3/19/1997	29.79	NA	21.80	NA	7.99	
EA-3	5/27/1997	29.79	NA	21.24	NA	8.55	
EA-3	8/20/1997	29.62	NA	23.33	NA	6.29	
EA-3	11/26/1997	29.62	NA	25.18	NA	4.44	
EA-3	2/25/1998	29.62	NA	24.31	NA	5.31	
EA-3	5/12/1998	29.62	NA	21.50	NA	8.12	
EA-3	7/22/1998	29.62	NA	22.20	NA	7.42	
EA-3	10/15/1998	29.62	NA	24.23	NA	5.39	
EA-3	2/4/1999	29.62	NA	23.75	NA	5.87	
EA-3	5/3/1999	29.62	NA	22.41	NA	7.21	
EA-3	8/30/1999	29.62	NA	24.30	NA	5.32	
EA-3	11/10/1999	29.62	NA	25.64	NA	3.98	
EA-3	2/2/2000	29.62	NA	25.09	NA	4.53	
EA-3	6/8/2000	29.62	NA	23.32	NA	6.30	
EA-3	9/13/2000	29.62	NA	25.34	NA	4.28	
EA-3	12/18/2000	29.62	NA	NA	NA	NA	Well not gauged due to sampling error
EA-3	3/22/2001	29.62	NA	25.26	NA	4.36	
EA-3	6/7/2001	29.62	NA	24.62	NA	5.00	
EA-3	9/18/2001	29.62	NA	26.10	NA	3.52	
EA-3	12/13/2001	29.62	NA	27.23	NA	2.39	
EA-3	3/28/2002	29.62	NA	26.57	NA	3.05	
EA-3	6/7/2002	29.62	NA	26.67	NA	2.95	
EA-3	9/18/2002	29.62	NA	27.90	NA	1.72	
EA-3	12/30/2002	29.62	NA	28.73	NA	0.89	
EA-3	3/20/2003	29.62	NA	26.48	NA	3.14	

TABLE 2
HISTORICAL GROUNDWATER GAUGING DATA
ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
EA-3	5/15/2003	29.62	NA	25.84	NA	3.78	
EA-3	11/20/2003	29.62	NA	26.63	NA	2.99	
EA-3	2/24/2004	29.62	NA	NA	NA	NA	Sampled semi-annually
EA-3	5/25/2004	29.62	NA	24.50	NA	5.12	
EA-3	8/26/2004	29.62	NA	25.34	NA	4.28	
EA-3	11/19/2004	29.62	NA	25.08	NA	4.54	
EA-3	2/25/2005	29.62	NA	22.89	NA	6.73	

Notes: TOC = Top of casing (resurveyed 9/24/97; benchmark 1F-126-69; elevation relative to mean sea level = 29.444 feet)

LPH = Liquid-phase hydrocarbons

Water Elevation = (TOC elevation - depth to water) + (LPH thickness x 0.75)

NA = Not applicable

All values are given in feet

msl = mean sea level

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
B-4	3/24/1993	1700	38	9.5	9.5	13	NA	NA	NA	NA	NA	NA	NA	
B-4	6/15/1993	1100	12	ND<0.3	2.2	1.5	NA	NA	NA	NA	NA	NA	NA	
B-4	9/13/1993	1200	28	18	11	11	NA	NA	NA	NA	NA	NA	NA	
B-4	11/3/1993	2400	14	ND<3.0	11	4.2	NA	NA	NA	NA	NA	NA	NA	
B-4	2/15/1994	1600	33	0.92	5.7	4.5	NA	NA	NA	NA	NA	NA	NA	
B-4	5/3/1994	990	9.7	1.1	2.1	1.1	NA	NA	NA	NA	NA	NA	NA	
B-4	8/2/1994	1100	6.1	0.85	2.4	1.1	NA	NA	NA	NA	NA	NA	NA	
B-4	11/1/1994	750	4.6	2.3	2.1	ND<0.6	NA	NA	NA	NA	NA	NA	NA	
B-4	3/15/1995	900	1.4	ND<0.3	2.6	ND<0.6	NA	NA	NA	NA	NA	NA	NA	
B-4	4/26/1995	350	1.1	ND<0.30	ND<0.30	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
B-4	8/1/1995	610	0.36	ND<0.30	1.3	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
B-4	10/30/1995	970	ND<0.60	1.0	2.1	1.5	NA	NA	NA	NA	NA	NA	NA	
B-4	1/30/1996	800	ND<0.30	1.2	2.9	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
B-4	5/2/1996	320	ND<0.30	ND<0.30	0.36	ND<0.60	32	NA	NA	NA	NA	NA	NA	
B-4	7/31/1996	500	4.2	ND<0.30	3.0	2.4	32	NA	NA	NA	NA	NA	NA	
B-4	11/6/1996	760	6.7	ND<0.60	2.9	3.3	66	NA	NA	NA	NA	NA	NA	
B-4	3/19/1997	280	ND<0.30	0.52	0.34	ND<0.60	52	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	5/27/1997	140	ND<0.30	ND<0.30	ND<0.30	ND<0.60	150	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	8/20/1997	500	4.7	0.44	1.1	1.5	47	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	11/26/1997	370	3.9	0.43	0.68	2.4	43	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	2/25/1998	140	1.3	ND<0.30	ND<0.30	1.0	180	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	5/12/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	150	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	7/22/1998	62	ND<0.30	ND<0.30	ND<0.30	ND<0.60	100	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	10/15/1998	450	ND<0.30	6.3	0.52	2.9	64	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	2/4/1999	77	0.73	ND<0.30	0.31	0.67	80	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	5/3/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	20	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	8/30/1999	100	1.1	ND<0.30	ND<0.30	0.62	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling
B-4	11/10/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling
B-4	2/2/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	6/8/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
B-4	9/13/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-4	12/18/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not sampled due to sampling error
B-4	3/22/2001	ND<50	0.30	1.5	0.34	1.9	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-4	6/7/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-4	9/18/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-4	12/13/2001	ND<50	0.35	2.1	0.52	3.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
B-4	3/28/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-4	6/7/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-4	9/18/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-4	12/30/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-4	3/20/2003	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-4	5/15/2003	ND<50	ND<0.500	ND<0.500	ND<0.500	ND<0.500	NA	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<25.0	ND<50.0	No purge sampling
B-4	8/12/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
B-4	11/20/2003	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-4	2/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
B-4	5/25/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-4	8/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
B-4	11/19/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-4	2/25/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
B-5	3/24/1993	1100	220	28	30	32	NA	NA	NA	NA	NA	NA	NA	
B-5	6/15/1993	1400	18	5.7	ND<5.0	9.0	NA	NA	NA	NA	NA	NA	NA	
B-5	9/13/1993	800	100	6.2	14	8.2	NA	NA	NA	NA	NA	NA	NA	
B-5	11/3/1993	2000	140	9.0	36	24	NA	NA	NA	NA	NA	NA	NA	
B-5	2/15/1994	1100	170	3.1	7.3	6.7	NA	NA	NA	NA	NA	NA	NA	
B-5	5/3/1994	260	45	1.2	2.9	24	NA	NA	NA	NA	NA	NA	NA	
B-5	8/2/1994	310	31	1.2	6.4	3.2	NA	NA	NA	NA	NA	NA	NA	
B-5	11/1/1994	460	29	0.98	3.8	2.5	NA	NA	NA	NA	NA	NA	NA	
B-5	3/15/1995	160	6.7	ND<0.3	ND<0.3	ND<0.6	NA	NA	NA	NA	NA	NA	NA	
B-5	4/26/1995	590	37	ND<1.5	3.0	ND<3.0	NA	NA	NA	NA	NA	NA	NA	
B-5	8/1/1995	190	9.5	ND<0.30	1.8	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
B-5	10/30/1995	390	22	ND<0.60	12	ND<1.2	NA	NA	NA	NA	NA	NA	NA	
B-5	1/30/1996	500	19	ND<0.75	11	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
B-5	5/2/1996	160	7.1	ND<0.30	0.34	ND<0.60	230	NA	NA	NA	NA	NA	NA	
B-5	7/31/1996	170	7.7	ND<0.30	2.2	ND<0.60	52	NA	NA	NA	NA	NA	NA	
B-5	11/6/1996	67	5.7	ND<0.30	3.4	ND<0.60	200	NA	NA	NA	NA	NA	NA	
B-5	3/19/1997	53	3.7	ND<0.30	ND<0.30	ND<0.60	230	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	5/27/1997	150	ND<0.30	ND<0.30	0.34	ND<0.60	73	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	8/20/1997	86	7.4	ND<0.30	5.4	ND<0.60	610	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	11/26/1997	ND<50	2.1	ND<0.30	0.50	ND<0.60	310	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	2/25/1998	58	ND<0.30	0.39	ND<0.30	ND<0.60	230	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	5/12/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	29	NA	NA	NA	NA	NA	NA	No purge sampling

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Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
B-5	7/22/1998	50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	85	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	10/15/1998	ND<50	0.33	0.85	ND<0.30	ND<0.60	92	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	2/4/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	310	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	5/3/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	8/30/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling
B-5	11/10/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling
B-5	2/2/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	6/8/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	9/13/2000	ND<50	0.37	0.43	0.34	1.2	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-5	12/18/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not sampled due to sampling error
B-5	3/22/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-5	6/7/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-5	9/18/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-5	12/13/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	8.6	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-5	3/28/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-5	6/7/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-5	9/18/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No purge sampling
B-5	12/30/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	0.76	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-5	3/20/2003	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-5	5/15/2003	ND<50	ND<0.500	ND<0.500	ND<0.500	ND<0.500	NA	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<25.0	ND<50.0	No purge sampling
B-5	8/12/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
B-5	11/20/2003	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-5	2/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
B-5	5/25/2004	ND<50	ND<2.0	2.1	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-5	8/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
B-5	11/19/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-5	2/25/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
B-6	3/24/1993	84000	6800	7900	2400	7600	NA	NA	NA	NA	NA	NA	NA	
B-6	6/15/1993	120000	6500	6400	2200	7400	NA	NA	NA	NA	NA	NA	NA	
B-6	9/13/1993	99000	6700	5400	2100	6100	NA	NA	NA	NA	NA	NA	NA	
B-6	11/3/1993	75000	5300	2300	1000	2800	NA	NA	NA	NA	NA	NA	NA	
B-6	2/15/1994	210000	11000	7700	3100	8200	NA	NA	NA	NA	NA	NA	NA	
B-6	5/3/1994	48000	6000	3300	1500	4100	NA	NA	NA	NA	NA	NA	NA	
B-6	8/2/1994	64000	6700	5000	2300	7200	NA	NA	NA	NA	NA	NA	NA	
B-6	11/1/1994	53000	5700	4200	2000	5800	NA	NA	NA	NA	NA	NA	NA	

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Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
B-6	3/15/1995	58000	6400	3500	2000	4,700	NA	NA	NA	NA	NA	NA	NA	
B-6	4/26/1995	61000	7000	3700	2100	4800	NA	NA	NA	NA	NA	NA	NA	
B-6	8/1/1995	54000	4700	3000	1900	5200	NA	NA	NA	NA	NA	NA	NA	
B-6	10/30/1995	71000	5800	3200	2100	4900	NA	NA	NA	NA	NA	NA	NA	
B-6	1/30/1996	67000	7300	3300	2100	4100	NA	NA	NA	NA	NA	NA	NA	
B-6	5/2/1996	51000	6900	3000	2000	3700	35000	NA	NA	NA	NA	NA	NA	
B-6	7/31/1996	31000	6300	2300	1700	3100	33000	NA	NA	NA	NA	NA	NA	
B-6	11/6/1996	38000	7200	2400	1800	3400	80000	NA	NA	NA	NA	NA	NA	
B-6	3/19/1997	4400	310	14	360	57	24000	NA	NA	NA	NA	NA	NA	No purge sampling
B-6	5/27/1997	3900	360	12	450	31	11000	NA	NA	NA	NA	NA	NA	No purge sampling
B-6	8/20/1997	7800	1300	90	680	120	18000	NA	NA	NA	NA	NA	NA	No purge sampling
B-6	11/26/1997	ND<13,000	410	75	100	ND<150	2000	NA	NA	NA	NA	NA	NA	No purge sampling
B-6	2/25/1998	1700	140	6.2	170	53	28000	NA	NA	NA	NA	NA	NA	No purge sampling
B-6	5/12/1998	3000	390	7.2	310	18	18000	NA	NA	NA	NA	NA	NA	No purge sampling
B-6	7/22/1998	3800	770	17	350	48	20000	NA	NA	NA	NA	NA	NA	No purge sampling
B-6	10/15/1998	6400	780	31	530	70	31000	NA	NA	NA	NA	NA	NA	No purge sampling
B-6	2/4/1999	7900	1500	240	620	240	20000	NA	NA	NA	NA	NA	NA	No purge sampling
B-6	5/3/1999	1000	97	5.0	ND<3.0	47	1700	NA	NA	NA	NA	NA	NA	No purge sampling
B-6	8/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not accessible due to construction activities
B-6	11/10/1999	1700	240	9.7	200	24	NA	38000	NA	NA	NA	NA	NA	No purge sampling
B-6	2/2/2000	1100	56	ND<6.0	75	ND<12	21,000	NA	NA	NA	NA	NA	NA	No purge sampling
B-6	6/8/2000	5700	1700	150	230	420	13000	13000	NA	NA	NA	NA	NA	No purge sampling
B-6	9/13/2000	1000	70	ND<3.0	56	ND<6.0	NA	35000	ND<2000	ND<2000	ND<2000	ND<20000	NA	No purge sampling
B-6	12/18/2000	4400	410	ND<100	290	590	NA	8100	ND<250	ND<250	ND<250	ND<2500	NA	No purge sampling/BTEX analysis by Method 8260B
B-6	3/22/2001	1200	18	7.9	44	110	NA	610	ND<50	ND<50	ND<50	ND<500	NA	No purge sampling
B-6	6/7/2001	1500	28	3.9	83	84	NA	2900	ND<250	ND<250	ND<250	ND<2500	NA	No purge sampling
B-6	9/18/2001	2900	41	10	240	98	NA	1100	ND<50	ND<50	ND<50	4800	NA	No purge sampling
B-6	12/13/2001	9700	250	9.5	480	1100	NA	2600	ND<100	ND<100	ND<100	2800	NA	No purge sampling
B-6	3/28/2002	5600	230	64	260	250	NA	1300	ND<100	ND<100	ND<100	3800	NA	No purge sampling
B-6	6/7/2002	3700	270	23	280	120	NA	1200	ND<100	ND<100	ND<100	3200	NA	No purge sampling
B-6	9/18/2002	3600	180	14	130	140	NA	600	ND<100	ND<100	ND<100	1500	NA	No purge sampling
B-6	12/30/2002	43000	540	ND<150	270	ND<300	NA	1500	ND<100	ND<100	ND<100	1800	NA	No purge sampling
B-6	3/20/2003	5100	170	7.7	14	130	NA	260	ND<10	ND<10	ND<10	ND<100	ND<300	No purge sampling
B-6	5/15/2003	5400	152	6.35	55.2	76.6	NA	580	ND<20.0	ND<20.0	ND<20.0	ND<500	ND<1000	No purge sampling

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
B-6	8/12/2003	6500	580	ND<20	290	130	NA	1600	ND<50	ND<50	64	650	ND<1500	
B-6	11/20/2003	5900	660	23	420	150	NA	1600	ND<50	ND<50	86	540	ND<1500	No purge sampling
B-6	2/24/2004	3500	490	ND<20	310	68	NA	570	ND<50	ND<50	ND<50	730	ND<1500	No purge sampling
B-6	5/25/2004	6700	720	42	880	110	NA	1200	ND<50	ND<50	58	800	ND<1500	No purge sampling
B-6	8/26/2004	5600	470	22	930	47	NA	740	ND<50	ND<50	ND<50	ND<500	ND<1500	No purge sampling
B-6	11/19/2004	6400	440	ND<40	820	ND<80	NA	700	ND<100	ND<100	ND<100	ND<1000	ND<3000	No purge sampling
B-6	2/25/2005	1900	200	ND<10	110	ND<20	NA	340	ND<25	ND<25	ND<25	550	ND<750	No purge sampling
B-8	8/22/1996	480	5.8	ND<0.30	0.86	ND<0.60	170	NA	NA	NA	NA	NA	NA	
B-8	11/6/1996	1900	5.9	1.2	14	ND<1.5	310	NA	NA	NA	NA	NA	NA	
B-8	3/19/1997	1100	1.4	3.6	2.1	1.3	260	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	5/27/1997	440	ND<0.30	1.6	ND<0.30	ND<0.60	140	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	8/20/1997	1200	0.34	3.3	1.5	1.8	100	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	11/26/1997	620	7.0	3.6	1.7	0.75	140	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	2/25/1998	800	1.3	2.1	ND<0.30	ND<0.60	94	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	5/12/1998	400	1.8	ND<0.30	0.77	2.6	99	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	7/22/1998	260	1.1	ND<0.30	ND<0.30	0.94	150	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	10/15/1998	1500	13	11	71	7.5	650	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	2/4/1999	1000	35	2.9	3.3	4.8	380	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	5/3/1999	670	12	2.1	0.63	5.1	120	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	8/30/1999	570	10	ND<0.30	0.52	4.7	NA	100	NA	NA	NA	NA	NA	No purge sampling
B-8	11/10/1999	530	11	5.6	0.74	4.5	NA	1300	NA	NA	NA	NA	NA	No purge sampling
B-8	2/2/2000	810	0.73	1.0	2.6	8.3	140	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	6/8/2000	390	1.9	ND<0.30	0.56	1.4	12	NA	NA	NA	NA	NA	NA	No purge sampling
B-8	9/13/2000	580	11	1.7	0.30	ND<0.60	NA	46	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-8	12/18/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not sampled due to sampling error
B-8	3/22/2001	520	ND<0.30	10	0.89	2.6	NA	73	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-8	6/7/2001	520	10	0.80	0.31	1.2	NA	71	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-8	9/18/2001	810	ND<3.0	12	3.8	ND<6.0	NA	82	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-8	12/13/2001	200	0.76	3.4	0.77	ND<0.60	NA	84	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-8	3/28/2002	350	3.7	0.39	ND<0.30	ND<0.60	NA	38	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-8	6/7/2002	360	0.92	9.7	2.9	ND<0.60	NA	28	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-8	9/18/2002	270	0.60	ND<0.30	0.66	0.84	NA	36	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-8	12/30/2002	170	0.44	0.32	ND<0.30	1.0	NA	29	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-8	3/20/2003	120	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	11	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-8	5/15/2003	130	ND<0.500	ND<0.500	ND<0.500	ND<0.500	NA	6.86	ND<1.00	ND<1.00	ND<1.00	ND<25.0	ND<50.0	No purge sampling

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
B-8	8/12/2003	95	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	8.9	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
B-8	11/20/2003	170	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	9.3	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-8	2/24/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-8	5/25/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-8	8/26/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-8	11/19/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-8	2/25/2005	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-9	8/22/1996	45000	5300	3700	3300	4200	65000	NA	NA	NA	NA	NA	NA	
B-9	11/6/1996	ND<100,000	5,500	1700	2500	5000	130000	NA	NA	NA	NA	NA	NA	
B-9	3/19/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Not sampled; well not accessible
B-9	5/27/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Not sampled; well not accessible
B-9	8/20/1997	24000	3400	220	2600	1400	46000	NA	NA	NA	NA	NA	NA	No purge sampling
B-9	11/26/1997	30000	5700	410	2000	2700	120000	NA	NA	NA	NA	NA	NA	No purge sampling
B-9	2/25/1998	19000	3500	150	1500	1600	77000	NA	NA	NA	NA	NA	NA	No purge sampling
B-9	5/12/1998	24000	4100	200	1900	2300	50000	NA	NA	NA	NA	NA	NA	No purge sampling
B-9	7/22/1998	16000	3800	120	1500	1200	71000	NA	NA	NA	NA	NA	NA	No purge sampling
B-9	10/15/1998	16000	3200	ND<30	1600	830	39000	NA	NA	NA	NA	NA	NA	No purge sampling
B-9	2/4/1999	6100	1100	14	580	50	19000	NA	NA	NA	NA	NA	NA	No purge sampling
B-9	5/3/1999	3600	720	14	490	ND<12	12000	NA	NA	NA	NA	NA	NA	No purge sampling
B-9	8/30/1999	4800	570	ND<15	1000	54	NA	23000	NA	NA	NA	NA	NA	No purge sampling
B-9	11/10/1999	13000	2600	79	1400	270	NA	41000	NA	NA	NA	NA	NA	No purge sampling
B-9	2/2/2000	12000	1800	57	1200	360	27000	35000	NA	NA	NA	NA	NA	No purge sampling
B-9	6/8/2000	4600	850	ND<7.5	730	ND<15	12000	NA	NA	NA	NA	NA	NA	No purge sampling
B-9	9/13/2000	5200	530	19	1200	28	NA	14000	ND<500	ND<500	ND<500	ND<5000	NA	No purge sampling
B-9	12/18/2000	3200	190	ND<100	230	ND<100	NA	8500	ND<250	ND<250	ND<250	ND<2500	NA	No purge sampling/BTEX analysis by Method 8260B
B-9	3/22/2001	3000	260	15	220	ND<30	NA	7800	ND<500	ND<500	ND<500	ND<5000	NA	No purge sampling
B-9	6/7/2001	3900	240	ND<15	110	ND<30	NA	7400	ND<500	ND<500	ND<500	ND<5000	NA	No purge sampling
B-9	9/18/2001	3300	210	31	44	ND<30	NA	4900	ND<120	ND<120	ND<120	ND<1200	NA	No purge sampling
B-9	12/13/2001	3800	290	ND<15	67	ND<30	NA	2800	ND<120	ND<120	ND<120	ND<1200	NA	No purge sampling
B-9	3/28/2002	2800	110	45	23	ND<30	NA	2400	ND<120	ND<120	ND<120	ND<1200	NA	No purge sampling
B-9	6/7/2002	2900	40	32	14	ND<6.0	NA	2200	ND<20	ND<20	36	200	NA	No purge sampling
B-9	9/18/2002	3100	95	5.1	19	ND<6.0	NA	1100	ND<120	ND<120	ND<120	1600	NA	No purge sampling
B-9	12/31/2002	1100	14	2.9	3.5	1.4	NA	120	ND<10	ND<10	ND<10	1900	NA	No purge sampling
B-9	3/20/2003	1800	12	ND<4.0	ND<4.0	ND<8.0	NA	140	ND<10	ND<10	ND<10	1500	ND<300	No purge sampling

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
B-9	5/15/2003	820	6.63	ND<0.500	ND<0.500	ND<0.500	NA	342	ND<5.00	ND<5.00	ND<5.00	6190	ND<250	No purge sampling
B-9	8/12/2003	940	13	ND<4.0	ND<4.0	ND<8.0	NA	240	ND<10	ND<10	ND<10	1000	ND<300	
B-9	11/20/2003	1000	ND<4.0	ND<4.0	ND<4.0	ND<8.0	NA	150	ND<10	ND<10	ND<10	990	ND<300	No purge sampling
B-9	2/24/2004	750	7.3	ND<4.0	ND<4.0	ND<8.0	NA	71	ND<10	ND<10	ND<10	1300	ND<300	No purge sampling
B-9	5/25/2004	1400	11	ND<4.0	ND<4.0	ND<8.0	NA	62	ND<10	ND<10	ND<10	2000	ND<300	No purge sampling
B-9	8/26/2004	1000	ND<20	ND<20	ND<20	ND<40	NA	ND<50	ND<50	ND<50	ND<50	2100	ND<1500	No purge sampling
B-9	11/19/2004	130	ND<50	ND<50	ND<50	ND<100	NA	ND<120	ND<120	ND<120	ND<120	1300	ND<3800	No purge sampling
B-9	2/25/2005	65	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	15	ND<5.0	ND<5.0	ND<5.0	150	ND<150	No purge sampling
B-10	11/1/1994	16000	1400	23	670	66	NA	NA	NA	NA	NA	NA	NA	
B-10	3/15/1995	25000	3600	160	1100	240	NA	NA	NA	NA	NA	NA	NA	
B-10	4/26/1995	37000	4200	370	1100	1400	NA	NA	NA	NA	NA	NA	NA	
B-10	8/1/1995	10000	710	ND<30	85	ND<60	NA	NA	NA	NA	NA	NA	NA	
B-10	10/30/1995	12000	620	ND<30	460	ND<60	NA	NA	NA	NA	NA	NA	NA	
B-10	1/30/1996	9700	180	ND<30	200	ND<60	NA	NA	NA	NA	NA	NA	NA	
B-10	5/2/1996	1900	22	2.0	33	ND<2.0	11000	NA	NA	NA	NA	NA	NA	
B-10	7/31/1996	2600	5.6	ND<0.60	39	5.2	2600	NA	NA	NA	NA	NA	NA	
B-10	11/6/1996	5000	54	ND<6.0	160	12	1900	NA	NA	NA	NA	NA	NA	
B-10	3/19/1997	2500	28	ND<6.0	88	ND<12	2100	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	5/27/1997	4000	76	5.5	260	13	6100	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	8/20/1997	4000	24	4.2	88	5.9	2500	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	11/26/1997	650	ND<0.30	ND<0.30	6.9	0.94	810	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	2/25/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	14	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	5/12/1998	620	0.80	0.97	8.0	0.74	230	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	7/22/1998	2500	5.5	ND<3.0	38	ND<6.0	660	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	10/15/1998	2200	ND<0.60	15	26	8.1	100	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	2/4/1999	200	1.6	0.37	ND<0.30	ND<0.60	17	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	5/3/1999	690	1.9	1.1	3.0	1.0	310	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	8/30/1999	1100	6.7	ND<0.30	3.0	9.9	NA	180	NA	NA	NA	NA	NA	No purge sampling
B-10	11/10/1999	840	0.32	8.4	2.5	2.5	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling
B-10	2/2/2000	1100	13	ND<3.0	3.1	ND<6.0	ND<100	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	6/8/2000	950	11	4.5	ND<3.0	ND<6.0	310	NA	NA	NA	NA	NA	NA	No purge sampling
B-10	9/13/2000	990	12	1.8	1.5	1.3	NA	490	ND<13	ND<13	ND<13	ND<130	NA	No purge sampling
B-10	12/18/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not sampled due to sampling error
B-10	3/22/2001	670	ND<0.30	10	0.94	2.4	NA	7.3	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-10	6/7/2001	540	7.5	1.3	1.0	0.67	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
B-10	9/18/2001	700	ND<0.60	10	2.2	2.7	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-10	12/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	City would not allow street sampling
B-10	3/28/2002	450	0.58	1.9	ND<30	0.78	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-10	6/7/2002	830	1.4	13	6.0	2.7	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-10	9/18/2002	590	1.1	1.9	0.69	0.86	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
B-10	12/30/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	City would not allow street sampling
B-10	3/20/2003	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
B-10	5/15/2003	370	ND<0.500	ND<0.500	ND<0.500	ND<0.500	NA	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND>25.0	ND<50.0	
B-10	8/12/2003	480	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
B-10	11/20/2003	570	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-10	2/24/2004	380	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-10	5/25/2004	180	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-10	8/26/2004	430	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-10	11/19/2004	620	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-10	2/25/2005	140	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
B-11	11/1/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well destroyed during sewer construction
EA-1	9/18/1992	2300	54	5.0	72	52	NA	NA	NA	NA	NA	NA	NA	
EA-1	3/24/1993	35000	2500	2300	890	3100	NA	NA	NA	NA	NA	NA	NA	
EA-1	6/15/1993	13000	290	19	580	69	NA	NA	NA	NA	NA	NA	NA	
EA-1	9/13/1993	21000	ND<0.3	87	860	ND<0.9	NA	NA	NA	NA	NA	NA	NA	
EA-1	11/3/1993	13000	69	13	630	34	NA	NA	NA	NA	NA	NA	NA	
EA-1	2/15/1994	10000	240	19	580	42	NA	NA	NA	NA	NA	NA	NA	
EA-1	5/3/1994	4100	170	4.7	300	5.1	NA	NA	NA	NA	NA	NA	NA	
EA-1	8/2/1994	3900	62	3.7	210	9.6	NA	NA	NA	NA	NA	NA	NA	
EA-1	11/1/1994	5000	24	ND<1.5	76	ND<3.0	NA	NA	NA	NA	NA	NA	NA	
EA-1	3/15/1995	4000	110	ND<6.0	260	ND<12	NA	NA	NA	NA	NA	NA	NA	
EA-1	4/26/1995	4900	140	ND<6.0	380	ND<12	NA	NA	NA	NA	NA	NA	NA	
EA-1	8/1/1995	4500	53	ND<0.30	180	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
EA-1	10/30/1995	6200	90	ND<6.0	240	ND<12	NA	NA	NA	NA	NA	NA	NA	
EA-1	1/30/1996	3500	43	1.7	150	4.3	NA	NA	NA	NA	NA	NA	NA	
EA-1	5/2/1996	3800	58	4.5	160	ND<2.0	42	NA	NA	NA	NA	NA	NA	
EA-1	7/31/1996	2300	25	ND<0.75	97	8.7	29	NA	NA	NA	NA	NA	NA	
EA-1	11/6/1996	3000	49	ND<1.5	190	5.1	110	NA	NA	NA	NA	NA	NA	
EA-1	3/19/1997	380	4.7	0.44	23	ND<0.60	110	NA	NA	NA	NA	NA	NA	No purge sampling
EA-1	5/27/1997	2300	32	2.4	180	3.3	98	NA	NA	NA	NA	NA	NA	No purge sampling

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
EA-1	8/20/1997	690	2.2	7.2	6.7	ND<3.0	69	NA	NA	NA	NA	NA	NA	No purge sampling
EA-1	11/26/1997	600	3.6	1.4	2.9	ND<0.60	62	NA	NA	NA	NA	NA	NA	No purge sampling
EA-1	2/25/1998	1100	14	1.3	7.9	4.6	150	NA	NA	NA	NA	NA	NA	No purge sampling
EA-1	5/12/1998	970	8.3	ND<0.60	7.3	3.4	63	NA	NA	NA	NA	NA	NA	No purge sampling
EA-1	7/22/1998	90	0.37	ND<0.30	ND<0.30	ND<0.60	27	NA	NA	NA	NA	NA	NA	No purge sampling
EA-1	10/15/1998	980	1.3	13	4.2	4.4	21	NA	NA	NA	NA	NA	NA	No purge sampling
EA-1	2/4/1999	780	5.6	0.71	6.0	4.9	110	NA	NA	NA	NA	NA	NA	No purge sampling
EA-1	5/3/1999	5000	930	160	430	210	33000	NA	NA	NA	NA	NA	NA	No purge sampling
EA-1	8/30/1999	260	2.6	ND<0.30	1.6	17	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling
EA-1	11/10/1999	1000	8.3	4.3	3.7	5.4	NA	19	NA	NA	NA	NA	NA	No purge sampling
EA-1	2/2/2000	530	6.0	0.96	3.0	5.0	25	NA	NA	NA	NA	NA	NA	No purge sampling
EA-1	6/8/2000	430	0.36	0.80	1.4	4.3	25	NA	NA	NA	NA	NA	NA	No purge sampling
EA-1	9/13/2000	1000	1.3	6.8	12	ND<0.60	NA	12	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-1	12/18/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not sampled due to sampling error
EA-1	3/22/2001	710	0.98	5.7	26	4.4	NA	13	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-1	6/7/2001	510	9.5	1.5	0.51	1.1	NA	9.8	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-1	9/18/2001	840	ND<0.60	2.5	2.9	ND<1.2	NA	9.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-1	12/13/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	6.3	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-1	3/28/2002	160	ND<0.30	2.6	0.48	1.2	NA	5.4	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-1	9/18/2002	340	0.62	0.51	ND<0.30	ND<0.60	NA	7.5	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-1	12/30/2002	150	1.1	ND<0.30	ND<0.30	0.71	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-1	3/20/2003	210	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
EA-1	5/15/2003	250	ND<0.500	ND<0.500	ND<0.500	ND<0.500	NA	1.67	ND<1.00	ND<1.00	ND<1.00	ND<25.0	ND<50.0	No purge sampling
EA-1	8/12/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
EA-1	11/20/2003	100	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
EA-1	2/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
EA-1	5/25/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
EA-1	8/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
EA-1	11/19/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
EA-1	2/25/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
EA-2	9/18/1992	9100	1300	720	360	890	NA	NA	NA	NA	NA	NA	NA	
EA-2	3/24/1993	7100	170	64	350	160	NA	NA	NA	NA	NA	NA	NA	
EA-2	6/15/1993	48000	2600	5900	2800	14000	NA	NA	NA	NA	NA	NA	NA	
EA-2	9/13/1993	81000	4100	2600	3600	9000	NA	NA	NA	NA	NA	NA	NA	
EA-2	11/3/1993	97000	4200	1800	1300	2200	NA	NA	NA	NA	NA	NA	NA	

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

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Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
EA-2	2/15/1994	74000	3000	4600	3400	5700	NA	NA	NA	NA	NA	NA	NA	
EA-2	5/3/1994	46000	3600	2500	3700	6700	NA	NA	NA	NA	NA	NA	NA	
EA-2	8/2/1994	48000	790	1900	4100	10000	NA	NA	NA	NA	NA	NA	NA	
EA-2	11/1/1994	44000	2800	1200	3400	3100	NA	NA	NA	NA	NA	NA	NA	
EA-2	3/15/1995	30000	1800	710	2500	900	NA	NA	NA	NA	NA	NA	NA	
EA-2	4/26/1995	30000	1800	830	2700	900	NA	NA	NA	NA	NA	NA	NA	
EA-2	8/1/1995	22000	1000	490	3700	950	NA	NA	NA	NA	NA	NA	NA	
EA-2	10/30/1995	57000	3500	2700	4000	7000	NA	NA	NA	NA	NA	NA	NA	
EA-2	1/30/1996	74000	6800	4100	2700	4000	NA	NA	NA	NA	NA	NA	NA	
EA-2	5/2/1996	16000	1800	680	1700	1200	27000	NA	NA	NA	NA	NA	NA	
EA-2	7/31/1996	31000	1600	610	4500	4900	3200	NA	NA	NA	NA	NA	NA	
EA-2	11/6/1996	54000	8600	5400	2300	5500	76000	NA	NA	NA	NA	NA	NA	
EA-2	3/19/1997	15000	2500	740	1100	2100	70000	NA	NA	NA	NA	NA	NA	No purge sampling
EA-2	5/27/1997	20000	2100	1100	1700	3000	22000	27,000	NA	NA	NA	NA	NA	No purge sampling
EA-2	8/20/1997	37000	3000	1500	3700	7000	9300	NA	NA	NA	NA	NA	NA	No purge sampling
EA-2	11/26/1997	36000	4900	6800	2300	7200	37000	NA	NA	NA	NA	NA	NA	No purge sampling
EA-2	2/25/1998	4000	610	120	330	670	46000	NA	NA	NA	NA	NA	NA	No purge sampling
EA-2	5/12/1998	12000	2000	270	1100	1800	27000	NA	NA	NA	NA	NA	NA	No purge sampling
EA-2	7/22/1998	23000	1900	190	3,800	2900	7000	NA	NA	NA	NA	NA	NA	No purge sampling
EA-2	10/15/1998	36000	4800	1600	2600	5000	54000	NA	NA	NA	NA	NA	NA	No purge sampling
EA-2	2/4/1999	13000	3000	100	1600	150	29000	NA	NA	NA	NA	NA	NA	No purge sampling
EA-2	5/3/1999	780	1.7	1.9	5.1	0.63	51	NA	NA	NA	NA	NA	NA	No purge sampling
EA-2	8/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not accessible due to construction activities
EA-2	11/10/1999	13000	2600	140	1300	510	NA	26000	NA	NA	NA	NA	NA	No purge sampling
EA-2	2/2/2000	4100	670	73	340	140	20000	NA	NA	NA	NA	NA	NA	No purge sampling
EA-2	6/8/2000	8000	1100	76	1400	79	9000	NA	NA	NA	NA	NA	NA	No purge sampling
EA-2	9/13/2000	11000	2700	100	1,500	130	NA	13000	ND<500	ND<500	ND<500	ND<5000	NA	No purge sampling
EA-2	12/18/2000	3900	540	170	390	430	NA	7600	ND<250	ND<250	ND<250	ND<2500	NA	No purge sampling/BTEX analysis by Method 8260B
EA-2	3/22/2001	6500	1300	55	820	61	NA	8200	ND<500	ND<500	ND<500	ND<5000	NA	No purge sampling
EA-2	6/7/2001	12000	2100	190	1400	300	NA	8600	ND<500	ND<500	ND<500	ND<5000	NA	No purge sampling
EA-2	9/18/2001	8100	1100	46	980	ND<60	NA	8800	ND<500	ND<500	ND<500	ND<5000	NA	No purge sampling
EA-2	12/13/2001	7400	850	47	810	180	NA	8900	ND<500	ND<500	ND<500	ND<5000	NA	No purge sampling
EA-2	3/28/2002	6700	930	62	860	ND<60	NA	5300	ND<500	ND<500	ND<500	ND<5000	NA	No purge sampling
EA-2	6/7/2002	6500	850	38	1000	51	NA	3700	ND<25	ND<25	93	790	NA	No purge sampling

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

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Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
EA-2	9/18/2002	11000	890	110	1200	260	NA	2500	ND<25	ND<25	78	680	NA	No purge sampling
EA-2	12/30/2002	6400	810	60	1000	160	NA	1400	ND<25	ND<25	38	660	NA	No purge sampling
EA-2	3/20/2003	6100	640	55	1200	95	NA	1300	ND<100	ND<100	ND<100	ND<1000	ND<3000	No purge sampling
EA-2	5/15/2003	8200	722	53.8	1040	77.3	NA	2580	ND<100	ND<100	ND<100	ND<2500	ND<5000	No purge sampling
EA-2	8/12/2003	6000	690	47	980	ND<80	NA	1500	ND<100	ND<100	ND<100	1000	ND<3000	
EA-2	11/20/2003	7700	760	51	1100	ND<80	NA	1200	ND<100	ND<100	ND<100	ND<1000	ND<3000	No purge sampling
EA-2	2/24/2004	2800	460	ND<40	560	ND<80	NA	1100	ND<100	ND<100	ND<100	1200	ND<3000	No purge sampling
EA-2	5/25/2004	1800	220	ND<20	280	ND<40	NA	890	ND<50	ND<50	ND<50	ND<500	ND<1500	No purge sampling
EA-2	8/26/2004	830	120	ND<40	190	ND<80	NA	800	ND<100	ND<100	ND<100	ND<1000	ND<3000	No purge sampling
EA-2	11/19/2004	3200	250	ND<10	170	ND<20	NA	540	ND<25	ND<25	35	460	ND<750	No purge sampling
EA-2	2/25/2005	5200	400	ND<40	550	ND<80	NA	770	ND<100	ND<100	ND<100	1300	ND<3000	No purge sampling
EA-3	9/18/1992	2700	300	63	180	170	NA	NA	NA	NA	NA	NA	NA	
EA-3	3/24/1993	9400	1300	350	490	280	NA	NA	NA	NA	NA	NA	NA	
EA-3	6/15/1993	30000	1000	270	190	400	NA	NA	NA	NA	NA	NA	NA	
EA-3	9/13/1993	8600	210	45	130	120	NA	NA	NA	NA	NA	NA	NA	
EA-3	11/3/1993	10000	520	130	200	160	NA	NA	NA	NA	NA	NA	NA	
EA-3	2/15/1994	12000	420	55	140	ND<60	NA	NA	NA	NA	NA	NA	NA	
EA-3	5/3/1994	16000	1100	150	380	330	NA	NA	NA	NA	NA	NA	NA	
EA-3	8/2/1994	8600	660	23	330	26	NA	NA	NA	NA	NA	NA	NA	
EA-3	11/1/1994	2100	80	9.8	58	8.5	NA	NA	NA	NA	NA	NA	NA	
EA-3	3/15/1995	5800	210	41	110	53	NA	NA	NA	NA	NA	NA	NA	
EA-3	4/26/1995	12000	480	110	190	130	NA	NA	NA	NA	NA	NA	NA	
EA-3	8/1/1995	2400	34	ND<6.0	49	ND<12	NA	NA	NA	NA	NA	NA	NA	
EA-3	10/30/1995	1700	40	4.0	24	7.1	NA	NA	NA	NA	NA	NA	NA	
EA-3	1/30/1996	4600	120	ND<15	69	ND<30	NA	NA	NA	NA	NA	NA	NA	
EA-3	5/2/1996	950	34	0.96	16	4.1	1800	NA	NA	NA	NA	NA	NA	
EA-3	7/31/1996	600	9.5	ND<0.30	5.6	0.67	350	NA	NA	NA	NA	NA	NA	
EA-3	11/6/1996	3000	210	26	170	87	6500	NA	NA	NA	NA	NA	NA	
EA-3	3/19/1997	130	2.1	0.47	0.56	ND<0.60	4200	NA	NA	NA	NA	NA	NA	No purge sampling
EA-3	5/27/1997	920	ND<0.30	2.0	16	ND<0.60	3200	NA	NA	NA	NA	NA	NA	No purge sampling
EA-3	8/20/1997	300	1.7	ND<0.30	0.34	0.62	2000	NA	NA	NA	NA	NA	NA	No purge sampling
EA-3	11/26/1997	1500	100	4.1	55	5.3	2500	NA	NA	NA	NA	NA	NA	No purge sampling
EA-3	2/25/1998	570	6.6	0.99	2.2	3.5	2100	NA	NA	NA	NA	NA	NA	No purge sampling
EA-3	5/12/1998	550	5.6	0.55	5.0	3.4	500	NA	NA	NA	NA	NA	NA	No purge sampling
EA-3	7/22/1998	330	1.6	ND<0.30	ND<0.30	ND<0.60	11	NA	NA	NA	NA	NA	NA	No purge sampling

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 6131
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Costa Mesa, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
EA-3	10/15/1998	330	4.8	12	2.7	1.1	150	NA	NA	NA	NA	NA	NA	No purge sampling
EA-3	2/4/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	200	NA	NA	NA	NA	NA	NA	No purge sampling
EA-3	5/3/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
EA-3	8/30/1999	100	0.47	ND<0.30	0.41	0.81	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling
EA-3	11/10/1999	1800	61	14	180	23	NA	190	NA	NA	NA	NA	NA	No purge sampling
EA-3	2/2/2000	720	14	2.7	22	4.1	590	NA	NA	NA	NA	NA	NA	No purge sampling
EA-3	6/8/2000	130	1.6	ND<0.30	ND<0.30	1.1	30	NA	NA	NA	NA	NA	NA	No purge sampling
EA-3	9/13/2000	300	ND<0.30	0.37	ND<0.30	ND<0.60	NA	130	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-3	12/18/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not sampled due to sampling error
EA-3	3/22/2001	230	ND<0.30	4.9	ND<0.30	0.76	NA	38	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-3	6/7/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-3	9/18/2001	220	0.73	2.2	0.43	0.90	NA	12	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-3	12/13/2001	250	0.31	ND<0.30	0.37	1.7	NA	20	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-3	3/28/2002	210	ND<0.30	0.53	0.49	ND<60	NA	24	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-3	6/7/2002	240	0.43	9.1	0.80	3.6	NA	9.6	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-3	9/18/2002	390	1.2	2.7	0.56	2.2	NA	160	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-3	12/30/2002	210	1.4	ND<0.30	0.38	0.96	NA	190	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
EA-3	3/20/2003	210	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	17	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
EA-3	5/15/2003	240	0.550	ND<0.500	6.88	ND<0.500	NA	3.54	ND<1.00	ND<1.00	ND<1.00	ND<25.0	ND<50.0	No purge sampling
EA-3	8/12/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
EA-3	11/20/2003	310	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	5.2	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
EA-3	2/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
EA-3	5/25/2004	ND<50	ND<2.0	2.4	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
EA-3	8/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
EA-3	11/19/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
EA-3	2/25/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually
Trip Blank	4/26/1995	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
Trip Blank	8/1/1995	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
Trip Blank	10/30/1995	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
Trip Blank	1/30/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
Trip Blank	5/2/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	7/31/1996	ND<50	ND<0.30	1.8	0.37	3.9	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	11/6/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	3/19/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	5/27/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
Trip Blank	8/20/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	11/26/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	2/25/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	5/12/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	7/22/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	10/15/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	2/4/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	5/3/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	8/30/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	NA	NA	NA	NA	NA	
Trip Blank	11/10/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	NA	NA	NA	NA	NA	
Trip Blank	2/2/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	6/8/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	9/13/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	12/18/2000	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<2.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	BTEX analysis by Method 8260B
Trip Blank	3/22/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	6/7/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	9/18/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	12/13/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	3/28/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	6/7/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	9/18/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	12/30/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	3/20/2003	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
Trip Blank	5/15/2003	ND<50	ND<0.500	ND<0.500	ND<0.500	ND<0.500	NA	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND>25.0	ND<50.0	
Trip Blank	8/12/2003	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
Trip Blank	11/20/2003	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
Trip Blank	2/24/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
Trip Blank	5/25/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
Trip Blank	8/26/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
Trip Blank	11/19/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
Trip Blank	2/25/2005	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	

TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 6131
3201 Harbor Blvd.
Costa Mesa, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments

Notes:
µg/L = Micrograms per liter
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
TBA = Tertiary butanol
NA = Not analyzed
ND<Number = Not detected at or above stated reporting limit

BTEX = Benzene, toluene, ethylbenzene, and xylenes
Note: DIPE, ETBE, TAME, TBA, and Ethanol analyses by EPA 8260

ATTACHMENT A

OCHCA Letter Dated January 11, 2005

COUNTY OF ORANGE
HEALTH CARE AGENCY

REGULATORY HEALTH SERVICES
ENVIRONMENTAL HEALTH

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DIRECTOR

MIKE SPURGEON
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FAX: (714) 754-1768
E-MAIL: environhealth@hca.co.orange.ca.us

Excellence
Integrity
Service

JAN 25 2005

January 11, 2005

Darrell Fah
ARCO Products Company
4 Centerpointe Drive
La Palma, CA 90623-1066

Subject: **Atlantic Richfield Company Quarterly Update Report - Fourth Quarter 2004**

RE: ARCO Station #6131
3201 Harbor Blvd.
Costa Mesa, CA 92626
OCHCA Case #92UT12

Dear Mr. Fah:

This Agency has reviewed the subject report dated January 3, 2005 prepared by Delta Environmental Consultants, Inc. Based on the included vapor extraction system data, it appears that the system has reached asymptotic conditions. Therefore, a workplan for verification soil sampling activities must be submitted to this Agency for review and approval prior to implementation.

If you have any questions, please call me at (714) 433-6254.

Sincerely,

Arghavan Rashidi-Fard

Arghavan Rashidi-Fard
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health

cc: Valerie Jahn-Bull, Santa Ana Regional Water Quality Control Board
Steve P. Pence, Delta Environmental Consultants, Inc.