Delta
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October 4, 2005

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

Sent by UPS

Subject: Quarterly Update Report Submittal

Dear Ms. Rashidi-Fard:

On behalf of Atlantic Richfield Company, Delta Environmental Consultants, Inc. is submitting the enclosed Quarterly Update Report for the Third Quarter 2005. The enclosed quarterly report was prepared for the following ARCO Facility:

ARCO Facility No.	OCHCA Case No.	Location
6131	92UT12	3201 Harbor Boulevard, Costa Mesa, California

If you have any questions, please contact the undersigned at (949) 860-0204.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

PROFESSIONAL GEOLOGIST
DEAN A. RICHESIN
No.3587
STATE OF CALIFORNIA

Steve P. Pence
Project Manager

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

Enclosure: Atlantic Richfield Company Quarterly Update Report

cc: Mr. Darrell Fah, Atlantic Richfield Company, La Palma, California
Ms. Valerie Jahn-Bull, SARWQCB, Riverside, California
Mr. Fabio Minervini, England Geosystem, Inc., Irvine, California

(c:coverletter\1973.doc)

A member of:
Inogen Environmental Alliance

ATLANTIC RICHFIELD COMPANY QUARTERLY UPDATE REPORT
THIRD QUARTER 2005
OCTOBER 4, 2005

Facility No.:	6131	Address:	3201 Harbor Boulevard, Costa Mesa, California
Atlantic Richfield Company Environmental Business Manager/Phone No.:			Mr. Darrell Fah / (714) 378-5105
Consulting Co./Contact Person/Phone No.:			Delta Environmental / Mr. Steve P. Pence / (949) 860-0204
Primary Agency/Contact Person/Regulatory ID No.:			Orange County Health Care Agency (OCHCA)/ Ms. Arghavan Rashidi-Fard / 92UT12
Other Agencies to Receive Copies:			California Regional Water Quality Control Board - Santa Ana Region (CRWQCB-SA) / Ms. Valerie Jahn-Bull

WORK PERFORMED THIS QUARTER (Third - 2005):

1. Submitted Second Quarter 2005 *Quarterly Update Report* dated July 11, 2005.
2. Conducted groundwater monitoring/sampling on August 19, 2005 (see attached data). No purge sampling was conducted at wells B-6, B-8, B-9, B-10, EA-2. Wells B-4, B-5, EA-1, and EA-3 were not sampled during the third quarter; they are sampled semi-annually. The collected samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA method 8015. The samples were also analyzed for benzene, toluene, ethyl-benzene, total xylenes (BTEX, collectively), methyl-tertiary butyl ether (MTBE), di-isopropyl ether, (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butanol (TBA) and ethanol by EPA method 8260B. Laboratory report and chain-of-custody documentation are presented in Attachment B.
3. On September 6, 2005, the field work for direct push borings completed as described in the *Work Plan for Verification Soil Sampling*, dated April 8, 2005.

WORK PROPOSED FOR THE NEXT QUARTER (Fourth - 2005):

1. Submit Third Quarter 2005 *Quarterly Update Report* to the OCHCA within 45 days following the third quarter 2005 groundwater monitoring and sampling event.
2. Submit *Verification Soil Sample Report.*
3. Evaluate rebound potential of soil vapor conditions at the Site.

Current Phase of Project:			Remediation – AS/SVE	
Frequency of Sampling:			Groundwater – Quarterly; Vapor – Monthly	
Frequency of Monitoring:			Groundwater – Quarterly; Vapor – Weekly	
Permits for Discharge (No.):			SCAQMD (F25888 A/N 365314)	
Approximate Depth to Groundwater:			21.71 – 24.86 feet Measured X Estimated	
Groundwater Gradient:	0.003 ft/ft	(Magnitude)	Southwest	(Direction)

ATLANTIC RICHFIELD COMPANY QUARTERLY UPDATE REPORT
THIRD QUARTER 2005
OCTOBER 4, 2005

Facility No.: 6131 Address: 3201 Harbor Boulevard, Costa Mesa, California

DISCUSSION:

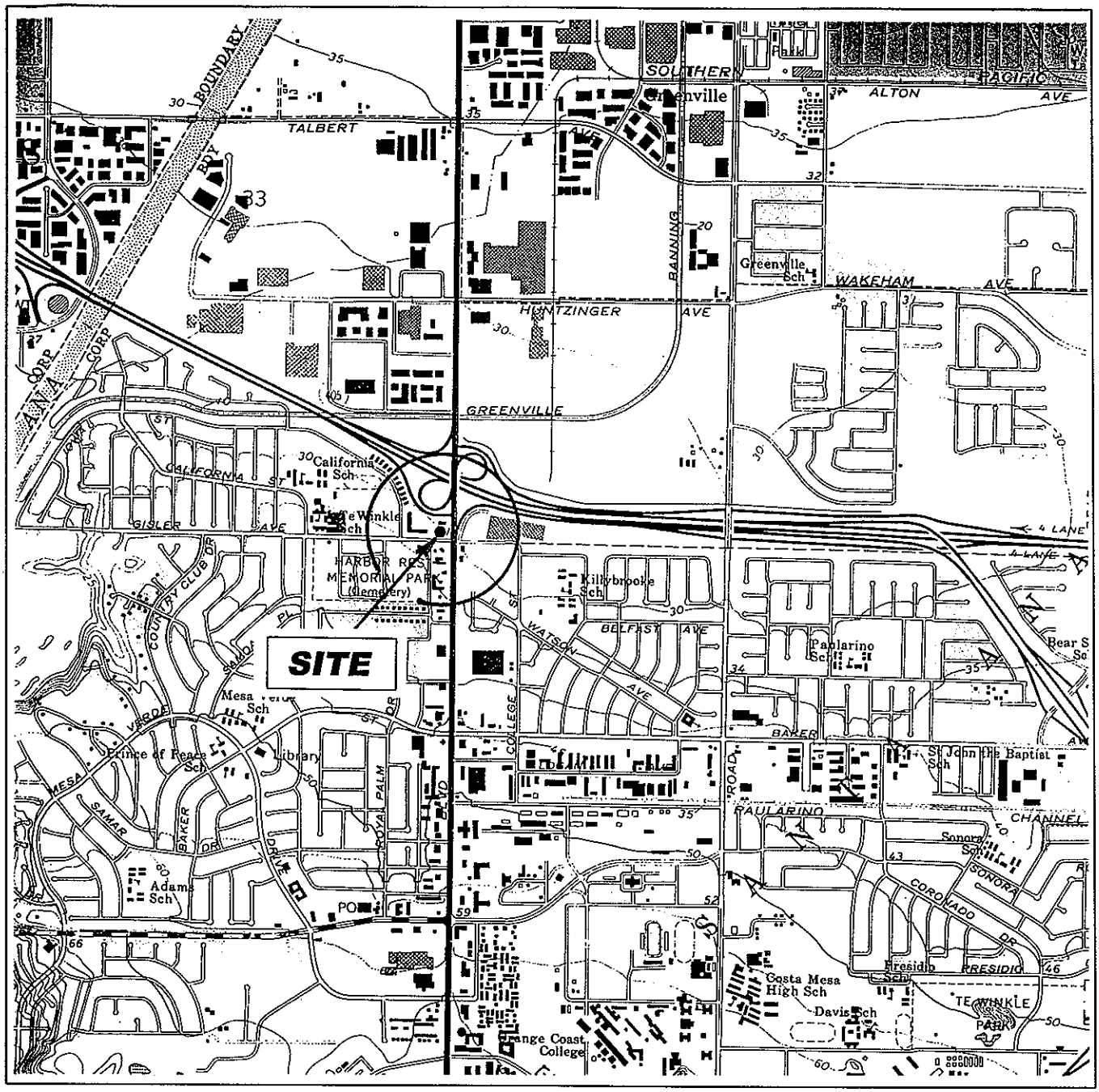
Analytical results of groundwater samples collected from well B-6 indicated a continuing decreasing trend for ethyl-benzene. Analytical results of all other groundwater samples collected during the third quarter 2005 demonstrated no significant changes compared to previous quarters. Groundwater elevations across the Site dropped by at least 0.5 feet when compared to the previous quarter.

REMARKS:

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 outline 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.

ATTACHMENTS:

Site Location Map (Figure 1)
Groundwater Elevation Contour Map (Figure 2)
Groundwater Analyses Map (Figure 3)
Historical Groundwater Gauging Data (Table 1)
Historical Groundwater Analytical Results (Table 2)
Historical Over-Purging Data (Table 3)
Remediation System Operation Summary (Attachment A)
Chain-of-Custody and Laboratory Report Documentation (Attachment B)
Sampling Information Sheet (Attachment C)



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 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.

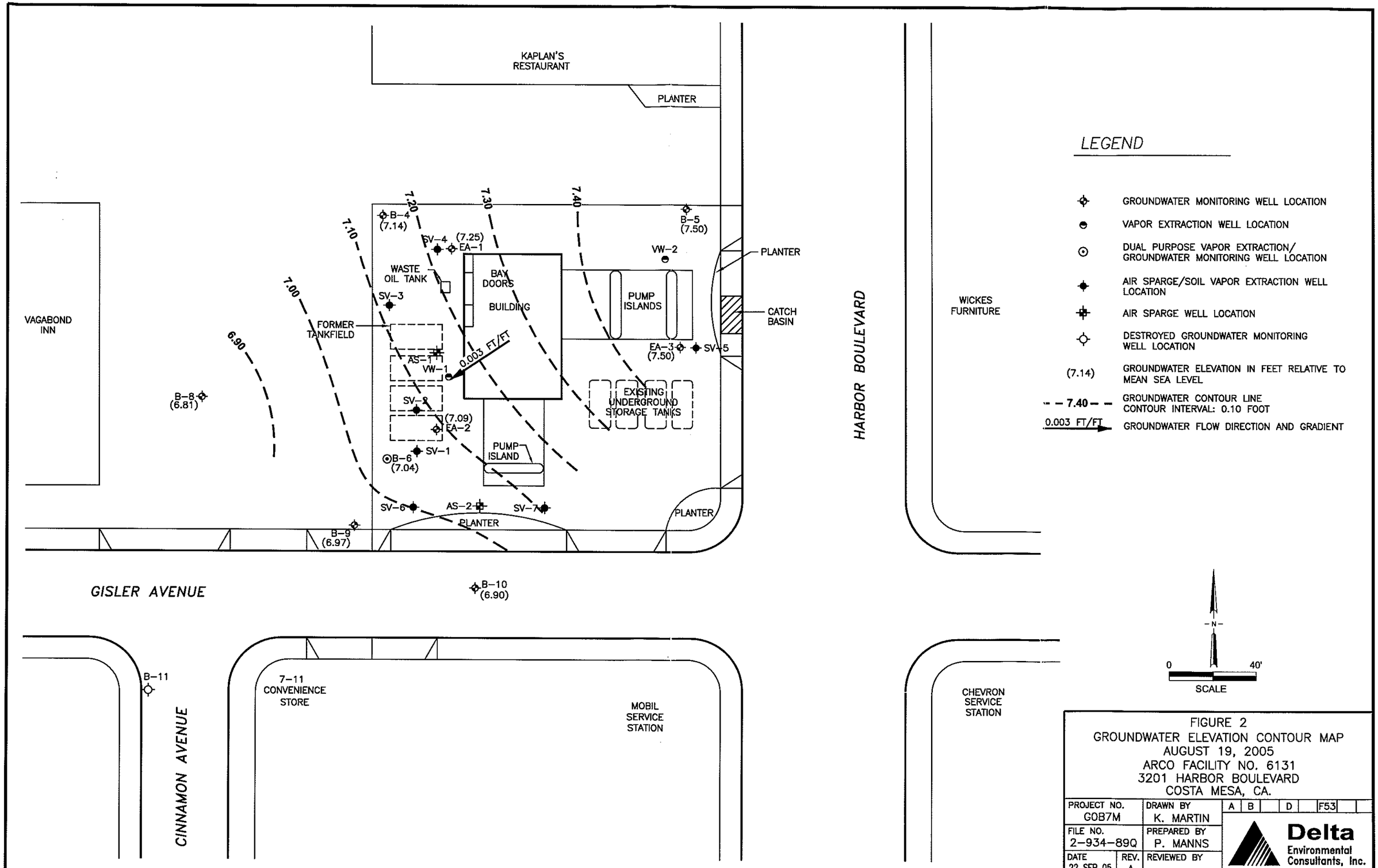


FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP
AUGUST 19, 2005
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CA.

PROJECT NO. GOB7M	DRAWN BY K. MARTIN	A B D F53
FILE NO. 2-934-89Q	PREPARED BY P. MANNS	Delta Environmental Consultants, Inc.
DATE 22 SEP 05 / REV. A	REVIEWED BY	

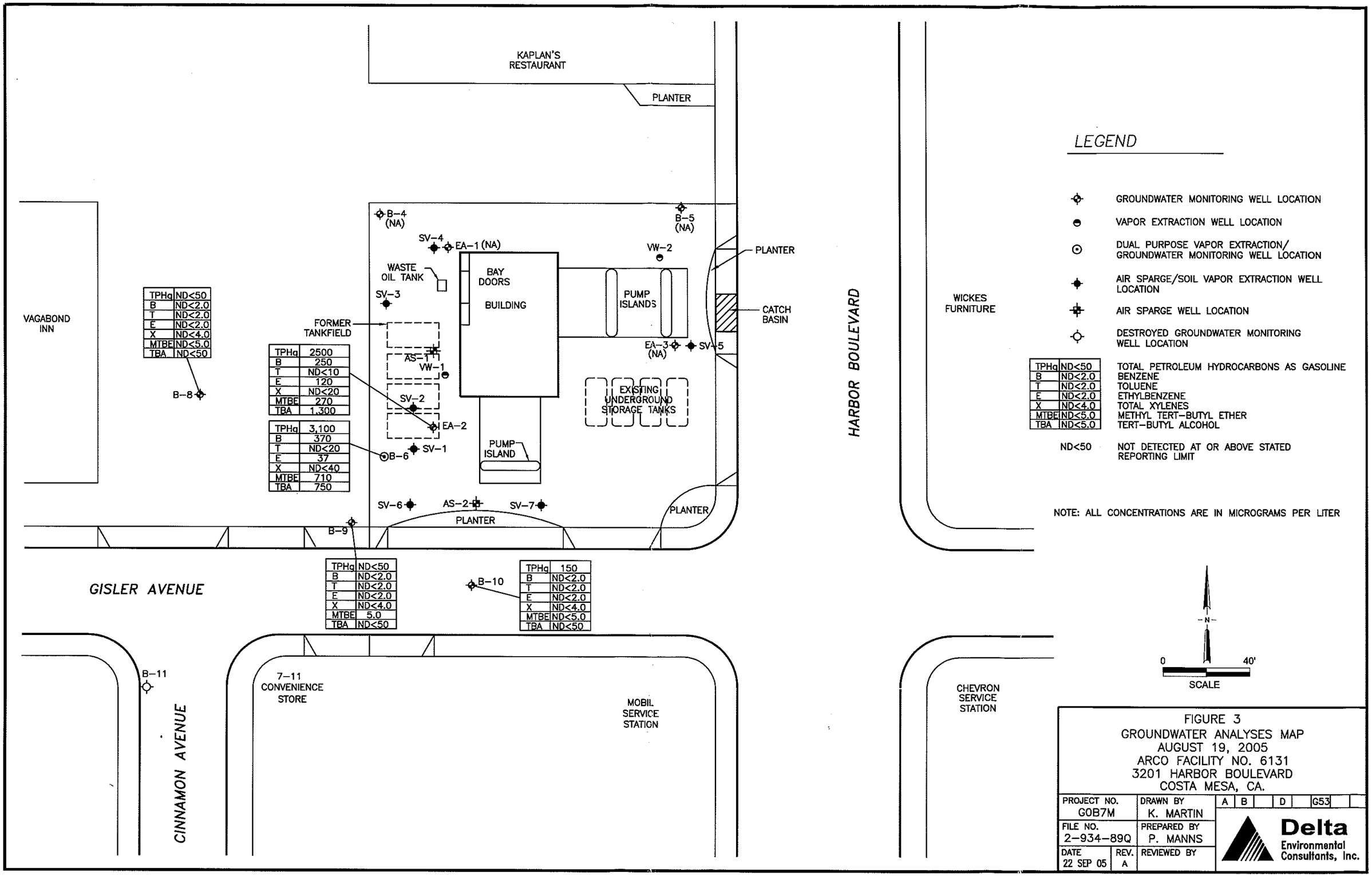


FIGURE 3
GROUNDWATER ANALYSES MAP
AUGUST 19, 2005
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CA.

PROJECT NO. GOB7M	DRAWN BY K. MARTIN	A B D G53
FILE NO. 2-934-89Q	PREPARED BY P. MANNS	Delta Environmental Consultants, Inc.
DATE 22 SEP 05 / REV. A	REVIEWED BY	

TABLE 1
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-4	5/27/2005	30.52	NA	22.87	NA	7.65	
B-4	8/19/2005	30.52	NA	23.38	NA	7.14	

TABLE 1
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	3/24/1993	29.44	NA	23.26	NA	6.18	
B-5	6/15/1993	29.44	NA	21.81	NA	7.63	
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-5	5/27/2005	29.21	NA	21.18	NA	8.03	
B-5	8/19/2005	29.21	NA	21.71	NA	7.50	

TABLE 1
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	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	
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-6	5/27/2005	31.19	NA	23.61	NA	7.58	
B-6	8/19/2005	31.19	NA	24.15	NA	7.04	

TABLE 1
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-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	
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-8	5/27/2005	31.67	NA	24.31	NA	7.36	
B-8	8/19/2005	31.67	NA	24.86	NA	6.81	
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	

TABLE 1
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-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	
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-9	5/27/2005	30.84	NA	23.32	NA	7.52	
B-9	8/19/2005	30.84	NA	23.87	NA	6.97	
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	

TABLE 1
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-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	
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-10	5/27/2005	30.77	NA	23.34	NA	7.43	
B-10	8/19/2005	30.77	NA	23.87	NA	6.90	
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	

TABLE 1
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-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	
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-1	5/27/2005	30.75	NA	22.98	NA	7.77	
EA-1	8/19/2005	30.75	NA	23.50	NA	7.25	
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	

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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-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	
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-2	5/27/2005	31.25	NA	23.63	NA	7.62	
EA-2	8/19/2005	31.25	NA	24.16	NA	7.09	
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	

TABLE 1
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	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	
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	
EA-3	5/27/2005	29.62	NA	21.58	NA	8.04	
EA-3	8/19/2005	29.62	NA	22.12	NA	7.50	

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 2

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 2

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-4	5/27/2005	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-4	8/19/2005	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

TABLE 2

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-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
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-5	5/27/2005	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-5	8/19/2005	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	

TABLE 2

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	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	
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	3600	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

TABLE 2

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	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
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-6	5/27/2005	2900	280	ND<20	93	ND<40	NA	420	ND<50	ND<50	ND<50	670	ND<1500	No purge sampling
B-6	8/19/2005	3100	370	ND<20	37	ND<40	NA	710	ND<50	ND<50	ND<50	750	ND<1500	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

TABLE 2

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	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
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-8	5/27/2005	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-8	8/19/2005	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

TABLE 2

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	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
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-9	5/27/2005	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	8/19/2005	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	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

TABLE 2

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	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
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-10	5/27/2005	360	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	8/19/2005	150	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	

TABLE 2

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	8/2/1994	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
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

TABLE 2

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	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-1	5/27/2005	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
EA-1	8/19/2005	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	
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

TABLE 2

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-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
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-2	5/27/2005	2600	190	ND<10	140	ND<20	NA	230	ND<25	ND<25	ND<25	1100	ND<750	No purge sampling
EA-2	8/19/2005	2500	250	ND<10	120	ND<20	NA	270	ND<25	ND<25	ND<25	1300	ND<750	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	

TABLE 2

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-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
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

TABLE 2

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-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
EA-3	5/27/2005	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
EA-3	8/19/2005	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	
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	

TABLE 2

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	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	
Trip Blank	5/27/2005	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	
Trip Blank	8/19/2005	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	

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

Remediation System Operation Summary

AS/SVE SYSTEM OPERATION SUMMARY – THIRD QUARTER 2005
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

BACKGROUND

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.

Delta continued operation of the AS/SVE system from July 1998 through December 2001. Approximately 5,337 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during this period using the AS/SVE system.

Delta continued operation of the AS/SVE system during the first quarter 2002. Approximately 6 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during the first quarter 2002 using the AS/SVE system.

Delta continued operation of the AS/SVE system during the second quarter 2002. Laboratory analytical results of influent vapor samples collected on April 25, May 30, and June 26, 2002 indicated VFH concentrations of 14, 12, and 26 ppmv, respectively. Approximately 43 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during the second quarter 2002 using the AS/SVE system.

Delta continued operation of the SVE system during the third quarter 2002. During this quarter, the hour meter was replaced and the hours operating have been adjusted to correct a calculating error. System operational uptime was approximately 87% through September 25, 2002. Laboratory analytical results of influent vapor samples collected on July 2, July 30, August 27, and September 25, 2002 indicated VFH influent concentrations of 53, 140, and 54 ppmv, respectively. Based on the hour adjustment, approximately 175 pounds of vapor-phase petroleum hydrocarbons were recalculated to be extracted from the subsurface and destroyed during the third quarter 2002 using the SVE system.

Delta continued operation of the SVE system during the fourth quarter 2002. System operational uptime was approximately 25% through December 11, 2002. Laboratory analytical results of influent vapor samples collected on October 29, 2002 indicated VFH influent concentrations of 42 ppmv. Approximately 18 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during the fourth quarter 2002 using the SVE system.

Delta continued operation of the SVE system during the first quarter 2003. System operational uptime was approximately 60% through April 3, 2003. The AS system was not operational during the first quarter 2003. Laboratory analytical results of influent vapor samples collected on January 30, February 25, and March 11, 2003 indicated VFH influent concentrations of 17 ppmv, 4.3 ppmv, and 6.9 ppmv, respectively. Approximately 21 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during the first quarter 2003 using the SVE system.

During the second quarter 2003, system operational uptime was approximately 68% through June 23, 2003. The AS system did not operate during the reporting period. Laboratory analytical results of vapor samples collected on April 28, 2003 indicated VFH influent and effluent concentrations of 11 ppmv and 8.1 ppmv, respectively. The system was shut down on May 9, 2003 due to effluent VFH laboratory results exceeding the 8-ppmv-permit requirement. A new effluent port was installed on May 15, 2003. Approximately 49 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during this reporting period using the SVE system.

During the third quarter 2003, system operational uptime was approximately 89% through September 3, 2003. The AS system was not operational during the third quarter 2003. Laboratory analytical results of vapor samples collected on June 23, July 29, and August 19, 2003 indicated VFH influent concentrations of 3.8 ppmv, 8.4 ppmv and 18 ppmv, respectively. VFH effluent concentrations were 2.6 ppmv, 4.9 ppmv and not detected at the laboratory-reporting limit of 2.4 ppmv, respectively. Approximately 57 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during this reporting period using the SVE system.

During the fourth quarter 2003, system operational uptime was approximately 66% (September 3, 2003 through December 2, 2003). The AS system was not operated during the fourth quarter 2003. Laboratory analytical results of vapor samples collected on September 16, October 21, and November 24, 2003 indicated VFH influent concentrations of 19 ppmv, 7.8 ppmv and 20

ppmv, respectively. VFH effluent concentrations were not detected at laboratory method detection limits for vapor samples collected on September 16, October 21, and November 24, 2003. Approximately 67 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during this reporting period using the SVE system.

System operational time during the first quarter 2004 was approximately 23% (December 2, 2003 through February 23, 2004). On February 23, 2004 the system was shut down for repairs and remained off for the rest of the reporting period. The AS system was not operational during the first quarter 2004. Laboratory analytical results of vapor samples collected on December 22, 2003 and January 26, 2004 indicated VFH influent concentrations of 3.8 ppmv and not detected at the laboratory reporting limit of 2.4 ppmv, respectively. VFH effluent concentrations were not detected at laboratory method detection limits for vapor samples collected on December 22, 2003 and January 26, 2004. Approximately 3 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during this reporting period using the SVE system.

The AS/SVE system operated approximately 56% during the second quarter 2004 (February 23, through June 17, 2004). The AS/SVE system was restarted on April 8, 2004. Laboratory analytical results of vapor samples collected on April 20, 2004, indicated VFH influent concentration at 10 ppmv, and below reporting limit of 2.8 ppmv for the vapor samples collected on May 11 and June 8, 2004. VFH effluent concentrations were not detected at the laboratory-reporting limit of 1.0 ppmv for samples collected on April 20, 2004, and at 1.8 ppmv, and 1.2 ppmv for samples collected on May 11 and June 8, 2004, respectively. Approximately 21 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during the second quarter 2004 using the AS/SVE system.

During the third quarter 2004 (June 17, 2004 through September 30, 2004), system operational time was approximately 83%. It operated from June 17 to August 25, 2004, August 27 to September 5, 2004, and from September 22 to September 30, 2004. The system was shutdown on August 25, 2004 for groundwater sampling activities, and it was restarted on August 27, 2004. Based on the temperature log from the system, it operated continuously until September 5, 2004, when it shutdown automatically due to a malfunctioned positive-displacement blower. The system was restarted on September 22, 2004 after the blower replacement was completed. The system was temporarily shutdown on September 23, 2004, due to low combustion temperature of the oxidizer. It was restarted the same day and it operated throughout the remainder of the period. Laboratory analytical results of vapor samples collected on July 28, August 19, and September 22, 2004, indicated VFH influent concentration at the below reporting limit (2.4 ppmv), 6.0 ppmv and 24 ppmv, respectively. VFH effluent concentrations were not detected at the laboratory-reporting limit of 1.0 ppmv for samples collected on July 28, 2004. For samples collected on August 19 and September 22, 2004, VFH effluent concentrations were 2.5 ppmv, and 1.1 ppmv, respectively. Approximately 56 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed by the AS/SVE system in the third quarter 2004.

During the fourth quarter 2004 (September 30, 2004 through December 31, 2004), system operational time was approximately 24%. It operated continuously from September 30 to October 13, 2004. It was shutdown manually on October 13, 2004 for soil vapor rebound evaluation. As part of the evaluation, the system was restarted on October 27, 2004 after a two-week non-operating period. The system was shutdown automatically on October 31, 2004, and it experienced several automatic shutdowns in the remainder of this reporting period. It was shutdown automatically on November 5, 2004, after it was restarted on November 3, 2004. It was restarted on November 11 and November 16, 2004, and it operated for approximately 20 hours and 1 hour, respectively, before it was again shutdown automatically. The system was restarted temporarily on November 30, 2004 for monthly vapor sample collection. The automatic shutdowns during this reporting period appeared to be caused by a malfunctioning level switch in the system's vapor/liquid separator. The main function of the level switch was to trigger the electric pump in the separator to transfer the soil vapor condensate into a 55-gallon drum. The system is designed to shutdown automatically by a safety device if separator is filled with liquid. A malfunctioned level switch would cause the accumulated soil vapor condensate to trigger the safety device to shutdown the system. The system is currently being repaired, and it will be restarted after all necessary repairs are completed.

On October 13, 2004, Delta initiated a soil vapor rebound evaluation. The remediation system rebound evaluation consisted of three phases. The first phase included collecting vapor samples from system influent, intermediate, effluent, and individual vapor extraction wells (SV-2/B-6, SV-3 through SV-6, VW-1 and VW-2) on October 13, 2004. The second phase included stabilizing site conditions by shutting down the SVE system for a two-week period on October 13 to October 27, 2004. The third phase included restarting the SVE system utilizing wells all vapor extraction wells (SV-2/B-6, SV-3 through SV-6, VW-1 and VW-2) on October 27, 2004, and collecting vapor samples from system influent, intermediate, effluent, and individual vapor extraction wells (SV-2/B-6, SV-3 through SV-6, VW-1 and VW-2). The SVE system would be shutdown after one week of operation from

October 27 to November 3, 2004 in order to complete the system evaluation. Due to the automatic shutdowns, the remediation system was never able to operate continuously for a one-week period, and the third phase of the evaluation could not be completed as planned.

Laboratory analytical results of vapor samples collected on October 7, October 13, October 27, and November 30, 2004, indicated VFH influent concentration at 5.0 ppmv, not detected at or below reporting limit (2.4 ppmv), 6.2 ppmv and not detected at or above reporting limit (2.4 ppmv), respectively. VFH effluent concentrations were detected at 3.0 ppmv, 2.6 ppmv, 4.8 ppmv, and 1.6 ppmv (analyzed as hexane) in effluent samples collected on October 7, October 13, October 27, and November 30, 2004. Approximately 6 pounds of vapor-phase petroleum hydrocarbons were extracted from the subsurface and destroyed during this reporting period by the AS/SVE system.

ACTIVITIES DURING REPORTING PERIOD

The AS/SVE system was not operated during the Third Quarter of 2005. A system evaluation indicates that major repairs are needed on the blower and the system before it can be re-started. Vapor samples were not collected for laboratory analysis during the reporting period.

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. The total pounds removed includes approximately 334 pounds of vapor-phase petroleum hydrocarbons that were extracted from the subsurface and destroyed during the fourth quarter 2000 utilizing a mobile high-vacuum, dual-phase extraction system. SVE system performance data, individual well field concentration data, air sparge performance data, and individual well analytical data are presented in Tables 1, 2, 3, and 4. SVE system performance data are also depicted in Graphs 1 and 2.

When operational, Delta conducted monitoring of the AS/SVE system on a weekly basis (see attached data). Vapor samples collected for analysis were submitted to Del Mar Analytical, an Atlantic Richfield Company (ARCO)-approved and California Department of Health Services-certified laboratory.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) PERMIT ADHERENCE

The system was not operated during the reporting period.

PROGRESS TOWARDS CLOSURE

Once results from the current subsurface investigation have been reviewed, the need for continued system operation will be assessed and recommendations will be presented to OCHCA. If it is determined that SVE effectively mitigated the impact of hydrocarbons on the soil, the system will be removed.

TABLE 1

SVE SYSTEM PERFORMANCE DATA
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Date Monitored	SVE System Status	Operating Time (hours)	Percent Operating Time (%)	Total System Flow Rate (cfm)	Combus. Temp. (Deg F)	Inlet VOC Conc. (PID-ppmv)	Exhaust VOC Conc. (PID-ppmv)	Inlet TPHg Conc. (lab-ppmv)	Inlet Benzene Conc. (lab-ppmv)	Exhaust TPHg Conc. (lab-ppmv)	Exhaust Benzene Conc. (lab-ppmv)	Estimated TPHg Conc. (ppmv)	Hydrocarbons Removed Daily (lbs)	Hydrocarbons Removed Cum. (lbs)	Comments
13-Aug-98	Off	0.0	0	0	NA	NA	NA	NA	NA	NA	NA	6800	0	0	Test unit / blew two fuses
19-Aug-98	Off	1.0	1	140	1473	1355	45.6	6800	41	2.9	ND<1.6	6800	0	0	Replaced fuses / blew both again
27-Aug-98	Off	2.3	1	0	NA	NA	NA	NA	NA	NA	NA	5753	308	17	Pressure switch bad
7-Oct-98	Startup	2.7	0	140	1507	2590	63.4	NA	NA	NA	NA	5431	0	17	Replace pressure switch
13-Oct-98	Off	3.5	1	0	NA	NA	NA	NA	NA	NA	NA	4786	257	25	Down on arrival / tripped breaker / unable to restart
20-Oct-98	Off	3.5	0	0	NA	NA	NA	NA	NA	NA	NA	4786	0	25	System repairs by Stealth
30-Oct-98	Restart	4.6	0	158	1443	2369	78.4	3900	20	NA	NA	3900	0	25	Blower maintenance / system repairs
6-Nov-98	Off	23.8	11	0	NA	NA	NA	NA	NA	NA	NA	3754	227	207	Down on arrival / needs gas flow adjuster
20-Nov-98	Restart	23.8	0	140	NA	NA	NA	NA	NA	NA	NA	3754	0	207	System repairs by Stealth
25-Nov-98	On	143.6	100	142	1432	8407	83.4	NA	NA	NA	NA	2845	153	968	Installed K/O drum
4-Dec-98	Off	149.7	3	0	NA	NA	NA	NA	NA	NA	NA	2799	152	1007	Down on arrival / tripped blower / high water level
7-Dec-98	Restart	149.7	0	0	NA	NA	NA	NA	NA	NA	NA	2799	0	1007	System repairs by Stealth
21-Dec-98	Restart	149.7	0	120	NA	NA	NA	NA	NA	NA	NA	2799	0	1007	
23-Dec-98	On	360.4	100	170	1428	NA	NA	1200	ND<1.6	4.4	ND<1.6	1200	55	1491	
30-Dec-98	On	531.8	100	145	1445	6490	76.4	NA	NA	NA	NA	995	65	1954	All wells open due to water / need more drums
8-Jan-99	On	745.4	99	168	1447	1205	25.2	NA	NA	NA	NA	740	41	2320	K/O pot needs repair
15-Jan-99	Off	849.2	62	172	1438	1040	17.8	NA	NA	NA	NA	617	40	2492	Shut system down pending more water drums
10-Feb-99	Restart	849.2	0	156	NA	NA	NA	NA	NA	NA	NA	617	0	2492	
12-Feb-99	On	919.7	100	156	1440	945.7	14	NA	NA	NA	NA	532	32	2585	
17-Feb-99	On	1039.0	99	136	1435	586.9	0.2	460	ND<1.6	3.9	ND<1.6	390	23	2701	All wells open due to water
26-Feb-99	On	1253.4	99	156	1409	568.1	14.3	NA	NA	NA	NA	375	20	2875	All wells open due to water
3-Mar-99	On	1374.9	100	105	1430	516.3	2.6	NA	NA	NA	NA	367	22	2986	Calibrated LEL sensor
12-Mar-99	Off	1590.2	100	111	1420	263.8	4.8	NA	NA	NA	NA	352	14	3113	Shut system down pending more water drums
17-Mar-99	Restart	1592.2	2	101	1407	290.8	6.9	NA	NA	NA	NA	352	15	3114	All wells open due to water
24-Mar-99	On	1761.1	100	105	1421	286.9	0.3	340	ND<1.6	3.9	ND<1.6	340	13	3207	
1-Apr-99	On	1949.8	98	110	1432	301.4	0.1	NA	NA	NA	NA	305	12	3303	Closed SV-6
7-Apr-99	On	2098.7	100	105	1436	201.4	0	NA	NA	NA	NA	277	12	3376	Installed signage & fire extinguisher
13-Apr-99	Restart	2238.4	97	105	NA	NA	NA	NA	NA	NA	NA	251	10	3435	Unit serviced by Stealth
14-Apr-99	On	2262.4	100	105	1439	172.5	0	NA	NA	NA	NA	247	10	3444	
21-Apr-99	On	2433.3	100	106	1422	150.6	0	NA	NA	NA	NA	215	9	3506	Transformer previously replaced by Stealth
29-Apr-99	On	2619.4	97	105	1435	135.6	0	180	ND<1.6	3.9	ND<1.6	180	7	3563	Unable to restart sparge system
6-May-99	Restart	2747.8	76	110	1427	110.6	0	NA	NA	NA	NA	129	5	3590	Down on arrival / blower failure / restart sparge system
14-May-99	Off	2885.6	72	110	1404	56.4	0	NA	NA	NA	NA	74	3	3608	Main blower down on arrival / shut system down
21-May-99	Restart	2886.1	0	119	1440	61.3	0	NA	NA	NA	NA	74	3	3608	Calibrated LEL sensor / drain water from flow meter
28-May-99	Restart	2918.5	19	119	1415	48.6	0	61	ND<1.6	ND<2.4	ND<1.6	61	3	3612	Down on arrival / blower breaker tripped / sparge down
3-Jun-99	On	3016.5	68	118	1429	42.6	0	NA	NA	NA	NA	62	3	3624	
10-Jun-99	On	3185.0	100	116	1423	94.2	0	NA	NA	NA	NA	63	3	3643	
14-Jun-99	On	3283.8	100	116	NA	NA	NA	NA	NA	NA	NA	63	3	3655	System repairs by Stealth
18-Jun-99	On	3379.8	100	117	1407	185.1	0.2	NA	NA	NA	NA	64	3	3666	Restart sparge system
24-Jun-99	On	3524.0	100	116	1415	108.2	0	NA	NA	NA	NA	65	3	3684	
2-Jul-99	On	3713.2	99	115	1427	101.4	0	NA	NA	NA	NA	66	3	3707	

TABLE 1

SVE SYSTEM PERFORMANCE DATA
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Date Monitored	SVE System Status	Operating Time (hours)	Percent Operating Time (%)	Total System Flow Rate (cfm)	Combus. Temp. (Deg F)	Inlet VOC Conc. (PID-ppmv)	Exhaust VOC Conc. (PID-ppmv)	Inlet TPHg Conc. (lab-ppmv)	Inlet Benzene Conc. (lab-ppmv)	Exhaust TPHg Conc. (lab-ppmv)	Exhaust Benzene Conc. (lab-ppmv)	Estimated TPHg Conc. (ppmv)	Hydrocarbons Removed Daily (lbs)	Hydrocarbons Removed Cum. (lbs)	Comments
9-Jul-99	On	3880.8	100	116	1406	54.6	0	NA	NA	NA	NA	67	3	3728	
15-Jul-99	On	4024.3	100	115	1406	102.8	0	68	ND<1.6	ND<2.4	ND<1.6	68	3	3746	
22-Jul-99	Restart	4158.0	80	116	1409	98.7	0	NA	NA	NA	NA	44	2	3756	Down on arrival / blower failure / O&M by Stealth
27-Jul-99	Restart	4178.0	17	118	1420	45.7	3.5	NA	NA	NA	NA	41	2	3758	Down on arrival
5-Aug-99	Restart	4316.0	64	116	1409	88.7	0	16	ND<1.6	ND<2.4	ND<1.6	16	1	3762	Down on arrival / blower failure
9-Aug-99	Off	4321.5	6	0	NA	NA	NA	NA	NA	NA	NA	57	3	3763	Left system down / shut off main power
19-Oct-99	Off	4321.5	0	0	NA	NA	NA	NA	NA	NA	NA	57	0	3763	Serviced unit / down pending permit
31-Mar-00	Restart	4321.5	0	130	1455	3000	0	NA	NA	NA	NA	57	0	3763	
3-Apr-00	On	4393.5	100	131	1464	535	0	600	3.3	ND<2.4	ND<0.059	600	30	3852	
11-Apr-00	On	4583.5	99	127	1466	67.9	0	NA	NA	NA	NA	482	24	4044	Install chart recorder
13-Apr-00	On	4630.5	98	115.5	1435	84.8	0	NA	NA	NA	NA	453	22	4087	
18-Apr-00	On	4748.5	98	113.2	1464	93.7	0	NA	NA	NA	NA	379	17	4169	
24-Apr-00	On	4892.5	100	52	1464	186.5	0	290	ND<1.6	ND<2.4	ND<0.059	290	13	4245	
3-May-00	On	5109.9	100	55	1465	133.4	0	NA	NA	NA	NA	222	4	4285	
10-May-00	On	5273.1	97	10	1465	98.4	0	NA	NA	NA	NA	172	4	4310	
17-May-00	On	5442.8	100	9	1466	210.8	4.2	NA	NA	NA	NA	119	0	4313	
24-May-00	On	5610.0	100	9	1465	113.4	0	67	ND<1.6	ND<2.4	ND<0.059	67	0	4314	Cleaned compound
31-May-00	On	5780.7	100	9	1465	89.6	0	NA	NA	NA	NA	63	0	4316	
7-Jun-00	On	5948.2	100	9	NA	NA	NA	NA	NA	NA	NA	63	0	4317	Down on departure / groundwater sampling
8-Jun-00	Restart	5948.2	0	124	1470	228	3.7	NA	NA	NA	NA	59	0	4317	Down on arrival / groundwater sampling
15-Jun-00	On	6113.9	99	120	1467	198.6	2.4	NA	NA	NA	NA	55	3	4335	Cleaned compound / AS 20 scfm at 3 psig
21-Jun-00	On	6257.9	100	122	1468	403.2	14	NA	NA	NA	NA	51	2	4350	AS 21scfm at 3 psig
27-Jun-00	On	6400.4	99	140	1465	390.7	4.6	48	ND<1.6	ND<2.4	0.0011	48	2	4363	Cleaned compound / AS 20 scfm at 3 psig
5-Jul-00	On	6592.9	100	157	1464	361	3.2	NA	NA	NA	NA	53	3	4386	Cleaned compound / AS 20 scfm at 3 psig
12-Jul-00	On	6762.5	100	92	1460	280	1.1	NA	NA	NA	NA	58	3	4409	Cleaned compound / AS 20 scfm at 3 psig
19-Jul-00	On	6928.5	99	90	1470	202	0	NA	NA	NA	NA	62	3	4436	Cleaned compound / AS 20 scfm at 3 psig
25-Jul-00	On	7074.2	100	110	1466	75	0	66	ND<1.6	ND<2.4	ND<0.001	66	2	4450	Cleaned compound / AS 20 scfm at 3 psig
2-Aug-00	On	7265.0	99	123	1467	60.3	0	NA	NA	NA	NA	63	3	4471	Cleaned compound / AS 20 scfm at 3 psig
9-Aug-00	On	7437.4	100	129	1455	38	0	NA	NA	NA	NA	60	3	4491	Cleaned compound / AS 20 scfm at 4 psig
16-Aug-00	On	7599.9	97	129	1466	44	0	NA	NA	NA	NA	57	3	4511	Cleaned compound / AS 20 scfm at 4 psig
23-Aug-00	On	7770.5	100	130	1460	120	0	19	ND<1.6	ND<2.4	ND<0.0013	19	1	4517	Cleaned compound / AS 20 scfm at 4 psig
31-Aug-00	On	7962.6	100	130	1465	110	0	NA	NA	NA	NA	51	3	4538	Cleaned compound / AS 20 scfm at 4 psig
6-Sep-00	On	8104.8	99	129	1468	89	0	NA	NA	NA	NA	76	4	4560	AS 20 scfm at 4 psig
14-Sep-00	Restart	8273.0	88	133	1466	269	4	NA	NA	NA	NA	104	5	4596	AS 20 scfm at 4 psig / sparge points SV-6 and SV-7
20-Sep-00	On	8412.1	97	132	1465	240	0	NA	NA	NA	NA	128	6	4634	AS 21scfm at 4 psig / sparge points SV-6 and SV-7
28-Sep-00	On	8604.2	100	133	1460	120	18	160	ND<1.6	ND<2.4	0.0024	160	8	4698	AS 21scfm at 4 psig / sparge points SV-6 and SV-7
5-Oct-00	On	8770.8	99	131	1464	110	10	NA	NA	NA	NA	178	9	4761	AS 21scfm at 4 psig / sparge points SV-6 and SV-7
11-Oct-00	On	8917.0	100	127	1468	361	8	NA	NA	NA	NA	194	10	4820	AS 21scfm at 4 psig / sparge points SV-6 and SV-7
19-Oct-00	On	9110.8	100	105	1466	310	6	NA	NA	NA	NA	215	10	4905	AS 21scfm at 4 psig / sparge points SV-6 and SV-7
25-Oct-00	On	9254.6	100	95	1467	309	33	230	ND<1.6	3.4	ND<0.0063	230	9	4960	AS 21scfm at 4 psig / sparge points SV-6 and SV-7
1-Nov-00	On	9399.0	86	105	1466	286	28	NA	NA	NA	NA	192	7	5002	AS 21scfm at 5 psig / sparge points SV-6 and SV-7

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

Date Monitored	SVE System Status	Operating Time (hours)	Percent Operating Time (%)	Total System Flow Rate (cfm)	Combus. Temp. (Deg F)	Inlet VOC Conc. (PID-ppmv)	Exhaust VOC Conc. (PID-ppmv)	Inlet TPHg Conc. (lab-ppmv)	Inlet Benzene Conc. (lab-ppmv)	Exhaust TPHg Conc. (lab-ppmv)	Exhaust Benzene Conc. (lab-ppmv)	Estimated TPHg Conc. (ppmv)	Hydrocarbons Removed Daily (lbs)	Hydrocarbons Removed Cum. (lbs)	Comments
8-Nov-00	On	9563.5	98	144	1464	144	16	NA	NA	NA	NA	149	6	5043	AS shut down during HVDPE activities
15-Nov-00	On	9734.5	100	170	1466	382	21	NA	NA	NA	NA	104	6	5084	
16-Nov-00	On	9758.9	100	161	1466	844	26	NA	NA	NA	NA	97	6	5090	
21-Nov-00	Off	9877.5	99	0	NA	NA	NA	NA	NA	NA	NA	66	4	5111	ASCO valve failure
6-Dec-00	Restart	9878.5	0	159	786	84	0	66	ND<1.6	8.9	ND<0.0063	66	0	5111	Install catalytic block / reconfigure controllers
15-Dec-00	Restart	9984.3	49	131	794	74	0	NA	NA	NA	NA	41	2	5122	
18-Dec-00	Restart	9991.6	10	108	746	121	0	NA	NA	NA	NA	39	2	5122	Unit shut down on 12-16-00 due to low process temperature
27-Dec-00	Off	10097.6	49	0	NA	NA	NA	NA	NA	NA	NA	14	1	5125	System failure / electrical problem
31-Jan-01	Restart	10097.6	0	91	696	NA	NA	14	ND<1.6	ND<2.4	ND<0.002	14	0	5125	Palomar installed electrical wiring
7-Feb-01	On	10264.8	100	177	800	302	8	NA	NA	NA	NA	20	1	5130	AS 20 scfm at 4 psig / sparge points SV-6 and SV-7
14-Feb-01	On	10435.0	100	175	801	266	7	NA	NA	NA	NA	26	2	5142	
22-Feb-01	On	10625.5	99	174	800	138	45	33	ND<1.6	ND<2.4	ND<0.002	33	2	5160	AS 21 scfm at 3.5 psig / sparge points SV-6 and SV-7
1-Mar-01	Restart	10712.0	51	174	801	246	40	NA	NA	NA	NA	30	2	5167	Down on arrival / high liquid level
8-Mar-01	On	10880.6	100	178	803	238	40	NA	NA	NA	NA	25	2	5179	
15-Mar-01	On	11046.2	99	179	799	266	38	NA	NA	NA	NA	21	1	5189	21 scfm at 4.0psig / sparge points SV-6 and SV-7
22-Mar-01	Restart	11102.7	34	180	801	312	20	NA	NA	NA	NA	19	1	5192	
26-Mar-01	On	11199.4	100	178	798	156	35	16	ND<1.6	ND<2.4	ND<0.002	16	1	5196	Down on arrival / high temp alarm
4-Apr-01	Restart	11319.6	56	178	801	110	21	NA	NA	NA	NA	15	1	5201	21 scfm at 4.0 psig / sparge points SV-6 and SV-7
12-Apr-01	Off	11413.9	49	0	NA	NA	NA	NA	NA	NA	NA	14	1	5205	System off / problem with air pressure switch
20-Apr-01	Restart	11413.9	0	178	800	366	18	NA	NA	NA	NA	14	0	5205	
26-Apr-01	On	11625.1	100	177	850	186	8	13	ND<1.6	ND<2.4	ND<0.002	13	1	5213	AS-1 and AS-2 open for air sparging
10-May-01	Restart	11625.1	0	175	NA	246	10	NA	NA	NA	NA	13	0	5213	
15-May-01	On	11745.3	100	178	801	210	8	NA	NA	NA	NA	14	1	5218	Replaced igniter plug
22-May-01	On	11914.3	100	177	792	330	10	NA	NA	NA	NA	16	1	5225	
28-May-01	On	12055.2	98	181	800	169	8	17	ND<1.6	16	0.14	17	1	5232	Sparge compressor seized
4-Jun-01	On	12222.6	100	160	800	114	10	NA	NA	NA	NA	13	1	5238	System off on departure for gw sampling
14-Jun-01	Off	12222.7	0	0	NA	NA	NA	NA	NA	NA	NA	13	1	5238	LEL controller failure
20-Jun-01	Restart	12229.3	5	170	698	222	3	NA	NA	ND<2.4	0.0021	13	0	5238	Resampled effluent
26-Jun-01	On	12371.5	99	163	710	48	2	10	ND<1.6	ND<2.4	ND<0.002	10	1	5242	
3-Jul-01	On	12542.8	100	166	724	40.1	0	NA	NA	NA	NA	9	1	5246	
11-Jul-01	On	12730.8	98	166	725	39	0	NA	NA	NA	NA	9	1	5251	
17-Jul-01	On	12873.8	99	150	716	43	0	NA	NA	NA	NA	8	1	5254	
26-Jul-01	On	13091.9	100	160	754	54	0	7.4	ND<1.6	ND<2.4	ND<0.002	7	0.4	5258	
1-Aug-01	On	13235.3	100	160	760	47	0	NA	NA	NA	NA	8	1	5261	
8-Aug-01	On	13401.6	99	159	752	53	0	NA	NA	NA	NA	9	1	5265	
16-Aug-01	On	13595.2	100	159	780	36	0	NA	NA	NA	NA	10	1	5270	
21-Aug-01	On	13713.6	99	160	780	42	0	NA	NA	NA	NA	11	1	5273	
28-Aug-01	On	13885.7	100	160	778	17.2	0	12	ND<1.6	ND<2.4	ND<0.002	12	1	5278	
7-Sep-01	Off	14120.5	98	160	760	26	0	NA	NA	NA	NA	2	0.1	5280	
27-Sep-01	Restart	14120.5	0	169	760	28	7	ND<2.4	ND<1.4	ND<2.4	ND<0.002	2	0.0	5280	Restart following gw sampling and system cycling
3-Oct-01	On	14262.1	98	169	765	68	8	NA	NA	NA	NA	5	0.4	5282	
10-Oct-01	On	14433.6	100	169	760	51	0	NA	NA	NA	NA	9	0.6	5286	
18-Oct-01	On	14621.6	98	165	765	65	0	NA	NA	NA	NA	13	0.9	5293	
31-Oct-01	On	14934.6	100	98	750	61	8	20	ND<1.6	ND<2.4	0.0034	20	1.3	5309	

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COSTA MESA, CALIFORNIA

Date Monitored	SVE System Status	Operating Time (hours)	Percent Operating Time (%)	Total System Flow Rate (cfm)	Combus. Temp. (Deg F)	Inlet VOC Conc. (PID-ppmv)	Exhaust VOC Conc. (PID-ppmv)	Inlet TPHg Conc. (lab-ppmv)	Inlet Benzene Conc. (lab-ppmv)	Exhaust TPHg Conc. (lab-ppmv)	Exhaust Benzene Conc. (lab-ppmv)	Estimated TPHg Conc. (ppmv)	Hydrocarbons Removed Daily (lbs)	Hydrocarbons Removed Cum. (lbs)	Comments
8-Nov-01	On	15127.9	100	93	761	42	0	NA	NA	NA	NA	23	0.8	5316	
14-Nov-01	Restart	15228.8	70	92	766	110	0	NA	NA	NA	NA	24	0.9	5320	Down on arrival / Flame failure
20-Nov-01	On	15372.5	100	53	752	89	0	NA	NA	NA	NA	26	0.9	5325	
30-Nov-01	On	15610.9	99	87	750	46	20	29	ND<1.6	ND<2.4	0.0037	29	0.6	5331	
6-Dec-01	On	15754.9	100	89	750	54	0	NA	NA	NA	NA	19	0.6	5335	
13-Dec-01	On	15925.2	100	73	762	66	0	NA	NA	NA	NA	7	0.2	5336	Down on departure / groundwater sampling
19-Dec-01	Restart	15925.6	0	74	754	142	0	NA	NA	NA	NA	7	0.2	5336	Down on arrival / groundwater sampling
26-Dec-01	Restart	15989.2	38	91	752	21	0	ND<2.4	ND<1.6	ND<2.4	ND<0.002	2.4	0.1	5337	Down on arrival / high liquid level
2-Jan-02	On	16155.5	99	85	750	34	0	NA	NA	NA	NA	2.4	0.1	5337	
13-Jan-02	Off	16366.7	80	0	NA	NA	NA	NA	NA	NA	NA	2.4	0.1	5338	
16-Jan-02	Off	16366.8	0	0	NA	NA	NA	NA	NA	NA	NA	2.4	0.0	5338	Unit off. Flame failure. Veriflame controller maybe failing. K/o pot full.
22-Jan-02	Restart	16366.8	0	170	762	29	0	NA	NA	NA	NA	2.4	0.0	5338	Replace flame rod. Restart system
31-Jan-02	Restart	16378.2	5	94	752	16	0	ND<2.4	ND<1.6	ND<2.4	ND<0.002	2.4	0.2	5338	Down on arrival / blower trip
5-Feb-02	On	16498.1	100	170	750	28	0	NA	NA	NA	NA	2.4	0.1	5338	
14-Feb-02	On	16715.7	100	169	753	33	0	NA	NA	NA	NA	2.4	0.2	5340	
19-Feb-02	On	16836.4	100	121	753	42	0	ND<2.4	ND<1.6	ND<2.4	ND<0.002	2.4	0.2	5341	
27-Feb-02	Restart	16925.7	47	120	750	87	36	NA	NA	NA	NA	2.4	0.1	5341	
7-Mar-02	Off	16973.5	25	0	NA	NA	NA	NA	NA	NA	NA	2.4	0.1	5341	Down on arrival / flame failure
20-Mar-02	Restart	16973.5	0	120	752	146	0	NA	NA	NA	NA	2.4	0.0	5341	
27-Mar-02	Off	17142.0	100	154	751	67	2	ND<2.4	ND<1.6	ND<2.4	ND<0.002	2.4	0.1	5342	
5-Apr-02	On	17142.3	0	152	752	146	0	NA	NA	NA	NA	2.4	0.0	5342	
10-Apr-02	On	17268.1	100	146	730	9.7	7.2	NA	NA	NA	NA	5	0.3	5344	
17-Apr-02	On	17430.7	97	160	715	53	10	NA	NA	NA	NA	9	0.5	5347	
25-Apr-02	On	17624.5	100	44	730	71	46	14	ND<1.6	ND<2.4	ND<0.002	14	0.9	5354	
3-May-02	On	17816.7	100	33	740	46	0	NA	NA	NA	NA	14	0.2	5356	
16-May-02	On	18128.6	100	153	736	11.5	0	NA	NA	NA	NA	13	0.2	5358	
24-May-02	On	18315.8	98	142	741	10	0	NA	NA	NA	NA	12	0.7	5364	
30-May-02	On	18466.6	100	162	742	167	40	12	ND<1.6	ND<2.4	ND<0.002	12	0.7	5368	
5-Jun-02	Off	18607.5	98	159	741	160	40	NA	NA	NA	NA	17	1.0	5374	
14-Jun-02	Restart	18607.6	0	155	640	10.6	0	NA	NA	NA	NA	17	1.0	5374	Down on arrival / groundwater sampling
21-Jun-02	On	18777.1	100	171	720	10	0	NA	NA	NA	NA	22	1.3	5383	
26-Jun-02	On	18898.6	100	154	731	87	22	26	ND<1.2	7.1	0.002	26	1.7	5392	
2-Jul-02	On	19040.1	98	71	736	77.5	17.5	NA	NA	4.7	0.0057	31	1.8	5402	
8-Jul-02	On	19185.1	100	74	731	85	19	NA	NA	NA	NA	36	1.0	5408	
16-Jul-02	On	19376.1	99	100	737	75	7	NA	NA	NA	NA	42	1.2	5418	
26-Jul-02	On	19615.6	100	98	735	73	5	NA	NA	NA	NA	50	1.9	5437	
30-Jul-02	On	19707.1	95	98	748	71	5	53	ND<1.2	23	0.063	53	2.0	5444	
6-Aug-02	On	19872.4	98	NA	750	NA	NA	NA	NA	NA	NA	74	2.8	5464	
7-Aug-02	On	19902.1	100	61	741	67	2	NA	NA	NA	NA	78	2.9	5467	
13-Aug-02	On	20049.6	100	NA	NA	NA	NA	NA	NA	NA	NA	97	2.3	5481	Installed new hour meter
16-Aug-02	On	20116.4	93	20	753	63	0	NA	NA	NA	NA	105	2.5	5488	
23-Aug-02	On	20287.4	100	52	742	57	0.7	NA	NA	NA	NA	127	1.0	5495	
27-Aug-02	On	20385.8	100	71	742	84	1.9	140	ND<1.6	61	0.022	140	2.8	5506	
5-Sep-02	Restart	20557.8	80	159	739	63	0	NA	NA	NA	NA	106	2.9	5527	System down - high temp trip
10-Sep-02	On	20677.8	100	121	746	68	0	NA	NA	NA	NA	82	5.0	5552	

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16-Sep-02	On	20821.6	100	87	744	46	0	NA	NA	NA	NA	54	2.5	5567	Shut down system
25-Sep-02	Off	20821.8	0	146	746	64	0.7	54	ND<1.6	15	0.0046	54	1.8	5567	
1-Oct-02	Restart	20822.6	1	150	646	157	1.8	NA	NA	NA	NA	54	3.1	5567	System down - high limit reset
8-Oct-02	Off	20855.4	20	0	NA	NA	NA	NA	NA	NA	NA	52	0.0	5567	System down due to high temp trip - shut down to replace high temp probe
21-Oct-02	Restart	20855.7	0	134	711	130	34.7	NA	NA	NA	NA	52	2.7	5567	Restart following high temp probe replacement
29-Oct-02	On	21054.7	100	74	749	269.7	78.9	42	ND<1.6	4.7	ND<1.6	42	1.2	5577	
4-Nov-02	On	21198.6	100	42	746	247.9	76.7	NA	NA	NA	NA	27	0.4	5580	
5-Nov-02	Restart	21216.9	76	60	745	NA	NA	NA	NA	NA	NA	25	0.6	5580	
21-Nov-02	Restart	21232.6	4	57	737	273	73	NA	NA	NA	NA	23	0.5	5580	
25-Nov-02	Off	21280.6	50	0	NA	NA	NA	NA	NA	NA	NA	18	0.0	5580	System off due to blower overload, gas train/veriflame repairs; restarted after repairs
6-Dec-02	Off	21291.4	4	0	NA	NA	NA	NA	NA	NA	NA	17	0.0	5580	Down due to k/o tank float switch failure
11-Dec-02	Off	21291.6	0.2	0	NA	NA	NA	NA	NA	NA	NA	17	0.0	5580	Dilution air valve frozen in open position, system left off pending additional repairs
13-Jan-03	Off	21292.5	0.1	NA	NA	NA	NA	NA	NA	NA	NA	17	0.0	5580	
23-Jan-03	Restart	21292.5	0	186	650	223	0	NA	NA	NA	NA	17	0.0	5580	
30-Jan-03	On	21293.3	0.5	101	651	217	0.3	17	ND<1.6	ND<2.4	ND<1.6	17	0.7	5580	
4-Feb-03	On	21463.5	100	80	651	211	0.7	NA	NA	NA	0.0036	14	0.4	5583	
11-Feb-03	Restart	21580.7	70	101	648	221	0	NA	NA	NA	NA	12	0.4	5586	Restarted system - cleaned spark plug
19-Feb-03	On	21838.9	100	128	653	217	0	NA	NA	NA	NA	7	0.3	5589	
25-Feb-03	Restart	21970.6	91	128	651	NA	NA	4.3	ND<1.6	ND<2.4	ND<1.6	4.3	0.2	5590	Restarted system - high water level in knockout tank
4-Mar-03	Off	22136.0	98	NA	643	NA	NA	NA	NA	NA	NA	0	0.0	5590	System running on dilution air at arrival -shut system off for repairs of dilution drive motor
11-Mar-03	On	22139.9	2.3	199	667	197	0	6.9	ND<1.6	3.2	ND<1.6	6.9	0.5	5590	Replaced dilution air drive motor - restarted system
19-Mar-03	Restart	22270.6	68	199	671	311	2.7	NA	NA	NA	NA	7.5	0.6	5594	Restarted system - high water level in knockout tank
25-Mar-03	On	22417.9	100	199	674	337	3.2	NA	NA	NA	NA	8.1	0.6	5597	
3-Apr-03	On	22627.8	97	210	658	0	0	NA	NA	NA	NA	9.0	0.7	5604	Shut system off at departure - zero PID readings
8-Apr-03	Restart	22627.8	0	339	577	0.1	0	NA	NA	NA	NA	9.0	0.0	5604	
15-Apr-03	On	22801.2	100	199	662	317	1.1	NA	NA	NA	NA	9.7	0.7	5609	
22-Apr-03	On	22968.0	99	197	657	273	0.1	NA	NA	NA	NA	10.4	0.8	5614	
28-Apr-03	On	23109.7	98	199	668	257	1.0	11	ND<1.6	8.1	ND<1.6	11	0.8	5619	
7-May-03	On	23322.2	98	198	683	12.2	0.3	NA	NA	NA	NA	9	0.7	5625	
9-May-03	On	23377.4	100	NA	NA	NA	NA	NA	NA	NA	NA	8.5	0.6	5627	Shut system down due to high lab exhaust.
15-May-03	Restart	23377.5	0.1	199	610	NA	NA	NA	NA	NA	NA	8.5	0.6	5627	New effluent port installed; shut system off due to high water level in knockout tank.
22-May-03	Off	23378.0	0.3	NA	NA	NA	NA	NA	NA	NA	NA	8.5	0.6	5627	System down for thermal couple replacement
30-May-03	Off	23378.0	0	NA	NA	NA	NA	NA	NA	NA	NA	8.5	0.0	5627	System down for repairs.
2-Jun-03	Restart	23378.1	0.1	199	655	5	11	NA	NA	NA	NA	8.5	0.6	5627	
10-Jun-03	On	23571.1	100	199	708	79	0	NA	NA	NA	NA	6.7	0.5	5631	
17-Jun-03	On	23739.1	100	198	695	83	0.3	NA	NA	NA	NA	5.2	0.4	5634	
23-Jun-03	On	23886.0	100	199	700	101	1	3.8	ND<1.6	2.6	ND<1.6	3.8	0.3	5636	
30-Jun-03	Restart	23886.3	0.2	197	647	10	0	NA	NA	NA	NA	3.8	0.3	5636	System down at arrival - restarted unit
10-Jul-03	Restart	24097.2	88	192	653	30	0	NA	NA	NA	NA	5.3	0.4	5639	Blower motor not operating at arrival - restarted unit
14-Jul-03	On	24196.5	100	192	717	27	0	NA	NA	NA	NA	5.9	0.4	5641	
21-Jul-03	On	24360.9	98	191	710	27	0.4	NA	NA	NA	NA	7.1	0.5	5644	

TABLE 1

SVE SYSTEM PERFORMANCE DATA
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Date Monitored	SVE System Status	Operating Time (hours)	Percent Operating Time (%)	Total System Flow Rate (cfm)	Combus. Temp. (Deg F)	Inlet VOC Conc. (PID-ppmv)	Exhaust VOC Conc. (PID-ppmv)	Inlet TPHg Conc. (lab-ppmv)	Inlet Benzene Conc. (lab-ppmv)	Exhaust TPHg Conc. (lab-ppmv)	Exhaust Benzene Conc. (lab-ppmv)	Estimated TPHg Conc. (ppmv)	Hydrocarbons Removed Daily (lbs)	Hydrocarbons Removed Cum. (lbs)	Comments
29-Jul-03	On	24552.6	100	199	670	25	0	8.4	ND<1.6	4.9	ND<1.6	8.4	0.6	5649	
5-Aug-03	On	24723.2	100	199	670	23	0	NA	NA	NA	NA	12	0.9	5656	
12-Aug-03	On	24888.7	99	199	653	23	0	NA	NA	NA	NA	15	1.1	5664	
19-Aug-03	On	25057.8	100	199	656	21	0	18	ND<1.6	ND<2.4	ND<1.6	18	1.4	5673	
26-Aug-03	On	25225.2	100	199	655	20	0	NA	NA	NA	NA	18	1.4	5683	
3-Sep-03	On	25419.4	100	179	655	19	0	NA	NA	NA	NA	19	1.3	5693	
9-Sep-03	On	25556.9	95	199	NA	15	0	NA	NA	NA	NA	19	1.4	5701	
16-Sep-03	Restart	25731.5	100	199	655	47	7	19	ND<1.6	ND<2.4	0.0042	19	1.4	5712	System down at arrival - dilution valve, restarted
23-Sep-03	On	25896.4	98	199	654	31	7	NA	NA	NA	NA	17	1.3	5721	
29-Sep-03	On	26040.4	100	199	656	27	5	NA	NA	NA	NA	15	1.1	5727	
4-Oct-03	Restart	26152.0	93	199	631	11	7	NA	NA	NA	NA	13	1.0	5732	System down - flame failure, restarted
7-Oct-03	On	26225.9	100	199	657	25	5	NA	NA	NA	NA	12	0.9	5735	
14-Oct-03	On	26393.5	100	199	655	23	7	NA	NA	NA	NA	10	0.8	5740	
21-Oct-03	On	26564.5	100	199	656	11	5	7.8	ND<1.6	4.6	0.0026	7.8	0.6	5745	
28-Oct-03	Restart	26566.8	1	199	659	9	5	NA	NA	NA	NA	8	0.6	5745	System down at arrival - high temp trip, restarted
11-Nov-03	Restart	26765.7	59	NA	NA	NA	NA	NA	NA	NA	NA	18	1.4	5756	System down at arrival - adjusted system parameters
18-Nov-03	Restart	26765.7	0	199	647	9.7	7	NA	NA	NA	NA	18	0.0	5756	System down at arrival - ko pot switch, restarted
24-Nov-03	Restart	26810.7	31	195	631	14	7	20	ND<1.6	4.5	0.015	20	1.5	5759	System down at arrival - restarted unit
2-Dec-03	Off	26840.8	16	196	629	17	7	NA	NA	NA	NA	4.1	0.3	5759	System down - high water level in ko pot and drum
22-Dec-03	Restart	26841.3	0.1	199	1430	27	7	3.8	ND<1.6	ND<2.4	0.0014	3.8	0.3	5759	Removed catalytic cell, system restarted in thermal mode
30-Dec-03	On	27033.8	100	199	1436	25	5	NA	NA	NA	NA	2.8	0.2	5761	
5-Jan-04	Off	27049.4	11	195	1440	NA	NA	NA	NA	NA	NA	2.7	0.2	5761	System down - knockout drum full, Belshire to remove water
12-Jan-04	Restart	27049.4	0	189	1460	37	4	NA	NA	NA	NA	2.7	0.0	5761	Restarted system - knockout drum emptied
19-Jan-04	Restart	27065.2	9	193	1461	35	3	NA	NA	NA	NA	2.6	0.2	5761	System down at arrival - flame failure, restarted
26-Jan-04	Restart	27112.4	28	194	1455	43	4	ND<2.4	ND<1.6	ND<2.4	0.0013	2.4	0.2	5762	System down at arrival - restarted
3-Feb-04	Off	27254.7	74	0	0	NA	NA	NA	NA	NA	NA	5.2	0.0	5762	System down - knockout drum full, Belshire to remove water
10-Feb-04	Restart	27254.7	0	191	1458	41	2	NA	NA	NA	NA	5.2	0.0	5762	Restarted system - knockout drum emptied
19-Feb-04	Restart	NA	NA	172	1470	57	1.5	NA	NA	NA	NA	5.2	NA	5762	Restarted system
23-Feb-04	Off	27302.3	15	0	0	NA	NA	NA	NA	NA	NA	6.2	0.4	5763	System down for repairs.
8-Apr-04	Restart	27302.3	0	197	1467	NA	NA	NA	NA	NA	NA	6.2	0.0	5763	Restarted system; restarted air sparge with wells AS-1 and AS-2
13-Apr-04	Restart	27321.7	16	197	1467	0	0	NA	NA	NA	NA	6.6	0.5	5763	Restarted system - process blower off
20-Apr-04	On	27492.0	100	224	1474	153	0	10*	ND<1.6	ND<1.0*	ND<0.010	10	0.8	5769	
27-Apr-04	On	27656.3	98	197	1479	148	0	NA	NA	NA	NA	7.5	0.6	5773	
3-May-04	On	27805.7	100	190	1470	12	0	NA	NA	NA	NA	5.2	0.4	5775	
11-May-04	On	27992.8	97	170	1477	140	2	ND<2.4	ND<1.6	1.8*	ND<0.010	2.4	0.2	5777	
18-May-04	On	28163.0	100	148	1468	48	0	NA	NA	NA	NA	2.4	0.2	5778	
26-May-04	Restart	28327.4	86	170	1464	61	0	NA	NA	NA	NA	2.4	0.1	5779	Restarted system after groundwater sampling
2-Jun-04	On	28493.8	99	170	1465	70	0	NA	NA	NA	NA	2.4	0.2	5780	
8-Jun-04	On	28643.1	100	198	1478	31	0	ND<2.4	ND<1.6	1.2*	ND<0.010	2.4	0.2	5781	
17-Jun-04	On	28851.9	97	198	1468	48	0	NA	NA	NA	NA	2.4	0.2	5782	
24-Jun-04	On	29026.2	100	193	1473	38	0	NA	NA	NA	NA	2.4	0.2	5784	
30-Jun-04	On	29163.5	95	193	1473	66	0	NA	NA	NA	NA	2.4	0.2	5785	
8-Jul-04	On	29354.0	99	194	1472	52	0	NA	NA	NA	NA	2.4	0.2	5786	
13-Jul-04	On	29479.7	100	192	1478	20	0	NA	NA	NA	NA	2.4	0.2	5787	
22-Jul-04	On	29698.3	100	196	1473	39	0	NA	NA	NA	NA	2.4	0.2	5789	
28-Jul-04	On	29841.8	100	193	1469	68	0	ND<2.4	ND<1.6	ND<1.0*	ND<0.010	2.4	0.2	5790	

TABLE 1

SVE SYSTEM PERFORMANCE DATA
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Date Monitored	SVE System Status	Operating Time (hours)	Percent Operating Time (%)	Total System Flow Rate (cfm)	Combus. Temp. (Deg F)	Inlet VOC Conc. (PID-ppmv)	Exhaust VOC Conc. (PID-ppmv)	Inlet TPHg Conc. (lab-ppmv)	Inlet Benzene Conc. (lab-ppmv)	Exhaust TPHg Conc. (lab-ppmv)	Exhaust Benzene Conc. (lab-ppmv)	Estimated TPHg Conc. (ppmv)	Hydrocarbons Removed Daily (lbs)	Hydrocarbons Removed Cum. (lbs)	Comments
3-Aug-04	On	29985.5	100	191	1475	16	0	NA	NA	NA	NA	3.4	0.2	5791	
10-Aug-04	On	30146.7	96	195	1470	64	0	NA	NA	NA	NA	4.5	0.3	5794	
18-Aug-04	On	30338.1	100	194	1469	28	0	NA	NA	NA	NA	5.8	0.4	5797	Collected monthly samples, however, tedlar bags deflated prior to analysis
19-Aug-04	On	30369.8	100	NA	1473	19	0	6.0	ND<1.6	2.5*	ND<0.010	6.0	0.4	5798	
27-Aug-04	Restart	30531.5	84	198	1477	20	0	NA	NA	NA	NA	14	1.0	5805	Restarted system after groundwater sampling
1-Sep-04	On	30644.9	94	197	1468	12	0	NA	NA	NA	NA	19	1.5	5811	
8-Sep-04	Off	30744.7	59	NA	NA	NA	NA	NA	NA	NA	NA	24	1.8	5819	System down at arrival and departure - motor under repair
15-Sep-04	Off	30744.7	0	NA	NA	NA	NA	NA	NA	NA	NA	24	0.0	5819	
22-Sep-04	Restart	30745.4	0.4	199	1468	150	0	24	ND<1.6	1.1*	ND<0.010	24	0.0	5819	
23-Sep-04	Restart	30766.1	86	NA	NA	NA	NA	NA	NA	NA	NA	23	1.7	5820	Shutdown and restart system
30-Sep-04	On	30933.1	99	199	1471	25	0	NA	NA	NA	NA	14	1.1	5828	
7-Oct-04	On	31101.3	100	199	1476	11	0	5.0	ND<1.6	3.0*	ND<0.010	5.0	0.4	5831	
13-Oct-04	On	31244.9	100	227	1472	4	0	ND<2.4	ND<1.6	2.6*	ND<0.010	2.4	0.2	5832	Shut system down for two weeks for rebound test
27-Oct-04	Restart	31246.4	0.4	199	1462	5	0	6.2	ND<1.6	4.8*	ND<0.010	6.4	0.5	5832	Restarted system after rebound test
3-Nov-04	Restart	31363.9	69.9	199	1468	6	0	NA	NA	NA	NA	4.1	0.3	5833	
11-Nov-04	Restart	31433.1	36.0	199	1445	4	0	NA	NA	NA	NA	2.8	0.2	5834	Air/water separator filled with water
16-Nov-04	Restart	31452.6	16.3	196	1489	2	0	NA	NA	NA	NA	2.4	0.2	5834	Replaced float switch
30-Nov-04	Restart	31453.5	0.3	196	1487	2	0	ND<2.4	ND<1.6	1.6	ND<0.010	2.4	0.2	5834	Restarted system temporarily for monthly samples
18-Feb-05	Off	31475.0	1.1	NA	1472	NA	NA	NA	NA	NA	NA	2.4	0.2	5834	Restarted system, blower problem, system down on departure
21-Feb-05	Off	31475.6	0.8	197	1476	7	0	NA	NA	NA	NA	2.4	0.2	5834	Restarted system after unfreezing compressor, system down for blower repairs

Notes:

SVE	= Soil vapor extraction	PID-ppmv	= Field reading - parts per million by volume (by photoionization or flame ionization detector)
cfm	= Cubic feet per minute	TPHg	= Total petroleum hydrocarbons as gasoline by Environmental Protection Agency (EPA) Method 8015/Modified 8015B
Combus.	= Combustion	lab-ppmv	= Laboratory reported concentration - parts per million by volume
Temp.	= Temperature	lbs	= Pounds
Deg F	= Degrees Fahrenheit	Cum.	= Cumulative
VOC	= Volatile organic compound	NA	= Not applicable/available
Conc.	= Concentration	ND<1.6	= Not detected at or above the stated laboratory reporting limit
K/O	= Knock out	Benzene	= Benzene by EPA Method 8021B, since 04/03/00 by EPA CARB 410A and since 06/27/00 by EPA TO-14A
*	= TPHg as hexane		

On 11/25/02, 12/06/02, 5/9/03, 5/22/03, and 5/30/2003 flow rate was based on previous reading to calculate cumulative hydrocarbons removed for partial operation.

TABLE 2

INDIVIDUAL WELL FIELD CONCENTRATION DATA
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Date Monitored	B-6 / SV-2 Screened: 10-39.5 / 5 25/32-34		SV-3 5-20 / 35-37		SV-4 5-20 / 28-30		SV-5 5-20 / 33-35		SV-6 5-20 / 35-37		SV-7 5-20 / 32-34		VW-1 7-22		VW-2 7-22	
	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)
30-Oct-98	1564	Open	1206	Open	1450	Open	1666	Open	1618	Open	1513	Open	2936	Open	1804	Open
25-Nov-98	4540	Open	3910	Open	4230	Open	5780	Open	2980	Open	7820	Open	10480	Open	3640	Open
27-Jul-99	6.6	Open	7.2	Open	7	Open	16.6	Open	15.2	Open	268	Open	53.2	Open	37.5	Open
3-Apr-00	112.6	Open	10.2	Closed	281.8	Open	22.1	Open	233.6	Open	162.9	Closed	1014	Open	2098	Open
11-Apr-00	8.8	Open	6.7	Closed	6.3	Open	5.0	Open	30.7	Open	6.2	50%Open	160.6	Open	280.3	Open
24-Apr-00	2.0	Closed	12.8	Closed	19.5	Closed	14.5	Closed	2.6	Open	3.5	Closed	79.4	Open	246.2	Open
3-May-00	0	Closed	1.7	Closed	8.6	Closed	10.2	Closed	0	Closed	0	Closed	43.2	Open	115.4	Open
10-May-00	0	Closed	0	Closed	2.4	Closed	2.6	Closed	0	Closed	0	Closed	15.7	Open	86.3	Open
17-May-00	NA	NA	1.8	Closed	10.4	Closed	8.9	Closed	0	Closed	0	Closed	124.6	Open	272.4	Open
24-May-00	140.3	Closed	109.7	Closed	83	Closed	98.6	Closed	118.4	Closed	122.8	Closed	113.6	Open	236	Open
31-May-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open
7-Jun-00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8-Jun-00	15	Closed	0	Closed	5	Closed	2.1	Closed	4.3	Closed	6.2	Closed	142	Open	463.3	Open
15-Jun-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open
21-Jun-00	7.8	Closed	0	Closed	0	Closed	1.2	Closed	3.2	Closed	4.4	Closed	230.6	Open	692	Open
27-Jun-00	8.6	Closed	0	Closed	3.2	Closed	0	Closed	4.4	Closed	1.2	Closed	263.4	Open	580	Open
5-Jul-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open
12-Jul-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open
19-Jul-00	4.6	Closed	0	Closed	1.2	Closed	0	Closed	4	Closed	0	Closed	200	Open	587	Open
25-Jul-00	11	Closed	0	Closed	1.3	Closed	0	Closed	3	Closed	2	Closed	76	Open	251	Open
2-Aug-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
9-Aug-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
16-Aug-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
23-Aug-00	8	Closed	0	Closed	0	Closed	0	Closed	7	Open	10	Open	231	Open	470	Open
31-Aug-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
6-Sep-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
14-Sep-00	50	Closed	6	Closed	30	Closed	7	Closed	8	Open	11	Open	236	Open	230	Open
20-Sep-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
28-Sep-00	25	Closed	4	Closed	16	Closed	4	Closed	14	Open	18	Open	145	Open	228	Open
5-Oct-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
11-Oct-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
19-Oct-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
25-Oct-00	10	Closed	0	Closed	12	Closed	6	Closed	16	Open	26	Open	385	Open	1313	Open
1-Nov-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
8-Nov-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
15-Nov-00	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
16-Nov-00	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
21-Nov-00	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
6-Dec-00	83	Open	12	Open	14	Open	13	Open	10	Open	11	Open	235	Open	403	Open
15-Dec-00	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
18-Dec-00	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
27-Dec-00	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
31-Jan-01	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
7-Feb-01	4	Closed	72	Open	8	Open	10	Open	60	Open	25	Open	320	Open	2118	Open
14-Feb-01	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
22-Feb-01	36	Closed	42	Open	110	Open	51	Open	35	Open	38	Open	24	Open	541	Open
1-Mar-01	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
8-Mar-01	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
15-Mar-01	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
22-Mar-01	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
26-Mar-01	11	Closed	16	Open	61	Open	17	Closed	9	Open	12	Open	13	Open	259	Open
4-Apr-01	NA	Closed	NA	Open	NA	Open	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
12-Apr-01	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
20-Apr-01	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
26-Apr-01	8	Closed	10	Open	40	Open	14	Closed	10	Open	2	Open	3	Open	240	Open
10-May-01	NA	Closed	NA	Open	NA	Open	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open

TABLE 2

INDIVIDUAL WELL FIELD CONCENTRATION DATA
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Date Monitored	B-6 / SV-2 Screened: 10-39.5 / 5 25/32-34		SV-3 5-20 / 35-37		SV-4 5-20 / 28-30		SV-5 5-20 / 33-35		SV-6 5-20 / 35-37		SV-7 5-20 / 32-34		VW-1 7-22		VW-2 7-22	
	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)
15-May-01	NA	Closed	NA	Open	NA	Open	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
22-May-01	NA	Closed	NA	Open	NA	Open	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
28-May-01	10	Closed	8	Open	16	Open	10	Closed	8	Open	6	Open	6	Open	110	Open
4-Jun-01	NA	Closed	NA	Open	NA	Open	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
14-Jun-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
20-Jun-01	NA	Closed	NA	Open	NA	Open	NA	Closed	NA	Open	NA	Open	NA	Open	NA	Open
26-Jun-01	0	Closed	2	Closed	27	Open	5	Closed	2	Closed	4	Closed	0	Closed	73	Open
3-Jul-01	NA	Closed	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Closed
11-Jul-01	NA	Closed	NA	Closed	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open
17-Jul-01	NA	Closed	NA	Closed	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open
26-Jul-01	0	Closed	0	Closed	42	Open	0	Closed	0	Closed	0	Closed	0	Closed	30	Open
1-Aug-01	NA	Closed	NA	Closed	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open
8-Aug-01	NA	Closed	NA	Closed	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open
16-Aug-01	NA	Closed	NA	Closed	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open
21-Aug-01	NA	Closed	NA	Closed	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open
28-Aug-01	0	Closed	0	Closed	25.9	Open	0	Closed	0	Closed	0	Closed	0	Closed	10.3	Open
7-Sep-01	NA	Closed	NA	Closed	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open
27-Sep-01	9	Open	3	Open	4	Open	2	Open	4	Open	5	Open	4	Open	3	Open
3-Oct-01	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
10-Oct-01	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
18-Oct-01	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
31-Oct-01	2	Open	1	Open	0	Open	2	Open	0	Open	6	Open	0	Open	8	Open
8-Nov-01	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
14-Nov-01	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
20-Nov-01	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
30-Nov-01	10	Open	0	Open	2	Open	10	Open	44	Open	30	Open	0	Open	0	Open
6-Dec-01	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
13-Dec-01	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
19-Dec-01	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
26-Dec-01	0	Open	0	Open	0	Open	2	Open	0	Open	4	Open	20	Open	0	Open
2-Jan-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
13-Jan-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
16-Jan-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
22-Jan-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
31-Jan-02	4	Open	4	Open	2	Open	2	Open	2	Open	10	Open	0	Open	0	Open
5-Feb-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
14-Feb-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
19-Feb-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
27-Feb-02	18	Open	0	Open	10	Open	2	Open	22	Open	44	Open	8	Open	0	Open
7-Mar-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
20-Mar-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
27-Mar-02	20	Open	0	Open	2	Open	0	Open	4	Open	84	Open	0	Open	12	Open
5-Apr-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
10-Apr-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
17-Apr-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
25-Apr-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
3-May-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
16-May-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
24-May-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
30-May-02	50	Open	35	Open	70	Open	45	Open	30	Open	30	Open	105	Open	205	Open
5-Jun-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
14-Jun-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
21-Jun-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
26-Jun-02	47	Open	30	Open	55	Open	45	Open	30	Open	30	Open	91	Open	195	Open
2-Jul-02	102.5	Open	17	Open	32.5	Open	17	Open	0	Open	27	Open	122	Open	177	Open
8-Jul-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
16-Jul-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
26-Jul-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
30-Jul-02	43	Open	10	Open	47	Open	40	Open	30	Open	30	Open	87	Open	175	Open
6-Aug-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
7-Aug-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open

TABLE 2

INDIVIDUAL WELL FIELD CONCENTRATION DATA
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Date Monitored	B-6 / SV-2 Screened: 10-39.5 / 5 25/32-34		SV-3 5-20 / 35-37		SV-4 5-20 / 28-30		SV-5 5-20 / 33-35		SV-6 5-20 / 35-37		SV-7 5-20 / 32-34		VW-1 7-22		VW-2 7-22	
	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)
13-Aug-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
16-Aug-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
23-Aug-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
27-Aug-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
5-Sep-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
10-Sep-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
16-Sep-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
25-Sep-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
1-Oct-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
8-Oct-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
21-Oct-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
29-Oct-02	587	Open	243.4	Open	173	Open	26	Open	8	Open	43	Open	347	Open	743	Open
4-Nov-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
5-Nov-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
21-Nov-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
25-Nov-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
6-Dec-02	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
11-Dec-02	797	Closed	797	Closed	0	Closed	0	Closed	0	Closed	0	Closed	8.9	Closed	67	Closed
13-Jan-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
23-Jan-03	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed
30-Jan-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
4-Feb-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
11-Feb-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
19-Feb-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
25-Feb-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
4-Mar-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
11-Mar-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
19-Mar-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
25-Mar-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
3-Apr-03	0	Open	0	Open	0	Open	0	Open	0	Open	0	Open	0	Open	0	Open
8-Apr-03	0.1	Open	NA	Open	0.1	Open	0.1	Open	0.1	Open	0.1	Open	0.1	Open	0.1	Open
15-Apr-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
22-Apr-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
28-Apr-03	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open	NA	Open
07-May-03	2.8	Open	2.6	Closed	14.2	Open	2.8	Open	2.3	Open	1.2	Open	8.0	Open	3.2	Closed
09-May-03	NA	50%	NA	Closed	NA	Open	NA	Closed	NA	50%	NA	Closed	NA	Open	NA	Closed
15-May-03	NA	50%	NA	Closed	NA	Open	NA	Closed	NA	50%	NA	Closed	NA	Open	NA	Closed
22-May-03	NA	50%	NA	Closed	NA	Open	NA	Closed	NA	50%	NA	Closed	NA	Open	NA	Closed
30-May-03	NA	50%	NA	Closed	NA	Open	NA	Closed	NA	50%	NA	Closed	NA	Open	NA	Closed
02-Jun-03	3.2	50%	2	Closed	11	Open	2.5	Closed	0	Closed	0	Closed	5	50%	29	Open
10-Jun-03	3	50%	3	Closed	13	Open	0	Closed	0	Closed	0.2	Closed	5	50%	27	Open
17-Jun-03	NA	50%	NA	Closed	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	50%	NA	Open
23-Jun-03	NA	50%	NA	Closed	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	50%	NA	Open
30-Jun-03	0	Closed	0.0	Closed	7	Open	0.0	Closed	0	Closed	0	Closed	6	Open	21	Open
10-Jul-03	NA	Closed	NA	Closed	6	Open	NA	Closed	NA	Closed	NA	Closed	63	Open	6	Open
14-Jul-03	0	Closed	0	Closed	3	Open	0	Closed	0	Closed	0	Closed	6	Open	37	Open
21-Jul-03	0	Closed	0	Closed	1	Open	0	Closed	0	Closed	0	Closed	5	Open	29	Open
29-Jul-03	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	3	Open	31	Open
5-Aug-03	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	3	Open	27	Open
12-Aug-03	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	1.7	Open	25	Open
19-Aug-03	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	0.0	Open	25	Open
26-Aug-03	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	0.0	Open	24	Open
3-Sep-03	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	17	Open	0	Open
9-Sep-03	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	0.0	Open	15	Open
16-Sep-03	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	67	Open	15	Open
23-Sep-03	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	85	Open	9	Open
29-Sep-03	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	72	Open	3	Open
4-Oct-03	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	15	Open	0	Open
7-Oct-03	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	47	Open	0	Open
14-Oct-03	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	31	Open	0	Open
21-Oct-03	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	27	Open	0	Open

TABLE 2

INDIVIDUAL WELL FIELD CONCENTRATION DATA
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Date Monitored	B-6 / SV-2 Screened: 10-39.5 / 5 25/32-34		SV-3 5-20 / 35-37		SV-4 5-20 / 28-30		SV-5 5-20 / 33-35		SV-6 5-20 / 35-37		SV-7 5-20 / 32-34		VW-1 7-22		VW-2 7-22	
	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)	VOC Conc. (ppmv)	Status Departure (O/C)
28-Oct-03	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	23	Open	0	Open
11-Nov-03	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open
18-Nov-03	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	17.7	Open	0.0	Open
24-Nov-03	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open
2-Dec-03	0	Closed	0.1	Closed	0	Closed	0	Closed	0	Closed	0	Closed	21	Open	0	Open
22-Dec-03	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open
30-Dec-03	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open
5-Jan-04	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open
12-Jan-04	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	42.7	Open	3.3	Open
19-Jan-04	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	45	Open	5	Open
26-Jan-04	0.3	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	65	Open	7	Open
3-Feb-04	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Open
10-Feb-04	2.2	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	67	Open	10	Open
19-Feb-04	0.0	Closed	0	Closed	0	Closed	0	Closed	0.1	Closed	0	Closed	65	Open	3.7	Open
23-Feb-04	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed
8-Apr-04	NA	Open	NA	Open	NA	Open	NA	Closed	NA	Open	NA	Closed	NA	Open	NA	Open
13-Apr-04	3	Open	0	Open	0	Open	NA	Closed	4	Open	NA	Closed	6	Open	1	Open
20-Apr-04	10	Open	0	Open	4	Open	NA	Closed	22	Open	NA	Closed	40	Open	13	Open
27-Apr-04	27	Open	6	Open	12	Open	NA	Closed	37	Open	1	Closed	47	Open	8	Open
3-May-04	20	Open	4	Open	10	Open	NA	Closed	42	Open	NA	Closed	54	Open	18	Open
11-May-04	20	Open	18	Open	7	Open	NA	Closed	58	Open	6	Closed	61	Open	12	Open
18-May-04	0	Open	3	Open	0	Open	0	Closed	38	Open	0	Closed	61	Open	0	Open
26-May-04	12	Open	0	Open	6	Open	0	Closed	32	Open	0	Closed	47	Open	9	Open
2-Jun-04	8	Open	0	Open	2	Open	0	Closed	16	Open	0	Closed	0	Open	31	Open
8-Jun-04	0	Open	0	Closed	0	Closed	0	Closed	7	Open	0	10% Open	60	Closed	0	Closed
17-Jun-04	110	Open	0	Closed	0	Closed	0	Closed	30	Open	0	Closed	16	Closed	0	Closed
24-Jun-04	11	Open	0	Closed	0	Closed	0	Closed	0	Closed	0.4	Closed	75	Open	0	Closed
30-Jun-04	46	Open	0	Closed	0	Closed	0	Closed	18	Closed	0	Closed	61	Open	3	Closed
8-Jul-04	0	Open	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	7.1	Open	0	Closed
13-Jul-04	0	Open	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	12	Open	0	Closed
22-Jul-04	11	Open	0	Closed	0	Closed	0	Closed	12	Closed	0	Closed	16	Open	0	Closed
28-Jul-04	16	Open	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	38	Open	0	Closed
3-Aug-04	0	Open	0	Closed	0	Closed	0	Closed	12	Closed	11	Closed	28	Open	0	Closed
10-Aug-04	0	Open	0	Closed	0	Closed	0	Closed	0	Closed	31	Closed	18	Open	0	Closed
18-Aug-04	0	Open	0	Closed	0	Closed	0	Closed	0	Closed	22	Closed	0	Open	0	Closed
19-Aug-04	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Closed
27-Aug-04	0	Open	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Open	0	Closed
1-Sep-04	0	Open	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	0	Open	0	Closed
8-Sep-04	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed
15-Sep-04	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed
22-Sep-04	0	Open	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	247	Open	0	Closed
23-Sep-04	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Closed
30-Sep-04	0	Open	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	55	Open	0	Closed
7-Oct-04	0	Open	0	Closed	0	Closed	0	Closed	0	Closed	0	Closed	24	Open	0	Closed
13-Oct-04	2	Open	0	Open	0	Open	0	Open	0	Open	0	Open	56	Open	0	Open
27-Oct-04	9	Open	0	Open	0	Open	0	Open	0	Open	0	Open	31	Open	0	Open
3-Nov-04	12	Open	0	Open	0	Open	0	Open	0	Open	0	Open	34	Open	1	Open
11-Nov-04	NA	Open	NA	Open	NA	Closed	NA	Closed	NA	Closed	NA	Closed	NA	Open	NA	Closed
16-Nov-04	2	Open	0	Open	0	Open	0	Open	0	Open	0	Open	9	Open	0	Open
30-Nov-04	1	Open	0	Closed	0	Closed	0	Closed	0	50% Open	0	Closed	4	Open	11	Open
18-Feb-05	0	Closed	NA	Closed	0	Closed	14	Closed	0	Closed	0	Closed	12	Closed	20	Closed
21-Feb-05	0	Closed	4	Open	0	Closed	12	Open	0	Open	0	Closed	14	Open	16	Open

Notes:
VOC = Volatile organic compound
Conc. = Concentration
ppmv = Parts per million by volume
O/C = Open/closed
NA = Not available/applicable

TABLE 3

AIR SPARGE PERFORMANCE DATA
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

Date Monitored	Pressure (psi)	Flow (cfm)	A SV-6, SV-7, AS-2 Departure Status (O/C)	B SV-1, SV-2, AS-1 Departure Status (O/C)	C SV-3, SV-4, SV-5 Departure Status (O/C)
8-Apr-04	NA	NA	C/C/O	C/C/O	C/C/C
13-Apr-04	NA	NA	C/C/O	C/C/O	C/C/C
20-Apr-04	NA	NA	C/C/O	C/C/O	C/C/C
27-Apr-04	7	NA	C/C/O	C/C/O	C/C/C
3-May-04	4	20	C/C/O	C/C/O	C/C/C
11-May-04	NA	NA	C/C/O	C/C/O	C/C/C
18-May-04	4	20	C/C/O	C/C/O	C/C/C
26-May-04	4	20	C/C/O	C/C/O	C/C/C
2-Jun-04	NA	NA	C/C/O	C/C/O	C/C/C
8-Jun-04	NA	NA	C/C/O	C/C/O	C/C/C
17-Jun-04	7	NA	C/C/O	C/C/O	C/C/C
24-Jun-04	7	NA	C/C/O	C/C/O	C/C/C
30-Jun-04	4	NA	C/C/O	C/C/O	C/C/C
8-Jul-04	3	NA	C/C/C	C/C/C	C/C/C
13-Jul-04	4	NA	C/C/O	C/C/O	C/C/C
22-Jul-04	4	NA	C/C/O	C/C/O	C/C/C
28-Jul-04	6	NA	C/C/O	C/C/O	C/C/C
3-Aug-04	4	NA	C/C/O	C/C/O	C/C/C
10-Aug-04	4	NA	C/C/O	C/C/O	C/C/C
18-Aug-04	4	NA	C/C/O	C/C/O	C/C/C
19-Aug-04	NA	NA	C/C/C	C/C/C	C/C/C
27-Aug-04	NA	NA	C/C/C	C/C/C	C/C/C
1-Sep-04	4	NA	C/C/O	C/C/O	C/C/C
8-Sep-04	NA	NA	C/C/C	C/C/C	C/C/C
15-Sep-04	NA	NA	C/C/C	C/C/C	C/C/C
22-Sep-04	4	20	O/O/O	O/O/O	C/C/C
23-Sep-04	NA	NA	C/C/C	C/C/C	C/C/C
30-Sep-04	4	20	O/O/O	O/O/O	C/C/C
7-Oct-04	3.5	20	O/O/O	O/O/O	C/C/C
13-Oct-04	4	20	O/O/O	O/O/O	C/C/C
27-Oct-04	NA	NA	O/O/O	O/O/O	C/C/C
3-Nov-04	NA	NA	O/O/O	O/O/O	C/C/C
11-Nov-04	NA	NA	O/O/O	O/O/O	C/C/C
16-Nov-04	NA	NA	O/O/O	O/O/O	C/C/C
30-Nov-04	NA	NA	O/O/O	O/O/O	C/C/C
18-Feb-05	NA	NA	O/O/O	O/O/O	C/C/C
21-Feb-05	NA	NA	O/O/O	O/O/O	C/C/C

Notes:

O/C	= Open/closed
NA	= Not available/applicable
psi	= pounds per square inch
cfm	= Cubic feet per minute
*	= Moisture present

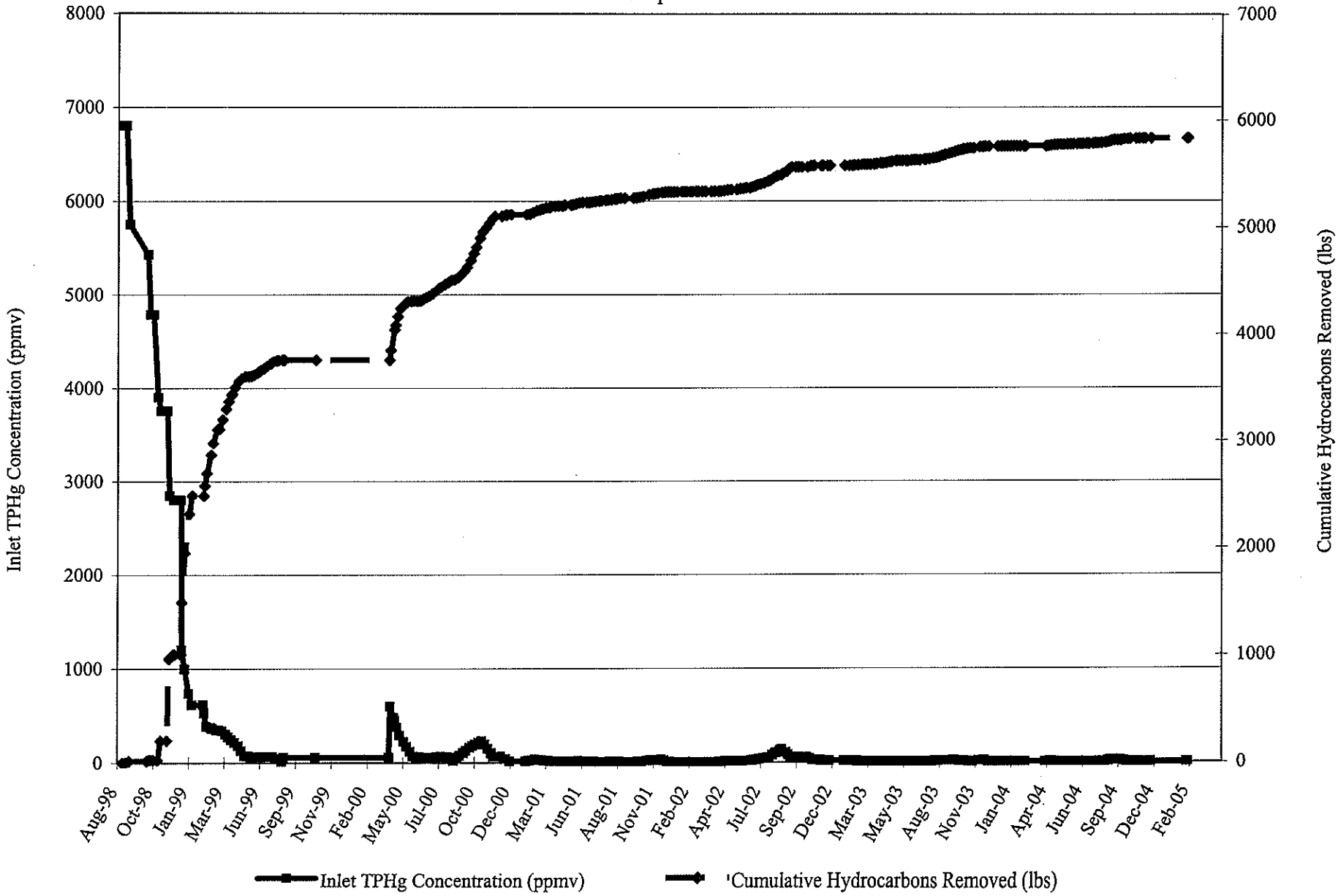
TABLE 4

INDIVIDUAL WELL ANALYTICAL DATA
ARCO FACILITY NO. 6131
3201 HARBOR BOULEVARD
COSTA MESA, CALIFORNIA

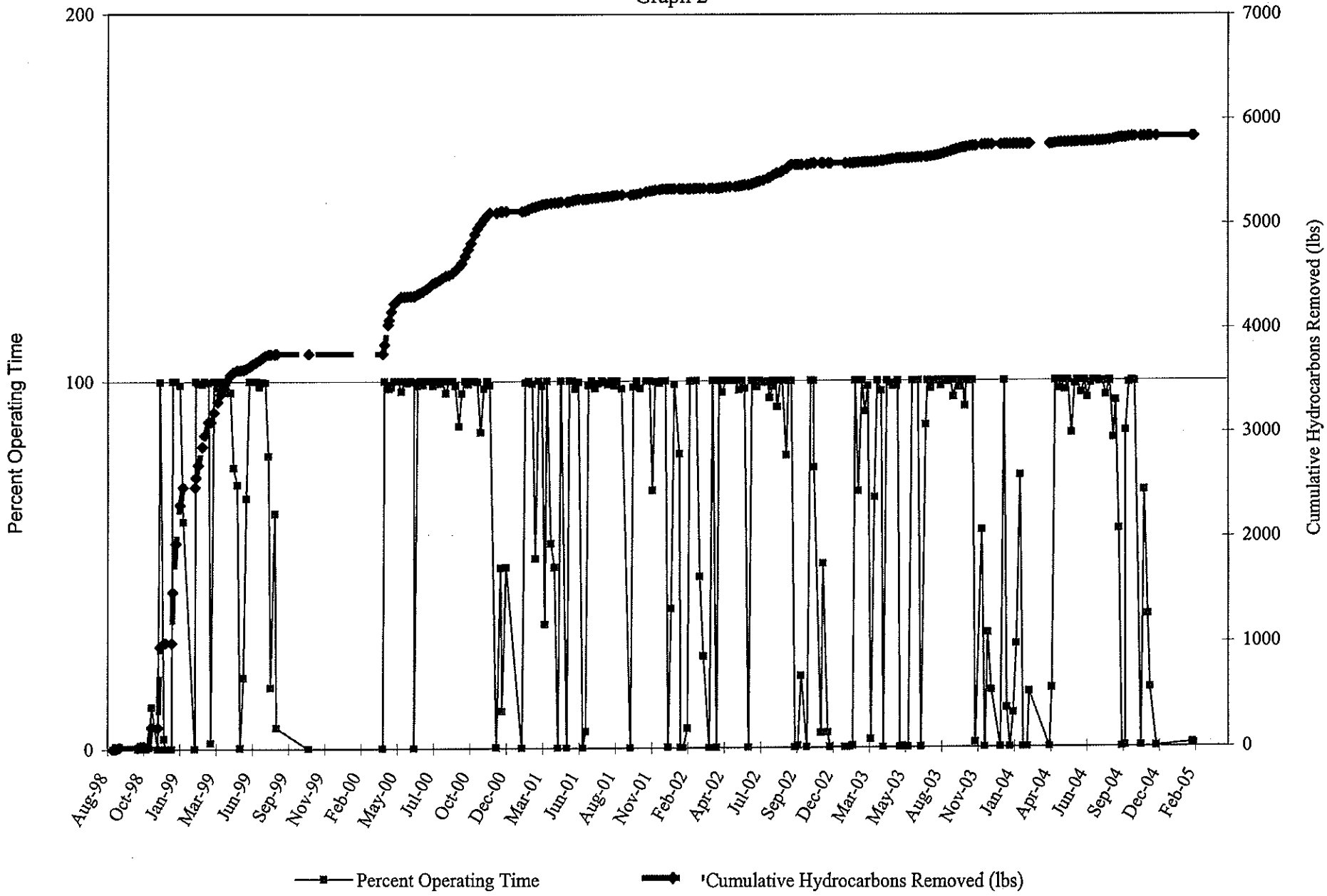
Well ID	Sample Date	VFH (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MTBE (ppmv)
SV-2/B-6	13-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
	27-Oct-04	2.6	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
SV-3	13-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
	27-Oct-04	2.7	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
SV-4	13-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
	27-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
SV-5	13-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
	27-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
SV-6	13-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
	27-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
SV-7	13-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
	27-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
VW-1	13-Oct-04	10	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
	27-Oct-04	2.7	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
VW-2	13-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4
	27-Oct-04	ND<2.4	ND<1.6	ND<1.3	ND<1.2	ND<3.5	ND<1.4

Notes:
VFH = Volatile Fuel Hydrocarbons
PPMV = Concentration in parts per million by volume
MtBE = Methyl Tertiary Butyl Ether
ND< = Not detected at or above the stated laboratory reporting limit

ARCO Facility No. 6131
SVE Performance
Graph 1



ARCO Facility No. 6131
SVE Performance
Graph 2



ATTACHMENT B

Chain-of-Custody and Laboratory Report Documentation

Del Mar Analytical

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LABORATORY REPORT

Prepared For: Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Steve Pence

Project: ARCO 6131, Costa Mesa

Sampled: 08/19/05
Received: 08/19/05
Issued: 09/01/05 19:12

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT:	Samples were received intact, at 2°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS:	No significant observations were made.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IOH1702-01	B-8	Water
IOH1702-02	B-9	Water
IOH1702-03	B-10	Water
IOH1702-04	EA-2	Water
IOH1702-05	B-6	Water
IOH1702-06	Trip Blank	Water

Reviewed By:

Del Mar Analytical, Irvine
Pat Abe
Project Manager

Del Mar Analytical

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Steve Pence

Project ID: ARCO 6131, Costa Mesa

Report Number: IOH1702

Sampled: 08/19/05
Received: 08/19/05

VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOH1702-01 (B-8 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015 Mod.	5H27003	50	ND	1	8/27/2005	8/27/2005	
Surrogate: 4-BFB (FID) (65-140%)				*104 %*				
Sample ID: IOH1702-02 (B-9 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015 Mod.	5H27003	50	ND	1	8/27/2005	8/27/2005	
Surrogate: 4-BFB (FID) (65-140%)				*96 %*				
Sample ID: IOH1702-03 (B-10 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015 Mod.	5H27003	50	**150**	1	8/27/2005	8/27/2005	
Surrogate: 4-BFB (FID) (65-140%)				*128 %*				
Sample ID: IOH1702-04 (EA-2 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015 Mod.	5H29076	250	**2500**	5	8/29/2005	8/29/2005	
Surrogate: 4-BFB (FID) (65-140%)				*245 %*				*AZ*
Sample ID: IOH1702-05 (B-6 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015 Mod.	5H29076	500	**3100**	10	8/29/2005	8/29/2005	
Surrogate: 4-BFB (FID) (65-140%)				*176 %*				*AZ*
Sample ID: IOH1702-06 (Trip Blank - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015 Mod.	5H29076	50	ND	1	8/29/2005	8/29/2005	
Surrogate: 4-BFB (FID) (65-140%)				*88 %*				

Del Mar Analytical, Irvine
Pat Abe
Project Manager

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Steve Pence

Project ID: ARCO 6131, Costa Mesa

Report Number: IOH1702

Sampled: 08/19/05
Received: 08/19/05

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOH1702-01 (B-8 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Ethylbenzene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Toluene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
m,p-Xylenes	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
o-Xylene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Xylenes, Total	EPA 8260B	5H27009	4.0	ND	1	8/27/2005	8/27/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
tert-Butanol (TBA)	EPA 8260B	5H27009	50	ND	1	8/27/2005	8/27/2005	
Ethanol	EPA 8260B	5H27009	150	ND	1	8/27/2005	8/27/2005	
Surrogate: Dibromofluoromethane (80-120%)				*117 %*				
Surrogate: Toluene-d8 (80-120%)				*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*90 %*				
Sample ID: IOH1702-02 (B-9 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Ethylbenzene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Toluene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
m,p-Xylenes	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
o-Xylene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Xylenes, Total	EPA 8260B	5H27009	4.0	ND	1	8/27/2005	8/27/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H27009	5.0	**5.0**	1	8/27/2005	8/27/2005	
tert-Butanol (TBA)	EPA 8260B	5H27009	50	ND	1	8/27/2005	8/27/2005	
Ethanol	EPA 8260B	5H27009	150	ND	1	8/27/2005	8/27/2005	
Surrogate: Dibromofluoromethane (80-120%)				*115 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*91 %*				

Del Mar Analytical, Irvine
Pat Abe
Project Manager

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Steve Pence

Project ID: ARCO 6131, Costa Mesa

Report Number: IOH1702

Sampled: 08/19/05
Received: 08/19/05

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOH1702-03 (B-10 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Ethylbenzene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Toluene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
m,p-Xylenes	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
o-Xylene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Xylenes, Total	EPA 8260B	5H27009	4.0	ND	1	8/27/2005	8/27/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
tert-Butanol (TBA)	EPA 8260B	5H27009	50	ND	1	8/27/2005	8/27/2005	
Ethanol	EPA 8260B	5H27009	150	ND	1	8/27/2005	8/27/2005	
Surrogate: Dibromofluoromethane (80-120%)				*120 %*				
Surrogate: Toluene-d8 (80-120%)				*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Sample ID: IOH1702-04 (EA-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	5H29009	10	**250**	5	8/29/2005	8/29/2005	
Ethylbenzene	EPA 8260B	5H29009	10	**120**	5	8/29/2005	8/29/2005	
Toluene	EPA 8260B	5H29009	10	ND	5	8/29/2005	8/29/2005	
m,p-Xylenes	EPA 8260B	5H29009	10	ND	5	8/29/2005	8/29/2005	
o-Xylene	EPA 8260B	5H29009	10	ND	5	8/29/2005	8/29/2005	
Xylenes, Total	EPA 8260B	5H29009	20	ND	5	8/29/2005	8/29/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H29009	25	ND	5	8/29/2005	8/29/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H29009	25	ND	5	8/29/2005	8/29/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H29009	25	ND	5	8/29/2005	8/29/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H29009	25	**270**	5	8/29/2005	8/29/2005	
tert-Butanol (TBA)	EPA 8260B	5H29009	250	**1300**	5	8/29/2005	8/29/2005	
Ethanol	EPA 8260B	5H29009	750	ND	5	8/29/2005	8/29/2005	
Surrogate: Dibromofluoromethane (80-120%)				*92 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				

Del Mar Analytical, Irvine
Pat Abe
Project Manager

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Steve Pence

Project ID: ARCO 6131, Costa Mesa

Report Number: IOH1702

Sampled: 08/19/05
Received: 08/19/05

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOH1702-05 (B-6 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	5H27009	20	**370**	10	8/27/2005	8/27/2005	
Ethylbenzene	EPA 8260B	5H27009	20	**37**	10	8/27/2005	8/27/2005	
Toluene	EPA 8260B	5H27009	20	ND	10	8/27/2005	8/27/2005	
m,p-Xylenes	EPA 8260B	5H27009	20	ND	10	8/27/2005	8/27/2005	
o-Xylene	EPA 8260B	5H27009	20	ND	10	8/27/2005	8/27/2005	
Xylenes, Total	EPA 8260B	5H27009	40	ND	10	8/27/2005	8/27/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H27009	50	ND	10	8/27/2005	8/27/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H27009	50	ND	10	8/27/2005	8/27/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H27009	50	ND	10	8/27/2005	8/27/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H27009	50	**710**	10	8/27/2005	8/27/2005	
tert-Butanol (TBA)	EPA 8260B	5H27009	500	**750**	10	8/27/2005	8/27/2005	
Ethanol	EPA 8260B	5H27009	1500	ND	10	8/27/2005	8/27/2005	
Surrogate: Dibromofluoromethane (80-120%)				*118 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				
Sample ID: IOH1702-06 (Trip Blank - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Ethylbenzene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Toluene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
m,p-Xylenes	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
o-Xylene	EPA 8260B	5H27009	2.0	ND	1	8/27/2005	8/27/2005	
Xylenes, Total	EPA 8260B	5H27009	4.0	ND	1	8/27/2005	8/27/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H27009	5.0	ND	1	8/27/2005	8/27/2005	
tert-Butanol (TBA)	EPA 8260B	5H27009	50	ND	1	8/27/2005	8/27/2005	
Ethanol	EPA 8260B	5H27009	150	ND	1	8/27/2005	8/27/2005	
Surrogate: Dibromofluoromethane (80-120%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*90 %*				

Del Mar Analytical, Irvine
Pat Abe
Project Manager

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Attention: Steve Pence

Project ID: ARCO 6131, Costa Mesa

Report Number: IOH1702

Sampled: 08/19/05
Received: 08/19/05

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H27003 Extracted: 08/27/05										
Blank Analyzed: 08/27/2005 (5H27003-BLK1)										
Volatile Fuel Hydrocarbons (C6-C12)	ND	50	ug/l							
Surrogate: 4-BFB (FID)	*9.95*		*ug/l*	*10.0*		*100*	*65-140*			
LCS Analyzed: 08/27/2005 (5H27003-BS1)										
Volatile Fuel Hydrocarbons (C6-C12)	793	50	ug/l	800		99	65-140			
Surrogate: 4-BFB (FID)	*33.8*		*ug/l*	*30.0*		*113*	*65-140*			
Matrix Spike Analyzed: 08/27/2005 (5H27003-MS1)					**Source: IOH1378-01**					
Volatile Fuel Hydrocarbons (C6-C12)	228	50	ug/l	220	ND	104	60-145			
Surrogate: 4-BFB (FID)	*9.74*		*ug/l*	*10.0*		*97*	*65-140*			
Matrix Spike Dup Analyzed: 08/27/2005 (5H27003-MSD1)					**Source: IOH1378-01**					
Volatile Fuel Hydrocarbons (C6-C12)	231	50	ug/l	220	ND	105	60-145	1	20	
Surrogate: 4-BFB (FID)	*10.3*		*ug/l*	*10.0*		*103*	*65-140*			
Batch: 5H29076 Extracted: 08/29/05										
Blank Analyzed: 08/29/2005 (5H29076-BLK1)										
Volatile Fuel Hydrocarbons (C6-C12)	ND	50	ug/l							
Surrogate: 4-BFB (FID)	*10.7*		*ug/l*	*10.0*		*107*	*65-140*			
LCS Analyzed: 08/29/2005 (5H29076-BS1)										
Volatile Fuel Hydrocarbons (C6-C12)	806	50	ug/l	800		101	65-140			
Surrogate: 4-BFB (FID)	*36.6*		*ug/l*	*30.0*		*122*	*65-140*			
Matrix Spike Analyzed: 08/29/2005 (5H29076-MS1)					**Source: IOH1715-01**					
Volatile Fuel Hydrocarbons (C6-C12)	233	50	ug/l	220	ND	106	60-145			
Surrogate: 4-BFB (FID)	*10.0*		*ug/l*	*10.0*		*100*	*65-140*			

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Pat Abe
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Delta Env. Consultants - Aliso Viejo
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Attention: Steve Pence

Project ID: ARCO 6131, Costa Mesa

Report Number: IOH1702

Sampled: 08/19/05
Received: 08/19/05

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H29076 Extracted: 08/29/05										
Matrix Spike Dup Analyzed: 08/29/2005 (5H29076-MSD1)					**Source: IOH1715-01**					
Volatile Fuel Hydrocarbons (C6-C12)	241	50	ug/l	220	ND	110	60-145	3	20	
Surrogate: 4-BFB (FID)	*10.7*		*ug/l*	*10.0*		*107*	*65-140*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H27009 Extracted: 08/27/05										
Blank Analyzed: 08/27/2005 (5H27009-BLK1)										
Benzene	ND	2.0	ug/l							
Ethylbenzene	ND	2.0	ug/l							
Toluene	ND	2.0	ug/l							
m,p-Xylenes	ND	2.0	ug/l							
o-Xylene	ND	2.0	ug/l							
Xylenes, Total	ND	4.0	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	ug/l							
tert-Butanol (TBA)	ND	50	ug/l							
Ethanol	ND	150	ug/l							
Surrogate: Dibromofluoromethane	*27.0*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: Toluene-d8	*27.4*		*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
LCS Analyzed: 08/27/2005 (5H27009-BS1)										
Benzene	27.2	2.0	ug/l	25.0		109	65-120			
Ethylbenzene	27.5	2.0	ug/l	25.0		110	70-125			
Toluene	27.0	2.0	ug/l	25.0		108	70-125			
m,p-Xylenes	54.0	2.0	ug/l	50.0		108	70-125			
o-Xylene	27.5	2.0	ug/l	25.0		110	70-125			
Xylenes, Total	81.4	4.0	ug/l	75.0		109	70-125			
Di-isopropyl Ether (DIPE)	30.8	5.0	ug/l	25.0		123	60-135			
Ethyl tert-Butyl Ether (ETBE)	30.2	5.0	ug/l	25.0		121	60-135			
tert-Amyl Methyl Ether (TAME)	30.8	5.0	ug/l	25.0		123	60-135			
Methyl-tert-butyl Ether (MTBE)	28.7	5.0	ug/l	25.0		115	55-140			
tert-Butanol (TBA)	130	50	ug/l	125		104	65-135			
Ethanol	281	150	ug/l	250		112	35-160			
Surrogate: Dibromofluoromethane	*26.9*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: Toluene-d8	*26.6*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			

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Attention: Steve Pence

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H27009 Extracted: 08/27/05										
Matrix Spike Analyzed: 08/27/2005 (5H27009-MS1)					**Source: IOH1715-01**					
Benzene	29.6	2.0	ug/l	25.0	ND	118	60-125			
Ethylbenzene	29.4	2.0	ug/l	25.0	ND	118	65-130			
Toluene	29.2	2.0	ug/l	25.0	ND	117	65-125			
m,p-Xylenes	60.4	2.0	ug/l	50.0	ND	121	60-130			
o-Xylene	30.8	2.0	ug/l	25.0	ND	123	60-125			
Xylenes, Total	91.2	4.0	ug/l	75.0	ND	122	60-130			
Di-isopropyl Ether (DIPE)	35.8	5.0	ug/l	25.0	ND	143	60-140			*LM,AY*
Ethyl tert-Butyl Ether (ETBE)	34.8	5.0	ug/l	25.0	ND	139	55-135			*LM,AY*
tert-Amyl Methyl Ether (TAME)	35.3	5.0	ug/l	25.0	ND	141	55-140			*LM,AY*
Methyl-tert-butyl Ether (MTBE)	33.0	5.0	ug/l	25.0	ND	132	50-150			
tert-Butanol (TBA)	146	50	ug/l	125	ND	117	60-145			
Ethanol	337	150	ug/l	250	ND	135	35-160			
Surrogate: Dibromofluoromethane	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.0*		*ug/l*	*25.0*		*92*	*80-120*			
Matrix Spike Dup Analyzed: 08/27/2005 (5H27009-MSD1)					**Source: IOH1715-01**					
Benzene	28.7	2.0	ug/l	25.0	ND	115	60-125	3	20	
Ethylbenzene	28.7	2.0	ug/l	25.0	ND	115	65-130	2	20	
Toluene	28.5	2.0	ug/l	25.0	ND	114	65-125	2	20	
m,p-Xylenes	57.9	2.0	ug/l	50.0	ND	116	60-130	4	25	
o-Xylene	28.5	2.0	ug/l	25.0	ND	114	60-125	8	20	
Xylenes, Total	86.4	4.0	ug/l	75.0	ND	115	60-130	5	20	
Di-isopropyl Ether (DIPE)	33.2	5.0	ug/l	25.0	ND	133	60-140	8	25	
Ethyl tert-Butyl Ether (ETBE)	31.8	5.0	ug/l	25.0	ND	127	55-135	9	25	
tert-Amyl Methyl Ether (TAME)	32.5	5.0	ug/l	25.0	ND	130	55-140	8	30	
Methyl-tert-butyl Ether (MTBE)	30.0	5.0	ug/l	25.0	ND	120	50-150	10	25	
tert-Butanol (TBA)	148	50	ug/l	125	ND	118	60-145	1	25	
Ethanol	340	150	ug/l	250	ND	136	35-160	1	30	
Surrogate: Dibromofluoromethane	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.6*		*ug/l*	*25.0*		*90*	*80-120*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H29009 Extracted: 08/29/05										
Blank Analyzed: 08/29/2005 (5H29009-BLK1)										
Benzene	ND	2.0	ug/l							
Ethylbenzene	ND	2.0	ug/l							
Toluene	ND	2.0	ug/l							
m,p-Xylenes	ND	2.0	ug/l							
o-Xylene	ND	2.0	ug/l							
Xylenes, Total	ND	4.0	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	ug/l							
tert-Butanol (TBA)	ND	50	ug/l							
Ethanol	ND	150	ug/l							
Surrogate: Dibromofluoromethane	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-120*			
LCS Analyzed: 08/29/2005 (5H29009-BS1)										
Benzene	24.5	2.0	ug/l	25.0		98	65-120			
Ethylbenzene	24.6	2.0	ug/l	25.0		98	70-125			
Toluene	23.6	2.0	ug/l	25.0		94	70-125			
m,p-Xylenes	52.5	2.0	ug/l	50.0		105	70-125			
o-Xylene	26.6	2.0	ug/l	25.0		106	70-125			
Xylenes, Total	79.1	4.0	ug/l	75.0		105	70-125			
Di-isopropyl Ether (DIPE)	25.4	5.0	ug/l	25.0		102	60-135			
Ethyl tert-Butyl Ether (ETBE)	25.2	5.0	ug/l	25.0		101	60-135			
tert-Amyl Methyl Ether (TAME)	27.7	5.0	ug/l	25.0		111	60-135			
Methyl-tert-butyl Ether (MTBE)	25.9	5.0	ug/l	25.0		104	55-140			
tert-Butanol (TBA)	119	50	ug/l	125		95	65-135			
Ethanol	299	150	ug/l	250		120	35-160			
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			

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Attention: Steve Pence

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Report Number: IOH1702

Sampled: 08/19/05
Received: 08/19/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H29009 Extracted: 08/29/05										
Matrix Spike Analyzed: 08/29/2005 (5H29009-MS1)					**Source: IOH1376-19**					
Benzene	279	20	ug/l	250	ND	112	60-125			
Ethylbenzene	276	20	ug/l	250	ND	110	65-130			
Toluene	270	20	ug/l	250	ND	108	65-125			
m,p-Xylenes	597	20	ug/l	500	ND	119	60-130			
o-Xylene	303	20	ug/l	250	ND	121	60-125			
Xylenes, Total	900	40	ug/l	750	ND	120	60-130			
Di-isopropyl Ether (DIPE)	291	50	ug/l	250	ND	116	60-140			
Ethyl tert-Butyl Ether (ETBE)	285	50	ug/l	250	ND	114	55-135			
tert-Amyl Methyl Ether (TAME)	310	50	ug/l	250	ND	124	55-140			
Methyl-tert-butyl Ether (MTBE)	360	50	ug/l	250	71	116	50-150			
tert-Butanol (TBA)	6800	500	ug/l	1250	5300	120	60-145			
Ethanol	3580	1500	ug/l	2500	ND	143	35-160			
Surrogate: Dibromofluoromethane	*243*		*ug/l*	*250*		*97*	*80-120*			
Surrogate: Toluene-d8	*256*		*ug/l*	*250*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*253*		*ug/l*	*250*		*101*	*80-120*			
Matrix Spike Dup Analyzed: 08/29/2005 (5H29009-MSD1)					**Source: IOH1376-19**					
Benzene	265	20	ug/l	250	ND	106	60-125	5	20	
Ethylbenzene	266	20	ug/l	250	ND	106	65-130	4	20	
Toluene	253	20	ug/l	250	ND	101	65-125	7	20	
m,p-Xylenes	566	20	ug/l	500	ND	113	60-130	5	25	
o-Xylene	285	20	ug/l	250	ND	114	60-125	6	20	
Xylenes, Total	851	40	ug/l	750	ND	113	60-130	6	20	
Di-isopropyl Ether (DIPE)	273	50	ug/l	250	ND	109	60-140	6	25	
Ethyl tert-Butyl Ether (ETBE)	266	50	ug/l	250	ND	106	55-135	7	25	
tert-Amyl Methyl Ether (TAME)	293	50	ug/l	250	ND	117	55-140	6	30	
Methyl-tert-butyl Ether (MTBE)	342	50	ug/l	250	71	108	50-150	5	25	
tert-Butanol (TBA)	6640	500	ug/l	1250	5300	107	60-145	2	25	
Ethanol	3640	1500	ug/l	2500	ND	146	35-160	2	30	
Surrogate: Dibromofluoromethane	*238*		*ug/l*	*250*		*95*	*80-120*			
Surrogate: Toluene-d8	*251*		*ug/l*	*250*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*253*		*ug/l*	*250*		*101*	*80-120*			

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DATA QUALIFIERS AND DEFINITIONS

AZ	Surr. recovery outside of acceptance limits due to matrix interf.
LM,AY	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For Volatile Fuel Hydrocarbons (C6-C12):

Volatile Fuel Hydrocarbons (C6-C12) are quantitated against a gasoline standard.

8015 Analysis EDF Parlabel Cross Reference

Analyte	EDF Parlabel
Volatile Fuel Hydrocarbons (C6-C12)	GROC6C12

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Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	Nelac	California
EDD	Water		
EPA 8015 Mod.	Water	X	X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

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BP

Chain of Custody Record

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

Project Name 6131 Costa Mesa, CA
BP BU/AR Region/Enfos Segment Remediation Management, WEST, Orange/Desert
State of Lead Regulatory Agency

YEAR 2005
gwsfof 6 COC 4-8-05 CA.xls

Requested Due Date (mm/dd/yy) 10 Days
COC TRACKING No.

Lab Name:	Delmar Analytical	BP/AR Facility No.	## 6131	Consultant/Contractor:	Delta Env. Consultants, Inc.
Lab Address	17461 Derian Ave, Ste 100	BP/AR Facility Address	3201 Harbor Blvd.	Address:	27141 Aliso Creek Road, Suite 270
	Irvine, CA 92614	Site Lat/Long	n/a		Aliso Viejo, CA 92656
Lab PM:	Pat Abe	California Global ID #	T0605902~~574~~ 1336	e-mail EDD to:	ckuhlmann@deltaenv.com
Tele/Fax.	949-261-1022	Enfos Project No.	G07M-0006 R. 3/22/05	Consultant/Contractor Project No.:	G0B7M
BP/AR PM Contact Name.	Darrell Fah	Provision or RCOP	P	Consultant/Contractor Tele/Fax:	949-860-0204
Address:	6 Centerpointe Drive	Phase/WBS		Consultant/Contractor PM:	Steve Pence
	La Palma, CA 90623	Subphase/Task	5	Invoice to:	Enfos
Tele/Fax:		Cost Element	27	Report Type and QC level:	Level 1

Lab Bottle Order No: 10H1702

Item No.	Sample Description	Time	Date	Matrix SOIL	Matrix WATER	Matrix AIR	Laboratory Tracking Number	No. of containers	Unpreserved	H2SO4	HNO3	HCl	Methanol	Ice	TPH-G 8015M	BTEX OXYS ETOH 8260B	BTEX 8021B	OXYS ETOH 8260	FULL SCAN 8260	Sample Point Lat/Long Comments
1	B-8	10:29	8/19/05		x			5				x		x	x	x				
2	B-9	11:00	8/19/05		x			5				x		x	x	x				
3	B-10	11:25	8/19/05		x			5				x		x	x	x				
4	EA-2	11:48	8/19/05		x			5				x		x	x	x				
5	B-6	12:00	8/19/05		x			5				x		x	x	x				
6	Trip Blank				x			5				x		x	x	x				
7																				
8																				
9																				
10																				

Sampler's Name:	Juan Velasquez	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	Doulos	Doulos	8/19/05	13:00			
Shipment Date:							
Shipment Method:							
Shipment Tracking No:						8/19/05	13:00

Special Instructions:

Custody seals in place (circle one) Y N/A (circle) Temp Blank (circle one) Y N (circle) Cooler Temperature on Receipt 2 F/C (circle one) Trip Blank? Y / N (circle one)

ATTACHMENT C

Sampling Information Sheet

Site	Well ID	Date	Depth to Product	Depth to Water	Comments
6131	**B-4**	8/19/05	NP	23.38	
6131	**B-8**	8/19/05	NP	24.86	
6131	**EA-1**	8/19/05	NP	23.50	
6131	**B-5**	8/19/05	NP	21.71	
6131	**EA-3**	8/19/05	NP	22.12	
6131	**B-9**	8/19/05	NP	23.87	
6131	**B-10**	8/19/05	NP	23.87	
6131	**EA-2**	8/19/05	NP	24.16	
6131	**B-6**	8/19/05	NP	24.15	

WELL ID:	B-4	B-8	EA-1	B-5	EA-3	B-9	B-10	EA-2	B-6
Traffic Control level (0,1,2,3,4,N)	2	3	2	3	2	3	4	3	0
Traffic control added at well (time or none)									
Vent well cover & accumulated water									
Well diameter (in)	4	4	4	4	4	4	4	4	4
Surface seal (C/P) (tap G)	G	G	G	G	G	G	G	G	G
Concrete seal (C/P) (tap G)	G	G	G	G	G	G	G	G	G
Lock secure (Y/N) (tap Y)	Y	Y	Y	Y	Y	Y	Y	Y	Y
Closed (Y/N) (tap Y)	Y	Y	Y	Y	Y	Y	Y	Y	Y
Lock (Y/N) (tap Y)	Y	Y	Y	Y	Y	Y	Y	Y	Y
Expanding cap (Y/N) (tap Y)	Y	Y	Y	Y	Y	Y	Y	Y	Y
Time capped	10:15	10:29	10:35	10:40	10:47	11:00	11:25	11:48	12:00
Depth to product (ft) (tap NP)	NP	NP	NP	NP	NP	NP	NP	NP	NP
Depth to water (ft):	23.38	24.86	23.50	21.71	22.12	23.87	23.87	24.16	24.15
Depth to bottom (ft):	-	-	-	-	-	-	-	-	-
Product/sheen on probe or in bailer	N	N	N	N	N	N	N	N	N
Product sample name									
Appearance:									
DO (mg/L):									
Well cover secured (time):									
Traffic cones removed (or none):									
Wellhead parts replaced (Y/N)?	N	N	N	N	N	N	N	N	N
Bolts (no. replaced):									
Lid:									
Lock:									
Locking Cap 4"									
Locking Cap 2" (ENTER):									
C - car, N - not found, S - snow, O - other									

Subjective Wellhead Evaluation Form

Site number (s/s): 6131

Project number: G0B7M

Location (City, State): Costa Mesa, CA

Recorded by: J. Velasquez

Delta Environmental Consultants, Inc.

27141 Aliso Creek Road, Suite 270

Aliso Viejo, CA 92656

(800) 477-7411

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WELL ID:	B-4	A140 - No purge sampling
SAMPLE ID:	B-4	
Traffic control set up at well (start time):		
Traffic control set up (end time):		
Sampled by disposable bailer (Y/N)?		
Time sampled:		

	T (deg C)	pH	Cond (mS/cm)	DO (mg/L)

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA		HCl	<2	none

No of containers:	
Sample color / clarity:	
Duplicate sample number:	
Time collected:	
Samples cooled by ice (Y/N)?	
Any conditions affecting sample quality (Y/N)?	
Well cover secured (time):	
Traffic control removed (end time):	
Recorded by:	J. Velasquez

other:	
describe:	

Groundwater Sampling No Purge Sheet		**Delta Environmental Consultants, Inc.**
Site number (s/s):	6131	27141 Aliso Creek Road, Suite 270
Project number:	G0B7M	Aliso Viejo, CA 92656
Address:	3201 Harbor Blvd.	(800) 477-7411
Location (City, State):	Costa Mesa, CA	gwsfof 6 COC 4-6-05 CA.xls

WELL ID:	B-8	A140 - No purge sampling
SAMPLE ID:	B-8	
Traffic control set up at well (start time):		
Traffic control set up (end time):		
Sampled by disposable bailer (Y/N)?	Y	
Time sampled:	10:29	

	T (deg F)	pH	Cond (mS/cm)	DO (mg/L)
	69.5	7.31	400	3.21

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA	5	HCl	<2	none

No of containers:	5		
Sample color / clarity:	clear		
Duplicate sample number:			
Time collected:			
Samples cooled by ice (Y/N)?:	Y	other:	
Any conditions affecting sample quality (Y/N)?:	N	describe:	
Well cover secured (time):			
Traffic control removed (end time):			
Recorded by:	J. Velasquez		

Groundwater Sampling No Purge Sheet

Site number (s/s):	6131
Project number:	G0B7M
Address:	3201 Harbor Blvd.
Location (City, State):	Costa Mesa, CA

Delta Environmental Consultants, Inc.
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Aliso Viejo, CA 92656
(800) 477-7411

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WELL ID:	EA-1	A140 - No purge sampling
SAMPLE ID:	EA-1	
Traffic control set up at well (start time):		
Traffic control set up (end time):		
Sampled by disposable bailer (Y/N)?		
Time sampled:		

T (deg C)	pH	Cond (mS/cm)	DO (mg/L)

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA		HCl	<2	none

No of containers:	
Sample color / clarity:	
Duplicate sample number:	
Time collected:	
Samples cooled by ice (Y/N)?:	
Any conditions affecting sample quality (Y/N)?:	
Well cover secured (time):	
Traffic control removed (end time):	
Recorded by:	J. Velasquez

other:	
describe:	

Groundwater Sampling No Purge Sheet

Site number (s/s):	6131
Project number:	G0B7M
Address:	3201 Harbor Blvd.
Location (City, State):	Costa Mesa, CA

Delta Environmental Consultants, Inc.
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Aliso Viejo, CA 92656
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WELL ID:	B-5	A140 - No purge sampling
SAMPLE ID:	B-5	
Traffic control set up at well (start time):		
Traffic control set up (end time):		
Sampled by disposable bailer (Y/N)?		
Time sampled:		

	T (deg C)	pH	Cond (mS/cm)	DO (mg/L)

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA		HCl	<2	none

No of containers:	
Sample color / clarity:	
Duplicate sample number:	
Time collected:	
Samples cooled by ice (Y/N)?:	
Any conditions affecting sample quality (Y/N)?:	
Well cover secured (time):	
Traffic control removed (end time):	
Recorded by:	J. Velasquez

other:

describe:

Groundwater Sampling No Purge Sheet

Site number (s/s):	6131
Project number:	G0B7M
Address:	3201 Harbor Blvd.
Location (City, State):	Costa Mesa, CA

Delta Environmental Consultants, Inc.

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Aliso Viejo, CA 92656

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WELL ID:	EA-3	A140 - No purge sampling
SAMPLE ID:	EA-3	
Traffic control set up at well (start time):		
Traffic control set up (end time):		
Sampled by disposable bailer (Y/N)?		
Time sampled:		

	T (deg C)	pH	Cond (mS/cm)	DO (mg/L)

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA		HCl	<2	none

No of containers:	
Sample color / clarity:	
Duplicate sample number:	
Time collected:	
Samples cooled by ice (Y/N)?:	
Any conditions affecting sample quality (Y/N)?:	
Well cover secured (time):	
Traffic control removed (end time):	
Recorded by:	J. Velasquez

other:	
describe:	

Groundwater Sampling No Purge Sheet

Site number (s/s):	6131
Project number:	G0B7M
Address:	3201 Harbor Blvd.
Location (City, State):	Costa Mesa, CA

Delta Environmental Consultants, Inc.
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WELL ID:	B-9	A140 - No purge sampling
SAMPLE ID:	B-9	
Traffic control set up at well (start time):		
Traffic control set up (end time):		
Sampled by disposable bailer (Y/N)?	Y	
Time sampled:	11:00	

	T (deg F)	pH	Cond (mS/cm)	DO (mg/L)
	69.9	6.65	2850	1.1

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA	5	HCl	<2	none

No of containers:	5		
Sample color / clarity:	clear		
Duplicate sample number:			
Time collected:			
Samples cooled by ice (Y/N)?:	Y	other:	
Any conditions affecting sample quality (Y/N)?:	N	describe:	
Well cover secured (time):			
Traffic control removed (end time):			
Recorded by:	J. Velasquez		

Groundwater Sampling No Purge Sheet

Site number (s/s):	6131
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WELL ID:	B-10	A140 - No purge sampling
SAMPLE ID:	B-10	
Traffic control set up at well (start time):		
Traffic control set up (end time):		
Sampled by disposable bailer (Y/N)?	Y	
Time sampled:	11:25	

	T (deg F)	pH	Cond (mS/cm)	DO (mg/L)
	69.7	6.53	1480	1.19

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA	5	HCl	<2	none

No of containers:	5		
Sample color / clarity:	clear		
Duplicate sample number:			
Time collected:			
Samples cooled by ice (Y/N)?:	Y	other:	
Any conditions affecting sample quality (Y/N)?:	N	describe:	
Well cover secured (time):			
Traffic control removed (end time):			
Recorded by:	J. Velasquez		

Groundwater Sampling No Purge Sheet

Site number (s/s):	6131
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WELL ID:	EA-2	A140 - No purge sampling
SAMPLE ID:	EA-2	
Traffic control set up at well (start time):		
Traffic control set up (end time):		
Sampled by disposable baller (Y/N)?	Y	
Time sampled:	11:48	

	T (deg F)	pH	Cond (mS/cm)	DO (mg/L)
	70.1	6.42	1670	0.91

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA	5	HCl	<2	none

No of containers:	5		
Sample color / clarity:	clear		
Duplicate sample number:			
Time collected:			
Samples cooled by ice (Y/N)?:	Y	other:	
Any conditions affecting sample quality (Y/N)?:	N	describe:	
Well cover secured (time):			
Traffic control removed (end time):			
Recorded by:	J. Velasquez		

Groundwater Sampling No Purge Sheet

Site number (s/s):	6131
Project number:	G0B7M
Address:	3201 Harbor Blvd.
Location (City, State):	Costa Mesa, CA

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WELL ID:	B-6	A140 - No purge sampling
SAMPLE ID:	B-6	
Traffic control set up at well (start time):		
Traffic control set up (end time):		
Sampled by disposable baller (Y/N)?	Y	

	T (deg F)	pH	Cond (mS/cm)	DO (mg/L)
Time sampled: 12:00	70.5	6.43	1200	0.95

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA	5	HCl	<2	none

No of containers:	5		
Sample color / clarity:	clear		
Duplicate sample number:			
Time collected:			
Samples cooled by ice (Y/N)?	Y	other:	
Any conditions affecting sample quality (Y/N)?	N	describe:	
Well cover secured (time):			
Traffic control removed (end time):			
Recorded by:	J. Velasquez		

Groundwater Sampling No Purge Sheet		**Delta Environmental Consultants, Inc.**
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