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December 20, 2000

Mr. Paul Supple
ARCO Products Company
P.O. Box 6549
Moraga, CA 94570

Subject: *Quarterly Groundwater Monitoring Report, Third Quarter 2000*
ARCO Service Station No. 2162
15135 Hesperian Boulevard
San Leandro, California
Project No. D000-310

Dear Mr. Supple:

Delta Environmental Consultants, Inc. is submitting the attached report that presents the results of the third quarter 2000 groundwater monitoring program at ARCO Products Company Service Station No. 2162, located at 15135 Hesperian Boulevard, San Leandro, California. The monitoring program complies with the Alameda County Health Care Services Agency requirements regarding underground tank investigations.

The interpretations contained in this report represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeological and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Trevor L. Atkinson
Project Engineer

Steven W. Meeks, P.E.
Project Manager
California Registered Civil Engineer No. C057461



TLA (Lrp002.310.doc)
Enclosures

cc: Mr. Scott Seery – Alameda County Health Care Services Agency
Mr. John Jang – California Regional Water Quality Control Board, San Francisco Bay Region
Mr. Mike Makaldin – City of San Leandro Fire Department

Providing a Competitive Edge

ARCO QUARTERLY GROUNDWATER MONITORING REPORT

Station No.: 2162 Address: 15135 Hesperian Boulevard, San Leandro, CA
 ARCO Environmental Engineer/Phone No.: Paul Supple 925-299-8891
 Consulting Co./Contact Person Delta Environmental Consultants, Inc.
Steven W. Meeks, P.E.
 Consultant Project No.: D000-310
 Primary Agency/Regulatory ID No. Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER

1. Performed quarterly groundwater monitoring for third quarter 2000.

WORK PROPOSED FOR NEXT QUARTER

1. Prepare and submit quarterly groundwater monitoring report for third quarter 2000.
2. Perform quarterly groundwater monitoring and sampling for fourth quarter 2000.
3. Evaluate site for closure during third quarter 2000

QUARTERLY MONITORING:

Current Phase of Project	<u>Monitoring</u>
Frequency of Groundwater Sampling:	<u>Quarterly: MW-1, MW-2, MW-3, MW-4</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
FP Recovered this Quarter:	<u>N/A</u>
Cumulative FP Recovered to Date:	<u>None</u>
Bulk Soil Removed This Quarter:	<u>None</u>
Bulk Soil Removed to Date:	<u>None</u>
Current Remediation Techniques:	<u>Natural Attenuation</u>
Approximate Depth to Groundwater:	<u>8.81 feet</u>
Groundwater Gradient:	<u>0.01 ft/ft toward southwest</u>

DISCUSSION:

- Methyl tertiary butyl ether (MTBE), total petroleum hydrocarbons as gasoline (TPHg) and benzene were not detected at or above the laboratory reporting limits for the sample collected from MW-1.
- Benzene was detected at 1.02 µg/L in a sample collected from MW-4. MTBE was detected at 128 and 12.2 µg/L in samples collected from MW-3 and MW-4, respectively. TPHg was detected at 266 µg/L in a sample collected from MW-2.

ATTACHMENTS:

- Table 1 Groundwater Elevation and Analytical Data
- Table 2 Groundwater Flow Direction and Gradient
- Figure 1 Groundwater Analytical Summary Map
- Figure 2 Groundwater Elevation Contour Map
- Appendix A Sampling and Analysis Procedures
- Appendix B Historical Data Tables (IT Corporation)
- Appendix C Certified Analytical Reports with Chain-of-Custody Documentation
- Appendix D Field Sampling Data

TABLE 1

GROUNDWATER ANALYTICAL DATA

ARCO Service Station No. 2162
15135 Hesperian Boulevard
San Leandro, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as Gasoline (µg/L)	MTBE (µg/L)
MW-1	6/20/00	31.19	8.33	22.86	<0.5	0.8	<0.5	<1.0	<50	<10
	9/29/00		9.07	22.12	<0.5	<0.5	<0.5	<0.5	<50	<2.5
MW-2	6/20/00	30.38	7.38	23.00	NS	NS	NS	NS	NS	NS
	9/29/00		8.08	22.30	<0.5	<0.5	<0.5	<0.5	266	<2.5
MW-3	6/20/00	30.30	7.75	22.55	NS	NS	NS	NS	NS	NS
	9/29/00		8.46	21.84	<0.5	<0.5	<0.5	<0.5	<50	128
MW-4	6/20/00	30.39	8.87	21.52	NS	NS	NS	NS	NS	NS
	9/29/00		9.61	20.78	1.02	<0.5	<0.5	<0.5	<50	12.2

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted

µg/L = Micrograms per liter

NS = Not sampled

Note: Please refer to Appendix B for Historical Groundwater Elevation and Analytical Data Tables developed by IT Corporation

TABLE 2

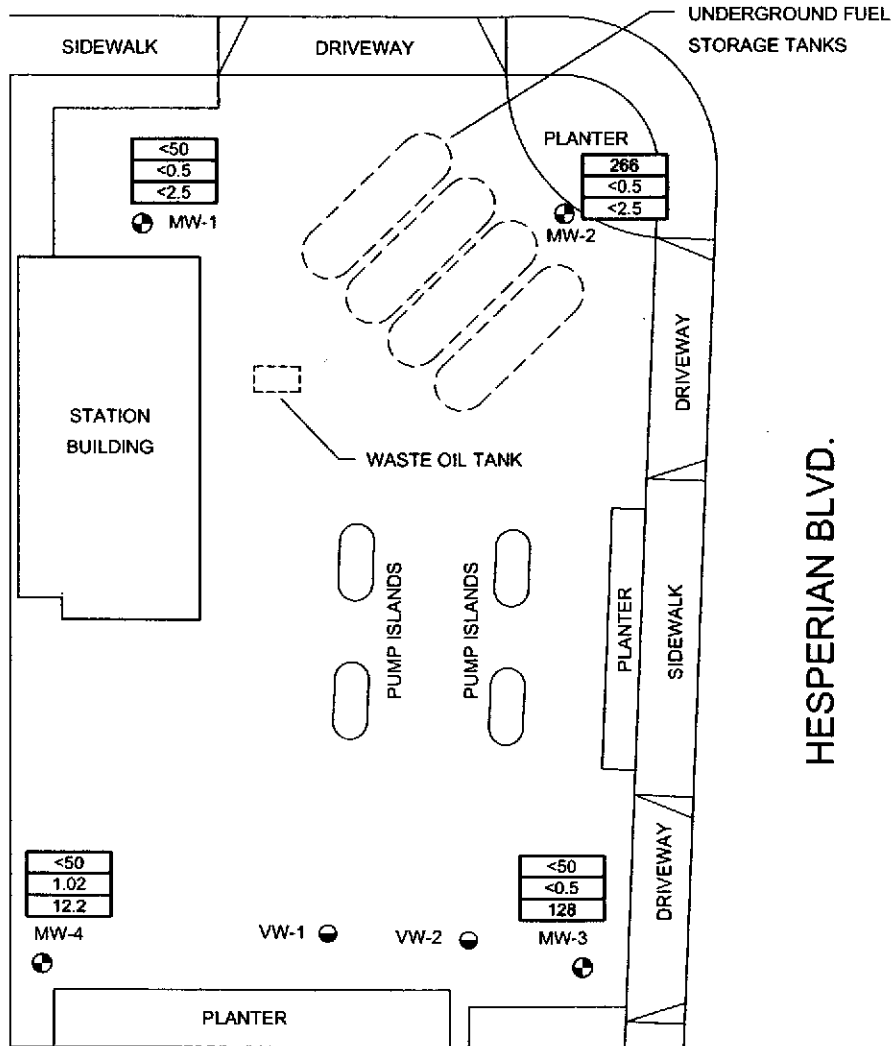
GROUNDWATER FLOW DIRECTION AND GRADIENT

ARCO Service Station No. 2162
15135 Hesperian Boulevard
San Leandro, California

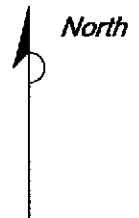
<u>Date Measured</u>	<u>Average Flow Direction</u>	<u>Average Hydraulic Gradient</u>
06/20/00	Southwest	0.01
09/29/00	Southwest	0.01

Note: Please refer to Appendix B for Historical Groundwater Elevation and Analytical Data
Tables developed by IT Corporation

RUTH COURT



HESPERIAN BLVD.




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

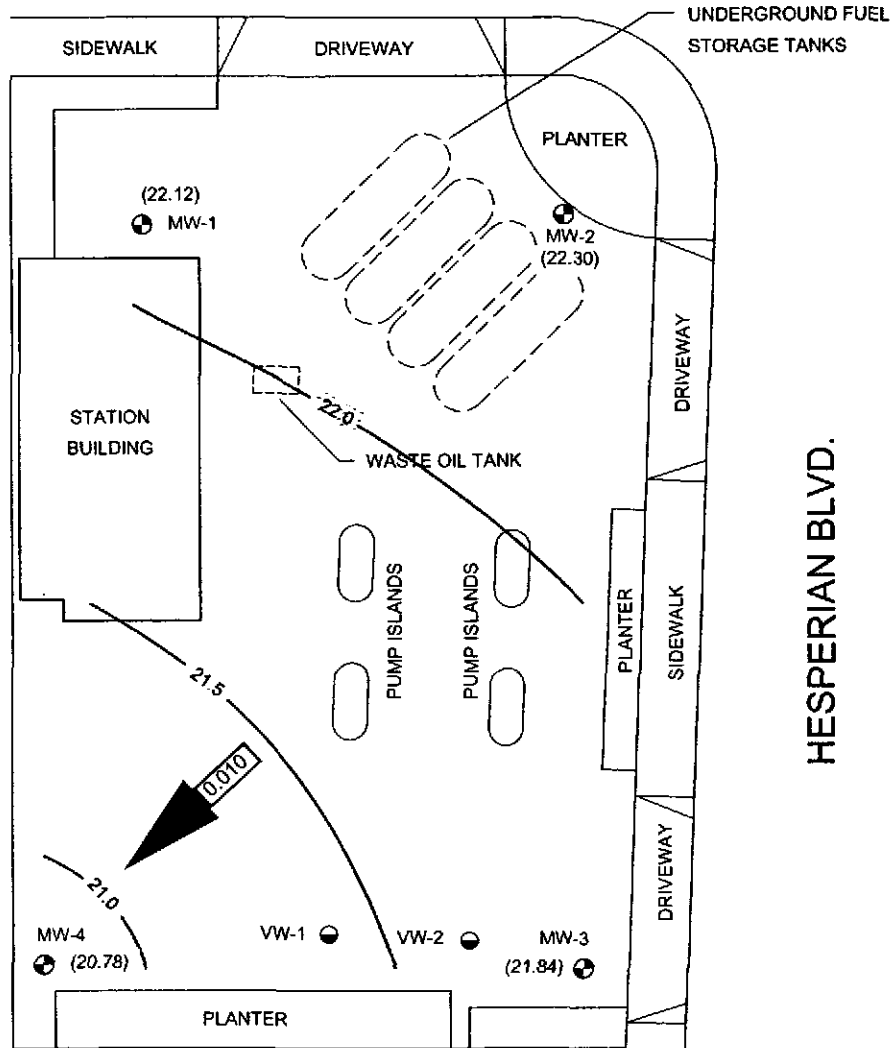
LEGEND:

- ⊕ MW-1 MONITORING WELL LOCATION
- ⊙ VW-1 SOIL VAPOR EXTRACTION WELL LOCATION
- | |
|------|
| <50 |
| <0.5 |
| <10 |

 TPH AS GASOLINE IN MICROGRAMS PER LITER
 BENZENE IN MICROGRAMS PER LITER
 MTBE IN MICROGRAMS PER LITER
- NS NOT SAMPLED

FIGURE 1 GROUND WATER ANALYTICAL SUMMARY THIRD QUARTER 2000 (9/29/00) ARCO STATION NO. 2162 15135 HESPERIAN BOULEVARD SAN LEANDRO, CALIFORNIA		
PROJECT NO. D000-310	DRAWN BY TLA 11/1/00	
FILE NO. 2162-1	PREPARED BY TLA	
REVISION NO. 1	REVIEWED BY	

RUTH COURT



HESPERIAN BLVD.



LEGEND:

- MW-1 MONITORING WELL LOCATION
- VW-1 SOIL VAPOR EXTRACTION WELL LOCATION
- (22.12) GROUND WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL)
- 22.0 — WATER TABLE CONTOUR IN FEET ABOVE MSL
- GROUND WATER FLOW DIRECTION
- APPROXIMATE GROUND WATER FLOW GRADIENT

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

FIGURE 2 GROUND WATER ELEVATION CONTOUR MAP THIRD QUARTER 2000 (9/29/00) ARCO STATION NO. 2162 15135 HESPERIAN BOULEVARD SAN LEANDRO, CALIFORNIA	
PROJECT NO. D000-310	DRAWN BY TLA 8/2/00
FILE NO. 2162-1	PREPARED BY TLA
REVISION NO. 1	REVIEWED BY



APPENDIX A

Sampling and Analysis Procedures

FIELD METHODS AND PROCEDURES

1.0 GROUND WATER AND LIQUID-PHASE HYDROCARBON DEPTH ASSESSMENT

A water/liquid-phase hydrocarbon (LPH) interface probe was used to assess the thickness of LPH, if present, and a water level indicator was used to measure ground water depth in monitoring wells that did not contain LPH. Depth to ground water was measured from the top of each monitoring well casing. The tip of the water level indicator was subjectively analyzed for LPH sheen. All measurements and physical observations were recorded in the field.

2.0 SUBJECTIVE ANALYSIS OF GROUND WATER

Prior to purging, a water sample was collected from the monitoring well for subjective analysis. The sample was retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer was then retrieved and the sample contained within the bailer was examined for LPH and the appearance of a LPH sheen.

3.0 MONITORING WELL PURGING AND SAMPLING

Monitoring wells were purged using a centrifugal pump or disposable bailers until pH, temperature, and conductivity of the purge water had stabilized and a minimum of three to four well volumes of water had been removed. Ground water removed from the wells was stored in 55-gallon barrels at the site. The barrels were labeled with corresponding monitoring well numbers and the date of purging. After purging, ground water levels were allowed to stabilize. A ground water sample was then removed from each of the wells using a dedicated disposable bailer. If the well was purged dry, it was allowed to sufficiently recharge and a sample was collected. Samples were collected in air-tight vials, appropriately labeled, and stored on ice from the time of collection through the time of delivery to the laboratory. A chain-of-custody form was completed to document possession of the samples. Ground water samples were transported to the laboratory and analyzed within the EPA-specified holding times for the requested analyses. Purge water will be collected from the storage barrels in a vacuum truck and transported to an appropriate facility for treatment and/or disposal.

If the depth to groundwater was above the top of screens of the monitoring wells, then the wells were purged. Before sampling occurred, a polyvinyl chloride (PVC) bailer, centrifugal pump, low-flow submersible pump, or Teflon bailer was used to purge standing water in the casing and gravel pack from the monitoring well. Monitoring wells were purged according to the protocol previously stated in the first paragraph of this sub-section. In most monitoring wells, the amount of water purged before sampling was greater than or equal to three casing volumes. Some monitoring wells were expected to be evacuated to dryness after removing fewer than three casing volumes. These low-yield monitoring wells were allowed to recharge for up to 24 hours. Samples were obtained as soon as the monitoring wells recharged to a level sufficient for sample collection. If insufficient water recharged after 24 hours, the monitoring well was recorded as dry for the sampling event.

APPENDIX B

Historical Data Tables

IT Corporation

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-1	02/26/96	31.19	7.14	24.05	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
MW-1	05/23/96	31.19	7.70	23.49	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
MW-1	08/21/96	31.19	8.75	22.44	210	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-1	11/20/96	31.19	8.62	22.57	91	<0.5	<0.5	<0.5	<0.5	2.6	NA	NA	
MW-1	04/01/97	31.19	8.70	22.49	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NP
MW-1	06/10/97	31.19	8.45	22.74	94	<0.5	<0.5	0.68	0.56	6.4	NA	NA	NP
MW-1	09/17/97	31.19	9.20	21.99	<50	<0.5	<0.5	<0.5	<0.5	10	NA	1.0	NP
MW-1	12/12/97	31.19	8.00	23.19	<200	<2	<2	<2	<2	180	NA	2.0	NP
MW-1	03/25/98	31.19	7.00	24.19	<200	<2	<2	3	<2	180	NA	2.0	
MW-1	05/14/98	31.19	7.46	23.73	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	1.17	P
MW-1	07/31/98	31.19	8.10	23.09	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	2.0	NP
MW-1	10/12/98	31.19	8.60	22.59	<50	<0.5	<0.5	<0.5	<0.5	9	NA	2.5	NP
MW-1	02/11/99	31.19	7.32	23.87	<50	<0.5	<0.5	<0.5	<0.5	25	NA	1.0	P
MW-1	06/23/99	31.19	8.40	22.79	55	<0.5	<0.5	<0.5	<0.5	<3	NA	1.36	NP
MW-1	08/23/99	31.19	8.85	22.34	<50	<0.5	0.6	<0.5	<0.5	5	NA	1.42	NP
MW-1	10/27/99	31.19	8.50	22.69	<50	<0.5	<0.5	<0.5	<1	90	NA	0.83	NP
MW-1	02/09/00	31.19	8.11	23.08	<50	<0.5	<0.5	<0.5	<1	9	NA	0.77	NP
MW-2	02/26/96	30.38	6.41	23.97	770	<0.5	<0.5	45	28	NA	NA	NA	
MW-2	05/23/96	30.38	6.80	23.58	590	0.50	<0.5	35	18	NA	NA	NA	
MW-2	08/21/96	30.38	7.80	22.58	170	<0.5	<0.5	21	6.3	<2.5	NA	NA	
MW-2	11/20/96	30.38	7.73	22.65	88	<0.5	<0.5	7.9	1.1	<2.5	NA	NA	
MW-2	04/01/97	30.38	7.83	22.55	66	<0.5	<0.5	3.6	0.56	33	NA	NA	
MW-2	06/10/97	30.38	7.52	22.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NP
MW-2	09/17/97	30.38	8.24	22.14	<50	<0.5	<0.5	<0.5	<0.5	<3.0	NA	0.6	NP
MW-2	12/12/97	30.38	7.10	23.28	<50	<0.5	<0.5	<0.5	<0.5	<3.0	NA	1.2	NP
MW-2	03/25/98	30.38	6.27	24.11	<50	<0.5	<0.5	0.7	0.5	55	NA	1.0	
MW-2	05/14/98	30.38	6.54	23.84	210	<0.5	<0.5	3.3	<0.5	42	NA	1.47	P
MW-2	07/31/98	30.38	7.14	23.24	230	<0.5	<0.5	3.9	<0.5	6	NA	1.0	P

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-2	10/12/98	30.38	7.65	22.73	110	<0.5	<0.5	1.5	<0.5	<3	NA	1.0	P
MW-2	02/11/99	30.38	6.55	23.83	660	<0.5	<0.5	6.7	0.7	3	NA	1.0	P
MW-2	06/23/99	30.38	7.48	22.90	270	<0.5	<0.5	2.2	0.8	<3	NA	NM	P
MW-2	08/23/99	30.38	7.89	22.49	200	<0.5	0.9	1.8	<0.5	<3	NA	1.17	P
MW-2	10/27/99	30.38	8.30	22.08	2,100	1.0	2.5	14	3	3	NA	0.75	NP
MW-2	02/09/00	30.38	8.02	22.36	<50	<0.5	<0.5	<0.5	<1	5	NA	0.69	NP
MW-3	02/26/96	30.30	6.72	23.58	120	5.0	<0.5	<0.5	<0.5	NA	NA	NA	
MW-3	05/23/96	30.30	7.18	23.12	140	12	<0.5	<0.5	<0.5	NA	NA	NA	
MW-3	08/21/96	30.30	8.17	22.13	<50	1.1	<0.5	<0.5	<0.5	130	NA	NA	
MW-3	11/20/96	30.30	8.03	22.27	55	<0.5	<0.5	<0.5	<0.5	59	NA	NA	
MW-3	04/01/97	30.30	8.09	22.21	<50	<0.5	<0.5	<0.5	<0.5	180	NA	NA	NP
MW-3	06/10/97	30.30	7.97	22.33	<50	<0.5	<0.5	<0.5	<0.5	1,900	NA	NA	NP
MW-3	09/17/97	30.30	8.54	21.76	<5,000	<50	<50	<50	<50	1,100	860	2.2	NP
MW-3	12/12/97	30.30	7.50	22.80	560	<5.0	<5.0	<5.0	5.0	370	NA	1.4	NP
MW-3	03/25/98	30.30	6.60	23.70	<500	<5	<5	<5	<5	470	NA	1.0	
MW-3	05/14/98	30.30	7.13	23.17	750	<5	<5	<5	<5	630	NA	1.97	P
MW-3	07/31/98	30.30	7.58	22.72	<500	<5	<5	<5	<5	590	NA	1.0	P
MW-3	10/12/98	30.30	8.00	22.30	<500	<5	<5	<5	<5	600	NA	2.0	P
MW-3	02/11/99	30.30	6.90	23.40	<500	<5	<5	<5	<5	280	NA	1.0	P
MW-3	06/23/99	30.30	7.82	22.48	220	<0.5	3.2	<0.5	<0.5	740	NA	1.98	P
MW-3	08/23/99	30.30	8.28	22.02	<50	<0.5	1.1	<0.5	<0.5	230	NA	1.20	P
MW-3	10/27/99	30.30	9.27	21.03	<50	<0.5	<0.5	<0.5	<1	<3	NA	0.81	NP
MW-3	02/09/00	30.30	7.45	22.85	<50	<0.5	<0.5	<0.5	<1	80	NA	0.81	P
MW-4	02/26/96	30.39	7.59	22.80	110	9.9	<0.5	<0.5	<0.5	NA	NA	NA	
MW-4	05/23/96	30.39	8.22	22.17	69	8.0	<0.5	<0.5	<0.5	NA	NA	NA	
MW-4	08/21/96	30.39	9.28	21.11	<50	6.8	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-4	11/20/96	30.39	9.12	21.27	95	10	0.59	<0.5	0.52	3.8	NA	NA	

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-4	04/01/97	30.39	8.45	21.94	73	5.7	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-4	06/10/97	30.39	9.00	21.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NP
MW-4	09/17/97	30.39	9.76	20.63	<50	3.2	<0.5	<0.5	<0.5	8.0	NA	0.2	NP
MW-4	12/12/97	30.39	8.45	21.94	<50	2.9	<0.5	<0.5	<0.5	14	NA	1.0	NP
MW-4	03/25/98	30.39	7.52	22.87	58	2.8	<0.5	<0.5	<0.5	<3	NA	3.0	
MW-4	05/14/98	30.39	8.03	22.36	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	3.24	NP
MW-4	07/31/98	30.39	8.67	21.72	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	2.0	NP
MW-4	10/12/98	30.39	9.15	21.24	<50	<0.5	<0.5	<0.5	<0.5	4	NA	1.5	NP
MW-4	02/11/99	30.39	7.80	22.59	61	2.5	<0.5	<0.5	<0.5	6	NA	1.0	P
MW-4	06/23/99	30.39	9.00	21.39	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	1.42	NP
MW-4	08/23/99	30.39	9.31	21.08	<50	<0.5	<0.5	<0.5	<0.5	6	NA	1.53	NP
MW-4	10/27/99	30.39	9.80	20.59	<50	<0.5	<0.5	<0.5	<1	6	NA	0.98	NP
MW-4	02/09/00	30.39	8.63	21.76	<50	<0.5	<0.5	<0.5	<1	7	NA	0.74	NP

TPPH = Total purgeable petroleum hydrocarbons by modified EPA method 8015
BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 10/27/99).
MTBE = Methyl tert -Butyl Ether
* = EPA method 8020 prior to 10/27/99
MSL = Mean sea level
TOC = Top of casing
ppb = Parts per billion
ppm = Parts per million
NA = Not analyzed
NM = Not measured
< = Denotes concentration not present above laboratory detection limited stated to the right

Table 2
Groundwater Flow Direction and Gradient

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

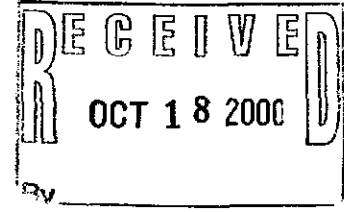
Date Measured	Average Flow Direction	Average Hydraulic Gradient
02/26/96	Southwest	0.009
05/23/96	South-Southwest	0.010
08/21/96	South-Southwest	0.01
11/20/96	South-Southwest	0.011
04/01/97	South-Southwest	0.004
06/10/97	South-Southwest	0.010
09/17/97	South-Southwest	0.01
12/12/97	Southwest	0.01
03/25/98	South-Southwest	0.008
05/14/98	Southwest	0.01
07/31/98	Southwest	0.01
10/12/98	Southwest	0.01
02/11/99	Southwest	0.008
06/23/99	Southwest	0.02
08/23/99	Southwest	0.013
10/27/99	South-Southwest	0.02
02/09/00	Southwest	0.01

APPENDIX C

**Certified Analytical Reports
And
Chain-of-Custody Documentation**



October 16, 2000



Steven Meeks
Delta Environmental Consultants - Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670

RE: ARCO 2162, San Leandro, CA/S010028

Dear Steven Meeks

Enclosed are the results of analyses for sample(s) received by the laboratory on October 2, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sandra R. Hanson

Sandra R. Hanson
Client Services Representative

Lito Diaz

Lito Diaz
For
Laboratory Director

CA ELAP Certificate Number 1624





Delta Environmental Consultants - Rancho Cordova 3164 Gold Camp Drive Ste. 200 Rancho Cordova, CA 95670	Project: ARCO 2162, San Leandro, CA Project Number: N/A Project Manager: Steven Meeks	Sampled: 9/28/00 to 9/29/00 Received: 10/2/00 Reported: 10/16/00
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ANALYTICAL REPORT FOR S010028

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1-9	S010028-01	Water	9/29/00
MW-2-8	S010028-02	Water	9/29/00
MW-3-8	S010028-03	Water	9/29/00
MW-4-9	S010028-04	Water	9/29/00
TB	S010028-05	Water	9/28/00





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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
							Water	
MW-1-9				S010028-01			ug/l	
Purgeable Hydrocarbons	0100145	10/13/00	10/16/00		50.0	ND		
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	60.0-140		97.9	%	
							Water	
MW-2-8				S010028-02			ug/l	
Purgeable Hydrocarbons	0100145	10/13/00	10/16/00		50.0	266		1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	60.0-140		89.8	%	
							Water	
MW-3-8				S010028-03			ug/l	
Purgeable Hydrocarbons	0100145	10/13/00	10/16/00		50.0	ND		
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	128	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	60.0-140		99.3	%	
							Water	
MW-4-9				S010028-04			ug/l	
Purgeable Hydrocarbons	0100145	10/13/00	10/16/00		50.0	ND		
Benzene	"	"	"		0.500	1.02	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	12.2	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	60.0-140		89.2	%	
							Water	
TB				S010028-05			ug/l	
Purgeable Hydrocarbons	0100124	10/12/00	10/12/00		50.0	ND		
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	





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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
TB (continued)				S010028-05			Water	
Methyl tert-butyl ether	0100124	10/12/00	10/12/00		2.50	ND	ug/l	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	60.0-140		93.3	%	





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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUEP/Quality Control
 Sequoia Analytical - Sacramento

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0100124		Date Prepared: 10/12/00			Extraction Method: EPA 5030B (MeOH)					
Blank		0100124-BLK1								
Purgeable Hydrocarbons	10/12/00			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		9.40	"	60.0-140	94.0			
LCS		0100124-BS1								
Benzene	10/12/00	10.0		11.4	ug/l	70.0-130	114			
Toluene	"	10.0		11.0	"	70.0-130	110			
Ethylbenzene	"	10.0		10.9	"	70.0-130	109			
Xylenes (total)	"	30.0		32.7	"	70.0-130	109			
Methyl tert-butyl ether	"	10.0		11.1	"	70.0-130	111			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		9.98	"	60.0-140	99.8			
Matrix Spike		0100124-MS1	S010018-01							
Benzene	10/12/00	10.0	ND	10.7	ug/l	60.0-140	107			
Toluene	"	10.0	ND	10.7	"	60.0-140	107			
Ethylbenzene	"	10.0	ND	10.7	"	60.0-140	107			
Xylenes (total)	"	30.0	ND	32.1	"	60.0-140	107			
Methyl tert-butyl ether	"	10.0	ND	10.4	"	60.0-140	104			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		9.52	"	60.0-140	95.2			
Matrix Spike Dup		0100124-MSD1	S010018-01							
Benzene	10/12/00	10.0	ND	11.0	ug/l	60.0-140	110	25.0	2.76	
Toluene	"	10.0	ND	11.0	"	60.0-140	110	25.0	2.76	
Ethylbenzene	"	10.0	ND	10.8	"	60.0-140	108	25.0	0.930	
Xylenes (total)	"	30.0	ND	32.6	"	60.0-140	109	25.0	1.85	
Methyl tert-butyl ether	"	10.0	ND	10.1	"	60.0-140	101	25.0	2.93	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		9.42	"	60.0-140	94.2			
Batch: 0100145		Date Prepared: 10/13/00			Extraction Method: EPA 5030B (MeOH)					
Blank		0100145-BLK1								
Purgeable Hydrocarbons	10/16/00			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				





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Total Purgeable Hydrocarbons (C6-C12), BTBE, and MTBE by DHS/LDF/Quality Control
Sequoia Analytical - Sacramento

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)										
0100145-BLK1										
Surrogate: a,a,a-Trifluorotoluene	10/16/00	10.0		9.46	ug/l	60.0-140	94.6			
LCS										
0100145-BS1										
Benzene	10/16/00	10.0		11.2	ug/l	70.0-130	112			
Toluene	"	10.0		10.8	"	70.0-130	108			
Ethylbenzene	"	10.0		10.8	"	70.0-130	108			
Xylenes (total)	"	30.0		32.2	"	70.0-130	107			
Methyl tert-butyl ether	"	10.0		11.4	"	70.0-130	114			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.93	"	60.0-140	99.3			
Matrix Spike										
0100145-MS1 S010028-01										
Benzene	10/16/00	10.0	ND	10.6	ug/l	60.0-140	106			
Toluene	"	10.0	ND	10.6	"	60.0-140	106			
Ethylbenzene	"	10.0	ND	10.6	"	60.0-140	106			
Xylenes (total)	"	30.0	ND	32.1	"	60.0-140	107			
Methyl tert-butyl ether	"	10.0	ND	10.5	"	60.0-140	105			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.31	"	60.0-140	93.1			
Matrix Spike Dup										
0100145-MSD1 S010028-01										
Benzene	10/16/00	10.0	ND	10.7	ug/l	60.0-140	107	25.0	0.939	
Toluene	"	10.0	ND	10.6	"	60.0-140	106	25.0	0	
Ethylbenzene	"	10.0	ND	10.6	"	60.0-140	106	25.0	0	
Xylenes (total)	"	30.0	ND	32.2	"	60.0-140	107	25.0	0	
Methyl tert-butyl ether	"	10.0	ND	14.1	"	60.0-140	141	25.0	29.3	2
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.38	"	60.0-140	93.8			





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Notes and Definitions

#	Note
1	Chromatogram Pattern: Weathered Gasoline C6-C12
2	The RPD and/or spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference





3164 Gold Camp Drive, Suite 200
 Rancho Cordova, California 95670
 Direct: (916) 638-2085
 Fax: (916) 638-8385

Site Contact & Phone Number: _____

Arco Site Address: 15135 Hesperian Blvd Arco Site Number: Arco 2162
San Leandro, California Delta Project No.: D000-310
 Arco Project Manager: Paul Supple Delta Project PM: Steve Meeks
 Site Sampled By: Doulos Date Sampled: 09/29/00

Water Level Data						Purge Volume Calculations					Sampling Analytes				Sample Record			
Well ID	Time	Depth to Water (feet)	Top of Screen Interval (feet)	Total Depth of Well (feet)	Check if Purge Not Required	Casing Water Column (A)	Well Diameter (inches)	Multiplier Value (B)	Three Casing Volumes (gallons)	Actual Water Purged (gallons)	BTEX (8020) VOA	TPH-g (8015M) VOA	MTBE (8020) VOA	Other	Dissolved Oxygen (mg/L)	Sample Frequency (A, S, Q)	Sample I.D.	Sample Time
MW-1	7:40	9.07	8.0	15.9	<input type="checkbox"/>	6.78	4 inch	2.0	13.6	13.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.09	Q/5,8,11	MW-1	
MW-2	7:43	8.08	8.0	15.9	<input type="checkbox"/>	7.79	4 inch	2.0	15.6	15.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.34	Q/5,8,11	MW-2	
MW-3	7:46	8.46	9.0	14.8	<input type="checkbox"/>	6.30	4 inch	2.0	12.6	12.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.29	Q/5,8,11	MW-3	
MW-4	7:50	9.61	8.0	17.5	<input type="checkbox"/>	7.84	4 inch	2.0	15.7	15.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.32	Q/5,8,11	MW-4	
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3164 Gold Camp Drive, Suite 200
 Rancho Cordova, California 95670
 Direct: (916) 638-2085
 Fax: (916) 638-8385

Arco Site Address: 15135 Hesperian Blvd
San Leandro, California

Arco Site Number: Arco 2162
 Delta Project No.: D000-310
 Delta Project PM: Steve Meeks
 Date Sampled: 09/29/00

Arco Project Manager: Paul Supple

Site Sampled By: Doulos

Site Contact & Phone Number: _____

Well ID	Time	Temp °C	pH Units	Sp. Cond.	Gallons	Well ID	Time	Temp °C	pH Units	Sp. Cond.	Gallons	Well ID	Time	Temp °C	pH Units	Sp. Cond.	Gallons
MW-1	7:56	24.4	7.30	1,569	1												
	7:57	23.9	7.26	1,562	2												
	7:58	23.6	7.24	1,559	3												
MW-2	8:06	23.0	7.86	219	1												
	8:07	22.6	7.79	210	2												
	8:08	22.2	7.74	203	3												
MW-3	8:24	24.6	7.36	225	1												
	8:25	24.0	7.29	219	2												
	8:26	23.7	7.25	216	3												
MW-4	8:46	23.4	7.58	233	1												
	8:47	22.9	7.50	227	2												
	8:48	22.3	7.47	223	3												

Notes: NP = NO PURGE