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December 21, 2001

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

Subject: ~~Quarterly Groundwater Monitoring Report, Third Quarter 2001~~
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 2001 groundwater monitoring program at ARCO 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.

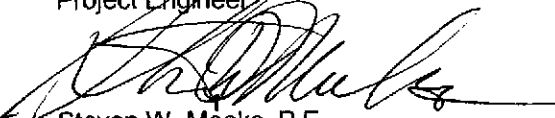
The interpretations contained in this report represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeological and engineering practices 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 (Lrp006.310.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 Bakaldin – City of San Leandro Fire Department

Providing a Competitive Edge

ARCO QUARTERLY GROUNDWATER MONITORING REPORT

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

WORK PERFORMED THIS QUARTER

1. Performed quarterly groundwater monitoring for third quarter 20001
2. Prepared quarterly groundwater monitoring report for second quarter 2001.

WORK PROPOSED FOR NEXT QUARTER

1. Prepare and submit quarterly groundwater monitoring report for third quarter 2001.
2. Perform quarterly groundwater monitoring and sampling for fourth quarter 2001.

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>9.27 feet</u>
Groundwater Gradient:	<u>0.012 ft/ft toward southwest</u>

DISCUSSION:

- Total petroleum hydrocarbons as gasoline were detected in a sample collected from MW-2 at 190 µg/L.
- Methyl tertiary butyl ether (MTBE) was detected in samples collected from MW-3 and MW-4 at a concentration of 12 and 5.2 µg/L, respectively.
- The travel blank (TB) sample results showed traces of toluene (1.4 µg/L), xylenes (1.0 µg/L) and MTBE (3.4 µg/L) possibly due to cross-contaminated TB source water. However the contaminated TB water should have no bearing on the well sample results.

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)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as Gasoline (µg/L)	MTBE (µg/L)
MW-1	06/20/00	31.19	8.33	22.86	<0.5	0.8	<0.5	<1.0	<50	<10
	09/29/00		9.07	22.12	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	12/17/00		8.69	22.50	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	03/23/01		8.19	23.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	06/20/01		8.97	22.22	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	09/22/01		9.56	21.63	<0.5	<0.5	<0.5	<0.5	<50	<2.5
MW-2	06/20/00	30.38	7.38	23.00	NS	NS	NS	NS	NS	NS
	09/29/00		8.08	22.30	<0.5	<0.5	<0.5	<0.5	266	<2.5
	12/17/00		7.80	22.58	<0.5	<0.5	0.659	<0.5	175	<2.5
	03/23/01		7.23	23.15	<0.5	<0.5	0.912	<0.5	351	<2.5
	06/20/01		7.98	22.40	<0.5	<0.5	0.74	<0.5	360	<2.5
	09/22/01		8.55	21.83	<0.5	<0.5	<0.5	<0.5	190	<2.5
MW-3	06/20/00	30.30	7.75	22.55	NS	NS	NS	NS	NS	NS
	09/29/00		8.46	21.84	<0.5	<0.5	<0.5	<0.5	<50	128
	12/17/00		8.01	22.29	<0.5	<0.5	<0.5	<0.5	<50	46.7
	03/23/01		7.70	22.60	<0.5	<0.5	<0.5	<0.5	<50	26.8
	06/20/01		8.23	22.07	<0.5	<0.5	<0.5	<0.5	<50	30
	09/22/01		8.89	21.41	<0.5	<0.5	<0.5	<0.5	<50	12

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-4	06/20/00	30.39	8.87	21.52	NS	NS	NS	NS	NS	NS
	09/29/00		9.61	20.78	1.02	<0.5	<0.5	<0.5	<50	12.2
	12/17/00		9.17	21.22	<0.5	<0.5	<0.5	<0.5	<50	5.81
	03/23/01		8.70	21.69	<0.5	<0.5	<0.5	<0.5	<50	3.04
	06/20/01		9.51	20.88	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	09/22/01		10.06	20.33	<0.5	<0.5	<0.5	<0.5	<50	5.2

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

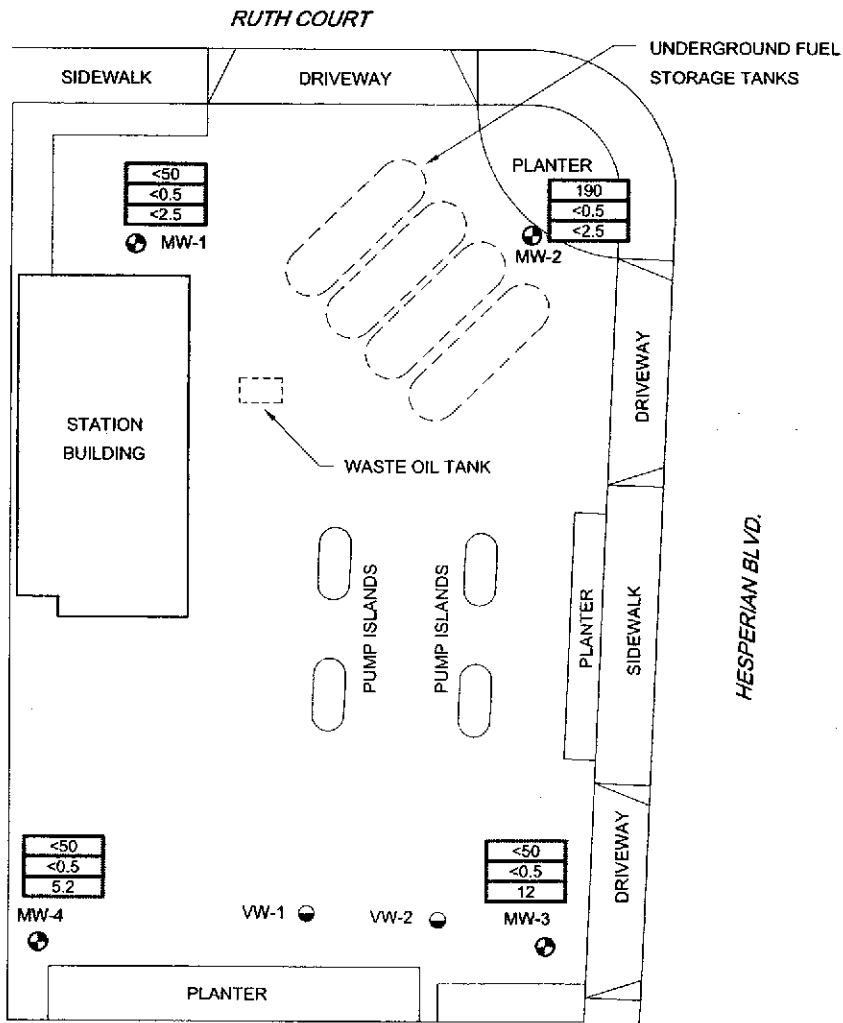
TABLE 2

GROUNDWATER FLOW DIRECTION AND GRADIENT

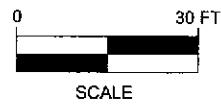
ARCO Service Station No. 2162
15135 Hesperian Boulevard
San Leandro, California

<u>Date Measured</u>	<u>Average Flow Direction</u>	<u>Average Hydraulic Gradient</u>
06/20/00	Southwest	0.010
09/29/00	Southwest	0.010
12/17/00	Southwest	0.010
03/23/01	Southwest	0.011
06/20/01	Southwest	0.013
09/22/01	Southwest	0.012

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



HESPERIAN BLVD.



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

LEGEND:

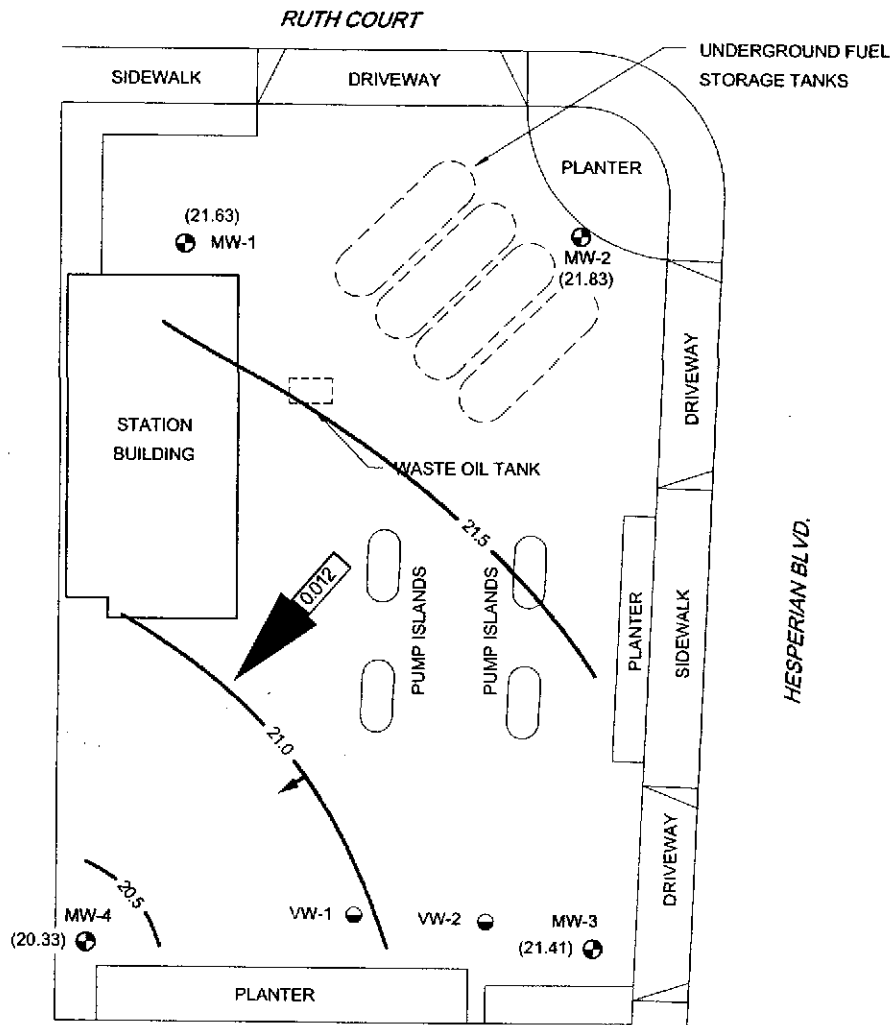
- MW-1 MONITORING WELL LOCATION
- VW-1 SOIL VAPOR EXTRACTION WELL LOCATION
- | |
|------|
| <50 |
| <0.5 |
| <2.5 |

 TPH AS GASOLINE IN MICROGRAMS PER LITER
- | |
|------|
| <0.5 |
| <2.5 |

 BENZENE IN MICROGRAMS PER LITER
- | |
|------|
| <2.5 |
|------|

 MTBE IN MICROGRAMS PER LITER
- NS NOT SAMPLED

<p>FIGURE 1 GROUND WATER ANALYTICAL SUMMARY THIRD QUARTER 2001 (9/22/01) ARCO STATION NO. 2162 15135 HESPERIAN BOULEVARD SAN LEANDRO, CALIFORNIA</p>							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PROJECT NO. D000-310</td> <td>DRAWN BY TLA 12/17/01</td> </tr> <tr> <td>FILE NO. 2162-1</td> <td>PREPARED BY TLA</td> </tr> <tr> <td>REVISION NO. 1</td> <td>REVIEWED BY</td> </tr> </table>	PROJECT NO. D000-310	DRAWN BY TLA 12/17/01	FILE NO. 2162-1	PREPARED BY TLA	REVISION NO. 1	REVIEWED BY	<p>Delta Environmental Consultants, Inc.</p>
PROJECT NO. D000-310	DRAWN BY TLA 12/17/01						
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REVISION NO. 1	REVIEWED BY						



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
- (21.63) GROUND WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL)
- 21.0 - WATER TABLE CONTOUR IN FEET ABOVE MSL
- GROUND WATER FLOW DIRECTION
- 0.012 → APPROXIMATE GROUND WATER FLOW GRADIENT

FIGURE 2
GROUND WATER ELEVATION CONTOUR MAP
THIRD QUARTER 2001 (9/22/01)
ARCO STATION NO. 2162
15135 HESPERIAN BOULEVARD
SAN LEANDRO, CALIFORNIA

PROJECT NO. D000-310	DRAWN BY TLA 12/17/01
FILE NO. 2162-1	PREPARED BY TLA
REVISION NO. 1	REVIEWED BY



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.

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

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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	

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(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



Sequoia
Analytical

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

2 October, 2001

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

RE: ARCO 2162, San Leandro, CA
Sequoia Report: S109366

Enclosed are the results of analyses for samples received by the laboratory on 09/25/01 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Client Services Representative

Lito Diaz
Laboratory Director

CA ELAP Certificate #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

Reported:
10/02/01 17:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-9	S109366-01	Water	09/22/01 16:51	09/25/01 09:30
MW-2-8	S109366-02	Water	09/22/01 16:59	09/25/01 09:30
MW-3-8	S109366-03	Water	09/22/01 17:25	09/25/01 09:30
MW-4-10	S109366-04	Water	09/22/01 17:09	09/25/01 09:30
TB	S109366-05	Water	09/22/01 06:00	09/25/01 09:30

Sequoia Analytical - Sacramento

Ron Chew, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Reported:
10/02/01 17:44

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-9 (S109366-01) Water Sampled: 09/22/01 16:51 Received: 09/25/01 09:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	1100003	09/28/01	09/28/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a.a.a-Trifluorotoluene</i>		84.4 %	60-140	"	"	"	"	"	
MW-2-8 (S109366-02) Water Sampled: 09/22/01 16:59 Received: 09/25/01 09:30									
Purgeable Hydrocarbons	190	50	ug/l	1	1100003	09/28/01	09/28/01	DHS LUFT	HC-12
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a.a.a-Trifluorotoluene</i>		84.4 %	60-140	"	"	"	"	"	
MW-3-8 (S109366-03) Water Sampled: 09/22/01 17:25 Received: 09/25/01 09:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	1100003	09/28/01	09/28/01	DHS LUFT	A-01
Benzene	ND	0.50	"	"	"	"	"	"	A-01
Toluene	ND	0.50	"	"	"	"	"	"	A-01
Ethylbenzene	ND	0.50	"	"	"	"	"	"	A-01
Xylenes (total)	ND	0.50	"	"	"	"	"	"	A-01
Methyl tert-butyl ether	12	2.5	"	"	"	"	"	"	A-01
<i>Surrogate: a.a.a-Trifluorotoluene</i>		85.0 %	60-140	"	"	"	"	"	A-01



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 3164 Gold Camp Drive Ste. 200
 Rancho Cordova CA, 95670

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 Project Number: N/A
 Project Manager: Steven Meeks

Reported:
 10/02/01 17:44

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4-10 (S109366-04) Water Sampled: 09/22/01 17:09 Received: 09/25/01 09:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	1100003	09/28/01	09/28/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	5.2	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80.1 %	60-140		"	"	"	"	
TB (S109366-05) Water Sampled: 09/22/01 06:00 Received: 09/25/01 09:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	1100003	09/28/01	09/28/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	1.4	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	1.0	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	3.4	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.7 %	60-140		"	"	"	"	



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

Reported:
10/02/01 17:44

**Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1100003 - EPA 5030B (P/T)

Blank (1100003-BLK1)

Prepared & Analyzed: 09/28/01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.98		"	10.0		89.8	60-140			

LCS (1100003-BS1)

Prepared & Analyzed: 09/28/01

Benzene	9.93	0.50	ug/l	10.0		99.3	70-130			
Toluene	9.66	0.50	"	10.0		96.6	70-130			
Ethylbenzene	9.75	0.50	"	10.0		97.5	70-130			
Xylenes (total)	29.1	0.50	"	30.0		97.0	70-130			
Methyl tert-butyl ether	12.3	2.5	"	10.0		123	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.20		"	10.0		92.0	60-140			

Matrix Spike (1100003-MS1)

Source: S109366-05

Prepared & Analyzed: 09/28/01

Benzene	9.70	0.50	ug/l	10.0	ND	97.0	60-140			
Toluene	10.4	0.50	"	10.0	1.4	90.0	60-140			
Ethylbenzene	9.38	0.50	"	10.0	ND	93.8	60-140			
Xylenes (total)	28.3	0.50	"	30.0	1.0	91.0	60-140			
Methyl tert-butyl ether	13.4	2.5	"	10.0	3.4	100	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.81		"	10.0		88.1	60-140			

Matrix Spike Dup (1100003-MSD1)

Source: S109366-05

Prepared: 09/28/01 Analyzed: 09/29/01

Benzene	9.75	0.50	ug/l	10.0	ND	97.5	60-140	0.514	25	
Toluene	10.5	0.50	"	10.0	1.4	91.0	60-140	0.957	25	
Ethylbenzene	9.18	0.50	"	10.0	ND	91.8	60-140	2.16	25	
Xylenes (total)	28.1	0.50	"	30.0	1.0	90.3	60-140	0.709	25	
Methyl tert-butyl ether	13.2	2.5	"	10.0	3.4	98.0	60-140	1.50	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.27		"	10.0		82.7	60-140			



Delta Environmental Consultants(Rancho Cordova)
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Project: ARCO 2162, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/02/01 17:44

Notes and Definitions

- A-01 Sample confirmed on alternate column on 10/01/01.
- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



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

Arco Project Manager: Paul Supple

Delta Project PM: Steve Meeks

Site Sampled By: Doulos

Date Sampled: 09/22/01

Site Contact & Phone Number: _____

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	16:51	9.56	8.0	15.9	<input checked="" type="checkbox"/>	6.29	4 inch	2.0	12.6	NP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.08	Q/2,5,8,11	MW-1	16:51
MW-2	16:59	8.55	8.0	15.9	<input checked="" type="checkbox"/>	7.32	4 inch	2.0	14.6	NP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.69	Q/2,5,8,11	MW-2	16:59
MW-3	17:12	8.89	9.0	14.8	<input type="checkbox"/>	5.87	4 inch	2.0	11.7	11.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.71	Q/2,5,8,11	MW-3	17:25
MW-4	17:09	10.06	8.0	17.5	<input checked="" type="checkbox"/>	7.39	4 inch	2.0	14.8	NP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.58	Q/2,5,8,11	MW-4	17:09
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Arco Site Address: 15135 Hesperian Blvd
San Leandro, California

Arco Site Number: Arco 2162

Delta Project No.: D000-310

Arco Project Manager: Paul Supple

Delta Project PM: Steve Meeks

Site Sampled By: Doulos

Date Sampled: 09/22/01

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	No Purge																	
MW-2	No Purge																	
MW-3	17:15	69.4	7.15	484	3													
	17:18	69.1	7.10	471	8													
	17:21	69.1	7.09	469	11													
MW-4	No Purge																	

Notes: NP = NO PURGE

Original Copies of Field Sampling Sheets are Located in Project File