



JAN 11 2002

3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
916/638-2085
FAX: 916/638-8385

January 8, 2002

Mr. John Sullivan
17760 Sweetbriar Place
Castro Valley, CA 94546

Subject: *Quarterly Groundwater Monitoring Report, Third Quarter 2001*
Chateau Manor Apartments
724 Lewelling Boulevard
San Leandro, California
Delta Project No. D000-303

Dear Mr. Sullivan:

Delta Environmental Consultants, Inc. is submitting the attached copy of the laboratory analytical results (Enclosure A) for the groundwater sample collected from monitoring wells MW-9 and MW-10 during the third quarter 2001. The wells are located at the Chateau Manor Apartments, 724 Lewelling Boulevard, San Leandro, California. The groundwater samples were collected during quarterly sampling of the ARCO Products Company Service Station No. 0601, located at 712 Lewelling Boulevard, San Leandro, California (Figure 1). Monitoring Well MW-9 is sampled semi-annually during the first and third quarters.

If you have any questions regarding this letter, please call Steven Meeks at (916) 536-2613.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.



Steven W. Meeks, P.E.
Project Manager

SWM (CL005.303.doc)

Enclosure

cc: Mr. Paul Supple – ARCO Products Company
Mr. Scott Seery – Alameda County Health Care Services

ENCLOSURE A

Copy of Certified Analytical Results for
Monitoring Well MW-10 and
Chain of Custody



**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 601, San Leandro, CA
Sequoia Report: S109363

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



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/02/01 17:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9-8	S109363-01	Water	09/22/01 18:58	09/25/01 09:30
MW-10-8	S109363-02	Water	09/22/01 21:10	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.

Page Page 1 of 4



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/02/01 17:49

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-9-8 (S109363-01) Water Sampled: 09/22/01 18:58 Received: 09/25/01 09:30

Purgeable Hydrocarbons	ND	50	ug/l	1	1090312	09/27/01	09/27/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	7.8	2.5	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene 87.5 % 60-140 " " " "

MW-10-8 (S109363-02) Water Sampled: 09/22/01 21:10 Received: 09/25/01 09:30

Purgeable Hydrocarbons	ND	50	ug/l	1	1090312	09/27/01	09/27/01	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	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene 84.2 % 60-140 " " " "



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/02/01 17:49

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 1090312 - EPA 5030B (P/T)

Blank (1090312-BLK1)

Prepared & Analyzed: 09/27/01

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	"							
Surrogate: a,a,a-Trifluorotoluene	8.85		"	10.0		88.5	60-140			

LCS (1090312-BS1)

Prepared & Analyzed: 09/27/01

Benzene	9.65	0.50	ug/l	10.0		96.5	70-130			
Toluene	9.29	0.50	"	10.0		92.9	70-130			
Ethylbenzene	9.37	0.50	"	10.0		93.7	70-130			
Xylenes (total)	27.7	0.50	"	30.0		92.3	70-130			
Methyl tert-butyl ether	10.9	2.5	"	10.0		109	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.22		"	10.0		92.2	60-140			

Matrix Spike (1090312-MS1)

Source: S109360-02

Prepared & Analyzed: 09/27/01

Benzene	10.4	0.50	ug/l	10.0	ND	104	60-140			
Toluene	11.2	0.50	"	10.0	1.5	97.0	60-140			
Ethylbenzene	10.2	0.50	"	10.0	ND	102	60-140			
Xylenes (total)	30.7	0.50	"	30.0	0.78	99.7	60-140			
Methyl tert-butyl ether	16.7	2.5	"	10.0	4.5	122	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.32		"	10.0		93.2	60-140			

Matrix Spike Dup (1090312-MSD1)

Source: S109360-02

Prepared & Analyzed: 09/27/01

Benzene	10.0	0.50	ug/l	10.0	ND	100	60-140	3.92	25	
Toluene	10.8	0.50	"	10.0	1.5	93.0	60-140	3.64	25	
Ethylbenzene	9.76	0.50	"	10.0	ND	97.6	60-140	4.41	25	
Xylenes (total)	29.4	0.50	"	30.0	0.78	95.4	60-140	4.33	25	
Methyl tert-butyl ether	16.7	2.5	"	10.0	4.5	122	60-140	0.00	25	
Surrogate: a,a,a-Trifluorotoluene	9.08		"	10.0		90.8	60-140			



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/02/01 17:49

Notes and Definitions

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

Division of Atlantic Richfield Company

Task Order No. 259900

Chain of Custody

[illegible]



December 19, 2001

3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
916/638-2085
FAX: 916/638-8385

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

Subject: *Quarterly groundwater Monitoring Report, Third Quarter 2001*
ARCO Service Station No. 601
712 Lewelling Boulevard
San Leandro, California
Delta Project No. D000-303

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 Products Company Service Station No. 601, located at 712 Lewelling 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 (Lrp006.303.doc)
Enclosures

cc: Mr. Scott Seery – Alameda County Health Care Services Agency
Mr. Mike Bakaldin – San Leandro Fire Department

Date: December 21, 2001

ARCO QUARTERLY GROUNDWATER MONITORING REPORT

Station No.:	601	Address:	712 Lewelling 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.:			D000-303
Primary Agency/Regulatory ID No.			Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER

1. Performed quarterly groundwater monitoring for third quarter 2001.
2. Prepared and submitted 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 fourth 2001.
3. Replacement of ORC in select wells has been scheduled to occur in December 2001.

QUARTERLY MONITORING:

Current Phase of Project	Monitoring/Remediation with ORC
Frequency of Groundwater Sampling:	Annual (1 st Quarter): MW-2, MW-11, MW-13 Semi-Annual (1 st /3 rd Quarter) MW-9, MW-15 Quarterly: MW-1, MW-3 through MW-8, MW-10 MW-14
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	No
FP Recovered this Quarter:	None
Cumulative FP Recovered to Date:	3.45 gallons, Well MW-1
Bulk Soil Removed This Quarter:	None
Bulk Soil Removed to Date:	1,565 cubic yards of TPH impacted soil
Current Remediation Techniques:	Natural Attenuation
Approximate Depth to Groundwater:	8.45 feet
Groundwater Gradient:	0.025 ft/ft toward east southeast

DISCUSSION:

- Methyl tertiary butyl ether was reported in MW-4, MW-8, MW-9 and MW-15 at a concentrations of 100, 6.5, 7.8, and 13 micrograms per liter ($\mu\text{g/L}$), respectively.
- Total petroleum hydrocarbons as gasoline was reported in MW-1, MW-2, MW-3 and MW-4 at concentrations ranging from 20,000, 53,000 and 6,700 $\mu\text{g/L}$ respectively.
- Benzene was reported in MW-1, MW-3, and MW-4 concentrations of 2,900, 1,200, and 650 $\mu\text{g/L}$, respectively.
- Dissolved oxygen levels ranged from 0.59 milligrams per liter (mg/L) in MW-15 to 1.82 mg/L in MW-10.

TABLE 1

GROUNDWATER ANALYTICAL DATA

ARCO Service Station No. 601
712 Lewelling 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)	Semi Volatiles (µg/L)
MW-1	06/20/00	19.19	8.20	10.99	2,400	50	1,800	680	23,000	<200	NA
	09/29/00		8.55	10.64	2,880	<50	2,130	871	23,600	<250	430 ^a /1,100 ^b
	12/17/00		8.28	10.91	1,980	<50	1,610	664	21,600	<250	270 ^a /900 ^b
	03/28/01		8.13	11.06	2,310	<100	2,010	517	19,800	<500	11(c)
	06/20/01		8.60	10.59	2,200	23	1,800	320	17,000	100	NA
	09/22/01		9.03	10.16	2,900	<200	2,500	270	20,000	<1000	360 ^a , 980 ^b
MW-2	06/20/00	21.12	7.12	14.00	NS	NS	NS	NS	NS	NS	NS
	09/29/00		7.60	13.52	NS	NS	NS	NS	NS	NS	NS
	12/17/00		7.42	13.70	NS	NS	NS	NS	NS	NS	NS
	03/28/01		6.84	14.28	18.1	<5.0	7.63	5.98	838	39.5	NA
	06/20/01		7.66	13.46	NS	NS	NS	NS	NS	NS	NS
	09/22/01		8.08	13.04	NS	NS	NS	NS	NS	NS	NA
MW-3	06/20/00	22.99	6.22	16.77	670	990	2,400	12000	45,000	<500	NA
	09/29/00		7.20	15.79	860	1,120	2,720	12900	51,000	<250	NA
	12/17/00		NM	NC	NS	NS	NS	NS	NS	NS	NA
	03/28/01		6.10	16.89	804	<200	250	11,000	43,500	<1,000	NA
	06/20/01		6.14	16.85	1,000	850	2,800	13,000	62,000	<2,500	NA
	09/22/01		7.24	15.75	1,200	1,200	3,100	13,000	53,000	<1,000	NA
MW-4	06/20/00	22.38	6.46	15.92	210	20	94	520	2,700	46	NA
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	12/17/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	03/28/01		7.49	14.89	DRY	DRY	DRY	DRY	DRY	DRY	NA
	06/20/01		7.21	15.17	690	170	330	1,400	13,000	110	NA
	09/22/01		7.43	14.95	650	110	410	1,800	6,700	100	NA

TABLE 1

GROUNDWATER ANALYTICAL DATA

ARCO Service Station No. 601
712 Lewelling 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)	Semi Volatiles (µg/L)
MW-5	06/20/00	22.45	6.78	15.67	3,000	650	260	700	10,000	<200	NA
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	12/17/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	03/28/01		6.48	15.97	4,160	3,450	728	3,090	23,400	<250	NA
	06/20/01		7.26	15.19	1,200	49	190	540	120,000	<100	NA
	09/22/01		DRY	DRY	NS	NS	NS	NS	NS	NS	NA
MW-6	06/20/00	22.77	DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	12/17/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	03/28/01		7.57	15.2	DRY	DRY	DRY	DRY	DRY	DRY	NA
	06/20/01		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09/22/01		DRY	DRY	NS	NS	NS	NS	NS	NS	NA
MW-7	06/20/00	22.89	DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	12/17/00		8.93	13.96	<0.5	<0.5	<0.5	<0.5	<50	<2.5	NA
	03/28/01		8.35	14.54	<0.5	<0.5	<0.5	<0.5	<50	<2.5	NA
	06/20/01		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09/22/01		DRY	DRY	NS	NS	NS	NS	NS	NS	NA
MW-8	06/20/00	20.89	7.23	13.66	<0.5	0.9	<0.5	<1.0	150	310	NA
	09/29/00		7.91	12.98	<0.5	<0.5	<0.5	<0.5	149	438	NA
	12/17/00		7.11	13.78	<5.0	<5.0	<5.0	<5.0	662	273	NA
	03/28/01		6.88	14.01	<5.0	<5.0	<5.0	<5.0	840	320	NA
	06/20/01		7.25	13.64	<0.5	<0.5	<0.5	0.65	230	330	NA
	09/22/01		8.14	12.75	<0.5	<0.5	<0.5	<0.5	<50	6.5	NA

TABLE 1

GROUNDWATER ANALYTICAL DATA

ARCO Service Station No. 601
712 Lewelling 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)	Semi Volatiles (µg/L)
MW-9	06/20/00	22.26	8.01	14.25	NS	NS	NS	NS	NS	NS	NS
	09/29/00		8.44	13.82	<0.5	<0.5	<0.5	<0.5	<50	3.44	NA
	12/17/00		7.84	14.42	NS	NS	NS	NS	NS	NS	NS
	03/28/01		7.58	14.68	<0.5	<0.5	<0.5	<0.5	<50	<2.5	NA
	06/20/01		7.75	14.51	NS	NS	NS	NS	NS	NS	NS
	9/22/2001		8.69	13.57	<0.5	<0.5	<0.5	<0.5	<50	7.8	NA
MW-10	06/20/00	21.33	7.99	13.34	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	NA
	09/29/00		8.40	12.93	< 0.5	< 0.5	< 0.5	<0.5	<50	<2.5	NA
	12/17/00		7.91	13.42	< 0.5	< 0.5	< 0.5	<0.5	<50	<2.5	NA
	03/28/01		7.47	13.86	< 0.5	< 0.5	< 0.5	<0.5	<50	<2.5	NA
	06/20/01		8.11	13.22	< 0.5	< 0.5	< 0.5	<0.5	<50	<2.5	NA
	09/22/01		8.77	12.56	< 0.5	< 0.5	<0.5	<50	<2.5	NA	
MW-11	06/20/00	20.97	8.18	12.79	NS	NS	NS	NS	NS	NS	NS
	09/29/00		8.60	12.37	NS	NS	NS	NS	NS	NS	NS
	12/17/00		8.48	12.49	NS	NS	NS	NS	NS	NS	NS
	03/28/01		7.88	13.09	<0.5	<0.5	< 0.5	<0.5	<50	<2.5	NA
	06/20/01		8.48	12.49	NS	NS	NS	NS	NS	NS	NS
	09/22/01		9.11	11.86	NS	NS	NS	NS	NS	NS	NS
MW-12	06/20/00	20.11	8.55	11.56	NS	NS	NS	NS	NS	NS	NS
	09/29/00		8.98	11.13	NS	NS	NS	NS	NS	NS	NS
	12/17/00		8.76	11.35	NS	NS	NS	NS	NS	NS	NS
	03/28/01		8.31	11.8	<0.5	<0.5	< 0.5	<0.5	<50	<2.5	NA
	06/20/01		9.10	11.01	NS	NS	NS	NS	NS	NS	NS
	09/22/01		9.48	10.63	NS	NS	NS	NS	NS	NS	NS

TABLE 1

GROUNDWATER ANALYTICAL DATA

ARCO Service Station No. 601
712 Lewelling 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)	Semi Volatiles (µg/L)
MW-13	06/20/00	20.75	7.56	13.19	NS	NS	NS	NS	NS	NS	NS
	09/29/00		8.27	12.48	NS	NS	NS	NS	NS	NS	NS
	12/17/00		8.09	12.66	NS	NS	NS	NS	NS	NS	NS
	03/28/01		7.69	13.06	<0.5	<0.5	<0.5	<0.5	<50	<2.5	NA
	06/20/01		8.46	12.29	NS	NS	NS	NS	NS	NS	NS
	09/22/01		8.57	12.18	NS	NS	NS	NS	NS	NS	NS
MW-14	06/20/00	20.90	9.16	11.74	<0.5	<0.5	<0.5	<1.0	<50	<10	NA
	09/29/00		9.48	11.42	<0.5	<0.5	<0.5	<0.5	<50	<2.50	NA
	12/17/00		9.24	11.66	<0.5	<0.5	<0.5	<0.5	<50	<2.5	NA
	03/28/01		8.91	11.99	<0.5	<0.5	<0.5	<0.5	<50	<2.5	NA
	06/20/01		9.7	11.2	<0.5	<0.5	<0.5	<0.5	<50	3.1	NA
	09/22/01		10.04	10.86	<0.5	<0.5	<0.5	<0.5	<50	<2.5	NA
MW-15	06/20/00	22.08	5.98	16.10	NS	NS	NS	NS	NS	NS	NS
	09/29/00		6.50	15.58	<0.5	<0.5	<0.5	<0.5	<50	<2.50	NA
	12/17/00		5.89	16.19	NS	NS	NS	NS	NS	NS	NS
	03/28/01		5.78	16.3	<0.5	<0.5	<0.5	<0.5	<50	11.1	NA
	06/20/01		5.72	16.36	NS	NS	NS	NS	NS	NS	NS
	09/22/01		6.79	15.29	<0.5	<0.5	<0.5	<0.5	<50	13	NA

^a 2-methylnaphthalene^b Naphthalene^c Phenol

TPH = Total Petroleum Hydrocarbons

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

µg/L = Micrograms per liter

NA = Not analyzed

NS = Not sampled

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

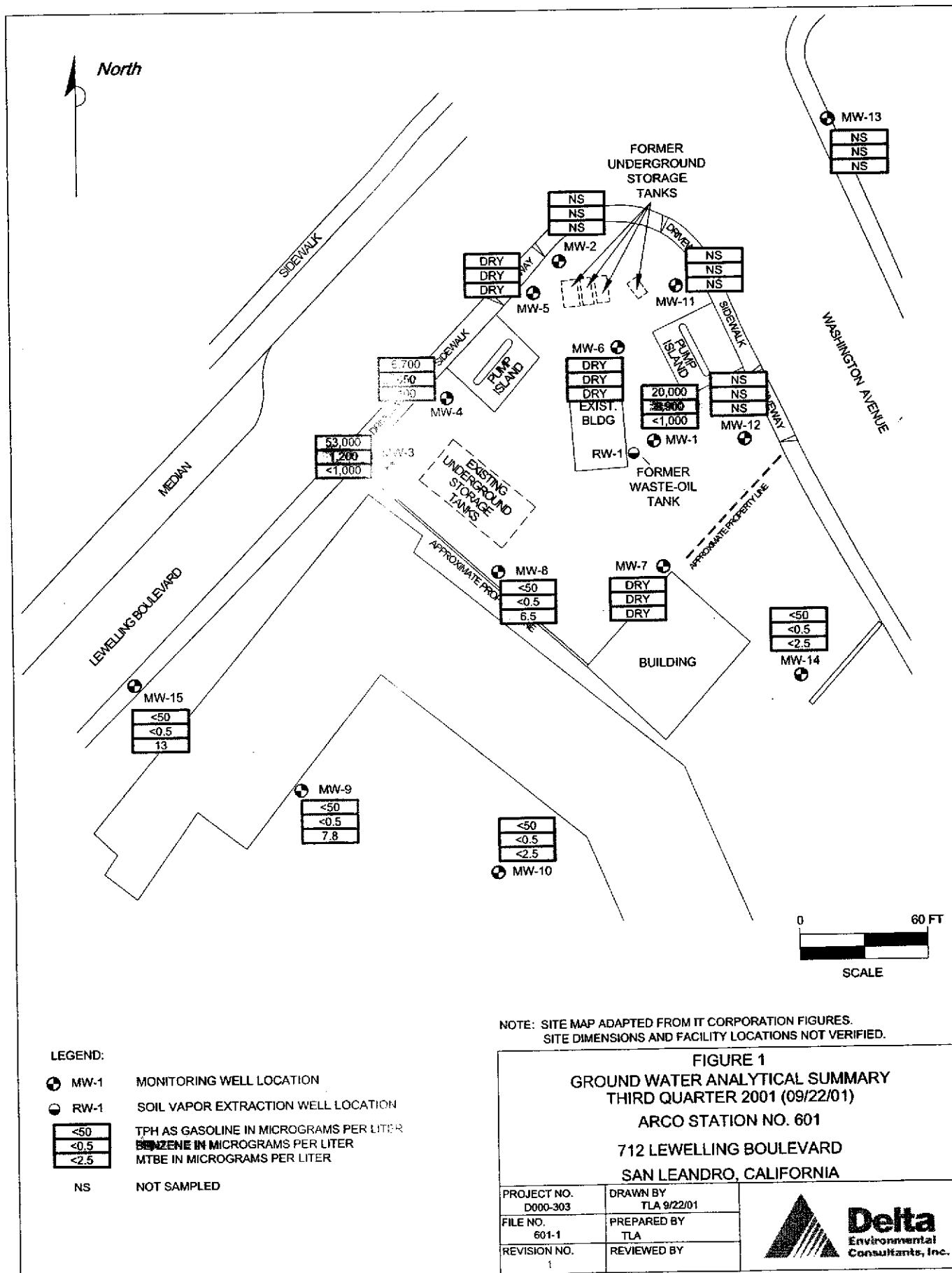
TABLE 2**GROUNDWATER FLOW DIRECTION AND GRADIENT**

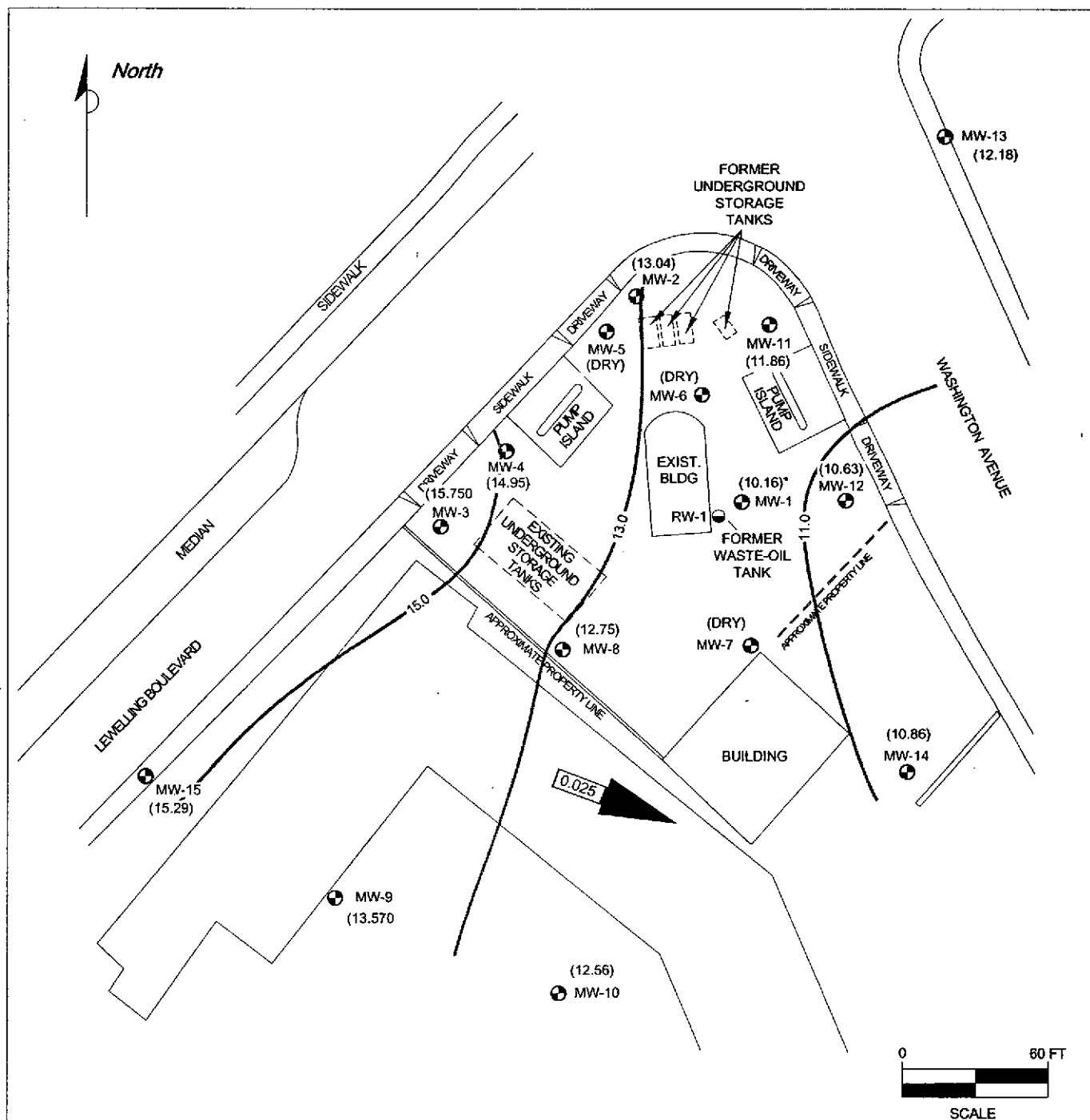
ARCO Service Station 601

712 Lewelling Boulevard
San Leandro, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
06/20/00	East-Southeast	0.023
09/29/00	East-Southeast	0.023
12/17/00	East-Southeast	0.010
03/28/01	East-Southeast	0.014
06/20/01	East-Southeast	0.022
09/22/01	East-Southeast	0.025

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





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
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/Not Purged P/NP
MW-1	03-17-95	22.26	6.57	ND	15.69	03-17-95	120,000	5,300	370	1,500	13,000	--	--	48,000	6,200[1]		
MW-1	06-01-95	22.26	7.87	ND	14.39	06-01-95	250,000	7,100	950	3,500	21,000	--	--	38,000	190,000[1]		
MW-1	08-31-95	22.26	8.12	0.01	** 14.15	08-31-95	Not sampled: well contained floating product										
MW-1	11-27-95	22.26	8.42	Sheen	13.84	11-27-95	310,000	4,600	770	5,700	21,000	--	--	--	--		
MW-1	02-22-96	22.26	6.01	0.01	** 16.26	03-14-96	100,000	6,200	320	2,500	12,000	<1,000[1]	--	--	--		
MW-1	05-20-96	22.26	7.03	ND	15.23	05-21-96	340,000	6,600	240	4,500	22,000	<1,000	--	150	<2,500[1]		
MW-1	08-26-96	22.26	8.16	ND	14.10	08-26-96	210,000	7,900	320	3,400	15,000	<1,000	--	--	--		
MW-1	11-20-96	22.26	7.84	ND	14.42	11-20-96	62,000	5,900	77	2,000	7,700	<300	--	--	--		
MW-1	03-24-97	19.19	8.05	ND	11.14	03-24-97	170,000	6,500	<200	2,400	9,900	<1,000	--	--	--		
MW-1	05-23-97	19.19	8.42	ND	10.77	05-23-97	83,000	6,200	84	2,500	9,000	<300	--	--	--		
MW-1	08-19-97	19.19	8.65	ND	10.54	08-19-97	83,000	4,500	<100	2,200	8,100	<600	--	--	--		
MW-1	11-19-97	19.19	8.54	ND	10.65	11-19-97	250,000	4,400	<500	3,800	9,900	<3,000	--	--	--		
MW-1	02-19-98	19.19	5.57	ND	13.62	02-19-98	74,000	2,500	120	2,200	4,100	<300	--	--	--		
MW-1	04-23-98	19.19	6.92	ND	12.27	04-24-98	210,000	2,700	<500	4,200	8,300	<3,000	--	--	--	1.5	P
MW-1	07-27-98	19.19	8.14	ND	11.05	07-27-98	73,000	2,100	88	2,600	4,600	<300	--	--	--	1.0	P
MW-1	10-14-98	19.19	8.58	ND	10.61	10-14-98	47,000	2,900	<50	2,300	3,900	<300	--	--	--	1.5	P
MW-1	01-21-99	19.19	7.84	ND	11.35	01-22-99	45,000	1,400	64	2,100	2,400	<300	--	--	--	1.0	P
MW-1	05-06-99	19.19	8.00	ND	11.19	05-06-99	41,000	1,900	<20	2,800	3,400	<120	--	--	--	0.85	P
MW-1	08-23-99	19.19	8.56	ND	10.63	08-24-99	26,000	1,700	52	1,600	1,500	<75	--	--	--	0.72	P
MW-1	10-28-99	19.19	8.92	ND	10.27	10-28-99	38,000	2,500	35	2,400	2,500	<200	--	--	--	0.70	P
MW-1	02-04-00	19.19	8.48	Sheen	10.71	02-04-00	19,000	960	13	1,200	860	<60	--	--	--	2.11	P

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1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

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MW-2	03-17-95	21.33	6.12	ND	15.21	03-17-95	10,000	460	77	260	550	--	--	--	--		
MW-2	06-01-95	21.33	6.56	ND	14.77	06-01-95	13,000	400	78	210	410	--	--	--	--		
MW-2	08-31-95	21.33	7.18	ND	14.15	08-31-95	5,000	280	18	120	140	<50	--	--	--		
MW-2	11-27-95	21.33	7.39	ND	13.94	11-27-95	3,200	230	12	77	90	--	--	--	--		
MW-2	02-22-96	21.33	5.78	ND	15.55	03-14-96	11,000	290	67	190	330	<50	--	--	--		
MW-2	05-20-96	21.33	6.27	ND	15.06	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-2	08-26-96	21.33	7.30	ND	14.03	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-2	11-20-96	21.33	7.28	ND	14.05	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-2	03-24-97	21.12	7.11	ND	14.01	03-24-97	4,800	570	6	71	32	67	--	--	--		
MW-2	05-23-97	21.12	7.44	ND	13.68	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-2	08-19-97	21.12	7.64	ND	13.48	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-2	11-19-97	21.12	7.70	ND	13.42	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-2	02-19-98	21.12	5.22	ND	15.90	02-19-98	2,000	160	50	66	230	25	--	--	--		
MW-2	04-23-98	21.12	6.24	ND	14.88	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-2	07-27-98	21.12	7.02	ND	14.10	07-27-98	Not sampled: well sampled annually, during the first quarter										
MW-2	10-14-98	21.12	7.54	ND	13.58	10-14-98	Not sampled: well sampled annually, during the first quarter										
MW-2	01-21-99	21.12	7.15	ND	13.97	01-22-99	1,700	84	4	31	10	13	--	--	--	0.5	P
MW-2	05-06-99	21.12	6.95	ND	14.17	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-2	08-23-99	21.12	7.49	ND	13.63	08-24-99	Not sampled: well sampled annually, during the first quarter										0.68
MW-2	10-28-99	21.12	7.92	ND	13.20	10-28-99	Not sampled: well sampled annually, during the first quarter										
MW-2	02-04-00	21.12	6.61	ND	14.51	02-05-00	Not sampled: well inaccessible										

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MW-3	03-17-95	20.11	5.46	ND	14.65	03-17-95	370,000	4,800	12,000	5,800	34,000	--	--	--	--		
MW-3	06-01-95	20.11	6.34	ND	13.77	06-01-95	270,000	6,000	11,000	5,200	28,000	--	--	--	--		
MW-3	08-31-95	20.11	6.60	0.02	** 13.52	08-31-95	Not sampled: well contained floating product										
MW-3	11-27-95	20.11	6.76	0.01	** 13.36	11-27-95	150,000	5,100	8,800	3,900	21,000	--	--	--	--		
MW-3	02-22-96	20.11	5.14	0.01	** 14.98	03-14-96	150,000	4,400	7,600	4,100	22,000	<3,000	--	--	--		
MW-3	05-20-96	20.11	5.17	ND	14.94	05-21-96	410,000	4,700	8,000	6,300	36,000	<3,000	--	--	--		
MW-3	08-26-96	20.11	7.04	ND	13.07	08-26-96	260,000	4,000	6,100	4,200	24,000	<2,000	--	--	--		
MW-3	11-20-96	20.11	6.26	ND	13.85	11-20-96	190,000	3,200	5,800	3,300	20,000	<1,000	--	--	--		
MW-3	03-24-97	22.99	6.94	ND	16.05	03-24-97	430,000	2,700	7,600	7,000	39,000	<5,000	--	--	--		
MW-3	05-23-97	22.99	6.98	ND	16.01	05-23-97	130,000	2,100	4,300	3,500	19,000	<700	--	--	--		
MW-3	08-19-97	22.99	7.25	ND	15.74	08-19-97	100,000	2,000	3,200	<100	19,000	<600	--	--	--		
MW-3	11-19-97	22.99	7.25	ND	15.74	11-19-97	93,000	1,700	2,400	2,800	16,000	<600	--	--	--		
MW-3	02-19-98	22.99	5.24	ND	17.75	02-19-98	80,000	620	1,200	2,500	13,000	<600	--	--	--		
MW-3	04-23-98	22.99	6.60	ND	16.39	04-24-98	130,000	1,500	2,400	3,500	18,000	<600	--	--	--	3.5	P
MW-3	07-27-98	22.99	7.00	ND	15.99	07-27-98	140,000	920	1,500	2,400	13,000	<600	--	--	--	1.0	P
MW-3	10-14-98	22.99	7.04	ND	15.95	10-14-98	300,000	1,200	2,400	5,700	32,000	970	--	--	--	1.0	P
MW-3	01-21-99	22.99	6.50	ND	16.49	01-22-99	120,000	860	1,500	2,600	14,000	<600	--	--	--	0.5	P
MW-3	05-06-99	22.99	6.90	ND	16.09	05-06-99	49,000	670	1,400	2,500	11,000	170	--	--	--	1.03	NP
MW-3	08-23-99	22.99	6.53	ND	16.46	08-24-99	51,000	440	930	2,200	9,200	<150	--	--	--	0.67	NP
MW-3	10-28-99	22.99	7.50	ND	15.49	10-28-99	1,400,000	830	4,100	15,000	78,000	<5,000	--	--	--	0.77	P
MW-3	02-04-00	22.99	6.21	ND	16.78	02-04-00	<50	<0.5	<0.5	<0.5	<1	650	--	--	--	1.61	P

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MW-4	03-17-95	20.75	6.65	ND	14.10	03-17-95	16,000	1,800	970	310	2,500	--	--	--	--		
MW-4	06-01-95	20.75	7.25	ND	13.50	06-01-95	16,000	2,800	870	380	2,700	--	--	--	--		
MW-4	08-31-95	20.75	7.75	ND	13.00	08-31-95	9,000	2,000	270	270	1,400	<100	--	--	--		
MW-4	11-27-95	20.75	7.87	ND	12.88	11-27-95	3,800	890	130	130	550	--	--	--	--		
MW-4	02-22-96	20.75	7.29	ND	13.46	03-14-96	940	150	82	19	130	<20	--	--	--		
MW-4	05-20-96	20.75	7.30	ND	13.45	05-21-96	6,700	1,100	330	120	1,100	<100	--	--	--		
MW-4	08-26-96	20.75	7.57	ND	13.18	08-26-96	14,000	2,400	510	350	2,100	<100	--	--	--		
MW-4	11-20-96	20.75	7.89	ND	12.86	11-20-96	420	55	17	11	62	<3	--	--	--		
MW-4	03-24-97	22.38	6.90	ND	15.48	03-24-97	6,800	620	150	81	1,300	<50	--	--	--		
MW-4	05-23-97	22.38	7.80	ND	14.58	05-23-97	9,000	1,300	240	200	1,600	<60	--	--	--		
MW-4	08-19-97	22.38	DRY	ND	N/A	08-19-97	Not sampled: well is dry										
MW-4	11-19-97	22.38	DRY	ND	N/A	11-19-97	3,700[1]	600		93	120	<60	--	--	--		
MW-4	02-19-98	22.38	6.78	ND	15.60	02-19-98	1,800	93	51	29	420	110	--	--	--		
MW-4	04-23-98	22.38	6.47	ND	15.91	04-23-98	6,500	700	110	180	1,300	93	--	--	--	0.5	P
MW-4	07-27-98	22.38	7.22	ND	15.16	07-27-98	10,000	1,400	140	290	1,900	<120	--	--	--	1.5	P
MW-4	10-14-98	22.38	7.60	ND	14.78	10-14-98	6,500	900	63	200	1,200	63	--	--	--	1.0	P
MW-4	01-21-99	22.38	7.43	ND	14.95	01-22-99	1,700	140	22	56	320	13	--	--	--	0.5	P
MW-4	05-06-99	22.38	6.55	ND	15.83	05-06-99	3,300	250	36	73	890	41	--	--	--	1.28	P
MW-4	08-23-99	22.38	7.16	ND	15.22	08-24-99	7,400	500	73	230	1,700	57	--	--	--	0.89	P
MW-4	10-28-99	22.38	8.28	ND	14.10	10-28-99	370	41	5.7	14	52	16	--	--	--	0.92	NP
MW-4	02-04-00	22.38	8.23	ND	14.15	02-04-00	310	33	7.5	11	65	8	--	--	--	2.43	P

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MW-5	03-17-95	20.90	5.51	ND	15.39	03-17-95	48,000	6,400	2,000	740	5,100	--	--	--	--		
MW-5	06-01-95	20.90	6.55	ND	14.35	06-01-95	76,000	11,000	5,400	1,400	7,700	--	--	--	--		
MW-5	08-31-95	20.90	6.80	ND	14.10	08-31-95	53,000	12,000	1,600	1,000	6,000	<500	--	--	--		
MW-5	11-27-95	20.90	7.13	ND	13.77	11-27-95	43,000	7,900	3,300	950	4,900	--	--	--	--		
MW-5	02-22-96	20.90	5.12	ND	15.78	03-14-96	52,000	9,100	3,300	940	5,000	<500	--	--	--		
MW-5	05-20-96	20.90	5.87	ND	15.03	05-21-96	55,000	9,300	3,800	1,100	5,400	<500	--	--	--		
MW-5	08-26-96	20.90	7.15	ND	13.75	08-26-96	47,000	5,300	2,100	780	3,200	<300	--	--	--		
MW-5	11-20-96	20.90	6.88	ND	14.02	11-20-96	53,000	8,700	5,700	920	4,400	<500	--	--	--		
MW-5	03-24-97	22.45	7.13	ND	15.32	03-24-97	39,000	8,200	3,200	720	3,100	<500	--	--	--		
MW-5	05-23-97	22.45	7.42	ND	15.03	05-23-97	29,000	6,600	1,700	400	1,500	<600	--	--	--		
MW-5	08-19-97	22.45	7.58	ND	14.87	08-19-97	16,000	4,600	790	<50	1,300	<300	--	--	--		
MW-5	11-19-97	22.45	7.58	ND	14.87	11-19-97	22,000	5,800	1,300	380	1,300	<300	--	--	--		
MW-5	02-19-98	22.45	4.65	ND	17.80	02-19-98	40,000	5,100	3,800	620	2,900	<300	--	--	--		
MW-5	04-23-98	22.45	6.25	ND	16.20	04-23-98	45,000	8,000	4,000	970	4,200	<600	--	--	--	1.5	P
MW-5	07-27-98	22.45	6.71	ND	15.74	07-27-98	30,000	8,000	2,000	590	1,900	<600	--	--	--	1.5	P
MW-5	10-14-98	22.45	7.19	ND	15.26	10-14-98	33,000	7,400	1,900	550	1,700	<300	--	--	--	1.5	P
MW-5	01-21-99	22.45	7.03	ND	15.42	01-22-99	34,000	6,200	2,600	630	2,300	<600	--	--	--	2.5	P
MW-5	05-06-99	22.45	7.02	ND	15.43	05-06-99	7,900	2,400	200	240	580	12	--	--	--	1.07	NP
MW-5	08-23-99	22.45	7.04	ND	15.41	08-24-99	25,000	5,800	2,300	570	2,000	67	--	--	--	1.04	P
MW-5	10-28-99	22.45	7.90	ND	14.55	10-28-99	20,000	5,900	1,100	450	1,100	<250	--	--	--	0.87	P
MW-5	02-04-00	22.45	6.71	ND	15.74	02-04-00	32,000	2,500	3,800	770	4,200	<75	--	--	--	2.33	P

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Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHC LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-6	03-17-95	22.08	6.66	ND	15.42	03-17-95	45,000	9,300	<100	1,900	3,600	..	..	..	..		
MW-6	06-01-95	22.08	7.60	ND	14.48	06-01-95	23,000	5,600	<50	1,300	1,900	..	..	..	..		
MW-6	08-31-95	22.08	7.92	ND	14.16	08-31-95	26,000	8,000	<100	1,900	900	<500	..	..	..		
MW-6	11-27-95	22.08	8.21	ND	13.87	11-27-95	6,700	1,800	<20	480	230	..	..	..	..		
MW-6	02-22-96	22.08	6.21	ND	15.87	03-14-96	17,000	3,100	69	810	1,500	<300	..	..	..		
MW-6	05-20-96	22.08	7.07	ND	15.01	05-21-96	16,000	3,700	<50	1,100	1,100	<300	..	..	..		
MW-6	08-26-96	22.08	7.93	ND	14.15	08-26-96	23,000	5,800	<50	2,000	560	<300	..	..	..		
MW-6	11-20-96	22.08	8.02	ND	14.06	11-20-96	11,000	3,300	<50[1]	480	370	<300	..	..	..		
MW-6	03-24-97	22.77	7.95	ND	14.82	03-24-97	9,700	1,900	<20	800	270	<100	..	..	..		
MW-6	05-23-97	22.77	8.17	ND	14.60	05-23-97	16,000	4,300	<50	1,400	180	<300	..	..	..		
MW-6	08-19-97	22.77	-	ND	NA	08-19-97	Not sampled: well is dry										
MW-6	11-19-97	22.77	-	ND	NA	11-19-97	Not sampled: well is dry										
MW-6	02-19-98	22.77	5.78	ND	16.99	02-19-98	2,600	540	8	90	88	<30	..	..	..		
MW-6	04-23-98	22.77	6.83	ND	15.94	04-24-98	7,600	1,300	13	520	190	<60	..	..	..	0.5	P
MW-6	07-27-98	22.77	7.80	ND	14.97	07-27-98	15,000	3,600	<25	1,100	230	<150	..	..	..	1.0	P
MW-6	10-14-98	22.77	8.31	ND	14.46	10-14-98	8,700	2,400	<20	220	36	<120	..	..	..	2.0	P
MW-6	01-21-99	22.77	7.90	ND	14.87	01-22-99	4,800	1,100	<25	340	79	<150	..	..	..	2.0	P
MW-6	05-06-99	22.77	7.70	ND	15.07	05-06-99	1,300	240	2.3	85	19	5	..	..	..	1.18	P
MW-6	08-23-99	22.77	8.24	ND	14.53	08-24-99	4,200	970	12	110	29	<15	..	..	..	0.90	P
MW-6	10-28-99	22.77	-	ND	NA	10-28-99	Not sampled: well is dry										
MW-6	02-04-00	22.77	7.31	ND	15.46	02-04-00	110	<0.5	0.6	1.5	1.9	11	..	..	..	1.10	P

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1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

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MW-7	03-17-95	22.89	7.68	ND	15.21	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-7	06-01-95	22.89	8.40	ND	14.49	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-7	08-31-95	22.89	9.09	ND	13.80	08-31-95	<50	<0.5	<0.5	0.6	<0.5	<3	--	--	--		
MW-7	11-27-95	22.89	9.15	ND	13.74	11-27-95	<50	<0.5	<0.5	0.9	<0.5	--	--	--	--		
MW-7	02-22-96	22.89	7.44	ND	15.45	03-14-96	110	1.4	<0.5	3.8	3.0	<3	--	--	--		
MW-7	05-20-96	22.89	8.47	ND	14.42	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-7	08-26-96	22.89	8.81	ND	14.08	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-7	11-20-96	22.89	9.17	ND	13.72	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-7	03-24-97	22.89	8.31	ND	14.58	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-7	05-23-97	22.89	9.26	ND	13.63	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-7	08-19-97	22.89	-	ND	NA	08-19-97	Not sampled: well is dry										
MW-7	11-19-97	22.89	-	ND	NA	11-19-97	Not sampled: well is dry										
MW-7	02-19-98	22.89	6.13	ND	16.76	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-7	04-23-98	22.89	7.44	ND	15.45	04-23-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-7	07-27-98	22.89	8.75	ND	14.14	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-7	10-14-98	22.89	9.22	ND	13.67	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-7	01-21-99	22.89	9.07	ND	13.82	01-22-99	52	<0.5	<0.5	<0.5	0.27	<3	--	--	--	3.0	P
MW-7	05-06-99	22.89	8.32	ND	14.57	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.83	P
MW-7	08-23-99	22.89	9.25	ND	13.64	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.42	P
MW-7	10-28-99	22.89	Not surveyed			10-28-99	Not sampled: well is dry										
MW-7	02-04-00	22.89	8.79	ND	14.10	02-04-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	4.46	P

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Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

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MW-8	03-17-95	20.97	6.14	ND	14.83	03-17-95	5,400	<5	<5	35	<5	--	--	--	--		
MW-8	06-01-95	20.97	6.50	ND	14.47	06-01-95	2,600	<2.5	<2.5	15	<2.5	--	--	--	--		
MW-8	08-31-95	20.97	7.35	ND	13.62	08-31-95	1,400	<3	<3	5	<3	520	--	900	--		
MW-8	11-27-95	20.97	7.60	ND	13.37	11-27-95	620	<0.5	<0.5	<0.5	0.5	--	560	900	510[1]		
MW-8	02-22-96	20.97	5.35	ND	15.62	03-14-96	5,800	<5	<5	28	<5	110	--	1,900	6,800[1]		
MW-8	05-20-96	20.97	5.92	ND	15.05	05-21-96	6,100	<5	<5	26	<5	240	--	--	--		
MW-8	08-26-96	20.97	7.08	ND	13.89	08-26-96	970	<1	<1	3	<1	710	--	--	--		
MW-8	11-20-96	20.97	7.01	ND	13.96	11-20-96	3,900	<2.5	<2.5	12	<2.5	930	--	--	--		
MW-8	03-24-97	20.89	7.33	ND	13.56	03-24-97	1,400	<10	<10	<10	12	1,300	--	--	--		
MW-8	05-23-97	20.89	7.55	ND	13.34	05-23-97	730	<5	<5	<5	<5	630	--	--	--		
MW-8	08-19-97	20.89	7.87	ND	13.02	08-19-97	<500	<5	<5	<5	<5	290	--	--	--		
MW-8	11-19-97	20.89	7.87	ND	13.02	11-19-97	<200	<2	<2	<2	<2	260	--	--	--		
MW-8	02-19-98	20.89	4.46	ND	16.43	02-19-98	2,000	<2	<2	9	<2	140	--	--	--		
MW-8	04-23-98	20.89	6.35	ND	14.54	04-24-98	4,500	<5	<5	<5	11	590	--	--	--	0.5	P
MW-8	07-27-98	20.89	7.43	ND	13.46	07-27-98	Not sampled										
MW-8	10-14-98	20.89	7.79	ND	13.10	10-14-98	Not sampled										
MW-8	01-21-99	20.89	6.54	ND	14.35	01-22-99	2,000	<2	<2	3	<2	320	--	--	--	2.5	P
MW-8	05-06-99	20.89	7.30	ND	13.59	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	160	--	--	--	12.76	NP
MW-8	08-23-99	20.89	7.45	ND	13.44	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	5	--	--	--	7.85	NP
MW-8	10-28-99	20.89	8.22	ND	12.67	10-28-99	160	<0.5	<0.5	<0.5	<1	45	--	--	--	0.84	P
MW-8	02-04-00	20.89	8.47	ND	12.42	02-04-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	1.92	P

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1995 - Present***

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MW-9	03-17-95	20.89	6.94	ND	13.95	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-9	06-01-95	20.89	8.15	ND	12.74	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-9	08-31-95	20.89	8.10	ND	12.79	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	11-27-95	20.89	8.38	ND	12.51	11-27-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-9	02-22-96	20.89	7.36	ND	13.53	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	05-20-96	20.89	7.81	ND	13.08	05-21-96	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-9	08-26-96	20.89	8.00	ND	12.89	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	11-20-96	20.89	7.06	ND	13.83	11-20-96	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-9	03-24-97	22.26	7.74	ND	14.52	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	05-23-97	22.26	8.28	ND	13.98	05-23-97	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-9	08-19-97	22.26	8.32	ND	13.94	08-19-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	11-19-97	22.26	8.32	ND	13.94	11-19-97	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-9	02-19-98	22.26	7.11	ND	15.15	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	04-23-98	22.26	8.18	ND	14.08	04-23-98	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-9	07-27-98	22.26	7.97	ND	14.29	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	3.6	P
MW-9	10-14-98	22.26	8.29	ND	13.97	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	2.5	P
MW-9	01-21-99	22.26	7.63	ND	14.63	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-9	05-06-99	22.26	7.27	ND	14.99	05-06-99	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-9	08-23-99	22.26	8.24	ND	14.02	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.93	P
MW-9	10-28-99	22.26	8.63	ND	13.63	10-28-99	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-9	02-04-00	22.26	8.01	ND	14.25	02-05-00	<50	<0.5	1.6	<0.5	<1	<3	--	--	--	1.47	P

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MW-10	03-17-95	21.12	6.26	ND	14.86	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-10	06-01-95	21.12	7.63	ND	13.49	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-10	08-31-95	21.12	8.17	ND	12.95	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	11-27-95	21.12	8.38	ND	12.74	11-27-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-10	02-22-96	21.12	5.41	ND	15.71	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	05-20-96	21.12	6.78	ND	14.34	05-21-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-10	08-26-96	21.12	8.00	ND	13.12	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	11-20-96	21.12	7.81	ND	13.31	11-20-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-10	03-24-97	21.33	7.87	ND	13.46	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	05-23-97	21.33	8.33	ND	13.00	05-23-97	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-10	08-19-97	21.33	8.39	ND	12.94	08-19-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	11-19-97	21.33	8.39	ND	12.94	11-19-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	02-19-98	21.33	4.65	ND	16.68	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	04-23-98	21.33	6.28	ND	15.05	04-23-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	07-27-98	21.33	7.97	ND	13.36	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-10	10-14-98	21.33	8.41	ND	12.92	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	3.3	P
MW-10	01-21-99	21.33	6.65	ND	14.68	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.0	P
MW-10	05-06-99	21.33	7.74	ND	13.59	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-10	08-23-99	21.33	8.37	ND	12.96	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.76	P
MW-10	10-28-99	21.33	8.73	ND	12.60	10-28-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.21	P
MW-10	02-04-00	21.33	8.78	ND	12.55	02-05-00	<50	<0.5	1.0	<0.5	<1	<3	--	--	--	1.12	P
																2.84	P

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MW-11	03-17-95	22.38	6.94	ND	15.44	03-17-95	100	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-11	06-01-95	22.38	7.90	ND	14.48	06-01-95	210	<0.5	<0.5	0.9	0.7	--	--	--	--		
MW-11	08-31-95	22.38	8.18	ND	14.20	08-31-95	680	<0.5	<0.5	4	1.8	<3	--	--	--		
MW-11	11-27-95	22.38	8.48	ND	13.90	11-27-95	340	<0.5	<0.5	2.2	1.6	--	--	--	--		
MW-11	02-22-96	22.38	6.63	ND	15.75	03-14-96	150	<0.5	<0.5	<0.8	0.8	<3	--	--	--		
MW-11	05-20-96	22.38	7.25	ND	15.13	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-11	08-26-96	22.38	8.22	ND	14.16	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-11	11-20-96	22.38	8.37	ND	14.01	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-11	03-24-97	20.97	8.15	ND	12.82	03-24-97	63	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-11	05-23-97	20.97	8.48	ND	12.49	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-11	08-19-97	20.97	8.67	ND	12.30	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-11	11-19-97	20.97	8.67	ND	12.30	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-11	02-19-98	20.97	6.25	ND	14.72	02-19-98	<50	<0.5	1.6	<0.5	1.8	7	--	--	--		
MW-11	04-23-98	20.97	7.23	ND	13.74	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-11	07-27-98	20.97	8.05	ND	12.92	07-27-98	Not sampled: well sampled annually, during the first quarter										
MW-11	10-14-98	20.97	8.58	ND	12.39	10-14-98	Not sampled: well sampled annually, during the first quarter										
MW-11	01-21-99	20.97	8.25	ND	12.72	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-11	05-06-99	20.97	7.95	ND	13.02	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-11	08-23-99	20.97	8.51	ND	12.46	08-24-99	Not sampled: well sampled annually, during the first quarter										
MW-11	10-28-99	20.97	8.95	ND	12.02	10-28-99	Not sampled: well sampled annually, during the first quarter										
MW-11	02-04-00	20.97	7.88	ND	13.09	02-04-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	3.29	P

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-12	03-17-95	22.77	7.09	ND	15.68	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-12	06-01-95	22.77	8.40	ND	14.37	06-01-95	Not sampled: well sampled semi-annually, during the first and third quarters									--	
MW-12	08-31-95	22.77	8.55	ND	14.22	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	11-27-95	22.77	8.95	ND	13.82	11-27-95	Not sampled: well sampled semi-annually, during the first and third quarters									--	
MW-12	02-22-96	22.77	6.81	ND	15.96	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	05-20-96	22.77	7.56	ND	15.21	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-12	08-26-96	22.77	8.63	ND	14.14	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-12	11-20-96	22.77	8.38	ND	14.39	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-12	03-24-97	20.11	8.75	ND	11.36	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	05-23-97	20.11	8.92	ND	11.19	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-12	08-19-97	20.11	9.20	ND	10.91	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-12	11-19-97	20.11	9.20	ND	10.91	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-12	02-19-98	20.11	6.28	ND	13.83	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	04-23-98	20.11	7.52	ND	12.59	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-12	07-27-98	20.11	8.52	ND	11.59	07-27-98	Not sampled: well sampled annually, during the first quarter										
MW-12	10-14-98	20.11	9.06	ND	11.05	10-14-98	Not sampled: well sampled annually, during the first quarter										
MW-12	01-21-99	20.11	8.20	ND	11.91	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-12	05-06-99	20.11	8.47	ND	11.64	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-12	08-23-99	20.11	9.04	ND	11.07	08-24-99	Not sampled: well sampled annually, during the first quarter									0.85	
MW-12	10-28-99	20.11	9.40	ND	10.71	10-28-99	Not sampled: well sampled annually, during the first quarter										
MW-12	02-04-00	20.11	8.38	ND	11.73	02-04-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	3.34	P

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-13	03-17-95	22.45	6.91	ND	15.54	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-13	06-01-95	22.45	7.72	ND	14.73	06-01-95	Not sampled: well sampled annually, during the first quarter										
MW-13	08-31-95	22.45	7.58	ND	14.87	08-31-95	Not sampled: well sampled annually, during the first quarter										
MW-13	11-27-95	22.45	7.98	ND	14.47	11-27-95	Not sampled: well sampled annually, during the first quarter										
MW-13	02-22-96	22.45	6.71	ND	15.74	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-13	05-20-96	22.45	6.98	ND	15.47	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-13	08-26-96	22.45	7.85	ND	14.60	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-13	11-20-96	22.45	7.76	ND	14.69	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-13	03-24-97	20.75	7.85	ND	12.90	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-13	05-23-97	20.75	8.16	ND	12.59	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-13	08-19-97	20.75	8.40	ND	12.35	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-13	11-19-97	20.75	8.40	ND	12.35	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-13	02-19-98	20.75	6.44	ND	14.31	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-13	04-23-98	20.75	6.80	ND	13.95	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-13	07-27-98	20.75	7.52	ND	13.23	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-13	10-14-98	20.75	8.15	ND	12.60	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	2.0	P
MW-13	01-21-99	20.75	7.85	ND	12.90	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-13	05-06-99	20.75	7.82	ND	12.93	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-13	08-23-99	20.75	8.29	ND	12.46	08-24-99	Not sampled: well sampled annually, during the first quarter										0.94
MW-13	10-28-99	20.75	8.55	ND	12.20	10-28-99	Not sampled: well sampled annually, during the first quarter										
MW-13	02-04-00	20.75	8.11	ND	12.64	02-05-00	<50	<0.5	0.6	<0.5	<1	<3	--	--	--	1.27	P

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-14	03-17-95	22.99	8.17	ND	14.82	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-14	06-01-95	22.99	8.57	ND	14.42	06-01-95	Not sampled: well sampled annually, during the first quarter										
MW-14	08-31-95	22.99	9.05	ND	13.94	08-31-95	Not sampled: well sampled annually, during the first quarter										
MW-14	11-27-95	22.99	9.19	ND	13.80	11-27-95	Not sampled: well sampled annually, during the first quarter										
MW-14	02-22-96	22.99	6.52	ND	16.47	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-14	05-20-96	22.99	7.88	ND	15.11	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-14	08-26-96	22.99	8.83	ND	14.16	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-14	11-20-96	22.99	8.95	ND	14.04	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-14	03-24-97	20.90	8.98	ND	11.92	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-14	05-23-97	20.90	9.61	ND	11.29	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-14	08-19-97	20.90	9.80	ND	11.10	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-14	11-19-97	20.90	9.80	ND	11.10	11-19-97	<50	1.7	<0.5	0.6	3	<3	--	--	--		
MW-14	02-19-98	20.90	6.27	ND	14.63	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-14	04-23-98	20.90	7.75	ND	13.15	04-23-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-14	07-27-98	20.90	9.24	ND	11.66	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.0	P
MW-14	10-14-98	20.90	9.73	ND	11.17	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.0	P
MW-14	01-21-99	20.90	8.90	ND	12.00	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-14	05-06-99	20.90	8.98	ND	11.92	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.73	P
MW-14	08-23-99	20.90	9.68	ND	11.22	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.91	P
MW-14	10-28-99	20.90	10.00	ND	10.90	10-28-99	<50	<0.5	<0.5	<0.5	<1	<10	--	--	--	1.06	P
MW-14	02-04-00	20.90	8.19	ND	12.71	02-05-00	<50	<0.5	0.5	<0.5	<1	<3	--	--	--	1.21	P

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-15	03-17-95	19.19	5.21	ND	13.98	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-15	06-01-95	19.19	5.84	ND	13.35	06-01-95	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-15	08-31-95	19.19	6.18	ND	13.01	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-15	11-27-95	19.19	6.42	ND	12.77	11-27-95	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-15	02-22-96	19.19	4.84	ND	14.35	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	12	--	--	--		
MW-15	05-20-96	19.19	5.31	ND	13.88	05-21-96	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-15	08-26-96	19.19	6.05	ND	13.14	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	8	--	--	--		
MW-15	11-20-96	19.19	5.46	ND	13.73	11-20-96	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-15	03-24-97	22.08	6.00	ND	16.08	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	15	--	--	--		
MW-15	05-23-97	22.08	6.25	ND	15.83	05-23-97	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-15	08-19-97	22.08	6.34	ND	15.74	08-19-97	99[1]	<0.5	<0.5	<0.5	0.7	6	--	--	--		
MW-15	11-19-97	22.08	6.34	ND	15.74	11-19-97	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-15	02-19-98	22.08	4.66	ND	17.42	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	48	--	--	--		
MW-15	04-23-98	22.08	5.18	ND	16.90	04-23-98	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-15	07-27-98	22.08	6.02	ND	16.06	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	50	--	--	--	1.0	P
MW-15	10-14-98	22.08	6.26	ND	15.82	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	27	--	--	--	1.5	P
MW-15	01-21-99	22.08	5.33	ND	16.75	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	6	--	--	--	1.0	P
MW-15	05-06-99	22.08	5.82	ND	16.26	05-06-99	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-15	08-23-99	22.08	6.24	ND	15.84	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	21	--	--	--	1.14	P
MW-15	10-28-99	22.08	6.60	ND	15.48	10-28-99	Not sampled; well sampled semi-annually, during the first and third quarters										
MW-15	02-04-00	22.08	7.02	ND	15.06	02-04-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	1.09	P

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
ft-MSL: elevation in feet, relative to mean sea level TPHG: total petroleum hydrocarbons as gasoline, California DHS LUFT Method MTBE: Methyl tert-butyl ether TRPH: total recoverable petroleum hydrocarbons TPHD: total petroleum hydrocarbons as diesel, California DHS LUFT Method µg/L: micrograms per liter mg/L: milligrams per liter ND: none detected DRY: dry well; groundwater was not detected - - : not analyzed [1]: Sample contains a higher boiling point hydrocarbon mixture quantitated as gasoline. The chromatogram did not match the typical gasoline fingerprint. *: EPA method 8020 prior to 10/28/99 **: [corrected elevation (Z')] = Z + (h * 0.73) where: Z = measured elevation, h = floating product thickness, 0.73 = density ratio of oil to water ***: For previous historical groundwater elevation and analytical data please refer to <i>Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California</i> , (EMCON, March 14, 1996).																	

Table 2
Groundwater Flow Direction and Gradient

ARCO Service Station No. 601
712 Lewelling Boulevard, San Leandro, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
03/17/95	West-Southwest	0.006
06/01/95	Southwest	0.003
08/31/95	South-Southwest	0.005
11/27/95	South-Southwest	0.004
02/22/96	Northwest	0.007
05/20/96	Southwest	0.007
08/26/96	South-Southwest	0.004
11/20/96	South-Southeast	0.004
03/24/97	Southeast	0.013
05/23/97	Southeast	0.014
08/19/97	Southeast	0.04
11/19/97	Southeast	0.016
02/19/98	East	Variable
04/23/98	Variable	Variable
07/27/98	Southeast	0.05
10/14/98	Southeast	0.02
01/21/99	East	0.04
05/06/99	Southeast	0.05
08/23/99	Southeast	0.02
10/28/99	Southeast	0.04
02/04/00	East-Southeast	0.053

Table 3
Historical Groundwater Analytical Data
Metals*
1995 - Present**

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Sample Field Date	Cadmium EPA 6010 µg/L	Chromium EPA 6010 µg/L	Lead EPA 7421 µg/L	Nickel EPA 6010 µg/L	Zinc EPA 6010 µg/L
MW-1	03-17-95	<5	20	20	<40	60
MW-1	06-01-95	<5	20	22	70	100
MW-1	08-31-95	Not sampled: well contained floating product				
MW-1	11-27-95	Not sampled: well contained floating product				
MW-1	03-14-96	Not sampled: well contained floating product				
MW-1	05-21-96	0.006	<0.01	<0.005	<0.02	<0.02
MW-1	08-26-96	--	--	--	--	--
MW-1	11-20-96	--	--	--	--	--
MW-1	03-24-97	--	--	--	--	--
MW-1	05-23-97	Not analyzed: well MW-8 was sampled for additional parameters in lieu of well MW-1				
MW-1	08-19-97	--	--	--	--	--
MW-1	11-19-97	--	--	--	--	--
MW-1	02-19-98	<0.01	<0.01	<0.05	<0.02	<0.02
MW-1	04-23-98	--	--	--	--	--
MW-1	07-27-98	--	--	--	--	--
MW-1	10-14-98	--	--	--	--	--
MW-1	01-22-99	<0.005	<0.01	<0.05	<0.02	<0.02
MW-1	05-06-99	--	--	--	--	--
MW-1	08-24-99	--	--	--	--	--
MW-1	10-28-99	--	--	--	--	--
MW-1	02-04-00	Not analyzed for metals				
MW-8	08-31-95	<5	40	16	50	90
MW-8	11-27-95	<5	130	77	170	280
MW-8	03-14-96	<5	30	7	40	60
MW-8	05-23-97	<0.005	<0.01	<0.005	<0.02	<0.02

EPA: United States Environmental Protection Agency
mg/L: micrograms per liter
-- : not analyzed
*: Historically samples were analyzed for total metals. Since March 14, 1996, the samples were filtered and analyzed for dissolved metals
**: For previous historical analytical data please refer to *Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California*, (EMCON, March 14, 1996).

Table 4
Historical Groundwater Analytical Data
Volatile and Semivolatile Organic Compounds
1995 - Present*

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation Water Sample Field Date	Volatile Organic Compounds by EPA Method 601/8010 or 624/8240							Semivolatile Organic Compounds by EPA Method 3520/8270				
	Methylene Chloride µg/L	1,2-Dichloro- ethane µg/L	1,1-Dichloro- ethane µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Naphthalene µg/L	2-Methyl- naphthalene µg/L	Bis (2-ethylhexyl) Phthalate µg/L	Phenol µg/L	2,4-Di-methyl- phenol µg/L
MW-1 03-17-95	--	--	--	--	--	--	--	1300	730	<50	ND	150
MW-1 06-01-95	--	--	--	--	--	--	--	2200	1700	<100	240	<100
MW-1 08-31-95	Not sampled: well contained floating product											
MW-1 11-27-95	Not sampled: well contained floating product											
MW-1 03-14-96	Not sampled: well contained floating product											
MW-1 05-21-96	--	--	--	--	--	--	--	1200	860	<50	<50	<50
MW-1 08-26-96	--	--	--	--	--	--	--	2300	1800	<500	<500	<1000
MW-1 11-20-96	--	--	--	--	--	--	--	590	250	91	<50	<100
MW-1 03-24-97	--	--	--	--	--	--	--	730	610	<50	<50	<100
MW-1 05-23-97	Not analyzed: well MW-8 was sampled for additional parameters in lieu of well MW-1											
MW-1 08-19-97	--	--	--	--	--	--	--	1,300	790	<50	<50	<100
MW-1 11-19-97	--	--	--	--	--	--	--	<5	<5	5	<5	<10
MW-1 02-19-98	--	--	--	--	--	--	--	870	330	<50	<50	<100
MW-1 04-23-98	Not analyzed											
MW-1 07-27-98	Not analyzed											
MW-1 10-14-98	Not analyzed											
MW-1 01-28-99**	--	--	--	--	--	--	--	950	580	<50	<50	<100
MW-1 05-06-99	Not analyzed											
MW-1 08-24-99	--	--	--	--	--	--	--	1,200	400	<50	<50	<100
MW-1 10-28-99	--	--	--	--	--	--	--	1,100	320	<50	<50	<100
MW-1 02-04-00	--	--	--	--	--	--	--	780	330	<50	<50	<100

Table 4
Historical Groundwater Analytical Data
Volatile and Semivolatile Organic Compounds
1995 - Present*

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation Water Sample Field Date	Volatile Organic Compounds by EPA Method 601/8010 or 624/8240							Semivolatile Organic Compounds by EPA Method 3520/8270				
	Methylene Chloride µg/L	1,2-Dichloro- ethane µg/L	1,1-Dichloro- ethane µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Naphthalene µg/L	2-Methyl- naphthalene µg/L	Bis (2-ethylhexyl) Phthalate µg/L	Phenol µg/L	2,4-Di-methyl- phenol µg/L
MW-8 08-31-95	--	--	--	--	--	--	--	62	8	<5	<5	<5
MW-8 11-27-95	--	--	--	--	--	--	--	15	<5	<5	<5	<5
MW-8 03-14-96	--	--	--	--	--	--	--	400	55	<50	<50	<50
MW-8 05-23-97	--	--	--	--	--	--	--	26	<5	<5	<5	<10
EPA: United States Environmental Protection Agency µg/L: micrograms per liter -- : not analyzed < = less than the laboratory detection limit stated to the right *: For previous historical analytical data please refer to <i>Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California</i> , (EMCON, March 14, 1996). **: Sampling date is different from Groundwater Monitoring Field Date												

Table 5
Approximate Cumulative Floating Product Recovered

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Desig- nation	Date	Floating Product Recovered gallons
MW-1	1991	3.43
MW-1	1992	0.02
MW-1	1993	0.00
MW-1	1994	0.00
MW-1	1995	0.00
MW-1	1996	0.00
MW-1	1997	0.00
MW-1	1998	0.00
MW-1	1999	0.00
MW-1	2000	0.00
1991 to 2000 Total:		3.45

APPENDIX C

Certified Analytical Reports
And
Chain-of-Custody Documentation



**Sequoia
Analytical**

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9 October, 2001

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

RE: ARCO 601, San Leandro, CA
Sequoia Report: S109362

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



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-7	S109362-01	Water	09/22/01 20:00	09/25/01 09:30
MW-3-7	S109362-02	Water	09/22/01 21:30	09/25/01 09:30
MW-4-7	S109362-03	Water	09/22/01 19:45	09/25/01 09:30
MW-8-8	S109362-04	Water	09/22/01 19:30	09/25/01 09:30
MW-14-10	S109362-05	Water	09/22/01 19:19	09/25/01 09:30
MW-15-6	S109362-06	Water	09/22/01 21:20	09/25/01 09:30
TB	S109362-07	Water	09/22/01 06:00	09/25/01 09:30

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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.

Ron Chew, Client Services Representative

Page Page 1 of 16



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-7 (S109362-01) Water Sampled: 09/22/01 20:00 Received: 09/25/01 09:30									
Purgeable Hydrocarbons	20000	20000	ug/l	400	1100002	09/27/01	09/27/01	DHS LUFT	
Benzene	2900	200	"	"	"	"	"	"	
Toluene	ND	200	"	"	"	"	"	"	
Ethylbenzene	2500	200	"	"	"	"	"	"	
Xylenes (total)	270	200	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1000	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.0 %	60-140		"	"	"	"	
MW-3-7 (S109362-02) Water Sampled: 09/22/01 21:30 Received: 09/25/01 09:30									
Purgeable Hydrocarbons	53000	20000	ug/l	400	1100002	09/27/01	09/27/01	DHS LUFT	
Benzene	1200	200	"	"	"	"	"	"	
Toluene	1200	200	"	"	"	"	"	"	
Ethylbenzene	3100	200	"	"	"	"	"	"	
Xylenes (total)	13000	200	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1000	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94.8 %	60-140		"	"	"	"	
MW-4-7 (S109362-03) Water Sampled: 09/22/01 19:45 Received: 09/25/01 09:30									
Purgeable Hydrocarbons	6700	1000	ug/l	20	1100038	10/01/01	10/01/01	DHS LUFT	
Benzene	650	10	"	"	"	"	"	"	
Toluene	110	10	"	"	"	"	"	"	
Ethylbenzene	410	10	"	"	"	"	"	"	
Xylenes (total)	1800	10	"	"	"	"	"	"	
Methyl tert-butyl ether	100	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.0 %	60-140		"	"	"	"	



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

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Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8-8 (S109362-04) Water Sampled: 09/22/01 19:30 Received: 09/25/01 09:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	1100002	09/27/01	09/27/01	DHS LUFT	A-02
Benzene	ND	0.50	"	"	"	"	"	"	A-02
Toluene	ND	0.50	"	"	"	"	"	"	A-02
Ethylbenzene	ND	0.50	"	"	"	"	"	"	A-02
Xylenes (total)	ND	0.50	"	"	"	"	"	"	A-02
Methyl tert-butyl ether	6.5	2.5	"	"	"	"	"	"	A-02
Surrogate: a,a,a-Trifluorotoluene		92.8 %	60-140		"	"	"	"	A-02
MW-14-10 (S109362-05) Water Sampled: 09/22/01 19:19 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	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.5 %	60-140		"	"	"	"	
MW-15-6 (S109362-06) Water Sampled: 09/22/01 21:20 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	13	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	60-140		"	"	"	"	



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Reported:
10/09/01 13:53

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB (S109362-07) 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	1.5	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	1.1	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	5.4	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.2 %	60-140		"	"	"	"	



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Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-7 (S109362-01) Water Sampled: 09/22/01 20:00 Received: 09/25/01 09:30									
Acenaphthene	ND	50	ug/l	10	1124013	09/27/01	10/01/01	EPA 8270C	
Acenaphthylene	ND	50	"	"	"	"	"	"	
Aniline	ND	50	"	"	"	"	"	"	
Anthracene	ND	50	"	"	"	"	"	"	
Benzoic acid	ND	100	"	"	"	"	"	"	
Benzo (a) anthracene	ND	50	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	50	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	50	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	50	"	"	"	"	"	"	
Benzo[a]pyrene	ND	50	"	"	"	"	"	"	
Benzyl alcohol	ND	50	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	50	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	50	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	50	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	500	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	50	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	500	"	"	"	"	"	"	
4-Chloroaniline	ND	250	"	"	"	"	"	"	
2-Chloronaphthalene	ND	50	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	50	"	"	"	"	"	"	
2-Chlorophenol	ND	50	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	50	"	"	"	"	"	"	
Chrysene	ND	50	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	100	"	"	"	"	"	"	
Dibenzofuran	ND	50	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	100	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	100	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	50	"	"	"	"	"	"	
Diethyl phthalate	ND	50	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	50	"	"	"	"	"	"	
Dimethyl phthalate	ND	50	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	100	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	100	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	100	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	100	"	"	"	"	"	"	

Sequoia Analytical - Sacramento

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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-7 (S109362-01) Water Sampled: 09/22/01 20:00 Received: 09/25/01 09:30									
Di-n-octyl phthalate	ND	100	ug/l	10	1124013	09/27/01	10/01/01	EPA 8270C	
Fluoranthene	ND	50	"	"	"	"	"	"	
Fluorene	ND	50	"	"	"	"	"	"	
Hexachlorobenzene	ND	100	"	"	"	"	"	"	
Hexachlorobutadiene	ND	100	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	100	"	"	"	"	"	"	
Hexachloroethane	ND	50	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	100	"	"	"	"	"	"	
Isophorone	ND	50	"	"	"	"	"	"	
2-Methylnaphthalene	360	50	"	"	"	"	"	"	
2-Methylphenol	ND	50	"	"	"	"	"	"	
4-Methylphenol	ND	50	"	"	"	"	"	"	
Naphthalene	980	50	"	"	"	"	"	"	
2-Nitroaniline	ND	100	"	"	"	"	"	"	
3-Nitroaniline	ND	100	"	"	"	"	"	"	
4-Nitroaniline	ND	200	"	"	"	"	"	"	
Nitrobenzene	ND	50	"	"	"	"	"	"	
2-Nitrophenol	ND	50	"	"	"	"	"	"	
4-Nitrophenol	ND	100	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	50	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	50	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	50	"	"	"	"	"	"	
Pentachlorophenol	ND	100	"	"	"	"	"	"	
Phenanthrene	ND	50	"	"	"	"	"	"	
Phenol	ND	50	"	"	"	"	"	"	
Pyrene	ND	50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	50	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	100	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	100	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol	37.2 %	21-110			"	"	"	"	
Surrogate: Phenol-d6	25.9 %	10-110			"	"	"	"	
Surrogate: Nitrobenzene-d5	80.1 %	35-114			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	85.9 %	43-116			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	97.3 %	10-123			"	"	"	"	
Surrogate: p-Terphenyl-d14	89.1 %	33-141			"	"	"	"	



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Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

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
Batch 1100002 - EPA 5030B (P/T)										
Blank (1100002-BLK1)				Prepared & Analyzed: 09/27/01						
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	"							
Surrogate: a,a,a-Trifluorotoluene	9.37		"	10.0		93.7	60-140			
LCS (1100002-BS1)				Prepared & Analyzed: 09/27/01						
Benzene	10.5	0.50	ug/l	10.0		105	70-130			
Toluene	10.8	0.50	"	10.0		108	70-130			
Ethylbenzene	11.0	0.50	"	10.0		110	70-130			
Xylenes (total)	30.3	0.50	"	30.0		101	70-130			
Methyl tert-butyl ether	11.9	2.5	"	10.0		119	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.3		"	10.0		103	60-140			
Matrix Spike (1100002-MS1)				Source: S109355-04	Prepared & Analyzed: 09/27/01					
Benzene	10.7	0.50	ug/l	10.0	ND	107	60-140			
Toluene	11.3	0.50	"	10.0	ND	113	60-140			
Ethylbenzene	11.4	0.50	"	10.0	ND	114	60-140			
Xylenes (total)	32.0	0.50	"	30.0	ND	107	60-140			
Methyl tert-butyl ether	13.1	2.5	"	10.0	ND	131	60-140			
Surrogate: a,a,a-Trifluorotoluene	10.0		"	10.0		100	60-140			
Matrix Spike Dup (1100002-MSD1)				Source: S109355-04	Prepared & Analyzed: 09/27/01					
Benzene	10.8	0.50	ug/l	10.0	ND	108	60-140	0.930	25	
Toluene	11.3	0.50	"	10.0	ND	113	60-140	0.00	25	
Ethylbenzene	11.4	0.50	"	10.0	ND	114	60-140	0.00	25	
Xylenes (total)	31.8	0.50	"	30.0	ND	106	60-140	0.627	25	
Methyl tert-butyl ether	14.1	2.5	"	10.0	ND	141	60-140	7.35	25	QM-07
Surrogate: a,a,a-Trifluorotoluene	9.93		"	10.0		99.3	60-140			



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

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	"						
Surrogate: a,a,a-Trifluorotoluene	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		
Surrogate: a,a,a-Trifluorotoluene	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		
Surrogate: a,a,a-Trifluorotoluene	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
Surrogate: a,a,a-Trifluorotoluene	8.27		"	10.0		82.7	60-140		



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

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 1100038 - EPA 5030B (P/T)

Blank (1100038-BLK1)

Prepared & Analyzed: 10/01/01

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	"							
Surrogate: a,a,a-Trifluorotoluene	8.95		"	10.0		89.5	60-140			

LCS (1100038-BS1)

Prepared & Analyzed: 10/01/01

Benzene	9.98	0.50	ug/l	10.0		99.8	70-130			
Toluene	9.55	0.50	"	10.0		95.5	70-130			
Ethylbenzene	9.54	0.50	"	10.0		95.4	70-130			
Xylenes (total)	28.0	0.50	"	30.0		93.3	70-130			
Methyl tert-butyl ether	10.1	2.5	"	10.0		101	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.72		"	10.0		87.2	60-140			

Matrix Spike (1100038-MS1)

Source: S109368-06

Prepared & Analyzed: 10/01/01

Benzene	10.4	0.50	ug/l	10.0	ND	104	60-140			
Toluene	11.3	0.50	"	10.0	1.4	99.0	60-140			
Ethylbenzene	10.3	0.50	"	10.0	ND	103	60-140			
Xylenes (total)	31.0	0.50	"	30.0	0.75	101	60-140			
Methyl tert-butyl ether	18.0	2.5	"	10.0	6.0	120	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.04		"	10.0		90.4	60-140			

Matrix Spike Dup (1100038-MSD1)

Source: S109368-06

Prepared: 10/01/01 Analyzed: 10/03/01

Benzene	9.32	0.50	ug/l	10.0	ND	93.2	60-140	11.0	25	
Toluene	10.1	0.50	"	10.0	1.4	87.0	60-140	11.2	25	
Ethylbenzene	9.07	0.50	"	10.0	ND	90.7	60-140	12.7	25	
Xylenes (total)	27.4	0.50	"	30.0	0.75	88.8	60-140	12.3	25	
Methyl tert-butyl ether	16.7	2.5	"	10.0	6.0	107	60-140	7.49	25	
Surrogate: a,a,a-Trifluorotoluene	10.1		"	10.0		101	60-140			



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1124013 - EPA 3510B Sep Funnel

Blank (1124013-BLK1)

Prepared: 09/24/01 Analyzed: 09/25/01

Acenaphthene	ND	5.0	ug/l
Acenaphthylene	ND	5.0	"
Aniline	ND	5.0	"
Anthracene	ND	5.0	"
Benzoic acid	ND	10	"
Benzo (a) anthracene	ND	5.0	"
Benzo (b) fluoranthene	ND	5.0	"
Benzo (k) fluoranthene	ND	5.0	"
Benzo (ghi) perylene	ND	5.0	"
Benzo[a]pyrene	ND	5.0	"
Benzyl alcohol	ND	5.0	"
Bis(2-chloroethoxy)methane	ND	5.0	"
Bis(2-chloroethyl)ether	ND	5.0	"
Bis(2-chloroisopropyl)ether	ND	5.0	"
Bis(2-ethylhexyl)phthalate	ND	50	"
4-Bromophenyl phenyl ether	ND	5.0	"
Butyl benzyl phthalate	ND	50	"
4-Chloroaniline	ND	25	"
2-Chloronaphthalene	ND	5.0	"
4-Chloro-3-methylphenol	ND	5.0	"
2-Chlorophenol	ND	5.0	"
4-Chlorophenyl phenyl ether	ND	5.0	"
Chrysene	ND	5.0	"
Dibenz (a,h) anthracene	ND	10	"
Dibenzofuran	ND	5.0	"
Di-n-butyl phthalate	ND	10	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	10	"
3,3'-Dichlorobenzidine	ND	10	"
2,4-Dichlorophenol	ND	5.0	"
Diethyl phthalate	ND	5.0	"
2,4-Dimethylphenol	ND	5.0	"
Dimethyl phthalate	ND	5.0	"
4,6-Dinitro-2-methylphenol	ND	10	"
2,4-Dinitrophenol	ND	10	"

Sequoia Analytical - Sacramento

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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1124013 - EPA 3510B Sep Funnel

Blank (1124013-BLK1)

Prepared: 09/24/01 Analyzed: 09/25/01

2,4-Dinitrotoluene	ND	10	ug/l						
2,6-Dinitrotoluene	ND	10	"						
Di-n-octyl phthalate	ND	10	"						
Fluoranthene	ND	5.0	"						
Fluorene	ND	5.0	"						
Hexachlorobenzene	ND	10	"						
Hexachlorobutadiene	ND	10	"						
Hexachlorocyclopentadiene	ND	10	"						
Hexachloroethane	ND	5.0	"						
Indeno (1,2,3-cd) pyrene	ND	10	"						
Isophorone	ND	5.0	"						
2-Methylnaphthalene	ND	5.0	"						
2-Methylphenol	ND	5.0	"						
4-Methylphenol	ND	5.0	"						
Naphthalene	ND	5.0	"						
2-Nitroaniline	ND	10	"						
3-Nitroaniline	ND	10	"						
4-Nitroaniline	ND	20	"						
Nitrobenzene	ND	5.0	"						
2-Nitrophenol	ND	5.0	"						
4-Nitrophenol	ND	10	"						
N-Nitrosodimethylamine	ND	5.0	"						
N-Nitrosodiphenylamine	ND	5.0	"						
N-Nitrosodi-n-propylamine	ND	5.0	"						
Pentachlorophenol	ND	10	"						
Phenanthrene	ND	5.0	"						
Phenol	ND	5.0	"						
Pyrene	ND	5.0	"						
1,2,4-Trichlorobenzene	ND	5.0	"						
2,4,5-Trichlorophenol	ND	10	"						
2,4,6-Trichlorophenol	ND	10	"						
Surrogate: 2-Fluorophenol	61.2		"	150		40.8	21-110		
Surrogate: Phenol-d6	40.0		"	150		26.7	10-110		
Surrogate: Nitrobenzene-d5	76.1		"	100		76.1	35-114		
Surrogate: 2-Fluorobiphenyl	81.7		"	100		81.7	43-116		
Surrogate: 2,4,6-Tribromophenol	108		"	150		72.0	10-123		

Sequoia Analytical - Sacramento

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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1124013 - EPA 3510B Sep Funnel

Blank (1124013-BLK1)

Prepared: 09/24/01 Analyzed: 09/25/01

Surrogate: *p*-Terphenyl-*d*14 72.5 ug/l 100 72.5 33-141

Blank (1124013-BLK3)

Prepared: 09/27/01 Analyzed: 10/01/01

Acenaphthene	ND	5.0	ug/l
Acenaphthylene	ND	5.0	"
Aniline	ND	5.0	"
Anthracene	ND	5.0	"
Benzoic acid	ND	10	"
Benzo (a) anthracene	ND	5.0	"
Benzo (b) fluoranthene	ND	5.0	"
Benzo (k) fluoranthene	ND	5.0	"
Benzo (ghi) perylene	ND	5.0	"
Benzo[a]pyrene	ND	5.0	"
Benzyl alcohol	ND	5.0	"
Bis(2-chloroethoxy)methane	ND	5.0	"
Bis(2-chloroethyl)ether	ND	5.0	"
Bis(2-chloroisopropyl)ether	ND	5.0	"
Bis(2-ethylhexyl)phthalate	ND	50	"
4-Bromophenyl phenyl ether	ND	5.0	"
Butyl benzyl phthalate	ND	50	"
4-Chloroaniline	ND	25	"
2-Chloronaphthalene	ND	5.0	"
4-Chloro-3-methylphenol	ND	5.0	"
2-Chlorophenol	ND	5.0	"
4-Chlorophenyl phenyl ether	ND	5.0	"
Chrysene	ND	5.0	"
Dibenz (a,h) anthracene	ND	10	"
Dibenzofuran	ND	5.0	"
Di-n-butyl phthalate	ND	10	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	10	"
3,3'-Dichlorobenzidine	ND	10	"
2,4-Dichlorophenol	ND	5.0	"
Diethyl phthalate	ND	5.0	"
2,4-Dimethylphenol	ND	5.0	"

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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1124013 - EPA 3510B Sep Funnel

Blank (1124013-BLK3)

Prepared: 09/27/01 Analyzed: 10/01/01

Dimethyl phthalate	ND	5.0	ug/l							
4,6-Dinitro-2-methylphenol	ND	10	"							
2,4-Dinitrophenol	ND	10	"							
2,4-Dinitrotoluene	ND	10	"							
2,6-Dinitrotoluene	ND	10	"							
Di-n-octyl phthalate	ND	10	"							
Fluoranthene	ND	5.0	"							
Fluorene	ND	5.0	"							
Hexachlorobenzene	ND	10	"							
Hexachlorobutadiene	ND	10	"							
Hexachlorocyclopentadiene	ND	10	"							
Hexachloroethane	ND	5.0	"							
Indeno (1,2,3-cd) pyrene	ND	10	"							
Isophorone	ND	5.0	"							
2-Methylnaphthalene	ND	5.0	"							
2-Methylphenol	ND	5.0	"							
4-Methylphenol	ND	5.0	"							
Naphthalene	ND	5.0	"							
2-Nitroaniline	ND	10	"							
3-Nitroaniline	ND	10	"							
4-Nitroaniline	ND	20	"							
Nitrobenzene	ND	5.0	"							
2-Nitrophenol	ND	5.0	"							
4-Nitrophenol	ND	10	"							
N-Nitrosodimethylamine	ND	5.0	"							
N-Nitrosodiphenylamine	ND	5.0	"							
N-Nitrosodi-n-propylamine	ND	5.0	"							
Pentachlorophenol	ND	10	"							
Phenanthrene	ND	5.0	"							
Phenol	ND	5.0	"							
Pyrene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
2,4,5-Trichlorophenol	ND	10	"							
2,4,6-Trichlorophenol	ND	10	"							
Surrogate: 2-Fluorophenol	61.1		"	150		40.7	21-110			
Surrogate: Phenol-d6	42.2		"	150		28.1	10-110			

Sequoia Analytical - Sacramento

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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1I24013 - EPA 3510B Sep Funnel									
Blank (1I24013-BLK3)					Prepared: 09/27/01 Analyzed: 10/01/01				
Surrogate: Nitrobenzene-d5	71.4		ug/l	100		71.4	35-114		
Surrogate: 2-Fluorobiphenyl	74.0		"	100		74.0	43-116		
Surrogate: 2,4,6-Tribromophenol	103		"	150		68.7	10-123		
Surrogate: p-Terphenyl-d14	63.0		"	100		63.0	33-141		
LCS (1I24013-BS1)					Prepared: 09/24/01 Analyzed: 09/25/01				
Acenaphthene	72.4	5.0	ug/l	100		72.4	46-118		
4-Chloro-3-methylphenol	129	5.0	"	150		86.0	23-97		
2-Chlorophenol	102	5.0	"	150		68.0	27-123		
1,4-Dichlorobenzene	68.2	10	"	100		68.2	36-97		
2,4-Dinitrotoluene	74.9	10	"	100		74.9	24-96		
4-Nitrophenol	43.4	10	"	150		28.9	10-80		
N-Nitrosodi-n-propylamine	83.8	5.0	"	100		83.8	41-116		
Pentachlorophenol	110	10	"	150		73.3	9-103		
Phenol	43.0	5.0	"	150		28.7	12-110		
Pyrene	62.1	5.0	"	100		62.1	26-127		
1,2,4-Trichlorobenzene	77.4	5.0	"	100		77.4	39-98		
Surrogate: 2-Fluorophenol	61.9		"	150		41.3	21-110		
Surrogate: Phenol-d6	41.9		"	150		27.9	10-110		
Surrogate: Nitrobenzene-d5	76.8		"	100		76.8	35-114		
Surrogate: 2-Fluorobiphenyl	74.5		"	100		74.5	43-116		
Surrogate: 2,4,6-Tribromophenol	111		"	150		74.0	10-123		
Surrogate: p-Terphenyl-d14	65.1		"	100		65.1	33-141		
LCS (1I24013-BS3)					Prepared: 09/27/01 Analyzed: 10/01/01				
Acenaphthene	68.7	5.0	ug/l	100		68.7	46-118		
4-Chloro-3-methylphenol	120	5.0	"	150		80.0	23-97		
2-Chlorophenol	94.3	5.0	"	150		62.9	27-123		
1,4-Dichlorobenzene	62.5	10	"	100		62.5	36-97		
2,4-Dinitrotoluene	69.2	10	"	100		69.2	24-96		
4-Nitrophenol	40.0	10	"	150		26.7	10-80		
N-Nitrosodi-n-propylamine	70.6	5.0	"	100		70.6	41-116		
Pentachlorophenol	109	10	"	150		72.7	9-103		
Phenol	41.1	5.0	"	150		27.4	12-110		
Pyrene	61.0	5.0	"	100		61.0	26-127		
1,2,4-Trichlorobenzene	70.7	5.0	"	100		70.7	39-98		
Surrogate: 2-Fluorophenol	59.9		"	150		39.9	21-110		

Sequoia Analytical - Sacramento

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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1124013 - EPA 3510B Sep Funnel

LCS (1124013-BS3)

Prepared: 09/27/01 Analyzed: 10/01/01

Surrogate: Phenol-d6	38.0		ug/l	150		25.3	10-110			
Surrogate: Nitrobenzene-d5	71.9		"	100		71.9	35-114			
Surrogate: 2-Fluorobiphenyl	68.8		"	100		68.8	43-116			
Surrogate: 2,4,6-Tribromophenol	105		"	150		70.0	10-123			
Surrogate: p-Terphenyl-d14	60.1		"	100		60.1	33-141			

LCS Dup (1124013-BSD1)

Prepared: 09/24/01 Analyzed: 09/25/01

Acenaphthene	73.4	5.0	ug/l	100		73.4	46-118	1.37	30	
4-Chloro-3-methylphenol	128	5.0	"	150		85.3	23-97	0.778	30	
2-Chlorophenol	102	5.0	"	150		68.0	27-123	0.00	30	
1,4-Dichlorobenzene	70.3	10	"	100		70.3	36-97	3.03	30	
2,4-Dinitrotoluene	78.2	10	"	100		78.2	24-96	4.31	30	
4-Nitrophenol	43.3	10	"	150		28.9	10-80	0.231	30	
N-Nitrosodi-n-propylamine	84.6	5.0	"	100		84.6	41-116	0.950	30	
Pentachlorophenol	115	10	"	150		76.7	9-103	4.44	30	
Phenol	42.8	5.0	"	150		28.5	12-110	0.466	30	
Pyrene	65.5	5.0	"	100		65.5	26-127	5.33	30	
1,2,4-Trichlorobenzene	79.1	5.0	"	100		79.1	39-98	2.17	30	
Surrogate: 2-Fluorophenol	60.6		"	150		40.4	21-110			
Surrogate: Phenol-d6	40.3		"	150		26.9	10-110			
Surrogate: Nitrobenzene-d5	76.4		"	100		76.4	35-114			
Surrogate: 2-Fluorobiphenyl	73.0		"	100		73.0	43-116			
Surrogate: 2,4,6-Tribromophenol	113		"	150		75.3	10-123			
Surrogate: p-Terphenyl-d14	68.0		"	100		68.0	33-141			



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/09/01 13:53

Notes and Definitions

A-02 Sample confirmed on alternate column on 10/01/01.

QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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

Division of Atlantic Flightfield Company

Task Order No.

Chain of Custody

[illegible]



**Sequoia
Analytical**

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
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2 October, 2001

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

RE: ARCO 601, San Leandro, CA
Sequoia Report: S109363

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



**Sequoia
Analytical**

819 Striker Avenue, Suite 8
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Delta Environmental Consultants(Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/02/01 17:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9-8	S109363-01	Water	09/22/01 18:58	09/25/01 09:30
MW-10-8	S109363-02	Water	09/22/01 21:10	09/25/01 09:30

Sequoia Analytical - Sacramento

Ron Chew, Client Services Representative

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Page Page 1 of 4



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/02/01 17:49

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-9-8 (S109363-01) Water Sampled: 09/22/01 18:58 Received: 09/25/01 09:30

Purgeable Hydrocarbons	ND	50	ug/l	1	1090312	09/27/01	09/27/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	7.8	2.5	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene 87.5 % 60-140 " " " "

MW-10-8 (S109363-02) Water Sampled: 09/22/01 21:10 Received: 09/25/01 09:30

Purgeable Hydrocarbons	ND	50	ug/l	1	1090312	09/27/01	09/27/01	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	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene 84.2 % 60-140 " " " "



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

Project: ARCO 601, San Leandro, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
10/02/01 17:49

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
Batch 1090312 - EPA 5030B (P/T)										
Blank (1090312-BLK1)				Prepared & Analyzed: 09/27/01						
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	"							
Surrogate: a,a,a-Trifluorotoluene	8.85		"	10.0		88.5	60-140			
LCS (1090312-BS1)				Prepared & Analyzed: 09/27/01						
Benzene	9.65	0.50	ug/l	10.0		96.5	70-130			
Toluene	9.29	0.50	"	10.0		92.9	70-130			
Ethylbenzene	9.37	0.50	"	10.0		93.7	70-130			
Xylenes (total)	27.7	0.50	"	30.0		92.3	70-130			
Methyl tert-butyl ether	10.9	2.5	"	10.0		109	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.22		"	10.0		92.2	60-140			
Matrix Spike (1090312-MS1)				Source: S109360-02	Prepared & Analyzed: 09/27/01					
Benzene	10.4	0.50	ug/l	10.0	ND	104	60-140			
Toluene	11.2	0.50	"	10.0	1.5	97.0	60-140			
Ethylbenzene	10.2	0.50	"	10.0	ND	102	60-140			
Xylenes (total)	30.7	0.50	"	30.0	0.78	99.7	60-140			
Methyl tert-butyl ether	16.7	2.5	"	10.0	4.5	122	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.32		"	10.0		93.2	60-140			
Matrix Spike Dup (1090312-MSD1)				Source: S109360-02	Prepared & Analyzed: 09/27/01					
Benzene	10.0	0.50	ug/l	10.0	ND	100	60-140	3.92	25	
Toluene	10.8	0.50	"	10.0	1.5	93.0	60-140	3.64	25	
Ethylbenzene	9.76	0.50	"	10.0	ND	97.6	60-140	4.41	25	
Xylenes (total)	29.4	0.50	"	30.0	0.78	95.4	60-140	4.33	25	
Methyl tert-butyl ether	16.7	2.5	"	10.0	4.5	122	60-140	0.00	25	
Surrogate: a,a,a-Trifluorotoluene	9.08		"	10.0		90.8	60-140			



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Reported:
10/02/01 17:49

Notes and Definitions

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

Division of Atlantic Richfield Company

Task Order No. 259900

Chain of Custody

ARCO Facility no.		601		City (Facility)		San Leandro		Project manager (Consultant)		Steve Meeks		Laboratory name		Squibb									
ARCO engineer		Paul Supple		Telephone no. (ARCO)				Telephone no. (Consultant)		638 2085		Fax no. (Consultant)		638 8385									
Consultant name		Delta		Address (Consultant)		Rancho Cordova						Contract number											
Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	STEX 602/EPA 8020	BTEX/TPH 1/MTZ/EPA 801/802/803/8015	TPH Modified 8015 Gas Diesel	Oil and Grease 413.1 413.2	TPH EPA 418.1/SM505E	EPA 801/8010	EPA 824/8240	EPA 825/8270	TCLP Metals VOA VOC	CAA Metals EPA 801/7000 TLCL STLCL	Lead Org./DHS Lead EPA 7420/7421	Method of shipment		
MW-9-8		2	Soil	Water	Other	Ice	Acid	9-22-01	1858		X												
MW-10-8		2						1	2110		X												
Special detection Limit/Reporting																							
Special QA/QC																							
Remarks																							
Lab number																							
Turnaround time																							
Priority Rush 1 Business Day																							
Rush 2 Business Days																							
Expedited 5 Business Days																							
Standard 10 Business Days																							
Condition of sample:										Temperature received: 13°C													
Relinquished by sampler										Date		Time		Received by									
Relinquished by										Date		Time		Received by									
Relinquished by										Date		Time		Received by laboratory									



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

Arco Site Address: **712 Lewelling Blvd.**

San Leandro, CA

Arco Project Manager: **Paul Supple**

Site Sampled By: **Doulos**

Arco Site Number: **601**

Delta Project No.: **D000-303**

Delta Project PM: **Steven W. Meeks**

Date Sampled: **09/22/01**

Site Contact & Phone

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	SVOCs (8270) VOA	Dissolved Oxygen (mg/L)	Sample Frequency (A, S, Q)	Sample I.D.	Sample Time
MW-1	18:40	9.03	7.0	10.8	☒	1.75	4 inch	2.0	3.5	NP	☒	☒	☒	☐	0.82	Q/2,5,8,11	MW-1	20:00
MW-2	18:36	8.08	8.0	12.1	☐	4.06	4 inch	2.0	8.1	N/A	☐	☐	☐	☐	NM	A/2		
MW-3	18:20	7.24	8.0	11.8	☐	4.57	4 inch	2.0	9.1	9.1	☒	☒	☒	☐	1.00	Q/2,5,8,11	MW-3	21:30
MW-4	18:24	7.43	NM	8.3	☒	0.83	4 inch	2.0	1.7	NP	☒	☒	☒	☐	1.19	Q/2,5,8,11	MW-4	19:45
MW-5	18:28	DRY	NM	8.0	☐	DRY	4 inch	2.0	DRY	N/A	☐	☐	☐	☐	NM	Q/2,5,8,11		
MW-6	18:32	DRY	NM	8.4	☐	DRY	4 inch	2.0	DRY	N/A	☐	☐	☐	☐	NM	Q/2,5,8,11		
MW-7	18:12	DRY	NM	9.4	☐	DRY	4 inch	2.0	DRY	N/A	☐	☐	☐	☐	NM	Q/2,5,8,11		
MW-8	18:16	8.14	NM	10.1	☒	1.96	4 inch	2.0	3.9	NP	☒	☒	☒	☐	1.59	Q/2,5,8,11	MW-8	19:30
MW-9	17:40	8.69	NM	15.9	☐	7.25	2 inch	0.5	3.6	3.6	☒	☒	☒	☐	1.74	S/2,8	MW-9	18:58
MW-10	17:44	8.77	NM	11.9	☐	3.15	2 inch	0.5	1.6	1.6	☒	☒	☒	☐	1.82	Q/2,5,8,11	MW-10	21:10
MW-11	18:08	9.11	7.0	11.6	☐	2.47	4 inch	2.0	4.9	N/A	☐	☐	☐	☐	NM	A/2		
MW-12	18:04	9.48	7.5	11.1	☐	1.66	4 inch	2.0	3.3	N/A	☐	☐	☐	☐	NM	A/2		
MW-13	17:59	8.57	NM	12.7	☐	4.11	2 inch	0.5	2.1	N/A	☐	☐	☐	☐	NM	A/2		
MW-14	17:55	10.04	7.5	12.6	☒	2.57	2 inch	0.5	1.3	NP	☒	☒	☒	☐	NM	Q/2,5,8,11	MW-14	19:19
MW-15	17:49	6.79	NM	9.8	☐	3.02	2 inch	0.5	1.5	1.5	☒	☒	☒	☐	0.59	S/2,8	MW-15	21:20
					☐						☐	☐	☐	☐				
					☐	Note: Use Separate COC for Samples collected from wells MW-9 and MW-10					☐	☐	☐	☐				
					☐						☐	☐	☐	☐				
					☐	Note: Sample well MW-1 for Metals Annually in February (Cd, Cr, Pb, Ni & Zn)					☐	☐	☐	☐				
					☐						☐	☐	☐	☐				
					☐						☐	☐	☐	☐				

(A)-Casing Water Column: Depth to Bottom - Depth to Water (B)-Multiplier Values: (2" Well: 0.5) (4" Well: 2.0) (6" Well: 4.4)

Sampling Sequence: Annual: MW-11, MW-12, MW-13, MW-2; Semi-Annual: MW-9, MW-15 Quarterly: MW-10, MW-14, MW-7, MW-8, MW-4, MW-6, MW-5, MW-1, MW-3

Sampling Notes: List depth of Sample on C.O.C. [i.e. MW-1(30)]. Make Sure to Note on C.O.C. "Provide Lowest Reporting Limit Available."

Original Copies of Field Sampling Sheets are Located in Project File

If the water level is below the top of the screen, take a grab sample and check box for NO PURGE (NP). If the water level is above the screen, purge as normal. *Sample MW-1 for Metals Annually in February.



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Arco Project Manager: **Paul Supple**

Site Sampled By: **Doulos**

Arco Site Number: **601**

Delta Project No.: **D000-303**

Delta Project PM: **Steven W. Meeks**

Date Sampled: **9/22/01**

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 Required					MW-8	No Purge Required					MW-15	19:10	70.2	7.33	1,114	0.5
													19:11	68.4	7.39	11,106	1.0
													19:12	68.4	7.37	1,101	1.5
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-2	Not Sampled					MW-9	18:45	69.2	7.18	1,372	1						
							18:46	68.4	7.10	1,319	2						
							18:47	68.3	7.10	1,310	3						
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-3	19:35	69.6	7.18	1,214	3	MW-10	19:03	69.2	7.38	1,484	0.5						
	19:38	69.3	7.10	1,206	6		19:04	68.4	7.22	1,451	1.0						
	19:41	69.1	7.08	1,204	11		19:05	68.3	7.21	1,436	1.5						
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-4	No Purge Required					MW-11	Not Sampled										
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-5	No Purge Required					MW-12	Not Sampled										
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-6	Not Sampled-Well Dry					MW-13	Not Sampled										
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-7	Not Sampled-Well Dry					MW-14	No Purge Required										

Notes: NP = NO PURGE

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