

URS

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Alameda County

JAN 31 2003

Environmental Health

January 27, 2003

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

**Re: Second Quarter 2002 Groundwater Monitoring Report
ARCO Service Station #2169
889 West Grand Avenue
Oakland, California 94607
URS Project #38465940**

Dear Ms. Chu:

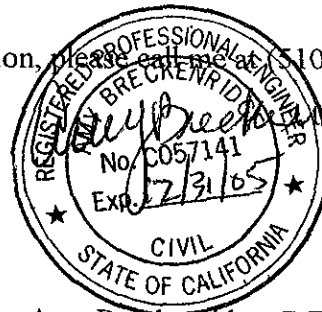
On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Second Quarter 2002 Groundwater Monitoring Report* for the ARCO Service Station #2169, located at 889 West Grand Avenue, Oakland, California.

If you have any questions regarding this submission, please call me at (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager



Amy Breckenridge, P.E.
Portfolio Manager

Attachment: Second Quarter 2002 Quarterly Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, PO Box 6549, Moraga, California 94570

R E P O R T

**SECOND QUARTER 2002
GROUNDWATER MONITORING**

ARCO SERVICE STATION #2169
889 WEST GRAND AVENUE
OAKLAND, CALIFORNIA

Prepared for
Atlantic Richfield Company

January 27, 2003

URS

URS Corporation
500 12th Street, Suite 200
Oakland, California 94607

38465940



Date: January 27, 2003
Quarter: 2Q02

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 2169 Address: 889 West Grand Avenue, Oakland, California
Atlantic Richfield Co. Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation/Scott Robinson/(510) 874-3280
Consultant Project No.: 38465940
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Second – 2002):

1. Site transferred from Delta Environmental Consultants Inc. to URS Corporation.
2. Delta prepared and submitted first quarter 2002 groundwater monitoring report.
3. Delta performed second quarter monitoring event.

WORK PROPOSED FOR NEXT QUARTER (Third – 2002):

1. Perform third quarter 2002 groundwater monitoring event
2. Prepare and submit second quarter 2002 groundwater monitoring report.

Current Phase of Project: GW monitoring/sampling/remediation
Frequency of Groundwater Sampling: Annual (1st Quarter): A-3, A-4
Semi-annual (1st/3rd Quarter): A-2, AR-1, AR-2
Quarterly: A-1, A-5, A-6, ADR-1, ADR-2
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: SVE/Biosparging
Approximate Depth to Groundwater: 8.68 (A-5) to 10.61 (A-3) feet
Groundwater Gradient (direction): Northwest
Groundwater Gradient (magnitude): 0.003 feet per foot

DISCUSSION:

Total petroleum hydrocarbons as gasoline (TPH-g) was detected in samples collected from wells A-2, ADR-2, and A-5 at concentrations of 52 µg/L, 730 µg/L, and 1,300 µg/L, respectively. Benzene was detected in samples collected from wells ADR-2 and A-5 at concentrations of 86 micrograms per liter (µg/L) and 190 µg/L, respectively. Methyl tertiary butyl ether (MTBE) was detected in samples collected from wells AR-2, A-6 and A-2 at concentrations of 3.2 µg/L, 16 µg/L and 26 µg/L, respectively. Groundwater elevations across the site have increased by an average of approximately 0.92 feet this quarter, and the groundwater flow direction was to the northwest at a calculated hydraulic gradient of 0.003 feet per foot. The soil vapor extraction (SVE) system has not operated since December 2001.



SVE QUARTERLY OPERATION & PERFORMANCE:

Equipment Inventory:	Therm Tech Model VAC-25, 250 cfm, Thermal/Catalytic Oxidizer
Operating Mode:	Catalytic Oxidation
BAAQMD Permit No.:	12119
TPH Conc. At End of Period (lab):	The system has not run since December 2001.
Benzene Conc. At End of Period (lab):	NA
Flow Rate at End of Period:	NA
Hydrocarbons Destroyed This Period:	NA
Hydrocarbons Destroyed to Date:	9,151
Utility Usage Electric (kWh):	NA
Operating Hours This Period:	0
Percent Operational:	0%
Operating Hours To Date:	12,941
Unit Maintenance:	NA
Number of Auto Shut Downs:	0
Destruction of Efficiency Permit: Requirements:	98.5% (POC >2,000 ppmv); 97% (POC >200 ppmv); 90% (POC <200 ppmv); waived if outlet POC <1.0 lb/day and benzene <0.02 lb/day
Average Percent TPH Conversion:	NA
Average Stack Temperature	NA
Average Source Flow:	NA
Average Process Flow:	NA
Average Source Vacuum:	NA



ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Figure 1 – Groundwater Analytical Summary Map – April 17, 2002
- Figure 2 – Groundwater Elevation Contour Map – April 17, 2002
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Historic Groundwater Data
- Attachment D - EDCC Report and EDF/Geowell Submittal Confirmation

TABLE 1

SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA

ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, 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)
AR-1	06/26/00	15.61	11.59	4.02	NA	NA	NA	NA	NA	NA
	07/20/00		12.06	3.55	<0.5	<0.5	<0.5	<1.0	<50	6
	09/19/00		11.89	3.72	<0.5	<0.5	<0.5	<1.0	<50	<3
	12/26/00		11.95	3.66	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	3/20/2001 ^a		NM	NC	NS	NS	NS	NS	NS	NS
	06/12/01		11.87	3.74	<0.5	<0.5	<0.5	<0.5	<50	17
	09/23/01		12.42	3.19	NS	NS	NS	NS	NS	NS
	12/28/01		7.62	7.99	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	03/21/02		9.37	6.24	NS	NS	NS	NS	NS	NS
	04/17/02		10.43	5.18	<0.5	<0.5	<0.5	<0.5	<50	<2.5
AR-2	06/26/00	15.28	11.79	3.49	NA	NA	NA	NA	NA	NA
	07/20/00		12.07	3.21	<0.5	<0.5	<0.5	<1.0	<50	<3
	09/19/00		12.08	3.20	<0.5	<0.5	<0.5	<1.0	<50	<3
	12/26/00		11.95	3.33	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	03/20/01		10.50	4.78	NS	NS	NS	NS	NS	NS
	06/12/01		11.73	3.55	<0.5	<0.5	<0.5	<0.5	<50	82
	09/23/01		12.43	2.85	NS	NS	NS	NS	NS	NS
	12/28/01		8.60	6.68	<0.5	<0.5	<0.5	<0.5	<50	30
	03/21/02		9.49	5.79	NS	NS	NS	NS	NS	NS
	04/17/02		10.37	4.91	<0.5	<0.5	<0.5	<0.5	<50	3.2
ADR-1	06/26/00	13.95	10.55	3.40	NA	NA	NA	NA	NA	NA
	07/20/00		10.85	3.10	29	<0.5	0.8	<1.0	180	22
	09/19/00		11.08	2.87	7.4	<0.5	1.2	<1.0	120	22
	12/26/00		10.93	3.02	1.29	<0.5	<0.5	<0.5	<50	14.7
	03/20/01		9.32	4.63	23.4	<0.5	8.71	4.13	225	10.8
	06/12/01		10.65	3.30	23	0.5	13	4.2	250	7.5
	09/23/01		11.25	2.70	1.4	<0.5	<0.5	0.57	<50	2.8
	12/28/01		8.43	5.52	16	<0.5	1.2	4.1	250	6.8
	03/21/02		8.27	5.68	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	04/17/02		9.17	4.78	<0.5	<0.5	<0.5	<0.5	<50	<2.5

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889 West Grand Avenue
Oakland, 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)
ADR-2	06/26/00	14.64	11.22	3.42	NA	NA	NA	NA	NA	NA
	07/20/00		11.60	3.04	410	2.5	540	720	12,000	23
	09/19/00		11.81	2.83	530	5	680	740	1,400	34
	12/26/00		11.52	3.12	26.6	<5.0	21.4	32.5	901	32.8
	03/20/01		10.10	4.54	Sheen	Sheen	Sheen	Sheen	Sheen	Sheen
	06/12/01		11.41	3.23	Sheen	Sheen	Sheen	Sheen	Sheen	Sheen
	09/23/01		11.98	2.66	370	<5.0	550	96	5300	60
	12/28/01		9.48	5.16	190	<5.0	160	29	2,600	61
	03/21/02		9.1	5.54	6	<0.5	4.5	3.2	180	15
	04/17/02		9.93	4.71	86	<0.5	13	<0.5	730	<25
A-1	06/26/00	14.16	10.75	3.41	NA	NA	NA	NA	NA	NA
	07/20/00		11.01	3.15	1,100	28	12	46	3,900	25
	09/19/00		11.26	2.90	2,400	27	20	57	4,800	32
	12/26/00		10.96	3.2	104	2.85	12.2	9.91	429	18.7
	03/20/01		9.59	4.57	13.9	7.12	13.9	23.2	<500	<25
	06/12/01		10.83	3.33	2.2	<0.5	8.7	9.2	140	25
	09/23/01		11.43	2.73	<0.50	<0.50	<0.50	<0.50	<50	4.5
	12/28/01		8.66	5.50	250.0	7.6	21	13	930	<25
	03/21/02		8.43	5.73	<0.5	<0.5	<0.5	1.2	<50	<2.5
	04/17/02		9.36	4.8	<0.5	<0.5	<0.5	<0.5	<50	<2.5
A-2	06/26/00	14.55	11.27	3.28	NA	NA	NA	NA	NA	NA
	07/20/00		11.52	3.03	<0.5	<0.5	<0.5	<1.0	<50	<3
	09/19/00		11.63	2.92	NS	NS	NS	NS	NS	NS
	12/26/00		11.44	3.11	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	03/20/01		10.08	4.47	NS	NS	NS	NS	NS	NS
	06/12/01		11.35	3.2	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	09/23/01		11.92	2.63	NS	NS	NS	NS	NS	NS
	12/28/01		9.31	5.24	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	03/21/02		9.05	5.5	NS	NS	NS	NS	NS	NS
	04/17/02		9.88	4.67	<0.5	<0.5	<0.5	<0.5	52	26

TABLE 1

SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA

ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, 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)
A-3	06/26/00	15.75	11.98	3.77	NS	NS	NS	NS	NS	NS
	07/20/00		12.21	3.54	NS	NS	NS	NS	NS	NS
	09/19/00		12.50	3.25	NS	NS	NS	NS	NS	NS
	12/26/00		12.17	3.58	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	03/20/01		10.70	5.05	NS	NS	NS	NS	NS	NS
	06/12/01		12.09	3.66	NS	NS	NS	NS	NS	NS
	09/23/01		12.65	3.1	NS	NS	NS	NS	NS	NS
	12/28/01		9.94	5.81	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	03/21/02		9.69	6.06	NS	NS	NS	NS	NS	NS
	04/17/02		10.61	5.14	NS	NS	NS	NS	NS	NS
A-4	06/26/00	15.25	10.99	4.26	NS	NS	NS	NS	NS	NS
	07/20/00		11.16	4.09	NS	NS	NS	NS	NS	NS
	09/19/00		11.97	3.28	NS	NS	NS	NS	NS	NS
	12/26/00		11.19	4.06	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	03/20/01		9.81	5.44	NS	NS	NS	NS	NS	NS
	06/12/01		11.12	4.13	NS	NS	NS	NS	NS	NS
	09/23/01		11.63	3.62	NS	NS	NS	NS	NS	NS
	12/28/01		8.41	6.84	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	03/21/02		8.63	6.62	NS	NS	NS	NS	NS	NS
	04/17/02		9.68	5.14	NS	NS	NS	NS	NS	NS
A-5	06/26/00	13.51	10.04	3.47	NA	NA	NA	NA	NA	NA
	07/20/00		10.31	3.20	140	11	<0.5	8.9	730	3
	09/19/00		10.55	2.96	13	<0.5	2.8	1.9	160	<3
	12/26/00		10.37	3.14	465	108	659	1,450	8,120	<250
	03/20/01		8.81	4.7	1110	473	611	1,580	7,990	<250
	06/12/01		10.13	3.38	91	18	35	95	450	<5.0
	09/23/01		10.80	2.71	20	<0.5	5.0	5.0	110	2.7
	12/28/01		8.17	5.34	24	2	20	27	320	5
	03/21/02		7.78	5.73	420	85	130	350	2,500	31
	04/17/02		8.68	4.83	190	36	67	210	1,300	<25

TABLE 1

SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA

ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, 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)
A-6	06/26/00	13.51	10.09	3.42	NA	NA	NA	NA	NA	NA
	07/20/00		10.91	2.60	<0.5	<0.5	0.6	2.0	170	6
	09/19/00		11.27	2.24	<0.5	<0.5	<0.5	<1.0	<50	6
	12/26/00		10.65	2.86	<0.5	<0.5	<0.5	<0.5	56.2	8.17
	03/20/01		8.72	4.79	<0.5	<0.5	<0.5	1.8	216	19.9
	06/12/01		10.80	2.71	0.62	<0.5	<0.5	<0.5	80	15
	09/23/01		10.79	2.72	1.7	1.9	2.3	3.3	450	53
	12/28/01		8.05	5.46	0.98	3.5	0.77	1.4	270	26
	03/21/02		7.83	5.68	<0.5	<0.5	<0.5	<0.5	130	19
	04/17/02		8.73	4.78	<0.5	<0.5	<0.5	<0.5	<50	16

TPH = Total Petroleum Hydrocarbons

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

Note Please refer to Attachment C for Historical Groundwater Elevation and Analytical Data Tables developed by IT Corporation, Delta Environmental Consultants Inc provided above data

^a Well was covered by stockpiled soil and not accessible

µg/L = Micrograms per liter

NM = Not measured

NC = Not calculated

NA = Not analyzed

NS = Not sampled

TABLE 2

GROUNDWATER FLOW DIRECTION AND GRADIENT

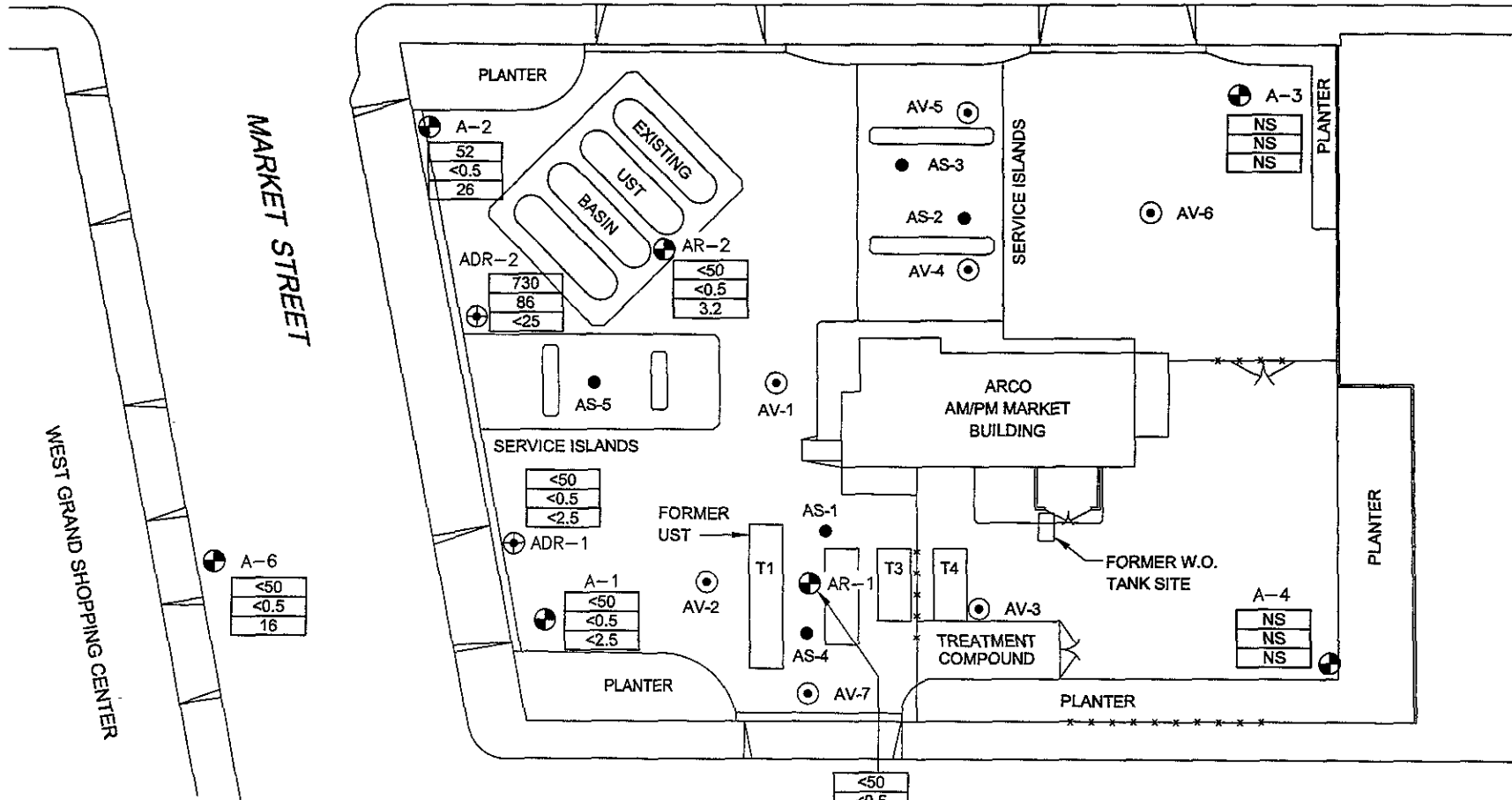
ARCO Service Station No. 2169
 889 West Grand Avenue
 Oakland, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
07/20/00	Northwest	0.004
09/19/00	West-Northwest	0.003
12/26/00	Northwest	0.004
03/20/01	Northwest	0.003
06/12/01	Northwest	0.004
09/23/01	Northwest	0.004
12/28/01	Variable	Variable
03/21/02	Northwest	0.004
04/17/02	Northwest	0.003*

Note: Please refer to Attachment C for Historical Groundwater Elevation and Analytical Data Tables developed by IT Corporation; Delta Environmental Consultants Inc. provided above data

* URS Corporation took over reporting from Delta Environmental Consultants Inc.

WEST GRAND AVENUE



LEGEND

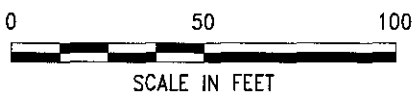
- ⊕ A-1 MONITORING WELL LOCATION
 - ⊙ AV-1 VAPOR EXTRACTION WELL LOCATION
 - ⊕ ADR-1 GROUNDWATER MONITORING/VAPOR EXTRACTION WELL
 - AS-1 AIR SPARGING WELL LOCATION
- | | |
|------|---|
| <50 | TPH AS GASOLINE IN MICROGRAMS PER LITER |
| <0.5 | BENZENE IN MICROGRAMS PER LITER |
| <2.5 | MTBE IN MICROGRAMS PER LITER |
- NS NOT SAMPLED

1,300
190
<25

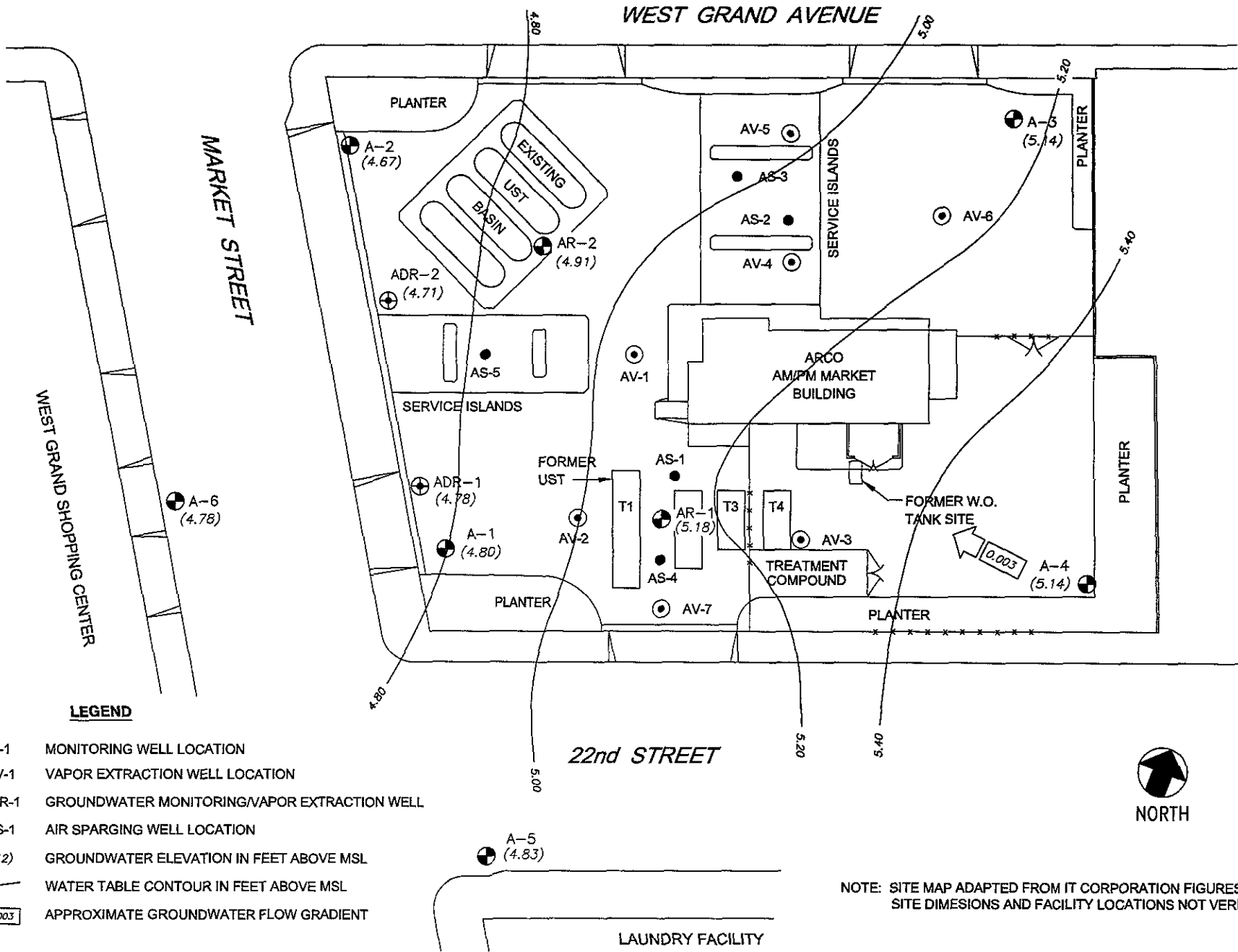
22nd STREET



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



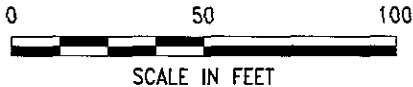
URS	Project No. 38465940	GROUNDWATER ANALYTICAL SUMMARY Second Quarter 2002 (April 17, 2002)	FIGURE 1
	Arco Service Station 2169 889 West Grand Avenue Oakland, California		



LEGEND

- A-1 MONITORING WELL LOCATION
- AV-1 VAPOR EXTRACTION WELL LOCATION
- ADR-1 GROUNDWATER MONITORING/VAPOR EXTRACTION WELL
- AS-1 AIR SPARGING WELL LOCATION
- (39.12) GROUNDWATER ELEVATION IN FEET ABOVE MSL
- 5.00 WATER TABLE CONTOUR IN FEET ABOVE MSL
- 0.003 APPROXIMATE GROUNDWATER FLOW GRADIENT

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



URS	Project No. 38465940	GROUNDWATER ELEVATION CONTOUR MAP Second Quarter 2002 (April 17, 2002)	FIGURE 2
	Arco Service Station 2169 889 West Grand Avenue Oakland, California		

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe. Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.



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

Arco Site Address 889 West Grand Avenue
San Leandro, California

Arco Site Number Arco 2169
 Delta Project No D000-311

Arco Project Manager Paul Supple

Delta Project PM Steve Meeks

Site Sampled By Devlo

Date Sampled 04-17-02

Site Contact & Phone Number _____

Water Level Data						Purge Volume Calculations					Sampling Analytes					Sample Record			
Well ID	Time	Depth to Water (feet)	Top of Screen Interval (feet)	Total Depth of Well (feet)	Check if Purge Not Required	Casing Water Column (A)	Well Diameter (inches)	Multiplier Value (B)	Three Casing Volumes (gallons)	Actual Water Purged (gallons)	BTEX (8020) VOA	TPH-g (8015M) VOA	MTBE (8020) VOA	Other	Dissolved Oxygen (mg/L)	Sample Frequency (A, S, Q)	Sample I.D.	Sample Time	
A-1		9.36	9.0	24.5	<input checked="" type="checkbox"/>		3 inch	1.1			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5.94	Q/2,5,8,11	A-1	16:30	
A-2		9.88	10.0	26.2	<input type="checkbox"/>	1'	3 inch	1.1		17.9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.61	S/5,11	A-2	17:45	
A-3		10.61	9.0	30.1	<input type="checkbox"/>		3 inch	1.1			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			A/11	A-3	
A-4	15:30	9.68	8.0	28.4	<input type="checkbox"/>		3 inch	1.1			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			A/11	A-4	
A-5		8.68	5.0	30.0	<input checked="" type="checkbox"/>		2 inch	0.5			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.07	Q/2,5,8,11	A-5	16:40	
A-6		8.73	5.0	28.5	<input checked="" type="checkbox"/>		2 inch	0.5			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.69	Q/2,5,8,11	A-6	16:55	
AR-1		10.43	8.5	28.0	<input checked="" type="checkbox"/>		6 inch	4.4			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.55	S/5,11	AR-1	17:05	
AR-2		10.39	8.5	29.3	<input checked="" type="checkbox"/>		4 inch	2.0			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.53	S/5,11	AR-2	17:20	
ADR-1		9.17	5.0	21.9	<input checked="" type="checkbox"/>		4 inch	2.0			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.90	Q/2,5,8,11	ADR-1	16:18	
ADR-2		9.93	5.0	26.3	<input checked="" type="checkbox"/>		4 inch	2.0			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.57	Q/2,5,8,11	ADR-2	16:00	
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3164 Gold Camp Drive, Suite 200
 Rancho Cordova, California 95670
 Direct (916) 638-2085
 Fax (916) 638-8385

Arco Site Address: 889 West Grand Avenue
San Leandro, California

Arco Site Number: Arco 2169

Delta Project No: D000-311

Arco Project Manager: Paul Supple

Delta Project PM: Steve Meeks

Site Sampled By: Doulos

Date Sampled: 09-17-02

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
A-1			NP			AR-2			NP								
A-2	5:38	18.2	677	654	6	ADR-1			NP								
	5:38	20.3	667	721	12												
	5:40	17.0	658	660	18												
A-3						ADR-2			NP								
A-4																	
A-5			NP														
A-6			NP														
AR-1			NP														

Notes: NP = NO PURGE

Original Copies of Field Sampling Sheets are Located in Project File

ATTACHMENT B

**LABORATORY PROCEDURES,
CERTIFIED ANALYTICAL REPORTS,
AND CHAIN-OF-CUSTODY RECORDS**

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals noted on the chain-of-custody using standard EPA Methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by Group Environmental Management Company have been reviewed and verified by that laboratory.



30 April, 2002

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

RE: ARCO 2169, Oakland, CA
Sequoia Report: S204354

Enclosed are the results of analyses for samples received by the laboratory on 04/19/02 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lito Diaz
Laboratory Director

CA ELAP Certificate #1624



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

Project: ARCO 2169, Oakland, CA
Project Number: 2169, Oakland, CA
Project Manager: Steven Meeks

Reported:
04/30/02 17:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A-1	S204354-01	Water	04/17/02 16:30	04/19/02 15:20
A-2	S204354-02	Water	04/17/02 17:45	04/19/02 15:20
A-5	S204354-03	Water	04/17/02 16:40	04/19/02 15:20
A-6	S204354-04	Water	04/17/02 16:55	04/19/02 15:20
AR-1	S204354-05	Water	04/17/02 17:05	04/19/02 15:20
AR-2	S204354-06	Water	04/17/02 17:20	04/19/02 15:20
ADR-1	S204354-07	Water	04/17/02 16:18	04/19/02 15:20
ADR-2	S204354-08	Water	04/17/02 16:00	04/19/02 15:20
TB	S204354-09	Water	04/17/02 06:00	04/19/02 15:20

Sequoia Analytical - Sacramento

Ron Chew, Client Services Representative

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



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

Project: ARCO 2169, Oakland, CA
Project Number: 2169, Oakland, CA
Project Manager: Steven Meeks

Reported:
04/30/02 17:25

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A-1 (S204354-01) Water Sampled: 04/17/02 16:30 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	2040324	04/25/02	04/26/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.4 %	60-140		"	"	"	"	
A-2 (S204354-02) Water Sampled: 04/17/02 17:45 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	52	50	ug/l	1	2040324	04/25/02	04/26/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	26	2.5	"	"	"	"	"	"	C-07
<i>Surrogate: a,a,a-Trifluorotoluene</i>		128 %	60-140		"	"	"	"	
A-5 (S204354-03) Water Sampled: 04/17/02 16:40 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	1300	500	ug/l	10	2040344	04/26/02	04/26/02	DHS LUFT	
Benzene	190	5.0	"	"	"	"	"	"	
Toluene	36	5.0	"	"	"	"	"	"	
Ethylbenzene	67	5.0	"	"	"	"	"	"	
Xylenes (total)	210	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %	60-140		"	"	"	"	

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

 Project: ARCO 2169, Oakland, CA
 Project Number 2169, Oakland, CA
 Project Manager: Steven Meeks

 Reported:
 04/30/02 17:25

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A-6 (S204354-04) Water Sampled: 04/17/02 16:55 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	2040344	04/26/02	04/26/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	16	2.5	"	"	"	"	"	"	C-07
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.9 %	60-140		"	"	"	"	
AR-1 (S204354-05) Water Sampled: 04/17/02 17:05 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	2040344	04/26/02	04/26/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.5 %	60-140		"	"	"	"	
AR-2 (S204354-06) Water Sampled: 04/17/02 17:20 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	2040344	04/26/02	04/26/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	3.2	2.5	"	"	"	"	"	"	C-07
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98.7 %	60-140		"	"	"	"	



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

Project: ARCO 2169, Oakland, CA
 Project Number: 2169, Oakland, CA
 Project Manager: Steven Meeks

Reported:
 04/30/02 17:25

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ADR-1 (S204354-07) Water Sampled: 04/17/02 16:18 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	2040344	04/26/02	04/26/02	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	"	"	"	"	"	"	C-07
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %	60-140	"	"	"	"	"	
ADR-2 (S204354-08) Water Sampled: 04/17/02 16:00 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	730	500	ug/l	10	2040344	04/26/02	04/26/02	DHS LUFT	HC-12
Benzene	86	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	13	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.5 %	60-140	"	"	"	"	"	
TB (S204354-09) Water Sampled: 04/17/02 06:00 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	2040344	04/26/02	04/26/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	1.7	0.50	"	"	"	"	"	"	C-07
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		108 %	60-140	"	"	"	"	"	

Delta Environmental Consultants (Rancho Cordova 3164 Gold Camp Drive Ste. 200 Rancho Cordova CA, 95670	Project: ARCO 2169, Oakland, CA Project Number: 2169, Oakland, CA Project Manager: Steven Meeks	Reported: 04/30/02 17:25
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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 2040324 - EPA 5030B (P/T)
Blank (2040324-BLK1)

Prepared & Analyzed: 04/25/02

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.6		"	10.0		106	60-140			

LCS (2040324-BS1)

Prepared & Analyzed: 04/25/02

Benzene	9.81	0.50	ug/l	10.0		98.1	70-130			
Toluene	9.23	0.50	"	10.0		92.3	70-130			
Ethylbenzene	9.44	0.50	"	10.0		94.4	70-130			
Xylenes (total)	29.5	0.50	"	30.0		98.3	70-130			
Methyl tert-butyl ether	12.6	2.5	"	10.0		126	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.6		"	10.0		106	60-140			

Matrix Spike (2040324-MS1)

Source: S204339-02

Prepared & Analyzed: 04/25/02

Benzene	10.5	0.50	ug/l	10.0	ND	105	60-140			
Toluene	9.75	0.50	"	10.0	ND	97.5	60-140			
Ethylbenzene	10.1	0.50	"	10.0	ND	101	60-140			
Xylenes (total)	31.6	0.50	"	30.0	ND	105	60-140			
Methyl tert-butyl ether	10.7	2.5	"	10.0	ND	107	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.1		"	10.0		101	60-140			

Matrix Spike Dup (2040324-MSD1)

Source: S204339-02

Prepared & Analyzed: 04/25/02

Benzene	11.1	0.50	ug/l	10.0	ND	111	60-140	5.56	25	
Toluene	10.2	0.50	"	10.0	ND	102	60-140	4.51	25	
Ethylbenzene	10.4	0.50	"	10.0	ND	104	60-140	2.93	25	
Xylenes (total)	33.0	0.50	"	30.0	ND	110	60-140	4.33	25	
Methyl tert-butyl ether	14.6	2.5	"	10.0	ND	146	60-140	30.8	25	QM-07
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.3		"	10.0		113	60-140			



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

Project: ARCO 2169, Oakland, CA
 Project Number: 2169, Oakland, CA
 Project Manager: Steven Meeks

Reported:
 04/30/02 17:25

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 2040344 - EPA 5030B (P/T)

Blank (2040344-BLK1)

Prepared & Analyzed: 04/26/02

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.3		"	10.0		103	60-140			

LCS (2040344-BS1)

Prepared & Analyzed: 04/26/02

Benzene	11.2	0.50	ug/l	10.0		112	70-130			
Toluene	10.1	0.50	"	10.0		101	70-130			
Ethylbenzene	10.3	0.50	"	10.0		103	70-130			
Xylenes (total)	32.4	0.50	"	30.0		108	70-130			
Methyl tert-butyl ether	12.4	2.5	"	10.0		124	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.2		"	10.0		112	60-140			

Matrix Spike (2040344-MS1)

Source: S204354-05

Prepared & Analyzed: 04/26/02

Benzene	10.3	0.50	ug/l	10.0	ND	103	60-140			
Toluene	9.68	0.50	"	10.0	ND	96.8	60-140			
Ethylbenzene	10.1	0.50	"	10.0	ND	101	60-140			
Xylenes (total)	31.8	0.50	"	30.0	ND	106	60-140			
Methyl tert-butyl ether	10.3	2.5	"	10.0	ND	103	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.2		"	10.0		102	60-140			

Matrix Spike Dup (2040344-MSD1)

Source: S204354-05

Prepared & Analyzed: 04/26/02

Benzene	9.99	0.50	ug/l	10.0	ND	99.9	60-140	3.06	25	
Toluene	9.40	0.50	"	10.0	ND	94.0	60-140	2.94	25	
Ethylbenzene	9.75	0.50	"	10.0	ND	97.5	60-140	3.53	25	
Xylenes (total)	31.0	0.50	"	30.0	ND	103	60-140	2.55	25	
Methyl tert-butyl ether	14.7	2.5	"	10.0	ND	147	60-140	35.2	25	QM-07
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.6		"	10.0		106	60-140			

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

Project: ARCO 2169, Oakland, CA
Project Number: 2169, Oakland, CA
Project Manager: Steven Meeks

Reported:
04/30/02 17:25

Notes and Definitions

- C-07 The reported compound(s) have been confirmed by a second (dissimilar) column or detector.
- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- 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

ARCO Facility no. 2169	City (Facility) OAKLAND	Project manager (Consultant) STEVEN MEERS	Laboratory name SEQUOIA
ARCO engineer PAUL SUPPK	Telephone no. (ARCO)	Telephone no. (Consultant) 638 2055	Contract number
Consultant name DELTA ENV	Address (Consultant) Rancho Cordova		

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 8000	BTEX/TPH/MTBE EPA MS21820/915	TPH Modified 8015 Gas Diesel	Oil and Grease 413.1 413.2	TPH EPA 418.1/8MS80E	EPA 801/801D	EPA 821/824D	EPA 825/827D	TCUP Metals VOA	Semi Metals VOA	CAN Metals EPA 821/7000 TLG STLC	Lead DTP/DHS Lead EPA 7420/7421	Method of shipment	
			Soil	Water	Other	Ice	Acid																
A-1		2		X		X	X	4-17-02	16:30	X													
A-2									17:45														
A-5									16:40														
A-6									16:55														
ADR									17:05														
ADR-2									17:20														
ADR-1									16:18														
ADR-2									16:00														
T13									6:00														

Condition of sample:	Temperature received:
Relinquished by sampler <i>Paul Suppk</i>	Date 4-19-02 Time
Relinquished by	Received by <i>Monica Egeen</i> Date 4/19/02 1500
Relinquished by	Received by
Relinquished by	Received by laboratory Date Time

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Delta Env.
 REC. BY (PRINT) Monica
 WORKORDER: S201354

DATE Received at Lab: 4/19/02
 TIME Received at Lab: 1500
 LOG IN DATE: 4/20/02

(Drinking water) for regulatory purposes: YES/NO YES NO
 (Wastewater) for regulatory purposes: YES/NO YES NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present <input checked="" type="radio"/> Absent <input type="radio"/> Intact / Broken*	S201354	01	A-1	VIA	L	4/17/02	
2. Chain-of-Custody	<input checked="" type="radio"/> Present / Absent*		02	1-3				
3. Traffic Reports or Packing List:	Present <input checked="" type="radio"/> Absent <input type="radio"/>		03	1-3				
4. Airbill:	Airbill / Sticker Present <input checked="" type="radio"/> Absent <input type="radio"/>		04	1-6				
5. Airbill #:			05	A2-1				
6. Sample Labels:	<input checked="" type="radio"/> Present / Absent		06	1-2				
7. Sample IDs:	<input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody		07	A2-1				
8. Sample Condition:	<input checked="" type="radio"/> Intact / Broken* / Leaking*		08	1-2				
9. Does information on custody reports, traffic reports and sample labels agree?	<input checked="" type="radio"/> Yes / No*		09	TB				
10. Sample received within hold time:	<input checked="" type="radio"/> Yes / No*							
11. Proper Preservatives used:	<input checked="" type="radio"/> Yes / No*							
12. Temp Rec. at Lab: (Acceptance range for samples requiring thermal pres.: 4+/-2°C)	<input checked="" type="radio"/> Yes / No*							

***If Circled, contact Project Manager and attach record of resolution.**

ATTACHMENT C
HISTORIC GROUNDWATER DATA

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

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC	Depth	FP	Groundwater	Date Sampled	TPH			Ethyl-	Total	MTBE	MTBE	TPH	Dissolved	Purged/
		Elevation (ft-MSL)	to Water (feet)	Thickness (feet)	Elevation (ft-MSL)		Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	benzene (µg/L)	Xylenes (µg/L)	8021B* (µg/L)	8260 (µg/L)	Diesel (µg/L)	Oxygen (mg/L)	Not Purged (P/NP)
A-1	03-24-95	14.16	8.10	ND	6.06	03-24-95	1,200	230	39	34	66	--	--	160		
A-1	06-05-95	14.16	11.13	ND	3.03	06-05-95	1,500	310	27	36	76	--	--	710		
A-1	08-17-95	14.16	11.71	ND	2.45	08-18-95	1,600	470	35	48	110	120	--	240		
A-1	12-04-95	14.16	12.28	ND	1.88	12-04-95	1,200	240	17	25	56	--	120	--		
A-1	03-01-96	14.16	8.78	ND	5.38	03-13-96	1,300	300	74	29	73	100	--	--		
A-1	05-29-96	14.16	9.85	ND	4.31	05-29-96	Not sampled: well sampled semi-annually, during the first and third quarters									
A-1	08-29-96	14.16	11.08	ND	3.08	08-29-96	1,200	320	5.9	25	27	110	--	--		
A-1	11-21-96	14.16	10.54	ND	3.62	11-21-96	Not sampled: well sampled semi-annually, during the first and third quarters									
A-1	03-26-97	14.16	10.55	ND	3.61	03-26-97	<50	0.8	<0.5	<0.5	<0.5	64	--	--		
A-1	05-21-97	14.16	11.10	ND	3.06	05-21-97	Not sampled: well sampled semi-annually, during the first and third quarters									
A-1	08-08-97	14.16	11.32	ND	2.84	08-08-97	91	7	<0.5	0.5	3.9	<60	--	--		
A-1	11-18-97	14.16	3.46	ND	10.70	11-18-97	54	<0.5	<0.5	<0.5	0.6	27	--	--		
A-1	02-20-98	14.16	7.10	ND	7.06	02-23-98	590	160	22	15	28	70	--	--		
A-1	05-11-98	14.16	9.87	ND	4.29	05-11-98	280	26	<0.5	0.8	2.3	6	--	--		
A-1	07-30-98	14.16	10.73	ND	3.43	07-30-98	1,000	210	5	<5	38	<30	--	--		
A-1	10-08-98	14.16	11.15	ND	3.01	10-08-98	3,100	740	11	<10	24	<60	--	--		
A-1	02-18-99	14.16	8.00	ND	6.16	02-18-99	510	87	7.1	6.4	13	52	--	--		
A-1	05-26-99	14.16	10.60	ND	3.56	05-26-99	240	26	<0.5	1.2	6.2	34	--	--		
A-1	08-23-99	14.16	11.22	ND	2.94	08-23-99	79	3.9	0.6	<0.5	1.7	38	--	--	0.68	NP
A-1	10-27-99	14.16	11.37	ND	2.79	10-27-99	110	2.2	<0.5	<0.5	<1	25	--	--	0.80	NP
A-1	01-31-00	14.16	9.44	ND	4.72	01-31-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	1.0	NP

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

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
A-2	03-24-95	14.55	8.64	ND	5.91	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	06-05-95	14.55	11.72	ND	2.83	06-05-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	08-17-95	14.55	12.35	ND	2.20	08-17-95	<50	<0.5	<0.5	<0.5	<0.5	12	--	--		
A-2	12-04-95	14.55	12.74	ND	1.81	12-04-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	03-01-96	14.55	9.34	ND	5.21	03-13-96	<50	<0.5	0.6	<0.5	1.3	<9	--	--		
A-2	05-29-96	14.55	10.40	ND	4.15	05-29-96	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	08-29-96	14.55	11.50	ND	3.05	08-29-96	<50	<0.5	<0.5	<0.5	<0.5	<39	--	--		
A-2	11-21-96	14.55	11.06	ND	3.49	11-21-96	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--		
A-2	03-26-97	14.55	11.12	ND	3.43	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	05-21-97	14.55	11.58	ND	2.97	05-21-97	Not sampled: well sampled semi-annually, during the first and third quarters									
A-2	08-08-97	14.55	11.82	ND	2.73	08-08-97	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	11-18-97	14.55	3.33	ND	11.22	11-18-97	Not sampled: well sampled semi-annually, during the first and third quarters									
A-2	02-20-98	14.55	7.68	ND	6.87	02-20-98	<50	<0.5	<0.5	<0.5	<0.5	17	--	--		
A-2	05-11-98	14.55	10.45	ND	4.10	05-11-98	Not sampled									
A-2	07-30-98	14.55	11.23	ND	3.32	07-30-98	Not sampled: well sampled semi-annually, during the first and second quarters									
A-2	10-08-98	14.55	11.62	ND	2.93	10-08-98	Not sampled: well sampled semi-annually, during the first and second quarters									
A-2	02-18-99	14.55	8.62	ND	5.93	02-18-99	93	<0.5	<0.5	<0.5	<1	26	--	--		
A-2	05-26-99	14.55	11.16	ND	3.39	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-2	08-23-99	14.55	11.69	ND	2.86	08-23-99	Not sampled: well sampled semi-annually, during the first and second quarters									
A-2	10-27-99	14.55	11.88	ND	2.67	10-27-99	Not sampled: well sampled semi-annually, during the first and second quarters									
A-2	01-31-00	14.55	10.17	ND	4.38	01-31-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	1.0	NP

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

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC	Depth	FP	Groundwater	Date Sampled	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
		Elevation (ft-MSL)	to Water (feet)	Thickness (feet)	Elevation (ft-MSL)		Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)							
A-3	03-24-95	15.75	8.83	ND	6.92	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-3	06-05-95	15.75	12.44	ND	3.31	06-05-95	Not sampled: well sampled annually									
A-3	08-17-95	15.75	13.04	ND	2.71	08-17-95	Not sampled: well sampled annually									
A-3	12-04-95	15.75	13.57	ND	2.18	12-04-95	Not sampled: well sampled annually									
A-3	03-01-96	15.75	9.90	ND	5.85	03-13-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	05-29-96	15.75	11.08	ND	4.67	05-29-96	Not sampled: well sampled annually									
A-3	08-29-96	15.75	12.38	ND	3.37	08-29-96	Not sampled: well sampled annually									
A-3	11-21-96	15.75	11.86	ND	3.89	11-21-96	Not sampled: well sampled annually									
A-3	03-26-97	15.75	11.81	ND	3.94	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	05-21-97	15.75	12.35	ND	3.40	05-21-97	Not sampled: well sampled annually									
A-3	08-08-97	15.75	12.62	ND	3.13	08-08-97	Not sampled: well sampled annually									
A-3	11-18-97	15.75	3.75	ND	12.00	11-18-97	Not sampled: well sampled annually									
A-3	02-20-98	15.75	8.06	ND	7.69	02-20-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	05-11-98	15.75	11.19	ND	4.56	05-11-98	Not sampled: well sampled annually									
A-3	07-30-98	15.75	12.05	ND	3.70	07-30-98	Not sampled: well sampled annually									
A-3	10-08-98	15.75	12.43	ND	3.32	10-08-98	Not sampled: well sampled annually									
A-3	02-18-99	15.75	9.05	ND	6.70	02-18-99	Not sampled: well sampled annually									
A-3	05-26-99	15.75	11.93	ND	3.82	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	08-23-99	15.75	12.57	ND	3.18	08-23-99	Not sampled: well sampled annually									
A-3	10-27-99	15.75	12.65	ND	3.10	10-27-99	Not sampled: well sampled annually									
A-3	01-31-00	15.75	9.55	ND	6.20	01-31-00	<50	<0.5	<0.5	<0.5	<1	9	--	--	1.0	NP

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

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC	Depth	FP	Groundwater	Date Sampled	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
		Elevation (ft-MSL)	to Water (feet)	Thickness (feet)	Elevation (ft-MSL)		Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)							
A-4	03-24-95	15.25	7.20	ND	8.05	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-4	06-05-95	15.25	11.70	ND	3.55	06-05-95	Not sampled: well sampled annually									
A-4	08-17-95	15.25	12.28	ND	2.97	08-17-95	Not sampled: well sampled annually									
A-4	12-04-95	15.25	12.63	ND	2.62	12-04-95	Not sampled: well sampled annually									
A-4	03-01-96	15.25	8.55	ND	6.70	03-13-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-4	05-29-96	15.25	10.32	ND	4.93	05-29-96	Not sampled: well sampled annually									
A-4	08-29-96	15.25	11.55	ND	3.70	08-29-96	Not sampled: well sampled annually									
A-4	11-21-96	15.25	10.83	ND	4.42	11-21-96	Not sampled: well sampled annually									
A-4	03-26-97	15.25	10.97	ND	4.28	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-4	05-21-97	15.25	11.51	ND	3.74	05-21-97	Not sampled: well sampled annually									
A-4	08-08-97	15.25	11.73	ND	3.52	08-08-97	Not sampled: well sampled annually									
A-4	11-18-97	15.25	4.37	ND	10.88	11-18-97	Not sampled: well sampled annually									
A-4	02-20-98	15.25	6.25	ND	9.00	02-20-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-4	05-11-98	15.25	10.33	ND	4.92	05-11-98	Not sampled: well sampled annually									
A-4	07-30-98	15.25	11.25	ND	4.00	07-30-98	Not sampled: well sampled annually									
A-4	10-08-98	15.25	11.62	ND	3.63	10-08-98	Not sampled: well sampled annually									
A-4	02-18-99	15.25	7.12	ND	8.13	02-18-99	Not sampled: well sampled annually									
A-4	05-26-99	15.25	11.12	ND	4.13	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-4	08-23-99	15.25	11.62	ND	3.63	08-23-99	Not sampled: well sampled annually								0.54	
A-4	10-27-99	15.25	11.74	ND	3.51	10-27-99	Not sampled: well sampled annually									
A-4	01-31-00	15.25	9.45	ND	5.80	01-31-00	<50	<0.5	<0.5	<0.5	<1	4	--	--	1.0	NP

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Well Number	Date Gauged	TOC	Depth	FP	Groundwater	Date Sampled	TPH			Ethyl-	Total	MTBE	MTBE	TPH	Dissolved	Purged/	
		Elevation (ft-MSL)	to Water (feet)	Thickness (feet)	Elevation (ft-MSL)		Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	benzene (µg/L)	Xylenes (µg/L)	8021B* (µg/L)	8260 (µg/L)	Diesel (µg/L)	Oxygen (mg/L)	Not Purged (P/NP)	
A-5	03-24-95	13.51	7.40	ND	6.11	03-24-95	3,300	200	310	130	460	--	--	--			
A-5	06-05-95	13.51	10.43	ND	3.08	06-05-95	57,000	2,700	4,600	1,500	6,800	--	--	--			
A-5	08-17-95	13.51	11.15	ND	2.36	08-18-95	34,000	1,600	2,700	1,100	5,100	<28	--	--			
A-5	12-04-95	13.51	11.42	ND	2.09	12-04-95	61	<0.5	<0.5	<0.5	<0.5	--	--	--			
A-5	03-01-96	13.51	8.11	ND	5.40	03-13-96	11,000	860	960	380	1,600	<100	--	--			
A-5	05-29-96	13.51	9.30	ND	4.21	05-29-96	19,000	1,600	1,900	880	3,300	<100	--	--			
A-5	08-29-96	13.51	10.60	ND	2.91	08-29-96	7,700	490	450	260	990	<30	--	--			
A-5	11-21-96	13.51	10.05	ND	3.46	11-21-96	8,000	450	550	340	1,100	<30	--	--			
A-5	03-26-97	13.51	9.87	ND	3.64	03-26-97	3,100	190	140	130	340	<30	--	--			
A-5	05-21-97	13.51	10.25	ND	3.26	05-21-97	16,000	1,500	900	700	2,700	<120	--	--			
A-5	08-08-97	13.51	10.42	ND	3.09	08-08-97	9,000	690	240	440	1,300	<30	--	--			
A-5	11-18-97	13.51	Not surveyed: well inaccessible														
A-5	02-20-98	13.51	Not surveyed: well inaccessible														
A-5	05-11-98	13.51	Not surveyed: well inaccessible														
A-5	07-30-98	13.51	Not surveyed: well inaccessible														
A-5	10-08-98	13.51	Not surveyed: well inaccessible														
A-5	02-18-99	13.51	7.63	ND	5.88	02-18-99	<50	0.8	<0.5	<0.5	1.5	<10	--	--			
A-5	05-26-99	13.51	9.85	ND	3.66	05-26-99	1,700	240	41	110	330	<12	--	--			
A-5	08-23-99	13.51	10.60	ND	2.91	08-23-99	560	65	3	30	52	<6	--	--	0.73	NP	
A-5	10-27-99	13.51	10.72	ND	2.79	10-27-99	480	93	1.0	16	19	<3	--	--	0.65	NP	
A-5	01-31-00	13.51	9.37	ND	4.14	01-31-00	Not sampled: well was inaccessible										

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		Elevation (ft-MSL)	to Water (feet)	Thickness (feet)	Elevation (ft-MSL)		Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	benzene (µg/L)	Xylenes (µg/L)	8021B* (µg/L)	8260 (µg/L)	Diesel (µg/L)	Oxygen (mg/L)	Not Purged (P/NP)
A-6	03-24-95	13.51	7.89	ND	5.62	03-24-95	120	<0.5	<1	<0.5	<1.5	--	--	--		
A-6	06-05-95	13.51	10.06	ND	3.45	06-05-95	160	<0.5	<0.6	<0.5	<0.5	--	--	--		
A-6	08-17-95	13.51	11.10	ND	2.41	08-18-95	530	<0.5	<0.5	<2.4	<4.2	6	--	--		
A-6	12-04-95	13.51	11.52	ND	1.99	12-04-95	28,000	1,600	1,800	880	3,600	--	--	--		
A-6	03-01-96	13.51	8.21	ND	5.30	03-13-96	1,400	<3	<15	<7	<10	<20	--	--		
A-6	05-29-96	13.51	9.25	ND	4.26	05-29-96	410	<2	<2	<2	<2	3	--	--		
A-6	08-29-96	13.51	10.52	ND	2.99	08-29-96	80	<0.5	<0.5	<0.5	<0.5	6	--	--		
A-6	11-21-96	13.51	10.54	ND	2.97	11-21-96	62	<0.5	<0.5	<0.5	<0.5	12	--	--		
A-6	03-26-97	13.51	9.93	ND	3.58	03-26-97	110	<0.5	0.8	1	1.4	15	--	--		
A-6	05-21-97	13.51	10.54	ND	2.97	05-21-97	600	0.6	0.6	<2	2.7	<3	--	--		
A-6	08-08-97	13.51	10.77	ND	2.74	08-08-97	850	<0.5	<0.5	6.1	<0.5	<4	--	--		
A-6	11-18-97	13.51	3.41	ND	10.10	11-18-97	690	<1	<1	3	2	7	--	--		
A-6	02-20-98	13.51	6.73	ND	6.78	02-20-98	60	<0.5	0.6	1.3	0.5	4	--	--		
A-6	05-11-98	13.51	9.26	ND	4.25	05-11-98	140	<0.5	0.7	0.6	<0.5	6	--	--		
A-6	07-30-98	13.51	10.12	ND	3.39	07-30-98	910	<2	<2	3	7	34	--	--		
A-6	10-08-98	13.51	10.53	ND	2.98	10-08-98	1,300	<2	4	3	4	21	--	--		
A-6	02-18-99	13.51	7.50	ND	6.01	02-18-99	150	<0.5	<0.5	1.4	1.7	35	--	--		
A-6	05-26-99	13.51	10.00	ND	3.51	05-26-99	100	<0.5	<0.5	<0.5	<0.5	17	--	--		
A-6	08-23-99	13.51	10.70	ND	2.81	08-23-99	98	0.6	<0.5	1.1	4.3	13	--	--	2.42	NP
A-6	10-27-99	13.51	11.00	ND	2.51	10-27-99	<50	<0.5	<0.5	<0.5	<1	7	--	--	13.23	NP
A-6	01-31-00	13.51	9.31	ND	4.20	01-31-00	<50	<0.5	<0.5	<0.5	<1	9	--	--	1.0	NP

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		Elevation (ft-MSL)	to Water (feet)	Thickness (feet)	Elevation (ft-MSL)		Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	benzene (µg/L)	Xylenes (µg/L)	8021B* (µg/L)	8260 (µg/L)	Diesel (µg/L)	Oxygen (mg/L)	Not Purged (P/NP)
AR-1	03-24-95	15.61	7.25	ND	8.36	03-24-95	270	14	0.6	2.5	2.1	--	--	130		
AR-1	06-05-95	15.61	11.37	ND	4.24	06-05-95	190	10	<0.5	0.8	0.5	--	--	580		
AR-1	08-17-95	15.61	12.40	ND	3.21	08-17-95	960	110	12	4.5	150	14	--	<50		
AR-1	12-04-95	15.61	12.90	ND	2.71	12-04-95	<50	1.5	<0.5	<0.5	0.8	--	--	--		
AR-1	03-01-96	15.61	8.19	ND	7.42	03-13-96	150	3.8	0.5	1.4	1.3	<3	--	--		
AR-1	05-29-96	15.61	10.41	ND	5.20	05-29-96	Not sampled: well sampled semi-annually, during the first and third quarters									
AR-1	08-29-96	15.61	12.12	ND	3.49	08-29-96	<50	<0.5	<0.5	<0.5	0.8	<3	--	--		
AR-1	11-21-96	15.61	11.52	ND	4.09	11-21-96	Not sampled: well sampled semi-annually, during the first and third quarters									
AR-1	03-26-97	15.61	11.33	ND	4.28	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
AR-1	05-21-97	15.61	12.02	ND	3.59	05-21-97	Not sampled: well sampled semi-annually, during the first and third quarters									
AR-1	08-08-97	15.61	12.31	ND	3.30	08-08-97	<50	0.7	<0.5	1	<0.5	<3	--	--		
AR-1	11-18-97	15.61	3.97	ND	11.64	11-18-97	Not sampled: well sampled semi-annually, during the first and third quarters									
AR-1	02-20-98	15.61	6.42	ND	9.19	02-23-98	<200	<2	<2	<2	<2	160	--	--		
AR-1	05-11-98	15.61	10.93	ND	4.68	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	4	--	--		
AR-1	07-30-98	15.61	11.82	ND	3.79	07-30-98	<50	<0.5	<0.5	<0.5	<0.5	6	--	--		
AR-1	10-08-98	15.61	12.24	ND	3.37	10-08-98	<50	<0.5	<0.5	<0.5	<0.5	6	--	--		
AR-1	02-18-99	15.61	7.75	ND	7.86	02-18-99	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--		
AR-1	05-26-99	15.61	11.62	ND	3.99	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
AR-1	08-23-99	15.61	9.32	ND	6.29	08-23-99	Not sampled: well sampled semi-annually, during the first and second quarters									
AR-1	10-27-99	15.61	12.14	ND	3.47	10-27-99	Not sampled: well sampled semi-annually, during the first and second quarters									
AR-1	01-31-00	15.61	Not surveyed: well inaccessible													

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AR-2	03-24-95	15.28	9.13	ND	6.15	03-24-95	<50	6.2	<0.5	<0.5	0.6	--	--	<50			
AR-2	06-05-95	15.28	12.09	ND	3.19	06-05-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	<50			
AR-2	08-17-95	15.28	12.78	ND	2.50	08-18-95	<50	<0.5	<0.5	<0.5	<0.5	4	--	<50			
AR-2	12-04-95	15.28	11.44	ND	3.84	12-13-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--			
AR-2	03-01-96	15.28	9.83	ND	5.45	03-13-96	190	26	2.6	3.3	13	200	--	--			
AR-2	05-29-96	15.28	10.97	ND	4.31	05-29-96	Not sampled: well sampled semi-annually, during the first and third quarters										
AR-2	08-29-96	15.28	12.20	ND	3.08	08-29-96	<50	<0.5	<0.5	<0.5	<0.5	95	--	--			
AR-2	11-21-96	15.28	11.57	ND	3.71	11-21-96	Not sampled: well sampled semi-annually, during the first and third quarters										
AR-2	03-26-97	15.28	11.60	ND	3.68	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	9	--	--			
AR-2	05-21-97	15.28	12.12	ND	3.16	05-21-97	Not sampled: well sampled semi-annually, during the first and third quarters										
AR-2	08-08-97	15.28	12.35	ND	2.93	08-08-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--			
AR-2	11-18-97	15.28	3.48	ND	11.80	11-18-97	Not sampled: well sampled semi-annually, during the first and third quarters										
AR-2	02-20-98	15.28	8.00	ND	7.28	02-20-98	<50	<0.5	<0.5	<0.5	<0.5	43	--	--			
AR-2	05-11-98	15.28	10.97	ND	4.31	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--			
AR-2	07-30-98	15.28	11.76	ND	3.52	07-30-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--			
AR-2	10-08-98	15.28	12.17	ND	3.11	10-08-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--			
AR-2	02-18-99	15.28	9.17	ND	6.11	02-18-99	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--			
AR-2	05-26-99	15.28	11.72	ND	3.56	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--			
AR-2	08-23-99	15.28	12.31	ND	2.97	08-23-99	Not sampled: well sampled semi-annually, during the first and second quarters										0.61
AR-2	10-27-99	15.28	12.42	ND	2.86	10-27-99	Not sampled: well sampled semi-annually, during the first and second quarters										
AR-2	01-31-00	15.28	10.31	ND	4.97	01-31-00	Not sampled										

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							Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)						
ADR-1	03-24-95	13.95	8.04	0.01	** 5.92	03-24-95	Not sampled: well contained floating product									
ADR-1	06-05-95	13.95	11.02	ND	2.93	06-05-95	23,000	310	420	300	1,900	--	--	13,000		
ADR-1	08-17-95	13.95	11.86	ND	2.09	08-18-95	4,400	150	120	95	620	120	--	4,500		
ADR-1	12-04-95	13.95	10.05	ND	3.90	12-13-95	8,800	100	130	120	990	--	--	--		
ADR-1	03-01-96	13.95	8.76	ND	5.19	03-13-96	89,000	370	1,000	840	8,100	<500	--	--		
ADR-1	05-29-96	13.95	9.74	ND	4.21	05-30-96	27,000	230	380	370	2,700	<100	--	--		
ADR-1	08-29-96	13.95	10.77	ND	3.18	08-29-96	5,300	190	58	76	470	85	--	--		
ADR-1	11-21-96	13.95	10.49	ND	3.46	11-21-96	1,900	82	21	32	270	110	--	--		
ADR-1	03-26-97	13.95	10.37	ND	3.58	03-26-97	1,300	260	6	39	27	95	--	--		
ADR-1	05-21-97	13.95	10.90	ND	3.05	05-21-97	2,100	300	18	37	200	79	--	--		
ADR-1	08-08-97	13.95	11.12	ND	2.83	08-08-97	3,900	620	49	110	470	<200	--	--		
ADR-1	11-18-97	13.95	3.47	ND	10.48	11-18-97	18,000	900	140	360	2,700	<60	--	--		
ADR-1	02-20-98	13.95	Not surveyed: well inaccessible													
ADR-1	05-11-98	13.95	Not surveyed: well inaccessible													
ADR-1	07-30-98	13.95	Not surveyed: well inaccessible													
ADR-1	10-08-98	13.95	Not surveyed: well inaccessible													
ADR-1	02-18-99	13.95	7.80	ND	6.15	02-18-99	200	4.4	<0.5	1.3	1.3	43	--	--		
ADR-1	05-26-99	13.95	10.40	ND	3.55	05-26-99	160	10	<0.5	1.7	1.8	43	--	--		
ADR-1	08-23-99	13.95	10.70	ND	3.25	08-23-99	7,400	310	16	210	970	18	--	--	0.37	NP
ADR-1	10-27-99	13.95	10.82	ND	3.13	10-27-99	5,000	210	6.3	180	490	5	--	--	0.73	NP
ADR-1	01-31-00	13.95	9.21	ND	4.74	01-31-00	290	3.6	<0.5	1.1	<1	26	--	--	1.0	NP

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		Elevation (ft-MSL)	to Water (feet)	Thickness (feet)	Elevation (ft-MSL)		Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	benzene (µg/L)	Xylenes (µg/L)	8021B* (µg/L)	8260 (µg/L)	Diesel (µg/L)	Oxygen (mg/L)	Not Purged (P/NP)	
ADR-2	03-24-95	14.64	8.41	>3.00	NR[1]	03-24-95	Not sampled: well contained floating product										
ADR-2	06-05-95	14.64	11.45	>3.00	NR[1]	06-05-95	Not sampled: well contained floating product										
ADR-2	08-17-95	14.64	12.10	0.03	** 2.56	08-17-95	Not sampled: well contained floating product										
ADR-2	12-04-95	14.64	10.93	0.03	** 3.73	12-13-95	Not sampled: well contained floating product										
ADR-2	03-01-96	14.64	8.74	ND	5.90	03-13-96	29,000	1,100	1,200	710	3,800	<500	--	--			
ADR-2	05-29-96	14.64	10.43	ND	4.21	05-29-96	33,000	510	500	470	2,300	120	--	--			
ADR-2	08-29-96	14.64	11.64	ND	3.00	08-29-96	8,000	230	180	150	730	53	--	--			
ADR-2	11-21-96	14.64	11.23	ND	3.41	11-21-96	15,000	630	440	390	2,100	75	--	--			
ADR-2	03-26-97	14.64	11.13	ND	3.51	03-26-97	6,100	320	23	180	400	32	--	--			
ADR-2	05-21-97	14.64	11.64	ND	3.00	05-21-97	6,100	380	22	210	320	<30	--	--			
ADR-2	08-08-97	14.64	11.85	ND	2.79	08-08-97	8,400	380	35	230	910	<30	--	--			
ADR-2	11-18-97	14.64	3.33	ND	11.31	11-18-97	11,000	230	29	300	1,200	<60	--	--			
ADR-2	02-20-98	14.64	7.67	ND	6.97	02-20-98	4,700	320	30	130	360	20	--	--			
ADR-2	05-11-98	14.64	10.47	ND	4.17	05-11-98	Not sampled										
ADR-2	07-30-98	14.64	Not surveyed: well inaccessible														
ADR-2	10-08-98	14.64	11.67	ND	2.97	10-08-98	Not sampled										
ADR-2	02-18-99	14.64	Not surveyed: well inaccessible														
ADR-2	05-26-99	14.64	11.02	ND	3.62	05-26-99	5,900	670	5	340	104	16	--	--			
ADR-2	08-23-99	14.64	9.82	ND	4.82	08-23-99	9,100	570	12	410	1,000	28	--	--	0.50	NP	
ADR-2	10-27-99	14.64	9.85	Sheen	4.79	10-27-99	Not sampled: sheen present										
ADR-2	01-31-00	14.64	10.15	ND	4.49	01-31-00	7,700	280	3.4	370	390	23	--	--	2.0	NP	

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ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH Gasoline ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	MTBE 8021B* ($\mu\text{g/L}$)	MTBE 8260 ($\mu\text{g/L}$)	TPH Diesel ($\mu\text{g/L}$)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
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TOC: top of casing

ft-MSL elevation in feet, relative to mean sea level

TPH total petroleum hydrocarbons, California DHS LUFT Method

BTEX benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B (EPA method 8020 prior to 10/27/99)

MTBE Methyl tert-butyl ether

$\mu\text{g/L}$ micrograms per liter

mg/L. milligrams per liter

ND none detected

NR not reported, data not available or not measurable

-- not analyzed or not applicable

< denotes concentration not present at or above laboratory detection limit stated to the right

[1] well contained more than 3 feet of floating product, exact product thickness and groundwater elevation could not be measured

* EPA method 8020 prior to 10/27/99

** [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 data please refer to *Fourth Quarter 1995 Groundwater Monitoring Program Results and Remediation System Performance Evaluation Report, ARCO Service Station 2169, 889 West Grand Avenue, Oakland, California, (EMCON, March 4, 1996).*

Table 2
Groundwater Flow Direction and Gradient

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
03-24-95	Northwest	0.009
06-05-95	Northwest	0.002
08-17-95	West	0.001
12-04-95	North-Northwest	0.002
03-01-96	Northwest	0.003
05-29-96	Northwest	0.002
08-29-96	West	0.002
11-21-96	West-Northwest	0.002
03-26-97	Northwest	0.002
05-21-97	North-Northwest	0.002
08-08-97	North-Northwest	0.002
11-18-97	North-Northwest	0.003
02-20-98	North	0.013
05-11-98	North	0.03
07-30-98	North	0.002
10-08-98	North-Northwest	0.002
02-18-99	Northwest	0.008
05-26-99	North-Northwest	0.003
08-23-99	Variable	Variable
10-27-99	Variable	Variable
01-31-00	West-Northwest	0.006

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

08/29/02

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Sacramento, CA
Project Name:	ARCO 2169, Oakland, CA
Work Order Number:	S204354
Global ID:	T0600100112
Lab Report Number:	S204354043020021725

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctf	Run	Sub
S20435404302002 A-1 1725		S20435401	W	CS	SW8021B	SW5030B	04/17/02	04/25/02	04/26/02	2040324	1	
S20435404302002 A-2 1725		S20435402	W	CS	SW8021B	SW5030B	04/17/02	04/25/02	04/26/02	2040324	1	
S20435404302002 A-5 1725		S20435403	W	CS	SW8021B	SW5030B	04/17/02	04/26/02	04/26/02	2040344	1	
S20435404302002 A-6 1725		S20435404	W	CS	SW8021B	SW5030B	04/17/02	04/26/02	04/26/02	2040344	1	
S20435404302002 ADR-1 1725		S20435407	W	CS	SW8021B	SW5030B	04/17/02	04/26/02	04/26/02	2040344	1	
S20435404302002 ADR-2 1725		S20435408	W	CS	SW8021B	SW5030B	04/17/02	04/26/02	04/26/02	2040344	1	
S20435404302002 AR-1 1725		S20435405	W	CS	SW8021B	SW5030B	04/17/02	04/26/02	04/26/02	2040344	1	
S20435404302002 AR-2 1725		S20435406	W	CS	SW8021B	SW5030B	04/17/02	04/26/02	04/26/02	2040344	1	
S20435404302002 TB 1725		S20435409	W	CS	SW8021B	SW5030B	04/17/02	04/26/02	04/26/02	2040344	1	
		S20433902	W	NC	SW8021B	SW5030B	//	04/25/02	04/25/02	2040324	1	
		2040324BS1	WQ	BS1	SW8021B	SW5030B	//	04/25/02	04/25/02	2040324	1	
		2040324BLK1	WQ	LB1	SW8021B	SW5030B	//	04/25/02	04/25/02	2040324	1	
		2040324MS1	W	MS1	SW8021B	SW5030B	//	04/25/02	04/25/02	2040324	1	
		2040324MSD1	W	SD1	SW8021B	SW5030B	//	04/25/02	04/25/02	2040324	1	
		2040344BS1	WQ	BS1	SW8021B	SW5030B	//	04/26/02	04/26/02	2040344	1	
		2040344BLK1	WQ	LB1	SW8021B	SW5030B	//	04/26/02	04/26/02	2040344	1	
		2040344MS1	W	MS1	SW8021B	SW5030B	//	04/26/02	04/26/02	2040344	1	
		2040344MSD1	W	SD1	SW8021B	SW5030B	//	04/26/02	04/26/02	2040344	1	

EDFSAMP: Error Summary Log

08/29/02

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
There are no errors in this data file					

EDFTEST: Error Summary Log

08/29/02

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					//	0

EDFRES: Error Summary Log

08/29/02

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2040324MS1	MS1	W	SW8021B	PR	04/25/02	1	AAATFBZME
Warning: extra parameter	2040324MS1	MS1	W	SW8021B	PR	04/25/02	1	MTBE
Warning: extra parameter	2040324MS1	MS1	W	SW8021B	PR	04/25/02	1	XYLENES
Warning: extra parameter	2040324MSD1	SD1	W	SW8021B	PR	04/25/02	1	AAATFBZME
Warning: extra parameter	2040324MSD1	SD1	W	SW8021B	PR	04/25/02	1	MTBE
Warning: extra parameter	2040324MSD1	SD1	W	SW8021B	PR	04/25/02	1	XYLENES
Warning: extra parameter	2040344MS1	MS1	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	2040344MS1	MS1	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	2040344MS1	MS1	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	2040344MSD1	SD1	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	2040344MSD1	SD1	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	2040344MSD1	SD1	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	S20433902	NC	W	SW8021B	PR	04/25/02	1	AAATFBZME
Warning: extra parameter	S20433902	NC	W	SW8021B	PR	04/25/02	1	MTBE
Warning: extra parameter	S20433902	NC	W	SW8021B	PR	04/25/02	1	XYLENES
Warning: extra parameter	S20435401	CS	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	S20435401	CS	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	S20435401	CS	W	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	S20435401	CS	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	S20435402	CS	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	S20435402	CS	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	S20435402	CS	W	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	S20435402	CS	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	S20435403	CS	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	S20435403	CS	W	SW8021B	PR	04/26/02	1	MTBE

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	S20435403	CS	W	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	S20435403	CS	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	S20435404	CS	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	S20435404	CS	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	S20435404	CS	W	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	S20435404	CS	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	S20435405	CS	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	S20435405	CS	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	S20435405	CS	W	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	S20435405	CS	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	S20435406	CS	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	S20435406	CS	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	S20435406	CS	W	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	S20435406	CS	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	S20435407	CS	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	S20435407	CS	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	S20435407	CS	W	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	S20435407	CS	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	S20435408	CS	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	S20435408	CS	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	S20435408	CS	W	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	S20435408	CS	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	S20435409	CS	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	S20435409	CS	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	S20435409	CS	W	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	S20435409	CS	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	2040324BLK1	LB1	WQ	SW8021B	PR	04/25/02	1	AAATFBZME
Warning: extra parameter	2040324BLK1	LB1	WQ	SW8021B	PR	04/25/02	1	MTBE
Warning: extra parameter	2040324BLK1	LB1	WQ	SW8021B	PR	04/25/02	1	PHCG

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2040324BLK1	LB1	WQ	SW8021B	PR	04/25/02	1	XYLENES
Warning: extra parameter	2040324BS1	BS1	WQ	SW8021B	PR	04/25/02	1	AAATFBZME
Warning: extra parameter	2040324BS1	BS1	WQ	SW8021B	PR	04/25/02	1	MTBE
Warning: extra parameter	2040324BS1	BS1	WQ	SW8021B	PR	04/25/02	1	XYLENES
Warning: extra parameter	2040344BLK1	LB1	WQ	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	2040344BLK1	LB1	WQ	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	2040344BLK1	LB1	WQ	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	2040344BLK1	LB1	WQ	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	2040344BS1	BS1	WQ	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	2040344BS1	BS1	WQ	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	2040344BS1	BS1	WQ	SW8021B	PR	04/26/02	1	XYLENES

EDFQC: Error Summary Log

08/29/02

Error type	Labiqtcl	Anmcode	Parlabel	Qccode	Labqid
There are no errors in this data files					

EDFCL: Error Summary Log

08/29/02

Error type	Clredate	Anmcode	Exmcode	Parlabel	Clcode
There are no errors in this data file	//				

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Facility Name: ARCO
Submittal Title: EDCC report for site 2169
Submittal Type: GW Monitoring Report

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