

April 4, 2003

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd floor
Alameda, CA 94502

Alameda County
APR 16 2003
Environmental Health

**Re: First Quarter 2003 Groundwater Monitoring Report
ARCO Service Station #0601
712 Lewelling Boulevard
San Leandro, California
URS Project #38486088**

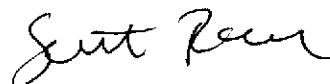
Dear Mr. Seery:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *First Quarter 2003 Groundwater Monitoring Report* for the ARCO Service Station #0601, located at 712 Lewelling Boulevard, San Leandro, California.

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

Sincerely,

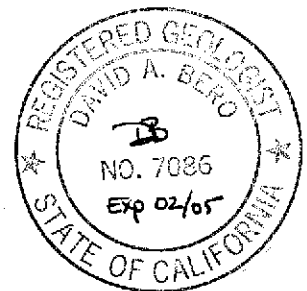
URS CORPORATION



Scott Robinson
Project Manager



David A. Bero, R.G.
Senior Geologist



Enclosure: First Quarter 2003 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, P.O. Box 6549, Moraga, CA 94570
Mr. Mike Bakaldin, City of San Leandro, Environmental Services Division, 835 East 14th Street, San Leandro, CA 94577

REPORT

FIRST QUARTER 2003 GROUNDWATER MONITORING

ARCO SERVICE STATION #0601
712 LEWELLING BOULEVARD,
SAN LEANDRO, CALIFORNIA

Prepared for
Atlantic Richfield Company

April 4, 2003

URS

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

38486088

Date: April 4, 2003
Quarter: 1Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 0601 Address: 712 Lewelling Boulevard, San Leandro, CA
Atlantic Richfield Co. Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486088
Primary Agency: Alameda County Health Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (First – 2003):

1. Performed first quarter 2003 groundwater monitoring event on January 23, 2003.
2. Prepared and submitted fourth quarter 2002 groundwater monitoring report.
3. Prepared first quarter 2003 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Second – 2003):

1. Perform second quarter 2003 groundwater monitoring event.
2. Prepare second quarter 2003 groundwater monitoring report.
3. Fuel line upgrades will take place this quarter

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Annual (1st Quarter): MW-2, MW-11, MW-13 Semi-Annual (1st/3rd 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:	Yes (Sheen in MW-1 and MW-3)
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:	5.70 (MW-15) to 8.41 (MW-14)
Groundwater Gradient (direction):	East
Groundwater Gradient (magnitude):	0.020 feet per foot

DISCUSSION:

Beginning this quarter, groundwater samples were analyzed by EPA method 8260B for TPH-g, BTEX, and fuel oxygenates. TPH-g was detected in two of the fourteen wells sampled this quarter, at concentrations of 6,000 micrograms per liter ($\mu\text{g/L}$) in well MW-1 and 68,000 $\mu\text{g/L}$ in well MW-3. Benzene was detected in four wells at concentrations ranging from 58 $\mu\text{g/L}$ in well MW-6 to 680 $\mu\text{g/L}$ in well MW-1. MTBE was detected in seven wells at concentrations ranging from 1.4 $\mu\text{g/L}$ in well MW-10 to 95 $\mu\text{g/L}$ in well MW-2. Well MW-1 was analyzed for semivolatile organic compounds and 2-Methylnaphthalene, 4-Methylphenol, and Naphthalene were detected at concentrations of 250 $\mu\text{g/L}$, 75 $\mu\text{g/L}$ and 800 $\mu\text{g/L}$ respectively.

ATTACHMENTS:

- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Fuel Oxygenate Analytical Data
- Table 3 - Groundwater Flow Direction and Gradient
- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – January 23, 2003
- 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
Groundwater Elevation and Analytical Data

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

Well Number	Date Sampled	Top of Riser Elevation (feet)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet)	TPH as			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)	DO (mg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-1	06/20/00	19.19	8.20	10.99	23,000	2,400	50	1,800	680	ND<200	NA	NA
	09/29/00		8.55	10.64	23,600	2,880	ND<50	2,130	871	ND<250	430 ^a /1,100 ^b	NA
	12/17/00		8.28	10.91	21,600	1,980	ND<50	1,610	664	ND<250	270 ^a /900 ^b	NA
	03/28/01		8.13	11.06	19,800	2,310	ND<100	2,010	517	ND<500	11(c)	NA
	06/20/01		8.60	10.59	17,000	2,200	23	1,800	320	100	NA	NA
	09/22/01		9.03	10.16	20,000	2,900	ND<200	2,500	270	ND<1000	360 ^a , 980 ^b	NA
	12/27/01		7.93	11.26	15,000	2,000	ND<50	1,700	140	290	370 ^a , 1,200 ^b	NA
	03/15/02		7.89	11.30	12,000	1,800	ND<50	1,400	79	ND<250	220 ^a , 880 ^b	NA
	04/18/02		7.05	12.14	16,000	3,000	180	2,600	320	ND<250	250 ^a , 880 ^b	1.26
	07/23/02	NP	8.7	10.49	14,000 ^c	3,200	ND<50	2,100	ND<50	ND<250	470 ^a , 1,100 ^b	0.9
	10/16/02	NP	9.12	10.07	14,000 ^d	2,100	ND<25	2,000	31	ND<120	490 ^a , 1,500 ^b	0.8
	01/23/03 ^e	NP	7.45	11.74	6,000	680	ND<50	800	ND<50	ND<50	250 ^a , 800 ^b , 75 ^f	0.9
MW-2	06/20/00	21.12	7.12	14.00	NS	NS	NS	NS	NS	NS	NS	NA
	09/29/00		7.60	13.52	NS	NS	NS	NS	NS	NS	NS	NA
	12/17/00		7.42	13.70	NS	NS	NS	NS	NS	NS	NS	NA
	03/28/01		6.84	14.28	838	18.1	ND<5.0	7.63	5.98	39.5	NA	NA
	06/20/01		7.66	13.46	NS	NS	NS	NS	NS	NS	NS	NA
	09/22/01		8.08	13.04	NS	NS	NS	NS	NS	NS	NA	NA
	12/27/01		6.48	14.64	NS	NS	NS	NS	NS	NS	NS	NA
	03/15/02		6.84	14.28	100	ND<0.5	ND<0.5	2.5	ND<0.5	75	NA	NA
	04/18/02		6.19	14.93	NS	NS	NS	NS	NS	NS	NS	NA
	07/23/02		7.73	13.39	NS	NS	NS	NS	NS	NS	NS	NA
	10/16/02		8.10	13.02	NS	NS	NS	NS	NS	NS	NS	NA
	01/23/03 ^e	P	6.52	14.60	ND<5,000	ND<50	ND<50	ND<50	ND<50	95	NA	1.6

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					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-3	06/20/00	22.99	6.22	16.77	45,000	670	990	2,400	12000	ND<500	NA	NA
	09/29/00		7.20	15.79	51,000	860	1,120	2,720	12900	ND<250	NA	NA
	12/17/00		NM	NM	NS	NS	NS	NS	NS	NS	NA	NA
	03/28/01		6.10	16.89	43,500	804	ND<200	250	11,000	ND<1,000	NA	NA
	06/20/01		6.14	16.85	62,000	1,000	850	2,800	13,000	ND<2,500	NA	NA
	09/22/01		7.24	15.75	53,000	1,200	1,200	3,100	13,000	ND<1,000	NA	NA
	12/27/01		7.00	15.99	44,000	860	840	2,300	10,000	ND<250	NA	NA
	03/15/02		7.02	15.97	43,000	1,000	810	2,300	11,000	ND<250	NA	NA
	04/18/02		NM	NM	NS	NS	NS	NS	NS	NS	NS	NA
	07/23/02	P	7.22	15.77	45,000 ^d	750	570	2,100	10,000	ND<250	NA	1.0
	10/16/02	P	7.54	15.45	42,000 ^d	780	620	2,500	11,000	ND<250	NA	1.4
	01/23/03 ^B	P	6.85	16.14	68,000	580	500	3,300	16,000	ND<100	NA	1.3
MW-4	06/20/00	22.38	6.46	15.92	2,700	210	20	94	520	46	NA	NA
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NA
	12/17/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NA
	03/28/01		7.49	14.89	DRY	DRY	DRY	DRY	DRY	DRY	NA	NA
	06/20/01		7.21	15.17	13,000	690	170	330	1,400	110	NA	NA
	09/22/01		7.43	14.95	6,700	650	110	410	1,800	100	NA	NA
	12/27/01		7.32	15.06	1,200	47	15	46	250	15	NA	NA
	03/15/02		7.43	14.95	490	34	7.4	26	110	12	NA	NA
	04/18/02		7	15.38	ND<50	0.57	0.83	ND<0.5	1.1	3.7	NA	NA
	07/23/02	NP	7.70	14.68	820 ^d	80	12	23	190	41	NA	2.2
	10/16/02	NP	7.75	14.63	2,000 ^d	220	25	140	570	ND<25	NA	1.8
	01/23/03 ^B	NP	7.11	15.27	ND<250	ND<2.5	ND<2.5	ND<2.5	8.8	5.9	NA	1.7

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					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-5	06/20/00	22.45	6.78	15.67	10,000	3,000	650	260	700	ND<200	NA	NA
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NA
	12/17/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NA
	03/28/01		6.48	15.97	23,400	4,160	3,450	728	3,090	ND<250	NA	NA
	06/20/01		7.26	15.19	120,000	1,200	49	190	540	ND<100	NA	NA
	09/22/01		DRY	DRY	NS	NS	NS	NS	NS	NS	NA	NA
	12/27/01		6.56	15.89	16,000	1,500	2,700	730	3,200	ND<250	NA	NA
	03/15/02		6.9	15.55	20,000	2,600	3,300	1,000	4,000	ND<250	NA	NA
	04/18/02		6.17	16.28	17,000	3,200	2,900	790	3,000	ND<250	NA	NA
	07/23/02		NP	7.36	15.09	4,600 ^d	1,400	30	160	110	NA	1.7
	10/16/02		NP	7.66	14.79	5,400 ^d	1,300	ND<20	62	150	ND<100	1.1
	01/23/03 ^g		NP	6.28	16.17	ND<5,000	110	ND<50	ND<50	98	ND<50	1.1
MW-6	06/20/00	22.77	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NA
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NA
	12/17/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NA
	03/28/01		7.57	15.2	DRY	DRY	DRY	DRY	DRY	DRY	NA	NA
	06/20/01		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NA
	09/22/01		DRY	DRY	NS	NS	NS	NS	NS	NS	NA	NA
	12/27/01		7.21	15.56	ND<50	3	1	1.1	2	ND<2.5	NA	NA
	03/15/02		7.51	15.26	2,100	380	8.6	110	17	ND<25	NA	NA
	04/18/02		6.89	15.88	2,200	440	12	96	14	52	NA	NA
	07/23/02		NP	8.50	14.27	NS	NS	NS	NS	NS	NS	NA
	10/16/02		DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NA
	01/23/03 ^g		NP	8.05	14.72	ND<5,000	ND<50	ND<50	ND<50	ND<50	ND<50	2.1
	01/02/03 ^{g,h}				ND<250	58	ND<2.5	6.2	3.8	17	NA	2.1

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Well Number	Date Sampled	Top of Riser Elevation (feet)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet)	TPH as			Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)	DO (mg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-7	06/20/00	22.89	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NA
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NA
	12/17/00		8.93	13.96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/28/01		8.35	14.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/20/01		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NA
	09/22/01		DRY	DRY	NS	NS	NS	NS	NS	NS	NA	NA
	12/27/01		8.42	14.47	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/15/02		8.54	14.35	ND<50	1.3	2.6	1.1	5.4	ND<2.5	NA	NA
	04/18/02		7.84	15.05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	3.32
	07/23/02		9.51	13.38	NS	NS	NS	NS	NS	NS	NS	NA
	10/16/02		DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NA
	01/23/03 ^g		NP	8.04	14.85	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.4
MW-8	06/20/00	20.89	7.23	13.66	150	ND<0.5	0.9	ND<0.5	ND<1.0	310	NA	NA
	09/29/00		7.91	12.98	149	ND<0.5	ND<0.5	ND<0.5	ND<0.5	438	NA	NA
	12/17/00		7.11	13.78	662	ND<5.0	ND<5.0	ND<5.0	ND<5.0	273	NA	NA
	03/28/01		6.88	14.01	840	ND<5.0	ND<5.0	ND<5.0	ND<5.0	320	NA	NA
	06/20/01		7.25	13.64	230	ND<0.5	ND<0.5	ND<0.5	0.65	330	NA	NA
	09/22/01		8.14	12.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.5	NA	NA
	12/27/01		6.73	14.16	780	ND<0.5	ND<0.5	0.6	0.89	160	NA	NA
	03/15/02		6.94	13.95	1,100	ND<10	ND<10	ND<10	ND<10	830	NA	NA
	04/18/02		NM	NM	NS	NS	NS	NS	NS	NS	NS	NA
	07/23/02		7.89	13	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8.7	NA	4.5
	10/16/02		8.13	12.76	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NA	4.2
	01/23/03 ^g		NP	6.47	14.42	ND<50	ND<0.50	ND<0.50	ND<0.50	2.6	NA	4.0

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					as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)						
MW-9	06/20/00	22.26	8.01	14.25	NS	NS	NS		NS	NS	NS	NS	NA
	09/29/00		8.44	13.82	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	3.44	NA	NA
	12/17/00		7.84	14.42	NS	NS	NS		NS	NS	NS	NS	NA
	03/28/01		7.58	14.68	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/20/01		7.75	14.51	NS	NS	NS		NS	NS	NS	NS	NA
	9/22/2001		8.69	13.57	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	7.8	NA	NA
	12/27/2001		7.15	15.11	NS	NS	NS		NS	NS	NS	NS	NA
	03/15/02		7.23	15.03	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/18/02		6.79	15.47	NS	NS	NS		NS	NS	NS	NS	NA
	07/23/02		8.3	13.96	ND<50	ND<0.50	ND<0.50		ND<0.50	ND<0.50	ND<2.5	NA	1.4
	10/16/02		8.64	13.62	NS	NS	NS		NS	NS	NS	NS	NA
	01/23/03 ^g		7.35	14.91	ND<50	ND<0.50	ND<0.50		ND<0.50	ND<0.50	2.2	NA	3.0
MW-10	06/20/00	21.33	7.99	13.34	ND<0.5	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<3.0	NA	NA
	09/29/00		8.40	12.93	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/17/00		7.91	13.42	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/28/01		7.47	13.86	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/20/01		8.11	13.22	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	09/22/01		8.77	12.56	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/27/01		6.94	14.39	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/15/02		7.48	13.85	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/18/02		6.77	14.56	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	3.8	NA	1.22
	07/23/02		8.42	12.91	ND<50	ND<0.50	ND<0.50		ND<0.50	ND<0.50	ND<2.5	NA	1.0
	10/16/02		8.77	12.56	ND<50	ND<0.50	ND<0.50		ND<0.50	ND<0.50	ND<2.5	NA	1.0
	01/23/03 ^g		7.12	14.21	ND<50	ND<0.50	ND<0.50		ND<0.50	ND<0.50	1.4	NA	1.3

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Well Number	Date Sampled	Top of Riser Elevation (feet)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet)	TPH			Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)	DO (mg/L)
					as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-11	06/20/00	20.97	8.18	12.79	NS	NS	NS	NS	NS	NS	NS	NA
	09/29/00		8.60	12.37	NS	NS	NS	NS	NS	NS	NS	NA
	12/17/00		8.48	12.49	NS	NS	NS	NS	NS	NS	NS	NA
	03/28/01		7.88	13.09	ND<50	ND<0.5	ND<0.5	ND< 0.5	ND<0.5	ND<2.5	NA	NA
	06/20/01		8.48	12.49	NS	NS	NS	NS	NS	NS	NS	NA
	09/22/01		9.11	11.86	NS	NS	NS	NS	NS	NS	NS	NA
	12/27/01		7.50	13.47	NS	NS	NS	NS	NS	NS	NS	NA
	03/15/02		7.87	13.1	ND<50	ND< 0.5	ND< 0.5	ND< 0.5	ND<0.5	ND<2.5	NA	NA
	04/18/02		7.22	13.75	NS	NS	NS	NS	NS	NS	NS	NA
	07/23/02		8.76	12.21	NS	NS	NS	NS	NS	NS	NS	NA
	10/16/02		9.15	11.82	NS	NS	NS	NS	NS	NS	NS	NA
	01/23/03^g		7.61	13.36	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	2.4
MW-12	06/20/00	20.11	8.55	11.56	NS	NS	NS	NS	NS	NS	NS	NA
	09/29/00		8.98	11.13	NS	NS	NS	NS	NS	NS	NS	NA
	12/17/00		8.76	11.35	NS	NS	NS	NS	NS	NS	NS	NA
	03/28/01		8.31	11.8	ND<50	ND<0.5	ND<0.5	ND< 0.5	ND<0.5	ND<2.5	NA	NA
	06/20/01		9.10	11.01	NS	NS	NS	NS	NS	NS	NS	NA
	09/22/01		9.48	10.63	NS	NS	NS	NS	NS	NS	NS	NA
	12/27/01		7.78	12.33	NS	NS	NS	NS	NS	NS	NS	NA
	03/15/02		8.22	11.89	ND<50	ND< 0.5	ND< 0.5	ND< 0.5	ND<0.5	ND<2.5	NA	NA
	04/18/02		7.65	12.46	NS	NS	NS	NS	NS	NS	NS	NA
	07/23/02		9.18	10.93	NS	NS	NS	NS	NS	NS	NS	NA
	10/16/02		9.51	10.60	NS	NS	NS	NS	NS	NS	NS	NA
	01/23/03^g		7.86	12.25	NS	NS	NS	NS	NS	NS	NS	NA

Table 1
Groundwater Elevation and Analytical Data

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

Well Number	Date Sampled	Top of Riser Elevation (feet)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet)	TPH				Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)	DO (mg/L)
					as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)						
MW-13	06/20/00	20.75	7.56	13.19	NS	NS	NS		NS	NS	NS	NS	NA
	09/29/00		8.27	12.48	NS	NS	NS		NS	NS	NS	NS	NA
	12/17/00		8.09	12.66	NS	NS	NS		NS	NS	NS	NS	NA
	03/28/01		7.69	13.06	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/20/01		8.46	12.29	NS	NS	NS		NS	NS	NS	NS	NA
	09/22/01		8.57	12.18	NS	NS	NS		NS	NS	NS	NS	NA
	12/27/01		7.14	13.61	NS	NS	NS		NS	NS	NS	NS	NA
	03/15/02		7.62	13.13	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/18/02		6.91	13.84	NS	NS	NS		NS	NS	NS	NS	NA
	07/23/02		8.50	12.25	NS	NS	NS		NS	NS	NS	NS	NA
	10/16/02		8.74	12.01	NS	NS	NS		NS	NS	NS	NS	NA
	01/23/03 ^B		7.35	13.4	ND<50	ND<0.50	ND<0.50		ND<0.50	ND<0.50	ND<0.50	NA	3.4
MW-14	06/20/00	20.90	9.16	11.74	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<1.0	ND<10	NA	NA
	09/29/00		9.48	11.42	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.50	NA	NA
	12/17/00		9.24	11.66	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/28/01		8.91	11.99	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/20/01		9.7	11.20	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	3.1	NA	NA
	09/22/01		10.04	10.86	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/27/01		8.33	12.57	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/15/02		8.75	12.15	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/18/02		8.21	12.69	ND<50	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<2.5	NA	NA
	07/23/02		9.76	11.14	ND<50	ND<0.50	ND<0.50		ND<0.50	ND<0.50	ND<2.5	NA	1.4
	10/16/02		10.10	10.80	ND<50	ND<0.50	ND<0.50		ND<0.50	ND<0.50	ND<2.5	NA	1.1
	01/23/03 ^B		8.41	12.49	ND<50	ND<0.50	ND<0.50		ND<0.50	ND<0.50	ND<0.50	NA	1.3

Table 1
Groundwater Elevation and Analytical Data

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

Well Number	Date Sampled	Top of Riser Elevation (feet)	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet)	TPH as		Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)	DO (mg/L)
					Gasoline (µg/L)	Benzene (µg/L)						
MW-15	06/20/00	22.08	5.98	16.10	NS	NS	NS	NS	NS	NS	NS	NA
	09/29/00		6.50	15.58	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.50	NA	NA
	12/17/00		5.89	16.19	NS	NS	NS	NS	NS	NS	NS	NA
	03/28/01		5.78	16.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11.1	NA	NA
	06/20/01		5.72	16.36	NS	NS	NS	NS	NS	NS	NS	NA
	09/22/01		6.79	15.29	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	NA	NA
	12/27/01		5.49	16.59	NS	NS	NS	NS	NS	NS	NS	NA
	03/15/02		5.68	16.40	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/18/02		4.85	17.23	NS	NS	NS	NS	NS	NS	NS	NA
	07/23/02		6.32	15.76	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	NA	2.0
	10/16/02		6.69	15.39	NS	NS	NS	NS	NS	NS	NS	NA
	01/23/03^g		5.70	16.38	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.9	NA	2.6

Table 1
Groundwater Elevation and Analytical Data

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

TPH	= Total Petroleum Hydrocarbons analyzed using EPA Method 8015B modified prior to 1/23/03
BTEX	= Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B prior to 1/23/03
MTBE	= Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted
Note	= Semi volatile organic compounds analyzed using EPA Method 8270C
µg/L	= Micrograms per liter
NA	= Not analyzed, data not available
NS	= Not sampled
TOC	= Top of casing
P	= Purge
NP	= No purge
DO	= Dissolved oxygen
<	= Not detected at or above specified laboratory method detection limit
a	= 2-methylnaphthalene
b	= Naphthalene
c	= Phenol
d	= Chromatogram Pattern: Gasoline C6-C10
e	= Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel
f	= 4-Methylphenol
g	= TPH, BTEX, and MTBE analyzed by EPA Method 8260B beginning on the 1st Quarter 2003 Sampling event (1/23/03)
h	= This sample was re-extracted beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

Source: The data within this table collected prior to July 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 2
Fuel Oxygenate Analytical Data

ARCO Service Station #0601
712 Lewelling Blvd
San Leandro, California

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	01/23/03	ND<4,000	ND<2,000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
MW-2	01/23/03	ND<4,000	ND<2,000	95	ND<50	ND<50	ND<50	ND<50	ND<50
MW-3	01/23/03	ND<8,000	ND<4,000	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100
MW-4	01/23/03	ND<200	ND<100	5.9	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
MW-5	01/23/03	ND<4,000	ND<2,000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
MW-6	01/23/03	ND<4,000 ND<200	ND<2,000 ND<100	ND<50 17	ND<50 ND<2.5	ND<50 ND<2.5	ND<50 ND<2.5	ND<50 ND<2.5	ND<50 ND<2.5
MW-7	01/23/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-8	01/23/03	ND<40	ND<20	2.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-9	01/23/03	ND<40	ND<20	2.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-10	01/23/03	ND<40	ND<20	1.4	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-11	01/23/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-13	01/23/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-14	01/23/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-15	01/23/03	ND<40	ND<20	1.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

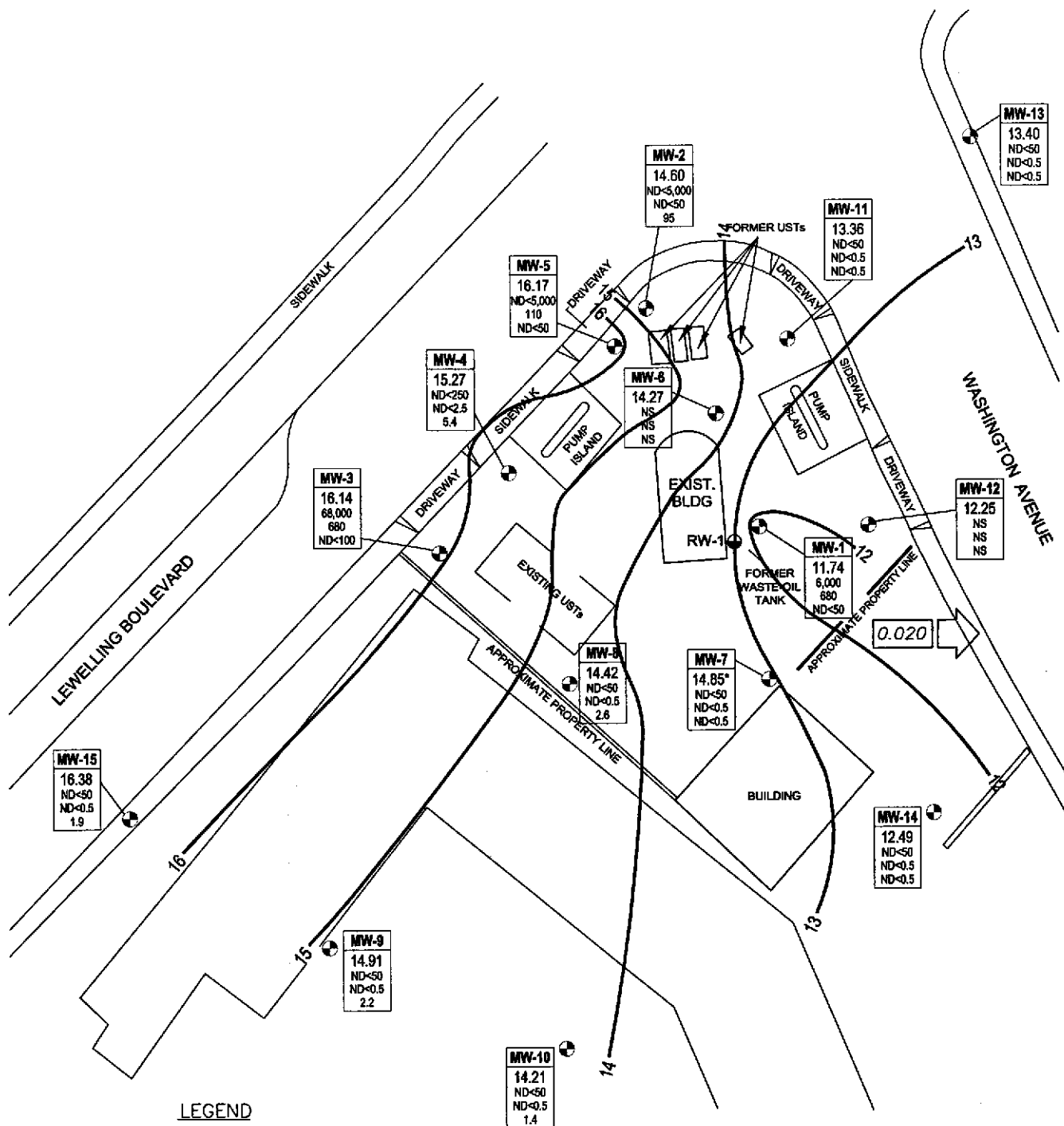
Note = All fuel oxygenate compounds analyzed using EPA Method 8260B
TBA = tert-Butyl alcohol
MTBE = Methyl tert-Butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert Butyl ether
TAME = tert-Amyl Methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
µg/L = Micrograms per liter
ND< = Not detected at or above laboratory reporting limits

Table 3
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
12/27/01	East-Southeast	0.025
03/15/02	East	0.015
04/18/02	East	0.015
07/23/02	East-Southeast	0.025
10/16/02	East-Southeast	0.022
01/23/02	East	0.020

Source: The data within this table collected prior to July 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.



NORTH

0 60 120

SCALE IN FEET

URS

Project No. 38486088

Arco Service Station 0601
712 Levee Boulevard
San Leandro, California

**GROUNDWATER ELEVATION CONTOUR
AND ANALYTICAL SUMMARY MAP**
First Quarter 2003 (January 23, 2003)

FIGURE

1

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 TeflonTM 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.

WELL GAUGING DATA

Project # 030123-BA1 Date 1/23/03 Client ARCO (GD)

Site 712 LEWELLING BLVD, SAN LEANDRO

UP	Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
7'	MW-1	4					7.45	11.05	TOC	
	MW-2	4					6.52	12.20		ORCs
8'	MW-3	4	pressure - allowed to stabilize				6.85	11.85		
NP	MW-4	4					7.11	8.43		
NP	MW-5	4					6.28	10.04		ORCs
NP	MW-6	4					8.05	8.54		
NP	MW-7	4					8.04	9.58		
NP	MW-8	4	press				6.47*	10.11		ORCs
	MW-9	2					7.35	15.88		
NP	MW-10	2					7.12	18.67		
	MW-11	4					7.61	11.80		
SD	MW-12	4					7.86	11.54		
	MW-13	2					7.35	12.92		
7.5'	MW-14	2					8.41	12.95		
	MW-15	2					5.70	10.03		
* gauged w/ ORCs in Well										

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030123-BA1</u>	Station # <u>601</u>
Sampler: <u>Brian Alcorn</u>	Date: <u>1/23/03</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>11.05</u>	Depth to Water: <u>7.45</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
---	--

Top of Screen: 7' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

—	x <u>No Purge</u>	= — Gals.
1 Case Volume (Gals.)	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>0925</u>	<u>67.5</u>	<u>6.3</u>	<u>1220</u>	—	<u>cloudy gray w/ debris</u> <u>light sheen / odor</u>

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: <u>—</u>
Sampling Time: <u>0925</u>	Sampling Date: <u>1/23/03</u>
Sample I.D.: <u>MW-1</u>	Laboratory: Pace <u>(Sequoia)</u> Other _____
Analyzed for: <u>(TPH-G BTEX)</u> MTBE TPH-D Other: <u>Oxys, Ethanol by 8260</u> <u>1,2-DCM + EDC by 8260</u> ; <u>Svols by 8270</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: <u>0.9</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 080123-BA1	Station # 601
Sampler: Bann Alcorn	Date: 1/23/03
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 12.20	Depth to Water: 6.52
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
---	--

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

3.7	X	3	=	11.1	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1228	67.0	7.5	1359	3.5	clear
1229	67.3	7.4	1457	7.0	"
1229	Dewatered			0.70	DTW 7.75
1235	67.2	7.2	1455	—	80% 7.65 DTW 7.65

Did well dewater? (Yes) No Gallons actually evacuated: 7

Sampling Time: 1235 Sampling Date: 1/23/03

Sample I.D.: MW-2 Laboratory: Pace (Sequoia) Other: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Cxys, Ethanol by 8260
1,2-DCA + EDB by 8260

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	1.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030123-BA1	Station # 601
Sampler: BRIAN ALCOX	Date: 1/23/03
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 11.85	Depth to Water: 6.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible Extraction Pump Other:	Sampling Method: Bailer Disposable Bailer Extraction Port Other:
--	---

Top of Screen: 8' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

3.3	X	3	=	9.9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1246	66.7	7.1	1120	3.5	cloudy gray odor / sheen
1247	66.1	7.0	1096	7.0	"
1248	65.8	7.0	1036	10.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 11

Sampling Time: 1255 Sampling Date: 1/23/03

Sample I.D.: MW-3 Laboratory: Pace (Sequoia) Other:

Analyzed for: (PH-G) 8260 MTBE TPH-D Other: OXYS, ETHANOL by 8260 1,2-DCA + EDB by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030123-B41	Station # 601
Sampler: BRIAN ALLEN	Date: 1/23/03
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 8.43	Depth to Water: 7.11
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
---	---

Top of Screen: NP If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

—	x <u>No Purge</u>	= — Gals.
1 Case Volume (Gals.)	Specified Volume	Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
0905	63.9	7.0	1357	—	clear w/ brown debris

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: —
Sampling Time: 0905	Sampling Date: 1/23/03
Sample I.D.: MW-4	Laboratory: Pace <u>Sequoia</u> Other: _____
Analyzed for: <u>8260</u> TPH-G BTX TPH-D Other: <u>Onys, Ethanol by 8260</u> <u>1,2-DCB + EDB by 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: <u>1.7</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030123-BA1</u>	Station # <u>601</u>
Sampler: <u>Brian Alcorn</u>	Date: <u>1/23/03</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>10.04</u>	Depth to Water: <u>6.28</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Gmde	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
---	--

Top of Screen: NP If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

—	x <u>No Purge</u>	=	—	Gals.
1 Case Volume (Gals.)	Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
0940	65.5	7.6	1762	—	clear / mild odor

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>—</u>
Sampling Time: <u>0940</u>	Sampling Date: <u>1/23/03</u>
Sample I.D.: <u>MW-5</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> <u>8260</u> <u>BTEX</u> MTBE TPH-D Other: <u>OAS, REMANOL by 8260</u> <u>1,2-DCA + EDB by 8260</u>	
D.O. (if req'd):	Pre-purge: <u> </u> mg/L
O.R.P. (if req'd):	Pre-purge: <u> </u> mV
	Post-purge: <u>1.1</u> mg/L
	Post-purge: <u> </u> mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030123-BA1	Station # 601
Sampler: BRIAN ALLEN	Date: 1/23/03
Well I.D.: MW-6	Well Diameter: 2 3 4 6 8
Total Well Depth: 8.54	Depth to Water: 8.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
---	--

Top of Screen: NP If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

—	x <u>No Purge</u>	=	—	Gals.
1 Case Volume (Gals.)	Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
0810	64.7	6.4	1572	—	clear w/ rust-color debris

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: —
Sampling Time: 0810	Sampling Date: 1/23/03
Sample I.D.: MW-6	Laboratory: Pace <u>Sequoia</u> Other: _____
Analyzed for: <u>8260</u> TPH-G BTEX MTBE TPH-D Other: <u>OPYS, Ethanol by 8260</u> <u>1,2-DCM + EDB by 8260</u>	
D.O. (if req'd):	Pre-purge: <u>mg/L</u> Post-purge: <u>2.1</u> <u>mg/L</u>
O.R.P. (if req'd):	Pre-purge: <u>mV</u> Post-purge: <u>mV</u>

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030123-BA1	Station # 601
Sampler: Brian Alcorn	Date: 1/23/03
Well I.D.: MW-7	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 9.58	Depth to Water: 8.04
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
---	--

Top of Screen: NP If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

—	x <u>No Purge</u>	= — Gals.
1 Case Volume (Gals.)	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
0835	64.1	6.7	1602	—	clear w/ debris

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Time: 0835 Sampling Date: 1/23/03

Sample I.D.: MW-7 Laboratory: Pace Sequoia Other: _____

Analyzed for: TPH-G 8260 BTEX MTBE TPH-D Other: CRYS, ETHANOL by 8260
1,2-DCA + EOB by 8260

D.O. (if req'd):	Pre-purge:	mg/l	Post-purge:	5.4 mg/l
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030123-BA1</u>	Station # <u>601</u>
Sampler: <u>Bain Allen</u>	Date: <u>1/23/03</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>10.11</u>	Depth to Water: <u>6.47</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
---	---

Top of Screen: NF If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

—	x <u>No Purge</u>	=	—	Gals.
1 Case Volume (Gals.)	Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>uS</u>)	Gals. Removed	Observations
<u>0845</u>	<u>63.2</u>	<u>7.5</u>	<u>923</u>	—	<u>clear</u>

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: <u>—</u>
Sampling Time: <u>0845</u>	Sampling Date: <u>1/23/03</u>
Sample I.D.: <u>MW-8</u>	Laboratory: Pace <u>Sequoia</u> Other: _____
Analyzed for: <u>IPH-G</u> <u>8260</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u> Other: <u>0.05% Ethanol by 8260</u> <u>1,2-DCA + EDB by 8260</u>	
D.O. (if req'd):	Pre-purge: <u> </u> ^{mg/L} Post-purge: <u>4.0</u> ^{mg/L}
O.R.P. (if req'd):	Pre-purge: <u> </u> mV Post-purge: <u> </u> mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030123-BA1	Station # 601
Sampler: RH	Date: 1/23/03
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8
Total Well Depth: 15.88	Depth to Water: 7.35
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² x 0.163

Purge Method: Bailer Disposable Bailer (Multi-Use) Electric Submersible Extraction Pump Other: _____ Sampling Method: Bailer Disposable Bailer Extraction Port Other: _____
--

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

1.4	X	3	=	4.2	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1211	67.3	7.3	1117	1.4	cloudy
1212	68.0	7.2	1131	2.9	"
1213	68.3	7.2	1148	4.2	"

Did well dewater? Yes (No)	Gallons actually evacuated: 4.2
Sampling Time: 1218	Sampling Date: 1/23/03
Sample I.D.: MW-9	Laboratory: Pace (Sequoia) Other _____
Analyzed for: (TPH-G) <u>8260</u> MTBE TPH-D Other: ORYS, ETHANOL by 8260, 1,2-DCA + EDB by 8260	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: 3.0 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030123-BA1	Station # 601
Sampler: BRIAN ALCORN	Date: 1/23/03
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8
Total Well Depth: 18.67	Depth to Water: 7.12
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer (Disposable Bailer) Extraction Port Other: _____
--	---

Top of Screen: NP If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

—	X <u>No Purge</u>	=	—	Gals.
1 Case Volume (Gals.)	Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1020	66.7	7.4	1157	—	clear

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Time: 1020 Sampling Date: 1/23/03

Sample I.D.: MW-10 Laboratory: Pace (Sequoia) Other: _____

Analyzed for: (8260) TPH-G BTEX MTBE TPH-D Other: ORYS, ETANOL by 8260
1,2-DCA + EDB by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030123-BA1	Station # 601
Sampler: BRIAN ALCON	Date: 1/23/03
Well I.D.: MW-11	Well Diameter: 2 3 4 6 8
Total Well Depth: 11.80	Depth to Water: 7.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible Extraction Pump Other:	Sampling Method: Bailer Disposable Bailer Extraction Port Other:
--	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

2.7	X	3	=	8.1	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1057	65.8	7.7	1431	2.75	clear
1102	65.8	7.7	1252	5.5	"
1106	65.8	7.4	1249	8.25	"

Did well dewater? Yes ☐ No ☒ Gallons actually evacuated: 8

Sampling Time: 1110 Sampling Date: 1/23/03

Sample I.D.: MW-11 Laboratory: Pace Sequoia Other: _____

Analyzed for: 8260 TPH-C BTEX MTBE TPH-D Other: OATS, ETHANOL by 8260, 1,2-DCA + EDB by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.4	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030123-BA1	Station # 601
Sampler: BRINE ALLOY	Date: 1/23/03
Well I.D.: MW-13	Well Diameter: (2) 3 4 6 8
Total Well Depth: 12.92	Depth to Water: 7.35
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YST) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible
 Extraction Pump
 Other: _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Other: _____

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

0.9	x	3	=	2.7	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or (μS))	Gals. Removed	Observations
1205	65.4	7.0	1380	1.0	clear
1207	66.1	7.0	1417	2.0	"
1209	66.4	7.0	1412	3.0	"

Did well dewater? Yes (No) Gallons actually evacuated: 3.

Sampling Time: 1215 Sampling Date: 1/23/03

Sample I.D.: MW-13 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (TPH-G BTX 8260) MTBE TPH-D Other: OKTS, ERMW- by 8260
1,2-DCA + EDB by 8260

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	3.4	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030123-B41	Station # 601
Sampler: BRIAN ALCOAN	Date: 1/23/03
Well I.D.: MW-14	Well Diameter: (2) 3 4 6 8
Total Well Depth: 12.95	Depth to Water: 8.41
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
---	--

Top of Screen: 7.5' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

—	x	<u>No Purge</u>	=	—	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1000	66.6	7.1	1608	—	clear

Did well dewater? Yes ☐ No ☒	Gallons actually evacuated: —
Sampling Time: 1000	Sampling Date: 1/23/03
Sample I.D.: MW-14	Laboratory: Pace <u>Sequoia</u> Other: _____
Analyzed for: <u>8260</u> <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u> Other: <u>ONYS, ETANOL by 8260</u> <u>1,2-DCA + EDB by 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: 1.3 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030123-BA1	Station # 601
Sampler: RH	Date: 1/23/03
Well I.D.: MW-15	Well Diameter: (2) 3 4 6 8
Total Well Depth: 10.03	Depth to Water: 5.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer
Disposable Bailer
Middleburg
Electric Submersible
Extraction Pump
Other:

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Other: _____

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

$$\frac{0.7}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{2.1}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1229	63.4	7.6	690	0.7	clear
1230	63.9	7.5	634	1.4	turbid
1231	63.4	7.5	655	2.1	"

Did well dewater? Yes ☒ No ☐ Gallons actually evacuated: 2.1

Sampling Time: ~~1236~~ 1236 Sampling Date: 1/23/03

Sample I.D.: MW-15 Laboratory: Pace Sequoia Other _____

Analyzed for: 8260 TPH-G BTEX MTBE TPH-D Other: Onys, Ethanol by 8260
1,2-DCA + EDB by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.6	mg/L
------------------	------------	------	-------------	-----	------

O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
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WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Client ARCO 601 Date 1/22/03

Site Address 712 LEWELLING BLVD, SAN LEANDRO

Job Number 030123-BA1 Technician BRIAN ALONSO

Well ID	Well Inspected - No Corrective Action Required	Water Balled From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1				X	X			X
MW-2	X							X
MW-3					X			X
MW-4				X	X			X
MW-5	X							X
MW-6	X							
MW-7	X							
MW-8	X							X
MW-9	X							
MW-10		X						
MW-11		X						
MW-12		X						X
MW-13	X							
MW-14	X							
MW-15	X							

NOTES: _____

BP GEM OIL COMPANY TYPE **A** BILL OF LADING

SOURCE RECORD BILL OF LADING FOR NON-
HAZARDOUS PURGEWATER RECOVERED FROM
GROUNDWATER WELLS AT BP GEM OIL COMPANY
FACILITIES IN THE STATE OF CALIFORNIA. THE NON-
HAZARDOUS PURGE- WATER WHICH HAS BEEN
RECOVERED FROM GROUND- WATER WELLS IS
COLLECTED BY THE CONTRACTOR, MADE UP INTO
LOADS OF APPROPRIATE SIZE AND HAULED BY
DILLARD ENVIRONMENTAL TO THE ALTAMONT
LANDFILL AND RESOURCE RECOVERY FACILITY IN
LIVERMORE, CALIFORNIA.

The contractor performing this work is BLAINE TECH
SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA
95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is
authorized by BP GEM OIL COMPANY to recover, collect,
apportion into loads the Non-Hazardous Well Purgewater that is
drawn from wells at the BP GEM Oil Company facility indicated
below and deliver that purgewater to BTS. Transport routing of
the Non-Hazardous Well Purgewater may be direct from one BP
GEM facility to the designated destination point; from one BP
GEM facility to the designated destination point via another BP
GEM facility; from a BP GEM facility to the designated
destination point via the contractor's facility, or any combination
thereof. The Non-Hazardous Well Purgewater is and remains the
property of BP GEM Oil Company.

This Source Record BILL OF LADING was initiated to
cover the recovery of Non-Hazardous Well Purgewater from wells
at the BP GEM Oil Company facility described below:

601

Station #

712 LEWELLING BLVD, SAN LEANDRO

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

35

added equip.
rinse water

5

any other
adjustments

TOTAL GALS.
RECOVERED

40

loaded onto
BTS vehicle #

14/15

BTS event #

time

date

030123-BA1

1300

1/23/03

signature

REC'D AT

time

date

unloaded by
signature

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 mentioned in 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.



**Sequoia
Analytical**

885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

27 February, 2003

Scott Robinson
URS Corporation
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #601, San Leandro, Ca
Sequoia Work Order: MMA0600

Enclosed are the results of analyses for samples received by the laboratory on 01/24/03 11:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate #1210



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

MMA0600
Reported:
02/27/03 17:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MMA0600-01	Water	01/23/03 09:25	01/24/03 11:55
MW-2	MMA0600-02	Water	01/23/03 12:35	01/24/03 11:55
MW-3	MMA0600-03	Water	01/23/03 12:55	01/24/03 11:55
MW-4	MMA0600-04	Water	01/23/03 09:05	01/24/03 11:55
MW-5	MMA0600-05	Water	01/23/03 09:40	01/24/03 11:55
MW-6	MMA0600-06	Water	01/23/03 08:10	01/24/03 11:55
MW-7	MMA0600-07	Water	01/23/03 08:35	01/24/03 11:55
MW-8	MMA0600-08	Water	01/23/03 08:45	01/24/03 11:55
MW-11	MMA0600-09	Water	01/23/03 11:10	01/24/03 11:55
MW-13	MMA0600-10	Water	01/23/03 12:15	01/24/03 11:55
MW-14	MMA0600-11	Water	01/23/03 10:00	01/24/03 11:55
MW-15	MMA0600-12	Water	01/23/03 12:36	01/24/03 11:55
MW-9	MMA0600-13	Water	01/23/03 12:18	01/24/03 11:55
MW-10	MMA0600-14	Water	01/23/03 10:20	01/24/03 11:55

There were no custody seals that were received with this project.

URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

MMA0600
Reported:
02/27/03 17:43

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MMA0600-01) Water Sampled: 01/23/03 09:25 Received: 01/24/03 11:55									
Ethanol	ND	4000	ug/l	100	3B07022	02/06/03	02/06/03	EPA 8260B	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
Benzene	680	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	800	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	6000	5000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>									
		88.4 %	78-129		"	"	"	"	
MW-2 (MMA0600-02) Water Sampled: 01/23/03 12:35 Received: 01/24/03 11:55									
Ethanol	ND	4000	ug/l	100	3B07022	02/06/03	02/06/03	EPA 8260B	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
Methyl tert-butyl ether	95	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	5000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>									
		86.6 %	78-129		"	"	"	"	

Sequoia Analytical - Morgan Hill

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500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

MMA0600
Reported:
02/27/03 17:43

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMA0600-03) Water Sampled: 01/23/03 12:55 Received: 01/24/03 11:55									
Ethanol	ND	8000	ug/l	200	3B07022	02/06/03	02/06/03	EPA 8260B	
tert-Butyl alcohol	ND	4000	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	100	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	100	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	100	"	"	"	"	"	"	
Benzene	580	100	"	"	"	"	"	"	
Toluene	500	100	"	"	"	"	"	"	
Ethylbenzene	3300	100	"	"	"	"	"	"	
Xylenes (total)	16000	100	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

78.6 %

78-129

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MW-3 (MMA0600-03RE1) Water **Sampled: 01/23/03 12:55** **Received: 01/24/03 11:55**

HT-RE

Gasoline Range Organics (C6-C10)	68000	25000	ug/l	500	3B20050	02/07/03	02/07/03	EPA 8260B
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MW-4 (MMA0600-04) Water **Sampled: 01/23/03 09:05** **Received: 01/24/03 11:55**

Ethanol	ND	200	ug/l	5	3B07022	02/06/03	02/06/03	EPA 8260B
tert-Butyl alcohol	ND	100	"	"	"	"	"	"
Methyl tert-butyl ether	5.9	2.5	"	"	"	"	"	"
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"
Benzene	ND	2.5	"	"	"	"	"	"
Toluene	ND	2.5	"	"	"	"	"	"
Ethylbenzene	ND	2.5	"	"	"	"	"	"
Xylenes (total)	8.8	2.5	"	"	"	"	"	"
Gasoline Range Organics (C6-C10)	ND	250	"	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4

87.6 %

78-129

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URS Corporation
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02/27/03 17:43

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MMA0600-05) Water Sampled: 01/23/03 09:40 Received: 01/24/03 11:55									
Ethanol	ND	4000	ug/l	100	3B07022	02/06/03	02/06/03	EPA 8260B	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
Benzene	110	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	98	50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	5000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		80.8 %		78-129	"	"	"	"	
MW-6 (MMA0600-06) Water Sampled: 01/23/03 08:10 Received: 01/24/03 11:55									
Ethanol	ND	4000	ug/l	100	3B07022	02/06/03	02/06/03	EPA 8260B	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	5000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85.0 %		78-129	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project Manager: Scott Robinson

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Reported:
02/27/03 17:43

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (MMA0600-06RE1) Water Sampled: 01/23/03 08:10 Received: 01/24/03 11:55									HT-RE
Ethanol	ND	200	ug/l	5	3B20050	02/07/03	02/07/03	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	17	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Benzene	58	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	6.2	2.5	"	"	"	"	"	"	
Xylenes (total)	3.8	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	78-129	"	"	"	"	"	
MW-7 (MMA0600-07) Water Sampled: 01/23/03 08:35 Received: 01/24/03 11:55									
Ethanol	ND	40	ug/l	1	3B07022	02/06/03	02/06/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	78-129	"	"	"	"	"	



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URS Corporation
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Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

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02/27/03 17:43

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (MMA0600-08) Water Sampled: 01/23/03 08:45 Received: 01/24/03 11:55									
Ethanol	ND	40	ug/l	1	3B07022	02/06/03	02/06/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	2.6	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		88.6 %		78-129	"	"	"	"	
MW-11 (MMA0600-09) Water Sampled: 01/23/03 11:10 Received: 01/24/03 11:55									
Ethanol	ND	40	ug/l	1	3B07022	02/06/03	02/07/03	EPA 8260B	HT-04
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		89.8 %		78-129	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

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Reported:
02/27/03 17:43

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-13 (MMA0600-10) Water Sampled: 01/23/03 12:15 Received: 01/24/03 11:55									HT-04
Ethanol	ND	40	ug/l	1	3B20050	02/07/03	02/08/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	78-129	"	"	"	"	"	
MW-14 (MMA0600-11) Water Sampled: 01/23/03 10:00 Received: 01/24/03 11:55									
Ethanol	ND	40	ug/l	1	3B07022	02/06/03	02/06/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87.8 %	78-129	"	"	"	"	"	

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Reported:
02/27/03 17:43

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-15 (MMA0600-12) Water **Sampled: 01/23/03 12:36** **Received: 01/24/03 11:55**

Ethanol	ND	40	ug/l	1	3B07022	02/06/03	02/06/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	1.9	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 91.2 % 78-129 " " " "

MW-9 (MMA0600-13) Water **Sampled: 01/23/03 12:18** **Received: 01/24/03 11:55**

Ethanol	ND	40	ug/l	1	3B07022	02/06/03	02/06/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	2.2	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 87.4 % 78-129 " " " "



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Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (MMA0600-14) Water Sampled: 01/23/03 10:20 Received: 01/24/03 11:55									
Ethanol	ND	40	ug/l	1	3B07022	02/06/03	02/06/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	1.4	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		84.0 %	78-129		"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MMA0600-01) Water Sampled: 01/23/03 09:25 Received: 01/24/03 11:55									
Acenaphthene	ND	4.7	ug/l	1	3A28026	01/28/03	02/04/03	EPA 8270C	
Acenaphthylene	ND	4.7	"	"	"	"	"	"	
Anthracene	ND	4.7	"	"	"	"	"	"	
Benzoic acid	ND	9.5	"	"	"	"	"	"	
Benzo (a) anthracene	ND	4.7	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	4.7	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	4.7	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	9.5	"	"	"	"	"	"	
Benzo (a) pyrene	ND	4.7	"	"	"	"	"	"	
Benzyl alcohol	ND	9.5	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	4.7	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	9.5	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	4.7	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.5	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	4.7	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	4.7	"	"	"	"	"	"	
4-Chloroaniline	ND	4.7	"	"	"	"	"	"	
2-Chloronaphthalene	ND	4.7	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	4.7	"	"	"	"	"	"	
2-Chlorophenol	ND	4.7	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	9.5	"	"	"	"	"	"	
Chrysene	ND	4.7	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	4.7	"	"	"	"	"	"	
Dibenzofuran	ND	4.7	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	4.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	9.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	9.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	9.5	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	4.7	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	4.7	"	"	"	"	"	"	
Diethyl phthalate	ND	4.7	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	9.5	"	"	"	"	"	"	
Dimethyl phthalate	ND	4.7	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	4.7	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	9.5	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	4.7	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	4.7	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	4.7	"	"	"	"	"	"	
Fluoranthene	ND	4.7	"	"	"	"	"	"	
Fluorene	ND	4.7	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

MMA0600
Reported:
02/27/03 17:43

Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MMA0600-01) Water Sampled: 01/23/03 09:25 Received: 01/24/03 11:55									
Hexachlorobenzene	ND	4.7	ug/l	1	3A28026	01/28/03	02/04/03	EPA 8270C	
Hexachlorobutadiene	ND	9.5	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	9.5	"	"	"	"	"	"	
Hexachloroethane	ND	9.5	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	9.5	"	"	"	"	"	"	
Isophorone	ND	4.7	"	"	"	"	"	"	
2-Methylnaphthalene	250	47	"	10	"	"	02/12/03	"	
2-Methylphenol	ND	4.7	"	1	"	"	02/04/03	"	
4-Methylphenol	75	4.7	"	"	"	"	"	"	
Naphthalene	800	47	"	10	"	"	02/12/03	"	
2-Nitroaniline	ND	9.5	"	1	"	"	02/04/03	"	
3-Nitroaniline	ND	9.5	"	"	"	"	"	"	
4-Nitroaniline	ND	4.7	"	"	"	"	"	"	
Nitrobenzene	ND	4.7	"	"	"	"	"	"	
2-Nitrophenol	ND	4.7	"	"	"	"	"	"	
4-Nitrophenol	ND	9.5	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	9.5	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	4.7	"	"	"	"	"	"	
Pentachlorophenol	ND	9.5	"	"	"	"	"	"	
Phenanthrene	ND	4.7	"	"	"	"	"	"	
Phenol	ND	4.7	"	"	"	"	"	"	
Pyrene	ND	4.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	9.5	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	4.7	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	4.7	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		43.2 %		43-74	"	"	"	"	
Surrogate: Phenol-d6		30.0 %		24-52	"	"	"	"	
Surrogate: Nitrobenzene-d5		75.1 %		66-107	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		92.4 %		61-115	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		91.6 %		46-127	"	"	"	"	
Surrogate: p-Terphenyl-d14		98.3 %		63-121	"	"	"	"	



URS Corporation
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Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

MMA0600
Reported:
02/27/03 17:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3B07022 - EPA 5035

Blank (3B07022-BLK1)

Prepared & Analyzed: 02/06/03

Ethanol	ND	40	ug/l
tert-Butyl alcohol	ND	20	"
Methyl tert-butyl ether	ND	0.50	"
Di-isopropyl ether	ND	0.50	"
Ethyl tert-butyl ether	ND	0.50	"
tert-Amyl methyl ether	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,2-Dibromoethane (EDB)	ND	0.50	"
Benzene	ND	0.50	"
Toluene	ND	0.50	"
Ethylbenzene	ND	0.50	"
Xylenes (total)	ND	0.50	"
Gasoline Range Organics (C6-C10)	ND	50	"

Surrogate: 1,2-Dichloroethane-d4 4.00 " 5.00 80.0 78-129

Laboratory Control Sample (3B07022-BS1)

Prepared: 02/06/03 Analyzed: 02/07/03

Methyl tert-butyl ether	10.3	0.50	ug/l	10.0	103	63-137
Benzene	9.69	0.50	"	10.0	96.9	78-124
Toluene	10.0	0.50	"	10.0	100	78-129

Surrogate: 1,2-Dichloroethane-d4 4.56 " 5.00 91.2 78-129

Laboratory Control Sample (3B07022-BS2)

Prepared: 02/06/03 Analyzed: 02/07/03

Methyl tert-butyl ether	8.08	0.50	ug/l	9.04	89.4	63-137
Benzene	4.94	0.50	"	5.44	90.8	78-124
Toluene	30.8	0.50	"	32.8	93.9	78-129
Gasoline Range Organics (C6-C10)	498	50	"	440	113	70-113

Surrogate: 1,2-Dichloroethane-d4 4.26 " 5.00 85.2 78-129

Sequoia Analytical - Morgan Hill

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Reported:
02/27/03 17:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3B07022 - EPA 5035

Laboratory Control Sample Dup (3B07022-BSD1)				Prepared: 02/06/03		Analyzed: 02/07/03				
Methyl tert-butyl ether	10.1	0.50	ug/l	10.0		101	63-137	1.96	13	
Benzene	9.64	0.50	"	10.0		96.4	78-124	0.517	12	
Toluene	9.41	0.50	"	10.0		94.1	78-129	6.08	10	
Surrogate: 1,2-Dichloroethane-d4	4.41		"	5.00		88.2	78-129			

Laboratory Control Sample Dup (3B07022-BSD2)				Prepared: 02/06/03		Analyzed: 02/07/03				
Methyl tert-butyl ether	8.07	0.50	ug/l	9.04		89.3	63-137	0.124	13	
Benzene	5.12	0.50	"	5.44		94.1	78-124	3.58	12	
Toluene	30.9	0.50	"	32.8		94.2	78-129	0.324	10	
Gasoline Range Organics (C6-C10)	503	50	"	440		114	70-113	0.999	9	Q-LIM
Surrogate: 1,2-Dichloroethane-d4	4.25		"	5.00		85.0	78-129			

Batch 3B20050 - EPA 5035

Blank (3B20050-BLK1)				Prepared & Analyzed: 02/07/03						
Ethanol	ND	40	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	5.01		"	5.00		100	78-129			

Sequoia Analytical - Morgan Hill

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Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

MMA0600
Reported:
02/27/03 17:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3B20050 - EPA 5035										
Laboratory Control Sample (3B20050-BS1)				Prepared & Analyzed: 02/07/03						
Methyl tert-butyl ether	9.30	0.50	ug/l	10.0		93.0	63-137			
Benzene	9.27	0.50	"	10.0		92.7	78-124			
Toluene	10.0	0.50	"	10.0		100	78-129			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.39		"	5.00		87.8	78-129			
Laboratory Control Sample (3B20050-BS2)				Prepared & Analyzed: 02/07/03						
Methyl tert-butyl ether	7.42	0.50	ug/l	9.04		82.1	63-137			
Benzene	5.04	0.50	"	5.44		92.6	78-124			
Toluene	30.5	0.50	"	32.8		93.0	78-129			
Gasoline Range Organics (C6-C10)	476	50	"	440		108	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.23		"	5.00		84.6	78-129			
Laboratory Control Sample Dup (3B20050-BSD1)				Prepared & Analyzed: 02/07/03						
Methyl tert-butyl ether	9.27	0.50	ug/l	10.0		92.7	63-137	0.323	13	
Benzene	9.64	0.50	"	10.0		96.4	78-124	3.91	12	
Toluene	9.81	0.50	"	10.0		98.1	78-129	1.92	10	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.42		"	5.00		88.4	78-129			
Laboratory Control Sample Dup (3B20050-BSD2)				Prepared & Analyzed: 02/07/03						
Methyl tert-butyl ether	7.82	0.50	ug/l	9.04		86.5	63-137	5.25	13	
Benzene	4.90	0.50	"	5.44		90.1	78-124	2.82	12	
Toluene	30.0	0.50	"	32.8		91.5	78-129	1.65	10	
Gasoline Range Organics (C6-C10)	455	50	"	440		103	70-113	4.51	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.42		"	5.00		88.4	78-129			

Sequoia Analytical - Morgan Hill

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Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

MMA0600
Reported:
02/27/03 17:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3A28026 - EPA 3510C SepFunnel

Blank (3A28026-BLK1)

Prepared: 01/28/03 Analyzed: 02/04/03

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

Sequoia Analytical - Morgan Hill

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URS Corporation
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Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

MMA0600
Reported:
02/27/03 17:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3A28026 - EPA 3510C SepFunnel

Blank (3A28026-BLK1)

Prepared: 01/28/03 Analyzed: 02/04/03

2,6-Dinitrotoluene	ND	5.0	ug/l
Di-n-octyl phthalate	ND	5.0	"
Fluoranthene	ND	5.0	"
Fluorene	ND	5.0	"
Hexachlorobenzene	ND	5.0	"
Hexachlorobutadiene	ND	10	"
Hexachlorocyclopentadiene	ND	10	"
Hexachloroethane	ND	10	"
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	100	"
4-Nitroaniline	ND	50	"
Nitrobenzene	ND	5.0	"
2-Nitrophenol	ND	5.0	"
4-Nitrophenol	ND	10	"
N-Nitrosodiphenylamine	ND	10	"
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	10	"
2,4,5-Trichlorophenol	ND	5.0	"
2,4,6-Trichlorophenol	ND	5.0	"

Surrogate: 2-Fluorophenol	24.8	"	50.0	49.6	43-74
Surrogate: Phenol-d6	14.9	"	50.0	29.8	24-52
Surrogate: Nitrobenzene-d5	42.7	"	50.0	85.4	66-107
Surrogate: 2-Fluorobiphenyl	47.1	"	50.0	94.2	61-115
Surrogate: 2,4,6-Tribromophenol	46.3	"	50.0	92.6	46-127
Surrogate: p-Terphenyl-d14	44.1	"	50.0	88.2	63-121

Sequoia Analytical - Morgan Hill

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Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

MMA0600
Reported:
02/27/03 17:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3A28026 - EPA 3510C SepFunnel

Blank (3A28026-BLK1)

Prepared: 01/28/03 Analyzed: 02/04/03

Laboratory Control Sample (3A28026-BS1)

Prepared: 01/28/03 Analyzed: 02/04/03

Acenaphthene	45.3	5.0	ug/l	50.0		90.6	76-102			
4-Chloro-3-methylphenol	44.8	5.0	"	50.0		89.6	83-120			
2-Chlorophenol	41.5	5.0	"	50.0		83.0	70-102			
1,4-Dichlorobenzene	37.9	10	"	50.0		75.8	60-91			
2,4-Dinitrotoluene	49.9	5.0	"	50.0		99.8	80-104			
4-Nitrophenol	22.7	10	"	50.0		45.4	19-52			
N-Nitrosodi-n-propylamine	43.1	5.0	"	50.0		86.2	53-122			
Pentachlorophenol	47.1	10	"	50.0		94.2	59-111			
Phenol	16.8	5.0	"	50.0		33.6	30-53			
Pyrene	43.1	5.0	"	50.0		86.2	78-115			
1,2,4-Trichlorobenzene	41.4	10	"	50.0		82.8	70-100			

Surrogate: 2-Fluorophenol	24.9		"	50.0		49.8	43-74			
Surrogate: Phenol-d6	15.8		"	50.0		31.6	24-52			
Surrogate: Nitrobenzene-d5	41.7		"	50.0		83.4	66-107			
Surrogate: 2-Fluorobiphenyl	45.1		"	50.0		90.2	61-115			
Surrogate: 2,4,6-Tribromophenol	52.9		"	50.0		106	46-127			
Surrogate: p-Terphenyl-d14	40.5		"	50.0		81.0	63-121			

Laboratory Control Sample Dup (3A28026-BSD1)

Prepared: 01/28/03 Analyzed: 02/04/03

Acenaphthene	45.8	5.0	ug/l	50.0		91.6	76-102	1.10	21	
4-Chloro-3-methylphenol	45.5	5.0	"	50.0		91.0	83-120	1.55	19	
2-Chlorophenol	42.4	5.0	"	50.0		84.8	70-102	2.15	26	
1,4-Dichlorobenzene	38.0	10	"	50.0		76.0	60-91	0.264	21	
2,4-Dinitrotoluene	49.9	5.0	"	50.0		99.8	80-104	0.00	30	
4-Nitrophenol	22.9	10	"	50.0		45.8	19-52	0.877	30	
N-Nitrosodi-n-propylamine	44.0	5.0	"	50.0		88.0	53-122	2.07	30	
Pentachlorophenol	47.6	10	"	50.0		95.2	59-111	1.06	39	
Phenol	17.1	5.0	"	50.0		34.2	30-53	1.77	18	
Pyrene	44.7	5.0	"	50.0		89.4	78-115	3.64	15	
1,2,4-Trichlorobenzene	42.0	10	"	50.0		84.0	70-100	1.44	21	

Surrogate: 2-Fluorophenol	25.6		"	50.0		51.2	43-74			
Surrogate: Phenol-d6	16.3		"	50.0		32.6	24-52			

Sequoia Analytical - Morgan Hill

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URS Corporation
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Oakland CA, 94607

Project: ARCO #601, San Leandro, Ca
Project Number: ARCO #601, San Leandro, CA
Project Manager: Scott Robinson

MMA0600
Reported:
02/27/03 17:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3A28026 - EPA 3510C SepFunnel

Laboratory Control Sample Dup (3A28026-BSD1)

Prepared: 01/28/03 Analyzed: 02/04/03

Surrogate: Nitrobenzene-d5	43.1		ug/l	50.0		86.2	66-107			
Surrogate: 2-Fluorobiphenyl	46.2		"	50.0		92.4	61-115			
Surrogate: 2,4,6-Tribromophenol	53.8		"	50.0		108	46-127			
Surrogate: p-Terphenyl-d14	41.6		"	50.0		83.2	63-121			



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02/27/03 17:43

Notes and Definitions

HT-04 This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

HT-RE This sample was re-extracted beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.

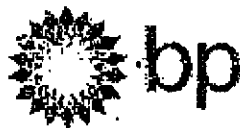
DET Analyte DETECTED

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



Chain of Custody Record

Page 1 of 3

Project Name

BP BU/GEM CO Portfolio:

MMA-0600

BP Laboratory Contract Number:

Date: 1/23/03

Requested Due Date (mm/dd/yy) Standard

On-site Time:

Temp:

Off-site Time:

Temp:

Sky Conditions:

Meteorological Events:

Wind Speed:

Direction:

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 712 Lewelling Blvd, San Leandro, CA	Address: 500 12th St., Ste. 200
Lab Address: 665 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. ARCO 601	Oakland, CA 94608-4014
	Site Lat/Long:	e-mail EDD: syed.rehan@urscorp.com
	California Global ID #: TD600100108	Consultant/Contractor Project No.: JS-00000601.01 00427
Lab PM: Latonya Pelt	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-1735/510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address:	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Send EOF Reports		Invoice to: Consultant/Contractor or (BP/GEM (if applicable))
BP/GEM Account No.:	Tele/Fax:	BP/GEM Work Release No: INTRIM -50677

Lab Bottle Order No:			Matrix			Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Soil/Solid	Water/Liquid	Sediments			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-G/HUX (8210)	TPH-D (8015)	MTBH (8021)	MTBH, YAM, ETRH DIP, TBA (8200)	1,2-DCA & HDB (8200)	Bathene (8210)	
1	MW-1	0925	X			4	6					X			X	X	X	
2	MW-2	1235	X			01	6					X			X	X	X	
3	MW-3	1255	X			03	6					X			X	X	X	
4	MW-4	0805	X			04	6					X			X	X	X	
5	MW-5	0940	X			05	6					X			X	X	X	
6	MW-6	0810	X			06	6					X			X	X	X	
7	MW-7	0835	X			07	6					X			X	X	X	
8	MW-8	0845	X			08	6					X			X	X	X	
9	MW-11	1110	X			09	6					X			X	X	X	
10	MW-13	1215	X			10	6					X			X	X	X	

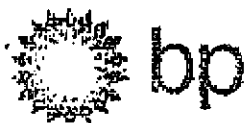
Sampler's Name: Brian Anderson	Relinquished By / Affiliation: [Signature]	Date: 1/24/03	Time: 1115	Accepted By / Affiliation: [Signature]	Date: 1/24/03	Time: 1115
Sampler's Company: Blawie Tech Services		1/24/03	1155	Chad Jensen	1/24/03	1155
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Seals in Place Yes No X Temperature Blank Yes No X Cooler Temperature on Receipt 91 °F() Trip Blank Yes No X

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

BP GOC Rev. 1 2/5/02



Chain of Custody Record

Page 2 of 3

Project Name

BP BU/GEM CO Portfolio:

BP Laboratory Contract Number:

Requested Due Date (mm/dd/yy) Standard

Date: 1/23/03

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

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 712 Lewelling Blvd. San Leandro, CA	Address: 500 12th St. Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. ARCO 601	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail EDD: syed.rehan@urscorp.com
	California Global ID #: T0600100108	Consultant/Contractor Project No.: JS-00000601.01 00427
Lab PM: Latonya Pelt	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-1735/510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address:	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Send EDP Reports	Tele/Fax:	Invoice to: Consultant/Contractor or BP/GEM (circle one)
BP/GEM Account No.:		BP/GEM Work Release No: INTRIM-30677

Lab Bottle Order No:			Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis							Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-O/BTEX (8015+8021+8260)	TPH-D (8015)	MTBE (8021)	MTBE, TAME, ETBE DPE, IBA (8260)	1,2-DCA & EDB (8260)	Stanol		
1 ✓	MW-14	1000	X				11	6			X			X	X	X	X			
2 ✓	MW-15	1236	X				12	6			X			X	X	X	X			
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

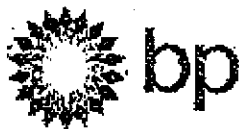
Sampler's Name: <u>Brian Aron / Ryan Hamstead</u>	Relinquished By / Affiliation:	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>BLAWIE TECH SERVICES</u>	<u>[Signature]</u>	<u>1/24/03</u>	<u>11:15</u>	<u>[Signature]</u>	<u>1/24/03</u>	<u>11:15</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Seals In Place Yes ___ No X Temperature Blank Yes ___ No X Cooler Temperature on Receipt 4.1 °C Trip Blank Yes ___ No X

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

BP CQC Rev. 1 1/95/02



Chain of Custody Record

Page 2 of 3

Project Name

BP BU/GEM CO Portfolio:

BP Laboratory Contract Number:

Date: 1/23/03

Requested Due Date (mm/dd/yy) Standard

On-site Time:

Temp:

Off-site Time:

Temp:

Sky Conditions:

Meteorological Events:

Wind Speed:

Direction:

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 712 Lowelling Blvd, San Leandro, CA	Address: 500 12th St, Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. ARCO 601	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail EDD: syed.rehan@urscorp.com
	California Global ID #: T0600100108	Consultant/Contractor Project No.: JS-00000601.01 00427
Lab PM: Latonya Pelt	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-1735/510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address:	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Send EDF Reports		Invoice to: Consultant/Contractor or BP/GEM (circle one)
BP/GEM Account No.:	Tele/Fax:	BP/GEM Work Release No: INTRM-30677

Lab Bottle Order No:			Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	THC/DTEX (8015) (8015) (8015)	TPH - D (8015)	MTBE (8021)	MTBE, TANH, HYBE DIPE, TBA (8060)	1,2-DCA & GUB (8060)	2,4-D (8060)	
1	MW-9	1218	X				13	6				X	X		X	X	X	X	
2	MW-10	1020	X				14	6				X	X		X	X	X	X	
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: Bruno Alvarez / Ryan Hanstedt	Relinquished By / Affiliation:	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: Bruno Alvarez Services		1/24/03	11:15		1/24/03	11:15
Shipment Date:		1/24/03	11:55			
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

By Seals In Place Yes No X Temperature Blank Yes No X Cooler Temperature on Receipt 7-1 °F/C Trip Blank Yes No X

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

BP CQC Rev. 1 2/02

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

AS

CLIENT NAME: URS
 REC. BY (PRINT) AS
 WORKORDER: MMAD600

DATE Received at Lab: 1-24-03
 TIME Received at Lab: 1:55
 LOG IN DATE: 1-25-03

Drinking water for
 regulatory purposes: YES ☒ NO ☐
 Wastewater for
 regulatory purposes: YES ☒ NO ☐

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / ☒ Absent Intact / Broken*	01		MW-1	(2) Lambers	L	1-23-03	Lot B 2275020
2. Chain-of-Custody	☒ Present / Absent*	02		MW-2	(6) Vials HCL			
3. Traffic Reports or Packing List:	Present / ☒ Absent	03		MW-3				
4. Airbill:	Airbill / Sticker Present / ☒ Absent	04		MW-4				
5. Airbill #:		05		MW-5				
6. Sample Labels:	☒ Present / Absent	06		MW-6				
7. Sample IDs:	☒ Listed / Not Listed on Chain-of-Custody	07		MW-7				
8. Sample Condition:	☒ Intact / Broken* / Leaking*	08		MW-8				
9. Does information on custody reports, traffic reports and sample labels agree?	☒ Yes / No*	09		MW-9				
10. Sample received within hold time:	☒ Yes / No*	10		MW-10				
11. Proper Preservatives used:	☒ Yes / No*	11		MW-11				
12. Temp Rec. at Lab: Is temp 4 +/- 2°C?	☒ Yes / No**	12		MW-12				
(Acceptance range for samples requiring thermal pres.)		13		MW-13				
**Exception (if any): Metals / DFF on ice? / DFF no ice? or Problem COC		14		MW-14				

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

ATTACHMENT C

HISTORIC GROUNDWATER DATA

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

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-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										
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										

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-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

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-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	710	<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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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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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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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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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	--	--	--	0.5	P
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	--	--	--	3.3	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	--	--	--	1.0	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	--	--	--	0.5	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	--	--	--	0.76	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	--	--	--	1.21	P
MW-10	10-28-99	21.33	8.73	ND	12.60	10-28-99	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	1.12	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	--	--	--	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										0.86
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

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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

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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	<3	--	--	--		
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

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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

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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
µg/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

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

02/28/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #601, San Leandro, C
Work Order Number:	MMA0600
Global ID:	T0600100108
Lab Report Number:	MMA0600022720031743

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MMA06000227200 MW-1 31743		MMA060001	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
MMA06000227200 MW-1 31743		MMA060001	W	CS	8270SIM	3510ARO	01/23/03	01/28/03	02/04/03	3A28026	1
MMA06000227200 MW-1 31743		MMA060001	W	CS	8270SIM	3510ARO	01/23/03	01/28/03	02/12/03	3A28026	2
MMA06000227200 MW-10 31743		MMA060014	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
MMA06000227200 MW-11 31743		MMA060009	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/07/03	3B07022	1
MMA06000227200 MW-13 31743		MMA060010	W	CS	8260+OX	SW5035	01/23/03	02/07/03	02/08/03	3B20050	1
MMA06000227200 MW-14 31743		MMA060011	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
MMA06000227200 MW-15 31743		MMA060012	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
MMA06000227200 MW-2 31743		MMA060002	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
MMA06000227200 MW-3 31743		MMA060003	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
MMA06000227200 MW-3 31743		MMA060003R1	W	CS	8260+OX	SW5035	01/23/03	02/07/03	02/07/03	3B20050	1
MMA06000227200 MW-4 31743		MMA060004	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
MMA06000227200 MW-5 31743		MMA060005	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
MMA06000227200 MW-6 31743		MMA060006	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
MMA06000227200 MW-6 31743		MMA060006R1	W	CS	8260+OX	SW5035	01/23/03	02/07/03	02/07/03	3B20050	1
MMA06000227200 MW-7 31743		MMA060007	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
MMA06000227200 MW-8 31743		MMA060008	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
MMA06000227200 MW-9 31743		MMA060013	W	CS	8260+OX	SW5035	01/23/03	02/06/03	02/06/03	3B07022	1
		3A28026BSD1	WQ	BD1	8270SIM	3510ARO	//	01/28/03	02/04/03	3A28026	1
		3A28026BS1	WQ	BS1	8270SIM	3510ARO	//	01/28/03	02/04/03	3A28026	1
		3A28026BLK1	WQ	LB1	8270SIM	3510ARO	//	01/28/03	02/04/03	3A28026	1

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
		3B07022BSD1	WQ	BD1	8260+OX	SW5035	//	02/06/03	02/07/03	3B07022	1	
		3B07022BSD2	WQ	BD2	8260+OX	SW5035	//	02/06/03	02/07/03	3B07022	1	
		3B07022BS1	WQ	BS1	8260+OX	SW5035	//	02/06/03	02/07/03	3B07022	1	
		3B07022BS2	WQ	BS2	8260+OX	SW5035	//	02/06/03	02/07/03	3B07022	1	
		3B07022BLK1	WQ	LB1	8260+OX	SW5035	//	02/06/03	02/06/03	3B07022	1	
		3B20050BSD1	WQ	BD1	8260+OX	SW5035	//	02/07/03	02/07/03	3B20050	1	
		3B20050BSD2	WQ	BD2	8260+OX	SW5035	//	02/07/03	02/07/03	3B20050	1	
		3B20050BS1	WQ	BS1	8260+OX	SW5035	//	02/07/03	02/07/03	3B20050	1	
		3B20050BS2	WQ	BS2	8260+OX	SW5035	//	02/07/03	02/07/03	3B20050	1	
		3B20050BLK1	WQ	LB1	8260+OX	SW5035	//	02/07/03	02/07/03	3B20050	1	

EDFSAMP: Error Summary Log

02/28/03

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

EDFTEST: Error Summary Log

02/28/03

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

EDFRES: Error Summary Log

02/28/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MMA060001	CS	W	8260+OX	PR	02/06/03	1	GROC6C10
Warning: extra parameter	MMA060001	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	MMA060002	CS	W	8260+OX	PR	02/06/03	1	GROC6C10
Warning: extra parameter	MMA060002	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	MMA060003	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	MMA060003R1	CS	W	8260+OX	PR	02/07/03	1	GROC6C10
Warning: extra parameter	MMA060004	CS	W	8260+OX	PR	02/06/03	1	GROC6C10
Warning: extra parameter	MMA060004	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	MMA060005	CS	W	8260+OX	PR	02/06/03	1	GROC6C10
Warning: extra parameter	MMA060005	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	MMA060006	CS	W	8260+OX	PR	02/06/03	1	GROC6C10
Warning: extra parameter	MMA060006	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	MMA060006R1	CS	W	8260+OX	PR	02/07/03	1	GROC6C10
Warning: extra parameter	MMA060006R1	CS	W	8260+OX	PR	02/07/03	1	XYLENES
Warning: extra parameter	MMA060007	CS	W	8260+OX	PR	02/06/03	1	GROC6C10
Warning: extra parameter	MMA060007	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	MMA060008	CS	W	8260+OX	PR	02/06/03	1	GROC6C10
Warning: extra parameter	MMA060008	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	MMA060009	CS	W	8260+OX	PR	02/07/03	1	GROC6C10
Warning: extra parameter	MMA060009	CS	W	8260+OX	PR	02/07/03	1	XYLENES
Warning: extra parameter	MMA060010	CS	W	8260+OX	PR	02/08/03	1	GROC6C10
Warning: extra parameter	MMA060010	CS	W	8260+OX	PR	02/08/03	1	XYLENES
Warning: extra parameter	MMA060011	CS	W	8260+OX	PR	02/06/03	1	GROC6C10
Warning: extra parameter	MMA060011	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	MMA060012	CS	W	8260+OX	PR	02/06/03	1	GROC6C10

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MMA060012	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	MMA060013	CS	W	8260+OX	PR	02/06/03	1	GROC6C10
Warning: extra parameter	MMA060013	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	MMA060014	CS	W	8260+OX	PR	02/06/03	1	GROC6C10
Warning: extra parameter	MMA060014	CS	W	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	3B07022BLK1	LB1	WQ	8260+OX	PR	02/06/03	1	GROC6C10
Warning: extra parameter	3B07022BLK1	LB1	WQ	8260+OX	PR	02/06/03	1	XYLENES
Warning: extra parameter	3B07022BS2	BS2	WQ	8260+OX	PR	02/07/03	1	GROC6C10
Warning: extra parameter	3B07022BSD2	BD2	WQ	8260+OX	PR	02/07/03	1	GROC6C10
Warning: extra parameter	3B20050BLK1	LB1	WQ	8260+OX	PR	02/07/03	1	GROC6C10
Warning: extra parameter	3B20050BLK1	LB1	WQ	8260+OX	PR	02/07/03	1	XYLENES
Warning: extra parameter	3B20050BS2	BS2	WQ	8260+OX	PR	02/07/03	1	GROC6C10
Warning: extra parameter	3B20050BSD2	BD2	WQ	8260+OX	PR	02/07/03	1	GROC6C10

EDFQC: Error Summary Log

02/28/03

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

02/28/03

Error type	Clevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	//				

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