



January 27, 2003

Mr. Amir Gholami,
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Alameda County
JAN 31 2003
Environmental Health

**Re: Second Quarter 2002 Groundwater Monitoring Report
ARCO Service Station #5387
20200 Hesperian Blvd
Hayward, California
URS Project #38486033**

Dear Mr. Gholami:

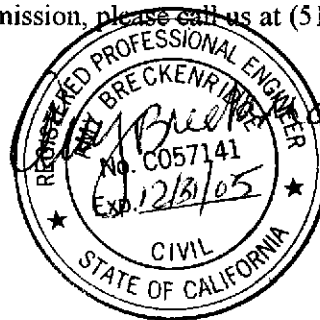
On behalf of Atlantic Richfield Company (ARCO – an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Second Quarter 2002 Groundwater Monitoring Report* at ARCO Service Station #5387, located at 20200 Hesperian Boulevard, Hayward, California.

If you have any questions regarding this submission, please call us at (510) 893-3600.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager



Amy P. Breckenridge, P.E.
Portfolio Manager

Enclosure: Second Quarter 2002 Quarterly Groundwater Monitoring Report
cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

URS Corporation
500 12th Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
Fax: 510.874.3268

R E P O R T

**SECOND QUARTER 2002
GROUNDWATER MONITORING**

ARCO SERVICE STATION #5387
2020 HESPERIAN BOULEVARD
HAYWARD, CALIFORNIA

Prepared for
Atlantic Richfield Company

January 27, 2003

URS

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

38486033



Date: January 27, 2003
Quarter: 2Q 02

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Former Facility No.: 5387 Address: 20200 Hesperian Boulevard, Hayward, California
ARCO Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486033
Primary Agency: ACHCSA

WORK PERFORMED THIS QUARTER (Second – 2002):

1. Site transferred from Delta Environmental Consultants, Inc.
2. Assumed groundwater monitoring activities for ARCO
3. Performed second quarter 2002 groundwater monitoring event.

WORK PROPOSED FOR NEXT QUARTER (Third – 2002):

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

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Wells MW-1 through MW-3, A-4 through A-10, AR-1 and AR-2 quarterly
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: No data available
Groundwater Gradient (direction): No data available
Groundwater Gradient (magnitude): No data available

DISCUSSION:

TPH-g was detected in two of the eleven wells sampled this quarter at concentrations of 160 micrograms per liter ($\mu\text{g/L}$) in well MW-1 and 1,300 $\mu\text{g/L}$ in well MW-2. Benzene was detected in two wells at concentrations of 1.5 $\mu\text{g/L}$ in well MW-1 and 18 $\mu\text{g/L}$ in well MW-2. MTBE was detected in six wells at concentrations ranging from 1.2 $\mu\text{g/L}$ in well A-5 to 770 $\mu\text{g/L}$ in well MW-1. No field sheets from the previous consultant were available for this report, therefore the depth to groundwater and groundwater gradient are unknown. This problem will be rectified next quarter when URS takes over sampling responsibilities.

ATTACHMENTS:

- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Summary of Groundwater Flow Direction and Gradient
- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – April 24, 2002
- Attachment A - Field Procedures
- Attachment B - Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C - EDCC and EDF/Geowell Submittal Confirmation

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #5387
20200 Hesperian Blvd.
Hayward, California

Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)			
AR-1	09/14/92	38.11	15.21	22.90	820	67	<1.0	8.8	6.7	---
	11/12/92		15.36	22.75	140	66	<0.5	4.3	3.7	---
	02/11/93		12.81	25.30	360	190	<2.5	8.6	<2.5	---
	04/14/93		11.77	26.34	420	240	5.2	30	8.7	---
	08/12/93		13.55	24.56	370	150	<2	11	<2	---
	10/26/93		13.98	24.13	240	98	<2	11	<2	---
	02/17/94	37.46	12.15	25.31	4,700	1,100	<10	140	26	---
	05/03/94		12.03	25.43	620	130	1.3	48	4.3	---
	08/17/94	37.33	12.92	24.41	3,600	630	<5	200	12	---
	11/18/94		12.41	24.92	12,100	720	6.1	337	15	---
	09/26/95	37.46	11.34	26.12	ND	8.3	ND	ND	ND	---
	12/06/95		11.87	25.59	120	20	ND	20	0.6	---
	02/14/96		10.48	26.98	ND	ND	ND	ND	0.52	---
	10/29/96		11.80	25.66	ND	ND	0.99	ND	ND	---
	01/29/97		11.25	26.21	<50	0.41	<0.3	<0.3	<0.3	<20
	04/30/97		12.24	25.22	<20	<0.3	<0.3	<0.3	<0.5	<50
	07/31/97		10.80	26.66	<50	<0.3	<0.3	<0.3	<0.5	<20
	10/22/97		11.90	25.56	<50	<0.3	<0.3	<0.3	<0.5	<20
	01/28/98		11.20	26.26	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/22/98		12.20	25.26	<50	<0.3	<0.3	<0.3	<0.5	<20
07/08/98		9.10	28.36	<50	<0.3	<0.3	<0.3	<0.5	<5	
10/22/98		9.80	27.66	270	2.1	<0.3	3.6	<0.5	190	
01/13/99		10.10	27.36	<50	<0.3	<0.3	<0.3	<0.5	<20	
04/29/99		11.35	26.11	<50	<0.3	<0.3	<0.3	<0.5	<5	
01/15/02		---	---	<50	<0.5	<0.5	<0.5	1.1	2.9	
04/24/02		---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.6*

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Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as					
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
AR-2	03/30/93	38.39	11.53	26.86	390	4.1	1.6	<0.5	47	--
	04/14/93		11.87	26.52	310	18	<0.5	0.67	36	--
	08/12/93		13.59	24.80	130	16	<0.5	1.7	0.57	--
	10/26/93		14.25	24.14	110	15	<0.5	1.8	<0.5	--
	02/17/94		12.76	25.22	130	2.9	<0.5	15	0.8	--
	05/03/94		12.60	25.38	<50	<0.5	<0.5	<0.5	<0.5	--
	08/17/94	38.18	13.86	24.32	3,000	140	140	220	91	--
	11/18/94		13.33	24.85	623	10.5	10.5	27.9	8.0	--
	09/26/95	37.98	11.67	26.31	ND	ND	ND	ND	ND	--
	12/06/95		12.32	25.66	320	12	12	23	2.1	--
	02/14/96		10.74	27.24	ND	ND	ND	ND	0.76	--
	10/29/96		11.95	26.03	ND	ND	ND	ND	ND	--
	01/29/97		11.35	26.63	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/30/97		12.15	25.83	<20	<0.3	<0.3	<0.3	<0.5	<50
	07/31/97		11.20	26.78	<50	<0.3	<0.3	<0.3	<0.5	<20
	10/22/97		12.14	25.84	<50	<0.3	<0.3	<0.3	<0.5	<20
	01/28/98		10.05	27.93	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/22/98		12.10	25.88	<50	<0.3	<0.3	<0.3	<0.5	<20
	07/08/98		9.50	28.48	<50	<0.3	<0.3	<0.3	<0.5	<5
	10/22/98		10.45	27.53	<50	<0.3	<0.3	<0.3	<0.5	<5
01/13/99		10.50	27.48	<50	<0.3	0.40	<0.3	0.53	<20	
04/29/99		11.48	26.50	<50	<0.3	<0.3	<0.3	0.82	<5	
01/15/02		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	17
04/24/02		--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	39*

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Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as						
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	
MW-1	08/08/86	38.36	11.25	27.11	7,040	132	8.7	439	230	--	
	12/24/91		16.12	22.24	2,200	190	8.5	6.9	2.6	---	
	03/10/92		13.34	25.02	2,800	270	29	56	39	---	
	06/09/92		14.12	24.24	2,900	960	27	99	63	---	
	09/14/92		15.34	23.02	2,600	450	<5.0	45	21	---	
	11/12/92		15.46	22.90	1,600	310	7.2	22	8.9	---	
	02/11/93		11.95	26.41	4,000	510	47	200	91	---	
	04/14/93		11.65	26.71	1,700	260	20	100	70	---	
	08/12/93		12.93	25.43	830	60	3.8	39	3.6	---	
	10/26/93		14.13	24.23	8,800	140	<10	41	<10	---	
	02/17/94	37.26	11.86	25.40	1,200	130	12	54	58	---	
	05/03/94		11.58	25.68	---	---	---	---	---	---	
	08/17/94	37.33	12.78	24.55	3,900	86	5.1	78	9.4	---	
	11/18/94		12.31	25.02	6,350	112	8.4	107	35	---	
	09/26/95	37.26	11.26	26.00	ND	ND	ND	ND	ND	---	
	12/06/95		12.16	25.10	4,100	0.86	0.46	0.38	0.92	---	
	02/14/96		8.53	28.73	ND	ND	0.56	ND	0.82	---	
	10/29/96		10.23	27.03	130	ND	ND	ND	ND	---	
	01/29/97		8.15	29.11	<50	<0.3	<0.3	<0.3	<0.5	<20	
	04/30/97		8.05	29.21	<20	<0.3	<0.3	<0.3	<0.5	<50	
	07/31/97		10.50	26.76	<50	<0.3	<0.3	<0.3	<0.5	<20	
	10/22/97		11.15	26.11	<50	<0.3	<0.3	<0.3	<0.5	<20	
	01/28/98		4.95	32.31	<50	<0.3	<0.3	<0.3	<0.5	<20	
	04/22/98		8.10	29.16	<50	<0.3	<0.3	<0.3	<0.5	<20	
	07/08/98		8.02	29.24	<50	<0.3	<0.3	<0.3	<0.5	40	
	10/22/98		9.70	27.56	230	0.43	1.9	0.99	0.99	33	
	01/13/99		9.60	27.66	<50	0.43	<0.3	<0.3	<0.5	<20	
	04/29/99		8.05	29.21	<50	<0.3	<0.3	<0.3	<0.5	^31/17	
	01/15/02		---	---	<50	<0.05	<0.5	<0.5	<0.5	21	
	04/24/02		---	---	---	160	1.5	ND<0.50	ND<0.50	ND<0.50	770*

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Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as						
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	
MW-2	08/08/86	38.58	11.82	26.96	1,910	20.1	2.8	1.8	---	---	
	12/24/91		16.50	22.08	23,000	1,500	1,100	480	1,400	---	
	03/10/92		13.50	25.08	210,000	44,000	3,900	1,700	5,800	---	
	06/09/92		14.52	24.06	33,000	2,300	370	780	2,600	---	
	09/14/92		15.78	22.80	16,000	3,700	10	470	1,000	---	
	11/12/92		15.98	22.60	16,000	3,800	86	470	910	---	
	02/11/93		12.27	26.31	27,000	3,500	720	1,600	380	---	
	04/14/93		12.01	26.57	27,000	3,500	220	2,200	5,100	---	
	08/12/93		13.81	24.77	16,000	1,600	27	1,300	1,200	---	
	10/26/93		14.53	24.05	12,000	1,200	<25	510	330	---	
	02/17/94		12.81	25.77	15,000	1,800	21	850	540	---	
	05/03/94			12.63	25.95	---	---	---	---	---	
	08/17/94		37.99	13.69	24.30	14,000	850	13	640	270	---
	11/18/94		38.06	13.18	24.88	14,900	640	3.4	532	156	---
	09/26/95		37.99	12.23	25.76	5,100	40	25	2.5	18	---
	12/06/95			12.82	25.17	810	34	23	11	11	---
	02/14/96			10.87	27.12	420	0.75	0.54	0.64	0.53	---
	10/29/96			12.95	25.04	670	1.7	1.3	0.6	0.8	---
	01/29/97			11.15	26.84	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/30/97			11.09	26.90	<20	<0.3	<0.3	<0.3	<0.5	<50
	07/31/97			11.70	26.29	330	<0.3	0.58	0.53	<0.5	<20
	10/22/97			11.05	26.94	<50	<0.3	<0.3	<0.3	<0.5	<20
	01/28/98			9.50	28.49	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/22/98			11.15	26.84	<50	<0.3	<0.3	<0.3	<0.5	<20
	07/08/98			10.20	27.79	78	<0.3	<0.3	<0.3	<0.5	97
	10/22/98			11.10	26.89	270	0.37	2.0	0.91	0.73	26
	01/13/99			11.10	26.89	650	5.8	1.0	1.4	1.1	<20
	04/29/99			11.05	26.94	<50	<0.3	<0.3	<0.3	<0.5	^23/16
	01/15/02			---	---	1,200	15	4.5	<0.5	<0.5	190
	04/24/02			---	---	1,300	18	ND<10	ND<10	ND<10	170*

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Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)				
MW-3	08/08/86	37.77	10.61	27.16	7,450	510	549	409	1,380	---	
	12/24/91		15.60	22.17	6,800	450	10	610	45	---	
	03/10/92		12.90	24.87	11,000	2,500	75	400	560	---	
	06/09/92		13.60	24.17	16,000	2,000	69	1,300	2,600	---	
	09/14/92		14.78	22.99	14,000	630	<50	1,500	2,400	---	
	11/12/92		14.92	22.85	7,400	400	<25	860	330	---	
	02/11/93		11.65	26.12	8,600	580	<20	710	300	---	
	04/14/93		11.16	26.61	6,900	300	8.8	580	99	---	
	08/12/93		12.82	24.95	3,400	56	<5	190	<5	---	
	10/26/93		13.60	24.17	2,900	42	<10	76	<10	---	
	02/17/94	36.80	11.53	25.27	3,100	160	<10	36	8.6	---	
	05/03/94		11.36	25.44	2,300	44	<2.5	8.0	<2.5	---	
	08/17/94	36.87	12.38	24.49	1,900	7.0	<9.5	4.4	<5	---	
	11/18/94		11.93	24.94	909	1.1	<0.5	0.9	4.0	---	
	09/26/95	36.80	10.96	25.84	410	1.3	1.9	2.3	3.3	---	
	12/06/95		11.56	25.24	---	0.9	4.6	3.0	4.3	---	
	02/14/96		7.47	29.33	99	ND	0.49	0.46	ND	---	
	10/29/96		9.80	27.00	250	0.7	0.6	ND	ND	---	
	01/29/97		7.50	29.30	170	<0.3	<0.3	<0.3	<0.5	<20	
	04/30/97		12.10	24.70	<20	<0.3	<0.3	<0.3	<0.5	<50	
	07/31/97		9.90	26.90	<50	<0.3	<0.3	<0.3	<0.5	<20	
	10/22/97		12.10	24.70	<50	<0.3	<0.3	<0.3	<0.5	<20	
	01/28/98		7.50	29.30	<50	<0.3	<0.3	<0.3	<0.5	<20	
	04/22/98		12.30	24.50	<50	<0.3	<0.3	<0.3	<0.5	<20	
	07/08/98		8.30	28.50	<50	<0.3	<0.3	<0.3	<0.5	<5	
	10/22/98		9.10	27.70	<50	<0.3	<0.3	<0.3	<0.5	<5	
	01/13/99		9.50	27.30	<50	<0.3	<0.3	<0.3	<0.5	<20	
	04/29/99		5.93	30.87	<50	<0.3	0.35	<0.3	<0.5	<5	
	01/15/02		---	---	<50	<0.5	<0.5	<0.5	<0.5	7.9	
	04/24/02		---	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50*

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #5387
20200 Hesperian Blvd.
Hayward, California

Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)			
A-4	03/06/91	39.46	13.22	26.24	34,000	11,000	870	2,500	2,100	---
	12/24/91	39.86	17.60	22.26	1,900	29	1.9	25	29	---
	03/10/92		14.76	25.10	7,400	37	<0.60	11	73	---
	06/09/92		15.63	24.23	4,500	3.2	1.5	37	16	---
	09/14/92		16.83	23.03	1,300	<2.5	2.5	61	6.8	---
	11/12/92		16.97	22.89	610	7.2	0.98	34	0.97	---
	02/11/93		13.43	26.43	740	2.4	<0.5	5.0	3.5	---
	04/14/93		13.06	26.80	380	<0.5	<0.5	10	1.6	---
	08/12/93		14.94	24.92	1,200	0.93	<0.5	0.91	<0.5	---
	10/26/93		15.52	24.34	160	<0.5	<0.5	1.0	<0.5	---
	02/17/94	39.46	14.02	25.44	320	0.5	<0.5	28	0.9	---
	05/03/94		13.85	25.61	130	<0.5	<0.5	1.1	<0.5	---
	08/17/94	39.53	14.95	39.53	62	34.58	<0.5	<0.5	<0.5	---
	11/18/94		14.46	25.07	98	1.3	0.6	<0.5	<0.5	---
	12/06/95		13.82	25.71	ND	0.6	ND	ND	ND	---
	02/14/96		11.24	28.29	ND	ND	2.3	ND	0.71	---
	10/29/96		13.50	26.03	140	ND	ND	ND	ND	---
	01/29/97		12.65	26.88	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/30/97		13.97	25.56	<20	<0.3	<0.3	<0.3	<0.5	<50
	07/31/97		12.70	26.83	<50	<0.3	<0.3	<0.3	<0.5	<20
	10/22/97		13.95	25.58	<50	<0.3	<0.3	<0.3	<0.5	<20
	01/28/98		11.90	27.63	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/22/98		13.92	25.61	<50	<0.3	<0.3	<0.3	<0.5	<20
	07/08/98		10.80	28.73	<50	<0.3	<0.3	<0.3	<0.5	<5
	10/22/98		12.60	26.93	<50	<0.3	<0.3	<0.3	<0.5	<5
	01/13/99		12.60	26.93	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/29/99		12.61	26.92	<50	<0.3	<0.3	<0.3	<0.5	<5
01/15/02		---	---	---	<50	<0.5	<0.5	<0.5	6.2	
04/24/02		---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50*

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #5387
20200 Hesperian Blvd.
Hayward, California

Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as		Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
					Gasoline (µg/L)	Benzene (µg/L)				
A-5	12/24/91	38.94	16.85	22.09	1,600	21	<0.30	32	52	---
	03/10/92		13.83	25.11	1,000	1.6	<0.30	43	100	---
	06/09/92		14.91	24.03	680	34	<1.5	14	16	---
	09/14/92		16.14	22.80	770	12	<0.30	51	65	---
	11/12/92		16.35	22.59	520	3.0	<2.5	29	36	---
	02/11/93		13.21	25.73	150	1.6	0.96	5.1	1.5	---
	04/14/93		12.97	25.97	190	5.4	<0.5	1.5	0.97	---
	08/12/93		14.12	24.82	230	1.7	<0.5	5.3	0.94	---
	10/26/93		14.72	24.22	190	2.8	<0.5	5.5	2.0	---
	02/17/94	38.47	13.20	25.27	340	<0.5	<0.5	13	2.9	---
	05/03/94		13.08	25.39	170	1.4	<0.5	4.0	1.9	---
	08/17/94	38.54	14.18	24.36	270	0.6	<0.5	7.3	1.1	---
	11/18/94		13.73	24.81	338	---	<0.5	4.6	<0.5	---
	09/26/95	38.47	12.44	26.03	ND	0.63	1.1	ND	1.2	---
	12/06/95		12.92	25.55	ND	ND	ND	ND	ND	---
	02/14/96		10.76	27.71	ND	ND	2.0	ND	1.1	---
	10/29/96		12.35	26.12	ND	ND	ND	ND	ND	---
	01/29/97		10.85	27.62	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/30/97		13.56	24.91	<20	<0.3	<0.3	<0.3	<0.5	<50
	07/31/97		11.80	26.67	<50	<0.3	<0.3	<0.3	<0.5	<20
	10/22/97		12.20	26.27	<50	<0.3	<0.3	<0.3	<0.5	<20
	01/28/98		10.12	28.35	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/22/98		13.50	24.97	<50	<0.3	<0.3	<0.3	<0.5	<20
	07/08/98		10.20	28.27	<50	<0.3	<0.3	<0.3	<0.5	<5
	10/22/98		11.50	26.97	<50	<0.3	<0.3	<0.3	<0.5	<5
	01/13/99		10.15	28.32	<50	0.32	0.38	<0.3	<0.5	<20
	04/29/99		11.50	26.97	<50	<0.3	<0.3	<0.3	0.58	<5
	01/15/02		---	---	<50	<0.5	<0.5	<0.5	<0.5	5.0
	04/24/02		---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.2*

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #5387
20200 Hesperian Blvd.
Hayward, California

Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as		Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	
					Gasoline (µg/L)	Benzene (µg/L)					
A-6	12/24/91	39.07	16.88	22.19	<30	<0.3	<0.3	<0.3	<0.3	---	
	03/10/92		13.73	25.34	<30	<0.3	<0.3	<0.3	<0.3	---	
	06/09/92		14.95	24.12	<30	<0.3	<0.3	<0.3	<0.3	---	
	09/14/92		16.20	22.87	<50	<0.5	<0.5	<0.5	<0.5	---	
	11/12/92		16.35	22.72	<50	<0.5	<0.5	<0.5	<0.5	---	
	02/11/93		13.04	26.03	<50	<0.5	<0.5	<0.5	<0.5	---	
	04/14/93		12.23	26.84	<50	<0.5	<0.5	<0.5	<0.5	---	
	08/12/93		14.18	24.89	<50	<0.5	<0.5	<0.5	<0.5	---	
	10/26/93		14.85	24.22	<50	<0.5	<0.5	<0.5	<0.5	---	
	05/03/94		13.66	25.41	<50	<0.5	<0.5	<0.5	<0.5	---	
	08/17/94		38.78	14.34	24.44	<50	<0.5	<0.5	<0.5	<0.5	---
	11/18/94			13.76	25.02	<50	<0.5	<0.5	<0.5	<0.5	---
	09/26/95			12.56	26.22	ND	ND	ND	ND	ND	---
	12/06/95			13.18	25.60	ND	ND	ND	ND	ND	---
	02/14/96			12.46	26.32	ND	ND	ND	ND	ND	---
	10/29/96	12.40		26.38	50	ND	ND	ND	ND	---	
	01/29/97	13.85		24.93	<50	<0.3	<0.3	<0.3	<0.5	<20	
	04/30/97	12.49		26.29	<20	<0.3	<0.3	<0.3	<0.5	<50	
	07/31/97	12.10		26.68	<50	<0.3	<0.3	<0.3	<0.5	<20	
	10/22/97	15.20		23.58	<50	<0.3	<0.3	<0.3	<0.5	<20	
	01/28/98	13.80		24.98	<50	<0.3	<0.3	<0.3	<0.5	<20	
	04/22/98	12.45		26.33	<50	<0.3	<0.3	<0.3	<0.5	<20	
	07/08/98	10.30	28.48	<50	<0.3	<0.3	<0.3	<0.5	<5		
	10/22/98	11.10	27.68	<50	<0.3	<0.3	<0.3	<0.5	<5		
	01/13/99	10.40	28.38	<50	<0.3	<0.3	<0.3	<0.5	<20		
	04/29/99	13.80	24.98	<50	<0.3	<0.3	<0.3	<0.5	<5		
	01/15/02	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	5.7	
04/24/02	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50*		

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #5387
20200 Hesperian Blvd.
Hayward, California

Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as					
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
A-7	12/24/91	39.95	18.11	21.84	10,000	88	16	170	610	---
	03/10/92		15.30	24.65	320	9.3	0.54	8.8	34	---
	06/09/92		16.12	23.83	340	11	1.1	8.9	26	---
	09/14/92		17.35	22.60	510	12	<2.0	30	51	---
	11/12/92		17.47	22.48	760	17	0.83	50	73	---
	02/11/93		13.80	26.15	260	20	1.0	11	21	---
	04/14/93		13.60	26.35	1,300	89	2.1	48	87	---
	08/12/93		15.54	24.41	360	9.0	<0.50	13	9.0	---
	10/26/93		16.28	23.67	99	1.7	<0.50	4.0	3.0	---
	02/17/94	39.38	14.44	24.94	1,300	38	<1	35	25	---
	05/03/94		14.34	25.04	330	8.1	<0.5	7.8	3.7	---
	08/17/94	39.45	15.40	24.05	350	2.2	<0.5	9.6	3.6	---
	11/18/94		14.95	24.50	412	1.3	<0.5	6.2	2	---
	09/26/95	39.38	13.92	25.46	ND	ND	ND	ND	ND	---
	12/06/95		14.42	24.96	ND	ND	ND	ND	ND	---
	02/14/96		12.38	27.00	ND	ND	1.1	ND	0.59	---
	10/29/96		12.33	27.05	ND	ND	ND	ND	ND	---
	01/29/97		13.10	26.28	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/30/97		11.70	27.68	<20	<0.3	<0.3	<0.3	<0.5	<50
	07/31/97		13.25	26.13	<50	<0.3	<0.3	<0.3	<0.5	<20
	10/22/97		14.42	24.96	<50	<0.3	<0.3	<0.3	<0.5	<20
	01/28/98		13.00	26.38	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/22/98		11.65	27.73	<50	<0.3	<0.3	<0.3	<0.5	<20
	07/08/98		11.20	28.18	<50	<0.3	<0.3	<0.3	<0.5	<5
	10/22/98		13.75	25.63	51	<0.3	<0.3	<0.3	<0.5	<5
	01/13/99		14.45	24.93	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/29/99		13.74	25.64	<50	<0.3	<0.3	<0.3	<0.5	<5
	01/15/02		---	---	<50	<0.5	<0.5	<0.5	<0.5	4.8
	04/24/02		---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.2*

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #5387
20200 Hesperian Blvd.
Hayward, California

Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)				
A-8	09/14/92	37.23	14.19	23.04	<50	<0.5	<0.5	<0.5	<0.5	---	
	11/12/92		14.35	22.88	<50	<0.5	<0.5	<0.5	<0.5	---	
	02/11/93		11.25	25.98	<50	<0.5	<0.5	<0.5	<0.5	---	
	04/14/93		12.33	24.90	<50	<0.5	<0.5	<0.5	<0.5	---	
	08/12/93		12.41	24.82	<50	<0.5	<0.5	<0.5	<0.5	---	
	10/26/93		13.02	24.21	<50	<0.5	<0.5	<0.5	<0.5	---	
	02/17/94	36.76	11.47	25.29	<50	<0.5	<0.5	<0.5	<0.5	---	
	05/03/94		11.35	25.41	<50	<0.5	<0.5	<0.5	<0.5	---	
	08/17/94	36.84	12.34	24.50	<50	<0.5	1.7	<0.5	1.4	---	
	11/18/94		11.90	24.94	<50	1.0	<0.5	<0.5	<0.5	---	
	09/26/95	36.76	10.94	25.82	ND	ND	ND	ND	ND	---	
	12/06/95		11.42	25.34	ND	ND	ND	ND	ND	---	
	02/14/96		8.80	27.96	ND	ND	0.48	ND	ND	---	
	10/29/96		11.30	25.46	200	ND	ND	ND	ND	---	
	01/29/97		7.60	29.16	<50	<0.3	<0.3	<0.3	<0.5	<20	
	04/30/97		10.54	26.22	<20	<0.3	<0.3	<0.3	<0.5	<50	
	07/31/97		11.20	25.56	<50	<0.3	<0.3	<0.3	<0.5	<20	
	10/22/97		12.14	24.62	<50	<0.3	<0.3	<0.3	<0.5	<20	
	01/28/98		4.43	32.33	<50	<0.3	<0.3	<0.3	<0.5	<20	
	04/22/98		10.55	26.21	<50	<0.3	<0.3	<0.3	<0.5	<20	
	07/08/98		9.07	27.69	<50	<0.3	<0.3	<0.3	<0.5	<5	
	10/22/98		12.12	24.64	<50	<0.3	<0.3	<0.3	<0.5	<5	
	01/13/99		9.60	27.16	<50	<0.3	<0.3	<0.3	<0.5	<20	
	04/29/99		9.08	27.68	<50	<0.3	<0.3	<0.3	1.5	<5	
	01/15/02		---	---	---	<50	<0.5	<0.5	<0.5	<0.5	5.6
	04/24/02		---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50*

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #5387
20200 Hesperian Blvd.
Hayward, California

Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as					MTBE (µg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	
A-9	09/14/92	38.71	16.12	22.59	<50	<0.5	<0.5	<0.5	<0.5	---
	11/12/92		16.29	22.42	<50	<0.5	<0.5	<0.5	<0.5	---
	02/11/93		12.31	26.40	<50	<0.5	<0.5	<0.5	<0.5	---
	04/14/93		12.01	26.70	<50	<0.5	<0.5	<0.5	<0.5	---
	08/12/93		13.90	24.81	<50	<0.5	<0.5	<0.5	<0.5	---
	10/26/93		14.86	23.85	<50	<0.5	<0.5	<0.5	<0.5	---
	02/17/94	38.19	12.99	25.20	<50	<0.5	<0.5	<0.5	<0.5	---
	08/17/94		14.03	24.16	<50	<0.5	<0.5	<0.5	<0.5	---
	11/18/94	37.24	13.44	23.80	<50	<0.5	<0.5	<0.5	<0.5	---
	09/26/95		12.43	25.81	ND	<0.5	ND	ND	ND	---
	12/06/95	38.19	13.14	25.05	ND	<0.5	ND	ND	ND	---
	02/14/96		9.05	29.14	ND	ND	1.8	0.49	0.82	---
	10/29/96		12.85	25.34	ND	ND	ND	ND	ND	---
	01/29/97		9.02	29.17	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/30/97		12.05	26.14	<20	<0.3	<0.3	<0.3	<0.5	<50
	07/31/97		12.18	26.01	<50	<0.3	<0.3	<0.3	<0.5	<20
	10/22/97		7.45	30.74	<50	<0.3	<0.3	<0.3	<0.5	<20
	01/28/98		21.25	16.94	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/22/98		12.10	26.09	<50	<0.3	<0.3	<0.3	<0.5	<20
	07/08/98		10.40	27.79	<50	<0.3	<0.3	<0.3	<0.5	<5
	10/22/98		1.55	24.64	<50	<0.3	<0.3	<0.3	<0.5	<5
	01/13/99		12.05	26.14	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/29/99		7.43	30.76	<50	<0.3	<0.3	<0.3	<0.5	<5
	01/15/02		---	---	<50	<0.5	<0.5	<0.5	<0.5	4.3
	04/24/02		---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50*

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station #5387
20200 Hesperian Blvd.
Hayward, California

Well Number	Date Sampled	Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as					
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
A-10	12/07/92	38.94	16.81	22.13	660	30	<2.5	<2.5	<2.5	---
	02/11/93		13.15	25.79	210	<0.5	0.97	<0.5	<0.5	---
	04/14/93		12.19	26.75	770	<0.5	3.0	0.76	1.9	---
	08/12/93		14.87	24.07	390	<0.5	<0.5	<0.5	0.84	---
	10/26/93		15.65	23.29	290	<0.5	<0.5	<0.5	<0.5	---
	02/17/94	38.66	14.16	24.50	52	<0.5	<0.5	<0.5	<0.5	---
	05/03/94		14.00	24.66	<50	<0.5	<0.5	<0.5	<0.5	---
	08/17/94	38.72	15.08	23.64	<50	<0.5	<0.5	<0.5	<0.5	---
	11/18/94		14.68	24.04	<50	<0.5	<0.5	<0.5	<0.5	---
	09/26/95	38.66	13.58	25.08	ND	ND	ND	ND	ND	---
	12/06/95		14.24	24.42	ND	ND	ND	ND	ND	---
	02/14/96		6.70	31.96	ND	ND	ND	ND	ND	---
	10/29/96		14.10	24.56	ND	ND	ND	ND	1.1	---
	01/29/97		11.20	24.46	<50	0.41	4.8	0.6	4.4	37
	04/30/97		12.66	26.00	<20	0.40	4.2	0.5	3.8	50
	07/31/97		13.20	25.46	<50	<0.3	<0.3	<0.3	<0.5	<20
	04/22/98		12.60	26.06	<50	<0.3	<0.3	<0.3	<0.5	<20
	07/08/98		8.08	30.58	<50	<0.3	<0.3	<0.3	<0.5	<5
	10/22/98		11.15	27.51	<50	<0.3	<0.3	<0.3	<0.5	<5
	01/13/99		9.60	29.06	<50	<0.3	<0.3	<0.3	<0.5	<20
04/29/99		11.15	27.51	<50	<0.3	<0.3	<0.3	<0.5	<5	
01/15/02		---	---	<50	<0.5	<0.5	<0.5	<0.5	17	
04/24/02			NM	NM	NS	NS	NS	NS	NS	

TPH = Total Petroleum Hydrocarbons

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

ND = Nondetectable

NM = Not Measured

NS = Not Sampled

* --- * = Not analyzed/Not available

µg/L = Micrograms per liter

a = well inaccessible

* = Analyzed by EPA Method 8260B.

Note:

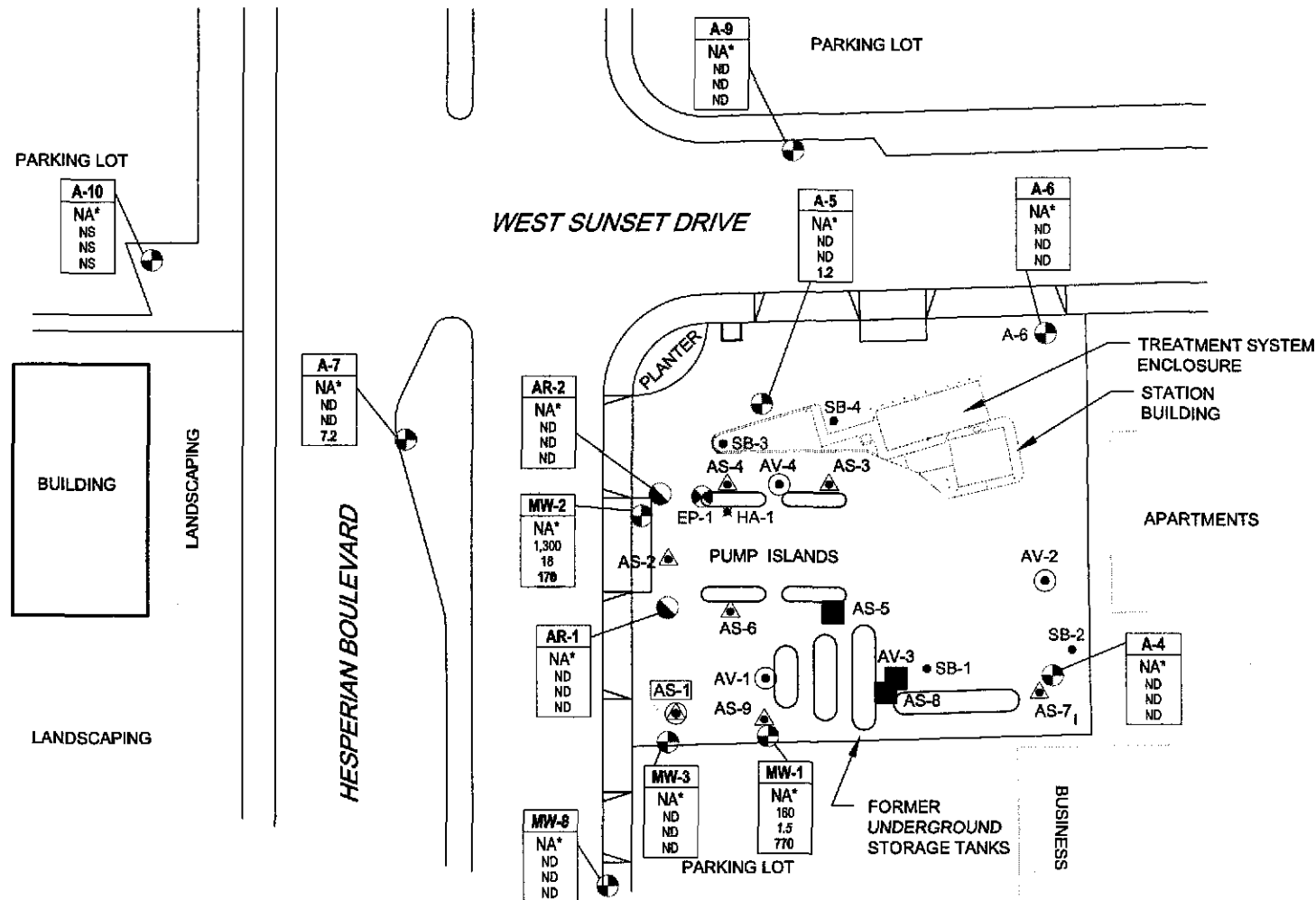
The data within this table was provided to URS by Group Environmental Management and its previous consultants. URS has not verified the accuracy of this data.

Table 2
Groundwater Flow Direction and Gradient

ARCO Service Station 5387
20200 Hesperian Blvd
Hayward, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
4/24/2002*	-	-

* No data was available to calculate groundwater flow direction



LEGEND:

- A-4 ABANDONED MONITORING WELL LOCATION
- A-4 MONITORING WELL LOCATION
- ⊙ AR-1 GROUNDWATER EXTRACTION WELL LOCATION
- ⊙ AV-1 SOIL VAPOR EXTRACTION WELL LOCATION
- ⊙ AS-2 AIR SPARGE WELL LOCATION
- ⊙ AS-1 DUAL AIR SPARGE/SOIL VAPOR EXTRACTION WELL LOCATION
- ⊙ HA-1 AIR SPARGE WELL LOCATION
- ⊙ SB-3 DUAL AIR SPARGE/SOIL VAPOR EXTRACTION WELL LOCATION
- ⊙ EP-1 EXTRACTION POINT

Well	WELL DESIGNATION
ELEV	GROUNDWATER ELEVATION
TPH-g	CONCENTRATIONS OF TPH-g, BENZENE AND MTBE IN MICROGRAMS PER LITER (µg/L)
Benzene	
MTBE	
*	NO GROUNDWATER ELEVATION DATA AVAILABLE
NA	NOT AVAILABLE
ND	NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
NS	NOT SAMPLED



0 50 100

SCALE IN FEET

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

URS	Project No. 38486033	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP	FIGURE 1
	Arco Service Station 5387 20200 Hesperian Boulevard Hayward, California		

ATTACHMENT A
FIELD PROCEDURES

FIELD PROCEDURES

Sampling Procedures

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

ATTACHMENT A
FIELD PROCEDURES

FIELD PROCEDURES

Sampling Procedures

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

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

LABORATORY PROCEDURES

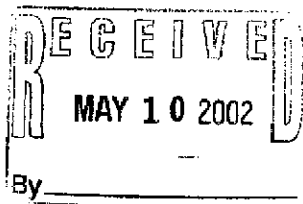
Laboratory Procedures

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**

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



May 08 , 2002

Steven Meeks
Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670
RE: Arco 5387, Hayward, CA / S204396

Enclosed are the results of analyses for samples received by the laboratory on 04/24/02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Client Services Representative

Lito Diaz
Laboratory Director

CA ELAP Certificate Number 1624





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

Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
05/08/02 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	S204396-01	Water	04/23/02 09:33	04/24/02 12:00
MW-2	S204396-02	Water	04/23/02 12:04	04/24/02 12:00
MW-3	S204396-03	Water	04/23/02 09:48	04/24/02 12:00
A-4	S204396-04	Water	04/23/02 09:20	04/24/02 12:00
A-5	S204396-05	Water	04/23/02 10:53	04/24/02 12:00
A-6	S204396-06	Water	04/23/02 11:09	04/24/02 12:00
A-7	S204396-07	Water	04/23/02 11:42	04/24/02 12:00
A-8	S204396-08	Water	04/23/02 11:53	04/24/02 12:00
A-9	S204396-09	Water	04/23/02 11:20	04/24/02 12:00
AR-1	S204396-10	Water	04/23/02 10:10	04/24/02 12:00
AR-2	S204396-11	Water	04/23/02 10:40	04/24/02 12:00
TB	S204396-12	Water	04/23/02 06:00	04/24/02 12:00





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

Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
05/08/02 15:28

**Total Purgeable Hydrocarbons and BTEX by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-1 (S204396-01) Water Sampled: 04/23/02 09:33 Received: 04/24/02 12:00										
Purgeable Hydrocarbons	160	50		ug/l	1	2050040	05/03/02	05/03/02	DHS LUFT	HC-12
Benzene	1.5	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		104 %		60-140		"	"	"	"	
MW-2 (S204396-02) Water Sampled: 04/23/02 12:04 Received: 04/24/02 12:00										
Purgeable Hydrocarbons	1300	1000		ug/l	20	2050040	05/03/02	05/03/02	DHS LUFT	HC-12
Benzene	18	10		"	"	"	"	"	"	
Toluene	ND	10		"	"	"	"	"	"	
Ethylbenzene	ND	10		"	"	"	"	"	"	
Xylenes (total)	ND	10		"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		102 %		60-140		"	"	"	"	
MW-3 (S204396-03) Water Sampled: 04/23/02 09:48 Received: 04/24/02 12:00										
Purgeable Hydrocarbons	ND	50		ug/l	1	2050040	05/03/02	05/03/02	DHS LUFT	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %		60-140		"	"	"	"	
A-4 (S204396-04) Water Sampled: 04/23/02 09:20 Received: 04/24/02 12:00										
Purgeable Hydrocarbons	ND	50		ug/l	1	2050042	05/03/02	05/03/02	DHS LUFT	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		90 %		60-140		"	"	"	"	





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

Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Mecks

Reported:
05/08/02 15:28

**Total Purgeable Hydrocarbons and BTEX by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A-5 (S204396-05) Water Sampled: 04/23/02 10:53 Received: 04/24/02 12:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	2050042	05/03/02	05/03/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96 %	60-140		"	"	"	"	
A-6 (S204396-06) Water Sampled: 04/23/02 11:09 Received: 04/24/02 12:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	2050070	05/06/02	05/06/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99 %	60-140		"	"	"	"	
A-7 (S204396-07) Water Sampled: 04/23/02 11:42 Received: 04/24/02 12:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	2050070	05/06/02	05/06/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94 %	60-140		"	"	"	"	
A-8 (S204396-08) Water Sampled: 04/23/02 11:53 Received: 04/24/02 12:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	2050070	05/06/02	05/06/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		100 %	60-140		"	"	"	"	





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

Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
05/08/02 15:28

**Total Purgeable Hydrocarbons and BTEX by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
A-9 (S204396-09) Water Sampled: 04/23/02 11:20 Received: 04/24/02 12:00										
Purgeable Hydrocarbons	ND	50		ug/l	1	2050070	05/06/02	05/06/02	DHS LUFT	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98 %		60-140		"	"	"	"	
AR-1 (S204396-10) Water Sampled: 04/23/02 10:10 Received: 04/24/02 12:00										
Purgeable Hydrocarbons	ND	50		ug/l	1	2050070	05/06/02	05/06/02	DHS LUFT	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93 %		60-140		"	"	"	"	
AR-2 (S204396-11) Water Sampled: 04/23/02 10:40 Received: 04/24/02 12:00										
Purgeable Hydrocarbons	ND	50		ug/l	1	2050070	05/06/02	05/06/02	DHS LUFT	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98 %		60-140		"	"	"	"	
TB (S204396-12) Water Sampled: 04/23/02 06:00 Received: 04/24/02 12:00										
Purgeable Hydrocarbons	ND	50		ug/l	1	2050077	05/07/02	05/07/02	DHS LUFT	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	0.90	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	0.77	0.50		"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		90 %		60-140		"	"	"	"	





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

Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
05/08/02 15:28

**MTBE by EPA Method 8260B
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-1 (S204396-01) Water Sampled: 04/23/02 09:33 Received: 04/24/02 12:00 A-01										
Methyl tert-butyl ether	770	25		ug/l	50	2040360	05/02/02	05/02/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		98 %		60-140		"	"	"	"	
MW-2 (S204396-02) Water Sampled: 04/23/02 12:04 Received: 04/24/02 12:00 A-01a										
Methyl tert-butyl ether	170	25		ug/l	50	2040274	04/24/02	04/24/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		103 %		60-140		"	"	"	"	
MW-3 (S204396-03) Water Sampled: 04/23/02 09:48 Received: 04/24/02 12:00										
Methyl tert-butyl ether	ND	0.50		ug/l	1	2040274	04/24/02	04/24/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		104 %		60-140		"	"	"	"	
A-4 (S204396-04) Water Sampled: 04/23/02 09:20 Received: 04/24/02 12:00										
Methyl tert-butyl ether	ND	0.50		ug/l	1	2040274	04/24/02	04/24/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		104 %		60-140		"	"	"	"	
A-5 (S204396-05) Water Sampled: 04/23/02 10:53 Received: 04/24/02 12:00										
Methyl tert-butyl ether	1.2	0.50		ug/l	1	2040274	04/24/02	04/24/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		104 %		60-140		"	"	"	"	
A-6 (S204396-06) Water Sampled: 04/23/02 11:09 Received: 04/24/02 12:00										
Methyl tert-butyl ether	ND	0.50		ug/l	1	2040274	04/24/02	04/24/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		106 %		60-140		"	"	"	"	
A-7 (S204396-07) Water Sampled: 04/23/02 11:42 Received: 04/24/02 12:00										
Methyl tert-butyl ether	7.2	0.50		ug/l	1	2040274	04/24/02	04/24/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		104 %		60-140		"	"	"	"	





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

Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
05/08/02 15:28

**MTBE by EPA Method 8260B
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
A-8 (S204396-08) Water Sampled: 04/23/02 11:53 Received: 04/24/02 12:00									
Methyl tert-butyl ether	ND	0.50	ug/l	1	2040274	04/24/02	04/24/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		104 %	60-140		"	"	"	"	
A-9 (S204396-09) Water Sampled: 04/23/02 11:20 Received: 04/24/02 12:00									
Methyl tert-butyl ether	ND	0.50	ug/l	1	2040274	04/24/02	04/24/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		105 %	60-140		"	"	"	"	
AR-1 (S204396-10) Water Sampled: 04/23/02 10:10 Received: 04/24/02 12:00									
Methyl tert-butyl ether	2.6	0.50	ug/l	1	2040274	04/24/02	04/24/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		104 %	60-140		"	"	"	"	
AR-2 (S204396-11) Water Sampled: 04/23/02 10:40 Received: 04/24/02 12:00									
Methyl tert-butyl ether	39	0.50	ug/l	1	2040274	04/24/02	04/24/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		106 %	60-140		"	"	"	"	





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Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
05/08/02 15:28

Total Purgeable Hydrocarbons and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento

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

Batch 2050040 - EPA 5030B (P/T)

Blank (2050040-BLKI)

Prepared & Analyzed: 05/03/02

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.87		"	10.0		99	60-140			

LCS (2050040-BS1)

Prepared & Analyzed: 05/03/02

Benzene	10.3	0.50	ug/l	10.0		103	70-130			
Toluene	10.2	0.50	"	10.0		102	70-130			
Ethylbenzene	9.99	0.50	"	10.0		100	70-130			
Xylenes (total)	30.7	0.50	"	30.0		102	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.6		"	10.0		106	60-140			

Matrix Spike (2050040-MS1)

Source: S204396-03

Prepared & Analyzed: 05/03/02

Benzene	10.8	0.50	ug/l	10.0	ND	108	60-140			
Toluene	10.5	0.50	"	10.0	ND	105	60-140			
Ethylbenzene	10.2	0.50	"	10.0	ND	102	60-140			
Xylenes (total)	30.9	0.50	"	30.0	ND	103	60-140			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.7		"	10.0		107	60-140			

Matrix Spike Dup (2050040-MSD1)

Source: S204396-03

Prepared & Analyzed: 05/03/02

Benzene	11.5	0.50	ug/l	10.0	ND	115	60-140	6	25	
Toluene	11.2	0.50	"	10.0	ND	112	60-140	6	25	
Ethylbenzene	11.0	0.50	"	10.0	ND	110	60-140	8	25	
Xylenes (total)	32.4	0.50	"	30.0	ND	108	60-140	5	25	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.8		"	10.0		108	60-140			





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

Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
05/08/02 15:28

**Total Purgeable Hydrocarbons and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2050042 - EPA 5030B (P/T)

Blank (2050042-BLK1)

Prepared & Analyzed: 05/03/02

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.92		"	10.0		99	60-140			

LCS (2050042-BS1)

Prepared & Analyzed: 05/03/02

Benzene	9.28	0.50	ug/l	10.0		93	70-130			
Toluene	9.69	0.50	"	10.0		97	70-130			
Ethylbenzene	9.77	0.50	"	10.0		98	70-130			
Xylenes (total)	32.1	0.50	"	30.0		107	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.2		"	10.0		102	60-140			

Matrix Spike (2050042-MS1)

Source: S204396-04

Prepared & Analyzed: 05/03/02

Benzene	8.92	0.50	ug/l	10.0	ND	89	60-140			
Toluene	9.23	0.50	"	10.0	ND	92	60-140			
Ethylbenzene	9.38	0.50	"	10.0	ND	94	60-140			
Xylenes (total)	30.8	0.50	"	30.0	ND	103	60-140			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.68		"	10.0		97	60-140			

Matrix Spike Dup (2050042-MSD1)

Source: S204396-04

Prepared & Analyzed: 05/03/02

Benzene	9.50	0.50	ug/l	10.0	ND	95	60-140	6	25	
Toluene	9.41	0.50	"	10.0	ND	94	60-140	2	25	
Ethylbenzene	9.70	0.50	"	10.0	ND	97	60-140	3	25	
Xylenes (total)	31.7	0.50	"	30.0	ND	106	60-140	3	25	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.9		"	10.0		109	60-140			





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Project: Arco 5387, Hayward, CA
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Reported:
05/08/02 15:28

**Total Purgeable Hydrocarbons and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2050070 - EPA 5030B (P/T)

Blank (2050070-BLK1)

Prepared & Analyzed: 05/06/02

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.0		"	10.0		100	60-140			

LCS (2050070-BS1)

Prepared & Analyzed: 05/06/02

Benzene	9.57	0.50	ug/l	10.0		96	70-130			
Toluene	9.70	0.50	"	10.0		97	70-130			
Ethylbenzene	9.88	0.50	"	10.0		99	70-130			
Xylenes (total)	30.7	0.50	"	30.0		102	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.9		"	10.0		109	60-140			

Matrix Spike (2050070-MS1)

Source: S204396-11

Prepared & Analyzed: 05/06/02

Benzene	8.64	0.50	ug/l	10.0	ND	86	60-140			
Toluene	9.12	0.50	"	10.0	ND	91	60-140			
Ethylbenzene	9.41	0.50	"	10.0	ND	94	60-140			
Xylenes (total)	30.0	0.50	"	30.0	ND	100	60-140			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.0		"	10.0		100	60-140			

Matrix Spike Dup (2050070-MSD1)

Source: S204396-11

Prepared & Analyzed: 05/06/02

Benzene	9.62	0.50	ug/l	10.0	ND	96	60-140	11	25	
Toluene	9.94	0.50	"	10.0	ND	99	60-140	9	25	
Ethylbenzene	10.1	0.50	"	10.0	ND	101	60-140	7	25	
Xylenes (total)	33.1	0.50	"	30.0	ND	110	60-140	10	25	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.7		"	10.0		107	60-140			





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

Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
05/08/02 15:28

**Total Purgeable Hydrocarbons and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2050077 - EPA 5030B (P/T)

Blank (2050077-BLK1)

Prepared & Analyzed: 05/07/02

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.86		"	10.0		99	60-140			

LCS (2050077-BS1)

Prepared & Analyzed: 05/07/02

Benzene	11.2	0.50	ug/l	10.0		112	70-130			
Toluene	10.9	0.50	"	10.0		109	70-130			
Ethylbenzene	10.9	0.50	"	10.0		109	70-130			
Xylenes (total)	33.0	0.50	"	30.0		110	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.3		"	10.0		103	60-140			

Matrix Spike (2050077-MS1)

Source: S204439-09

Prepared & Analyzed: 05/07/02

Benzene	10.7	0.50	ug/l	10.0	ND	105	60-140			
Toluene	10.6	0.50	"	10.0	ND	106	60-140			
Ethylbenzene	10.4	0.50	"	10.0	ND	103	60-140			
Xylenes (total)	32.1	0.50	"	30.0	ND	107	60-140			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.3		"	10.0		103	60-140			

Matrix Spike Dup (2050077-MSD1)

Source: S204439-09

Prepared & Analyzed: 05/07/02

Benzene	11.6	0.50	ug/l	10.0	ND	114	60-140	8	25	
Toluene	11.4	0.50	"	10.0	ND	114	60-140	7	25	
Ethylbenzene	11.2	0.50	"	10.0	ND	111	60-140	7	25	
Xylenes (total)	34.5	0.50	"	30.0	ND	115	60-140	7	25	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.5		"	10.0		105	60-140			





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Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
05/08/02 15:28

**MTBE by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2040274 - EPA 5030B [P/T]

Blank (2040274-BLK1) Prepared & Analyzed: 04/24/02										
Methyl tert-butyl ether	ND	0.50	ug/l							
Surrogate: 1,2-DCA-d4	26.5		"	25.0		106	60-140			

LCS (2040274-BS1) Prepared & Analyzed: 04/24/02										
Methyl tert-butyl ether	21.6	0.50	ug/l	25.0		86	70-130			
Surrogate: 1,2-DCA-d4	25.1		"	25.0		100	60-140			

Matrix Spike (2040274-MS1) Source: S204286-03RE1 Prepared & Analyzed: 04/24/02										
Methyl tert-butyl ether	22.4	0.50	ug/l	25.0	ND	90	60-140			
Surrogate: 1,2-DCA-d4	25.5		"	25.0		102	60-140			

Matrix Spike Dup (2040274-MSD1) Source: S204286-03RE1 Prepared & Analyzed: 04/24/02										
Methyl tert-butyl ether	22.2	0.50	ug/l	25.0	ND	89	60-140	0.9	25	
Surrogate: 1,2-DCA-d4	26.6		"	25.0		106	60-140			

Batch 2040360 - EPA 5030B [P/T]

Blank (2040360-BLK1) Prepared & Analyzed: 05/02/02										
Methyl tert-butyl ether	ND	0.50	ug/l							
Surrogate: 1,2-DCA-d4	25.9		"	25.0		104	60-140			

LCS (2040360-BS1) Prepared & Analyzed: 05/02/02										
Methyl tert-butyl ether	27.4	0.50	ug/l	25.0		110	70-130			
Surrogate: 1,2-DCA-d4	26.0		"	25.0		104	60-140			

Matrix Spike (2040360-MS1) Source: S204383-08 Prepared & Analyzed: 05/02/02										
Methyl tert-butyl ether	28.2	0.50	ug/l	25.0	ND	113	60-140			
Surrogate: 1,2-DCA-d4	26.5		"	25.0		106	60-140			





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

Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
05/08/02 15:28

**MTBE by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2040360 - EPA 5030B [P/T]

Matrix Spike Dup (2040360-MSD1)

Source: S204383-08

Prepared & Analyzed: 05/02/02

Methyl tert-butyl ether	26.2	0.50	ug/l	25.0	ND	105	60-140	7	25	
Surrogate: 1,2-DCA-d4	25.8		"	25.0		103	60-140			





Delta Environmental Consultants (Rancho Cordova)
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Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
05/08/02 15:28

Notes and Definitions

- A-01 The sample was diluted due to the presence of high levels of target analytes resulting in elevated reporting limits.
- A-01a The sample was diluted due to the presence of high levels of target analytes resulting in elevated reporting limits.
- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





Work Authorization No.

Chain of Custody

ARCO Facility No. 5387	City (Facility) HAYWARD	Project Manager (Consultant) Steve Weeks	Laboratory name Seq 0019
ARCO engineer Paul Supple	Telephone no. (ARCO)	Telephone no. (Consultant) 638-2085	Contract number
Company name (Consultant) Delta	Address (Consultant) Rancho Cordova		Method of shipment
			Special detection Limit/reporting

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 602/EPA 8021	BTEX/TPH EPA 1602/8021/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418-1/SMS03E	BTEX + MTBE EPA 8260	BTEX + Standard Oxygenates EPA 8260	TCIP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	Semi Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CMM Metals EPA 8010/7000 TLLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead <input type="checkbox"/> Zn <input type="checkbox"/> Ni <input type="checkbox"/> Leads EPA 7420/7421 <input type="checkbox"/>	MTBE 8260	
			Soil	Water	Other	Ice	Acid															
MW-1	4		X			X	X	4/28/02	933	X												X
MW-2									1204													
MW-3									948													
A-4									920													
A-5									1053													
A-6									1109													
A-7									1142													
A-8									1153													
A-9									1120													
AR-1									1010													
AR-2									1040													
TB	2		X						600													

Method of shipment
Special detection Limit/reporting
Special QA/QC
Remarks
Type or Work <input type="checkbox"/> Dispenser Work <input type="checkbox"/> Line Job <input type="checkbox"/> Routine Sampling <input type="checkbox"/> Site Acquisitions <input type="checkbox"/> Site Assessment <input type="checkbox"/> UST Removal <input type="checkbox"/> UST Replacement <input type="checkbox"/> Other
Lab number
Turnaround time Priority Rush <input type="checkbox"/> 1 Business Day Rush <input type="checkbox"/> 2 Business Days Expedited <input type="checkbox"/> 5 Business Days Standard <input checked="" type="checkbox"/> 10 Business Days

Condition of sample:	Temperature received: 6°C
Relinquished by sampler [Signature]	Date 4-24-02 Time 1200
Relinquished by [Signature]	Date _____ Time _____
Relinquished by _____	Date _____ Time _____
Received by [Signature]	Date _____ Time _____
Received by laboratory	Date _____ Time _____

ATTACHMENT C

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

12/26/02

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Sacramento, CA
Project Name:	Arco 5387, Hayward, CA
Work Order Number:	S204396
Global ID:	NA
Lab Report Number:	S204396050820021528

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Labiocfl	Run	Sub
S20439605082002 A-4 1528		S20439604	W	CS	SW8021B	SW5030B	04/23/02	05/03/02	05/03/02	2050042	1	
S20439605082002 A-4 1528		S20439604	W	CS	SW8260	SW5030B	04/23/02	04/24/02	04/24/02	2040274	1	
S20439605082002 A-5 1528		S20439605	W	CS	SW8021B	SW5030B	04/23/02	05/03/02	05/03/02	2050042	1	
S20439605082002 A-5 1528		S20439605	W	CS	SW8260	SW5030B	04/23/02	04/24/02	04/24/02	2040274	1	
S20439605082002 A-6 1528		S20439606	W	CS	SW8021B	SW5030B	04/23/02	05/06/02	05/06/02	2050070	1	
S20439605082002 A-6 1528		S20439606	W	CS	SW8260	SW5030B	04/23/02	04/24/02	04/24/02	2040274	1	
S20439605082002 A-7 1528		S20439607	W	CS	SW8021B	SW5030B	04/23/02	05/06/02	05/06/02	2050070	1	
S20439605082002 A-7 1528		S20439607	W	CS	SW8260	SW5030B	04/23/02	04/24/02	04/24/02	2040274	1	
S20439605082002 A-8 1528		S20439608	W	CS	SW8021B	SW5030B	04/23/02	05/06/02	05/06/02	2050070	1	
S20439605082002 A-8 1528		S20439608	W	CS	SW8260	SW5030B	04/23/02	04/24/02	04/24/02	2040274	1	
S20439605082002 A-9 1528		S20439609	W	CS	SW8021B	SW5030B	04/23/02	05/06/02	05/06/02	2050070	1	
S20439605082002 A-9 1528		S20439609	W	CS	SW8260	SW5030B	04/23/02	04/24/02	04/24/02	2040274	1	
S20439605082002 AR-1 1528		S20439610	W	CS	SW8021B	SW5030B	04/23/02	05/06/02	05/06/02	2050070	1	
S20439605082002 AR-1 1528		S20439610	W	CS	SW8260	SW5030B	04/23/02	04/24/02	04/24/02	2040274	1	
S20439605082002 AR-2 1528		S20439611	W	CS	SW8021B	SW5030B	04/23/02	05/06/02	05/06/02	2050070	1	
S20439605082002 AR-2 1528		S20439611	W	CS	SW8260	SW5030B	04/23/02	04/24/02	04/24/02	2040274	1	
S20439605082002 MW-1 1528		S20439601	W	CS	SW8021B	SW5030B	04/23/02	05/03/02	05/03/02	2050040	1	
S20439605082002 MW-1 1528		S20439601	W	CS	SW8260	SW5030B	04/23/02	05/02/02	05/02/02	2040360	1	
S20439605082002 MW-2 1528		S20439602	W	CS	SW8021B	SW5030B	04/23/02	05/03/02	05/03/02	2050040	1	
S20439605082002 MW-2 1528		S20439602	W	CS	SW8260	SW5030B	04/23/02	04/24/02	04/24/02	2040274	1	

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
S20439605082002	MW-3	S20439603	W	CS	SW8021B	SW5030B	04/23/02	05/03/02	05/03/02	2050040	1	
	1528											
S20439605082002	MW-3	S20439603	W	CS	SW8260	SW5030B	04/23/02	04/24/02	04/24/02	2040274	1	
	1528											
S20439605082002	TB	S20439612	W	CS	SW8021B	SW5030B	04/23/02	05/07/02	05/07/02	2050077	1	
	1528											
		S20428603R1	W	NC	SW8260	SW5030B	//	04/24/02	04/24/02	2040274	1	
		S20438308	W	NC	SW8260	SW5030B	//	05/02/02	05/02/02	2040360	1	
		S20443909	W	NC	SW8021B	SW5030B	//	05/07/02	05/07/02	2050077	1	
		2040274BS1	WQ	BS1	SW8260	SW5030B	//	04/24/02	04/24/02	2040274	1	
		2040274BLK1	WQ	LB1	SW8260	SW5030B	//	04/24/02	04/24/02	2040274	1	
		2040274MS1	W	MS1	SW8260	SW5030B	//	04/24/02	04/24/02	2040274	1	
		2040274MSD1	W	SD1	SW8260	SW5030B	//	04/24/02	04/24/02	2040274	1	
		2040360BS1	WQ	BS1	SW8260	SW5030B	//	05/02/02	05/02/02	2040360	1	
		2040360BLK1	WQ	LB1	SW8260	SW5030B	//	05/02/02	05/02/02	2040360	1	
		2040360MS1	W	MS1	SW8260	SW5030B	//	05/02/02	05/02/02	2040360	1	
		2040360MSD1	W	SD1	SW8260	SW5030B	//	05/02/02	05/02/02	2040360	1	
		2050040BS1	WQ	BS1	SW8021B	SW5030B	//	05/03/02	05/03/02	2050040	1	
		2050040BLK1	WQ	LB1	SW8021B	SW5030B	//	05/03/02	05/03/02	2050040	1	
		2050040MS1	W	MS1	SW8021B	SW5030B	//	05/03/02	05/03/02	2050040	1	
		2050040MSD1	W	SD1	SW8021B	SW5030B	//	05/03/02	05/03/02	2050040	1	
		2050042BS1	WQ	BS1	SW8021B	SW5030B	//	05/03/02	05/03/02	2050042	1	
		2050042BLK1	WQ	LB1	SW8021B	SW5030B	//	05/03/02	05/03/02	2050042	1	
		2050042MS1	W	MS1	SW8021B	SW5030B	//	05/03/02	05/03/02	2050042	1	
		2050042MSD1	W	SD1	SW8021B	SW5030B	//	05/03/02	05/03/02	2050042	1	
		2050070BS1	WQ	BS1	SW8021B	SW5030B	//	05/06/02	05/06/02	2050070	1	
		2050070BLK1	WQ	LB1	SW8021B	SW5030B	//	05/06/02	05/06/02	2050070	1	
		2050070MS1	W	MS1	SW8021B	SW5030B	//	05/06/02	05/06/02	2050070	1	
		2050070MSD1	W	SD1	SW8021B	SW5030B	//	05/06/02	05/06/02	2050070	1	
		2050077BS1	WQ	BS1	SW8021B	SW5030B	//	05/07/02	05/07/02	2050077	1	
		2050077BLK1	WQ	LB1	SW8021B	SW5030B	//	05/07/02	05/07/02	2050077	1	
		2050077MS1	W	MS1	SW8021B	SW5030B	//	05/07/02	05/07/02	2050077	1	
		2050077MSD1	W	SD1	SW8021B	SW5030B	//	05/07/02	05/07/02	2050077	1	

EDFSAMP: Error Summary Log

12/26/02

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

EDFTEST: Error Summary Log

12/26/02

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					11	0

EDFRES: Error Summary Log

12/26/02

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2040274MS1	MS1	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	2040274MSD1	SD1	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	2040360MS1	MS1	W	SW8260	PR	05/02/02	1	MTBE
Warning: extra parameter	2040360MSD1	SD1	W	SW8260	PR	05/02/02	1	MTBE
Warning: extra parameter	2050040MS1	MS1	W	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	2050040MS1	MS1	W	SW8021B	PR	05/03/02	1	XYLENES
Warning: extra parameter	2050040MSD1	SD1	W	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	2050040MSD1	SD1	W	SW8021B	PR	05/03/02	1	XYLENES
Warning: extra parameter	2050042MS1	MS1	W	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	2050042MS1	MS1	W	SW8021B	PR	05/03/02	1	XYLENES
Warning: extra parameter	2050042MSD1	SD1	W	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	2050042MSD1	SD1	W	SW8021B	PR	05/03/02	1	XYLENES
Warning: extra parameter	2050070MS1	MS1	W	SW8021B	PR	05/06/02	1	AAATFBZME
Warning: extra parameter	2050070MS1	MS1	W	SW8021B	PR	05/06/02	1	XYLENES
Warning: extra parameter	2050070MSD1	SD1	W	SW8021B	PR	05/06/02	1	AAATFBZME
Warning: extra parameter	2050070MSD1	SD1	W	SW8021B	PR	05/06/02	1	XYLENES
Warning: extra parameter	2050077MS1	MS1	W	SW8021B	PR	05/07/02	1	AAATFBZME
Warning: extra parameter	2050077MS1	MS1	W	SW8021B	PR	05/07/02	1	XYLENES
Warning: extra parameter	2050077MSD1	SD1	W	SW8021B	PR	05/07/02	1	AAATFBZME
Warning: extra parameter	2050077MSD1	SD1	W	SW8021B	PR	05/07/02	1	XYLENES
Warning: extra parameter	S20428603R1	NC	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	S20438308	NC	W	SW8260	PR	05/02/02	1	MTBE
Warning: extra parameter	S20439601	CS	W	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	S20439601	CS	W	SW8021B	PR	05/03/02	1	PHCG
Warning: extra parameter	S20439601	CS	W	SW8021B	PR	05/03/02	1	XYLENES

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	S20439601	CS	W	SW8260	PR	05/02/02	1	MTBE
Warning: extra parameter	S20439602	CS	W	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	S20439602	CS	W	SW8021B	PR	05/03/02	1	PHCG
Warning: extra parameter	S20439602	CS	W	SW8021B	PR	05/03/02	1	XYLENES
Warning: extra parameter	S20439602	CS	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	S20439603	CS	W	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	S20439603	CS	W	SW8021B	PR	05/03/02	1	PHCG
Warning: extra parameter	S20439603	CS	W	SW8021B	PR	05/03/02	1	XYLENES
Warning: extra parameter	S20439603	CS	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	S20439604	CS	W	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	S20439604	CS	W	SW8021B	PR	05/03/02	1	PHCG
Warning: extra parameter	S20439604	CS	W	SW8021B	PR	05/03/02	1	XYLENES
Warning: extra parameter	S20439604	CS	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	S20439605	CS	W	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	S20439605	CS	W	SW8021B	PR	05/03/02	1	PHCG
Warning: extra parameter	S20439605	CS	W	SW8021B	PR	05/03/02	1	XYLENES
Warning: extra parameter	S20439605	CS	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	S20439606	CS	W	SW8021B	PR	05/06/02	1	AAATFBZME
Warning: extra parameter	S20439606	CS	W	SW8021B	PR	05/06/02	1	PHCG
Warning: extra parameter	S20439606	CS	W	SW8021B	PR	05/06/02	1	XYLENES
Warning: extra parameter	S20439606	CS	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	S20439607	CS	W	SW8021B	PR	05/06/02	1	AAATFBZME
Warning: extra parameter	S20439607	CS	W	SW8021B	PR	05/06/02	1	PHCG
Warning: extra parameter	S20439607	CS	W	SW8021B	PR	05/06/02	1	XYLENES
Warning: extra parameter	S20439607	CS	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	S20439608	CS	W	SW8021B	PR	05/06/02	1	AAATFBZME
Warning: extra parameter	S20439608	CS	W	SW8021B	PR	05/06/02	1	PHCG
Warning: extra parameter	S20439608	CS	W	SW8021B	PR	05/06/02	1	XYLENES
Warning: extra parameter	S20439608	CS	W	SW8260	PR	04/24/02	1	MTBE

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	S20439609	CS	W	SW8021B	PR	05/06/02	1	AAATFBZME
Warning: extra parameter	S20439609	CS	W	SW8021B	PR	05/06/02	1	PHCG
Warning: extra parameter	S20439609	CS	W	SW8021B	PR	05/06/02	1	XYLENES
Warning: extra parameter	S20439609	CS	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	S20439610	CS	W	SW8021B	PR	05/06/02	1	AAATFBZME
Warning: extra parameter	S20439610	CS	W	SW8021B	PR	05/06/02	1	PHCG
Warning: extra parameter	S20439610	CS	W	SW8021B	PR	05/06/02	1	XYLENES
Warning: extra parameter	S20439610	CS	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	S20439611	CS	W	SW8021B	PR	05/06/02	1	AAATFBZME
Warning: extra parameter	S20439611	CS	W	SW8021B	PR	05/06/02	1	PHCG
Warning: extra parameter	S20439611	CS	W	SW8021B	PR	05/06/02	1	XYLENES
Warning: extra parameter	S20439611	CS	W	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	S20439612	CS	W	SW8021B	PR	05/07/02	1	AAATFBZME
Warning: extra parameter	S20439612	CS	W	SW8021B	PR	05/07/02	1	PHCG
Warning: extra parameter	S20439612	CS	W	SW8021B	PR	05/07/02	1	XYLENES
Warning: extra parameter	S20443909	NC	W	SW8021B	PR	05/07/02	1	AAATFBZME
Warning: extra parameter	S20443909	NC	W	SW8021B	PR	05/07/02	1	XYLENES
Warning: extra parameter	2040274BLK1	LB1	WQ	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	2040274BS1	BS1	WQ	SW8260	PR	04/24/02	1	MTBE
Warning: extra parameter	2040360BLK1	LB1	WQ	SW8260	PR	05/02/02	1	MTBE
Warning: extra parameter	2040360BS1	BS1	WQ	SW8260	PR	05/02/02	1	MTBE
Warning: extra parameter	2050040BLK1	LB1	WQ	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	2050040BLK1	LB1	WQ	SW8021B	PR	05/03/02	1	PHCG
Warning: extra parameter	2050040BLK1	LB1	WQ	SW8021B	PR	05/03/02	1	XYLENES
Warning: extra parameter	2050040BS1	BS1	WQ	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	2050040BS1	BS1	WQ	SW8021B	PR	05/03/02	1	XYLENES
Warning: extra parameter	2050042BLK1	LB1	WQ	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	2050042BLK1	LB1	WQ	SW8021B	PR	05/03/02	1	PHCG
Warning: extra parameter	2050042BLK1	LB1	WQ	SW8021B	PR	05/03/02	1	XYLENES

Error type	Labsampid	Qcocode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2050042BS1	BS1	WQ	SW8021B	PR	05/03/02	1	AAATFBZME
Warning: extra parameter	2050042BS1	BS1	WQ	SW8021B	PR	05/03/02	1	XYLENES
Warning: extra parameter	2050070BLK1	LB1	WQ	SW8021B	PR	05/06/02	1	AAATFBZME
Warning: extra parameter	2050070BLK1	LB1	WQ	SW8021B	PR	05/06/02	1	PHCG
Warning: extra parameter	2050070BLK1	LB1	WQ	SW8021B	PR	05/06/02	1	XYLENES
Warning: extra parameter	2050070BS1	BS1	WQ	SW8021B	PR	05/06/02	1	AAATFBZME
Warning: extra parameter	2050070BS1	BS1	WQ	SW8021B	PR	05/06/02	1	XYLENES
Warning: extra parameter	2050077BLK1	LB1	WQ	SW8021B	PR	05/07/02	1	AAATFBZME
Warning: extra parameter	2050077BLK1	LB1	WQ	SW8021B	PR	05/07/02	1	PHCG
Warning: extra parameter	2050077BLK1	LB1	WQ	SW8021B	PR	05/07/02	1	XYLENES
Warning: extra parameter	2050077BS1	BS1	WQ	SW8021B	PR	05/07/02	1	AAATFBZME
Warning: extra parameter	2050077BS1	BS1	WQ	SW8021B	PR	05/07/02	1	XYLENES

EDFQC: Error Summary Log

12/26/02

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

EDFCL: Error Summary Log

12/26/02

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