URS

February 4, 2005

Ms. Stephanie K. J. Cushing
San Francisco Department of Public Health
Local Oversight Program
1390 Market Street, Suite 210
San Francisco, California 94102

Re: First Semi-Annual 2005 Monitoring Report
Former ARCO Service Station #0319
5101 Mission Street
San Francisco, California
URS Project #38487291

Dear Ms. Cushing:

On behalf of Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the *First Semi-Annual 2005 Groundwater Monitoring Report* for the former ARCO Service Station #0319, located at 5101 Mission Street, San Francisco, California.

If you have any questions regarding this submission, please call (510) 874-3296.

Sincerely,

URS CORPORATION

REGISTERED GEOLOGIST
BARBARA J JAKUB
No. 7304
STATE OF CALIFORNIA

Barbara J. Jakub, R.G.
Project Manager

Enclosure: First Semi-Annual 2005 Groundwater Monitoring Report

cc: Mr. Chuck Carmel, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS
Mr. Vic Pal, RWQCB-SFBR, electronic copy uploaded to FTP site

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
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REPORT

FIRST SEMI-ANNUAL 2005 GROUNDWATER MONITORING REPORT

FORMER ARCO SERVICE STATION #0319
5101 MISSION STREET
SAN FRANCISCO, CALIFORNIA

Prepared for
RM

February 4, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38487291

Date:	February 4, 2005
Quarter:	1Q 05

RM SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Facility No.:	0319	Address:	5101 Mission Street at Amazon Avenue, San Francisco
RM Environmental Business Manager:			Chuck Carmel
Consulting Co./Contact Person:			URS Corporation / Barbara Jakub
Consultant Project No.:			38487291
Primary Agency:			City and County of San Francisco Department of Public Health, Local Oversight Program (DPH-LOP)

WORK PERFORMED THIS PERIOD (First – 2005):

1. Performed first semi-annual 2005 monitoring event on January 5, 2005.
2. Prepared and submitted this first semi-annual 2005 groundwater monitoring report.

WORK PROPOSED FOR NEXT PERIOD (Second – 2005):

1. Prepare and submit second quarter 2005 status report while awaiting case closure.

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Semi-annually (wells BC-3 through BC-7)
Frequency of Groundwater Monitoring:	Semi-annually
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	Natural Attenuation
Approximate Depth to Groundwater:	3.90 (BC-7) to 7.24 (BC-5)
Groundwater Gradient (direction):	North
Groundwater Gradient (magnitude):	0.04 feet per foot

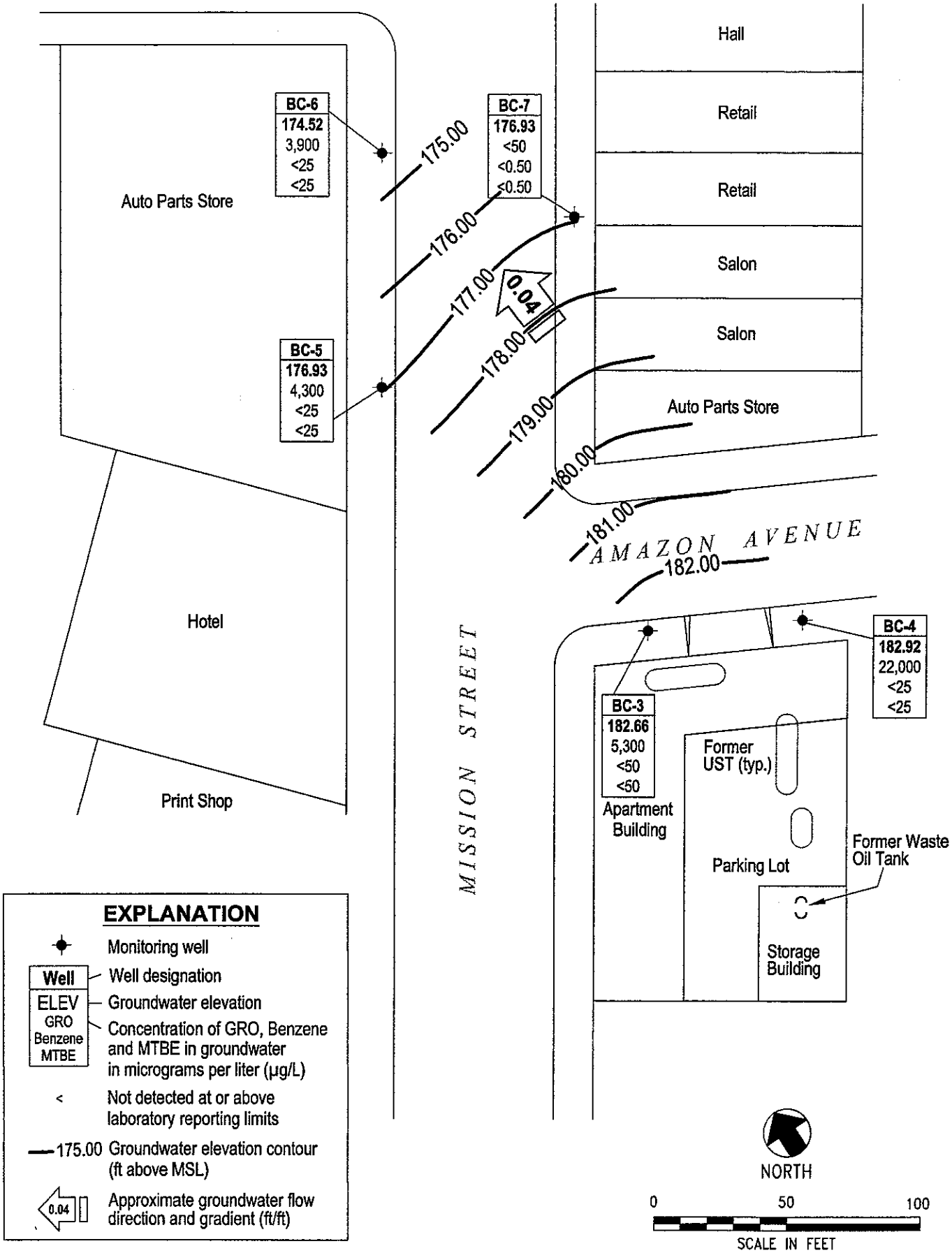
DISCUSSION:

Gasoline range organics (GRO) were detected at or above the laboratory reporting limit in four of the five wells sampled this quarter at concentrations ranging from 3,900 micrograms per liter (µg/L) (BC-6) to 22,000 µg/L (BC-4). Benzene was not detected at or above the laboratory reporting limit in any of the wells sampled this quarter. Ethylbenzene, toluene and xylenes were detected at or above their respective laboratory reporting limits in well BC-4 at concentrations of 270 µg/L, 370 µg/L and 5,100 µg/L, respectively. Xylenes were also detected at or above laboratory reporting limits in well BC-3 at a concentration of 51 µg/L. Fuel additives, including methyl tert-butyl ether (MTBE), were not detected at or above their respective laboratory reporting limits in any of the wells sampled this quarter.

As recommended in the third quarter monitoring report, based on the declining hydrocarbon concentrations and since benzene has not been detected in wells since the third quarter 2003, URS reduced the sampling frequency at the Site from quarterly to semi-annually in the first and third quarters. The new semi-annual sampling schedule commenced in this first quarter of 2005. URS further recommends discontinuing sampling while case closure is considered for the Site.

ATTACHMENTS:

- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – January 5, 2005
- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Fuel Additives Analytical Data
- Table 3 - Groundwater Flow Direction and Gradient
- Attachment A - Field Procedures and Field Data Sheets
- Attachment B - Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C – Error Check Reports and EDF/Geowell Submittal Confirmations



URS

Project No.38487291

Former ARCO Service Station #0319
5101 Mission Street
San Francisco, California

GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP
First Quarter 2005 (January 5, 2005)

FIGURE
1

jktingi0 Jan 31, 2005 - 3:30pm
X:\x_env_waste\BP GEM\Sites\Barb Jakub\Carmel sites\0319\Reports\Monitoring\Qtr. 1, 2005\Drawings\319-1Q05-GW.dwg

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
BC-3	2/1/1996	--	100	6.25	--	93.75	380	4.8	5	2.1	16	--	---	--	---	
	4/24/1996	--	100	5.93	--	94.07	630	6	4.1	1.3	9.5	--	---	--	---	
	7/17/1996	--	100	6.25	--	93.75	1,700	40	79	31	170	<25	---	--	---	
	10/17/1996	--	100	6.15	--	93.85	960	26	30	7.8	55	<2.5	---	--	---	
	3/12/1997	--	100	5.95	--	94.05	610	4.2	5.6	11	67	<2.5	---	--	---	
	5/22/1997	NP	100	6.15	--	93.85	1,900	13	15	31	250	<12	---	--	---	
	8/18/1997	NP	100	6.12	--	93.88	5,000	120	81	53	580	<25	---	--	---	
	12/18/1997	NP	100	5.85	--	94.15	1500 c	<0.50	1.1	4.9	41	<2.5	2.2	--	---	c
	3/31/1998	NP	100	5.75	--	94.25	600 d	2.6	4.4	8.8	88	<2.5	3	--	---	d
	6/9/1998	NP	100	5.90	--	94.10	1,500	4.9	9.6	17	180	<2.5	5	--	---	
	9/9/1998	NP	100	6.05	--	93.95	670 e	3.8	2.5	<0.50	110	<2.5	2	--	---	e
	12/11/1998	NP	100	6.05	--	93.95	1,400	<5.0	<5.0	6.7	40	<25	3.4	--	---	g
	3/9/1999	NP	100	5.87	--	94.13	480	1.3	1.5	7.6	40	<2.5	3.2	--	---	
	6/18/1999	NP	100	6.00	--	94.00	---	5.11	<5.0	6.1	48.6	<50	3	--	---	j
	9/3/1999	NP	100	6.18	--	93.82	4,410	37.8	43.5	59.9	381	<50	2.6	--	---	
	11/30/1999	NP	100	6.20	--	93.80	1,630	4.04	4.74	<1.0	155	5.37	1	--	---	
	2/28/2000	NP	100	5.85	--	94.15	853	0.517	5.62	4.01	25.8	<2.5	3.8	--	---	
	6/12/2000	NP	100	6.21	--	93.79	5,840	62.5	212	99	750	<50.0	---	--	---	j
	8/17/2000	NP	100	5.99	--	94.01	3,800	24.9	92.1	23.4	186	9.41	4.5	--	---	
	11/10/2000	NP	100	--	--	--	506	1.76	1.25	2.62	18.9	2.76	2.19	--	---	
	11/10/2000	NP	100	5.81	--	94.19	939	1.03	1.08	4.56	34.5	4.45	2.19	--	---	
	2/8/2001	NP	100	6.03	--	93.97	1,490	<5.00	<5.00	<5.00	<5.00	<25.0	1.47	--	---	
	4/4/2001	NP	100	5.89	--	94.11	3,900	7.14	48.9	27.1	345	<25.0	1.11	--	---	
	7/17/2001	NP	100	5.97	--	94.03	3,200	41	56	8.1	250	<5.0	0.95	--	---	
	10/1/2001	NP	100	6.19	--	93.81	2,200	6.1	46	10	89	<5.0	1.04	--	---	
	1/9/2002	--	---	---	--	--	8,000	2.1	13	3.8	180	<5.0	---	--	---	
	1/9/2002	NP	100	5.79	--	94.21	6,400	3.5	21	4.5	210	<5.0	0.91	--	---	
	4/2/2002	NP	100	5.93	--	94.07	1,200	<2.0	<2.0	3.3	78	<10	0.97	--	---	
	7/12/2002	NP	100	5.92	--	94.08	2,600	48	31	7.4	190	<25	0.9	--	6.6	
	10/30/2002	NP	100	6.05	--	93.95	1900 l	5.7	16	<5.0	27	<25	1	--	6.8	l
	1/28/2003	NP	100	5.87	--	94.13	<25,000	<250	<250	<250	<250	<250	1.1	--	6.7	o
	4/1/2003	NP	100	5.86	--	94.14	<25,000	<250	<250	<250	<250	<250	3.1	--	6.6	
	7/22/2003	NP	100	5.99	--	94.01	5,800	11	120	17	120	<5.0	3.6	--	6.7	
	10/21/2003	NP	188.08	6.06	--	182.02	6,400	<5.0	<5.0	<5.0	<5.0	<5.0	2.8	SEQM	6.5	q

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
BC-3	01/28/2004	NP	188.08	5.78	--	182.30	1,300	<50	<50	<50	<50	<50	3.2	SEQM	6.4	r, s, t
	04/12/2004	NP	188.08	5.76	--	182.32	1,500	<0.50	<0.50	<0.50	<0.50	0.90	4.7	SEQM	7.0	t
	07/28/2004	NP	188.08	5.83	--	182.25	6,100	<25	<25	<25	<25	<25	2.1	SEQM	6.7	w
	10/29/2004	NP	188.08	5.81	--	182.27	3,700	<2.5	<2.5	<2.5	<2.5	<2.5	4.3	SEQM	5.9	
	01/05/2005	**NP**	**188.08**	**5.42**	**--**	**182.66**	**5,300**	**<50**	**<50**	**<50**	**51**	**<50**	**4.3**	**SEQM**	**6.8**	
BC-4	2/1/1996	--	100.72	6.50	--	94.22	7,300	0.57	460	120	1,600	--	---	--	---	
	4/24/1996	--	100.72	6.40	--	94.32	8,700	24	540	75	1,900	--	---	--	---	
	7/17/1996	--	100.72	6.50	--	94.22	8,100	<20	640	150	2,000	110	---	--	---	
	10/17/1996	--	100.72	6.58	--	94.14	10,000	47	550	110	1,700	180	---	--	---	
	3/12/1997	--	100.72	---	--	---	---	---	---	---	---	--	---	--	---	v
	5/22/1997	--	100.72	---	--	---	---	---	---	---	---	--	---	--	---	v
	8/18/1997	--	100.72	6.50	--	94.22	37,000	<100	1,400	450	6,200	600	---	--	---	v
	12/18/1997	NP	100.72	6.24	--	94.48	35,000	<50	920	390	4,100	<2.5	1.1	--	---	
	3/31/1998	NP	100.72	6.27	--	94.45	20,000	130	1,200	99	7,300	<2.5	1	--	---	
	6/9/1998	NP	100.72	6.40	--	94.32	21,000	110	1,400	140	7,700	420	2.4	--	---	
	9/9/1998	NP	100.72	6.50	--	94.22	14000	90	340	<5.0	2,900	590	2	--	---	f
	12/11/1998	NP	100.72	6.48	--	94.24	28,000	160	1,100	360	7,000	<500	2.8	--	---	g
	3/9/1999	NP	100.72	6.35	--	94.37	27,000	<50	890	270	5,400	910	1	--	---	
	6/18/1999	NP	100.72	6.50	--	94.22	---	35.1	1,360	<25	8,750	<250	1	--	---	j
	9/3/1999	NP	100.72	6.55	--	94.17	11,200	19.4	305	71.5	1,640	<125	1	--	---	
	11/30/1999	NP	100.72	6.55	--	94.17	21,700	159	765	313	1,340	143	---	--	---	
	2/28/2000	NP	100.72	6.25	--	94.47	26,500	111	753	312	5,740	599	1	--	---	
	6/12/2000	NP	100.72	6.82	--	93.90	21,300	82.1	757	298	5,480	177	---	--	---	j
	8/17/2000	NP	100.72	6.35	--	94.37	22,100	36.1	743	317	4,550	150	0.47	--	---	
	11/10/2000	NP	100.72	6.19	--	94.53	17,800	63.4	591	288	4,950	<100	1	--	---	
	2/8/2001	--	--	---	--	---	8,160	<50	170	108	1,980	<250	---	--	---	
	2/8/2001	NP	100.72	6.35	--	94.37	9,130	<10.0	160	99.1	1,790	<50.0	0.95	--	---	
	4/4/2001	--	--	---	--	---	17,500	59.4	481	183	4,120	307	---	--	---	
	4/4/2001	NP	100.72	6.01	--	94.71	17,800	55.2	482	180	4,230	308	0.79	--	---	
	7/17/2001	--	--	---	--	---	26.000	69	730	340	5,200	110	---	--	---	
	7/17/2001	NP	100.72	6.03	--	94.69	28,000	93	870	420	5,600	120	0.71	--	---	
	10/1/2001	--	--	---	--	---	24,000	<5.0	1,100	590	6,200	120	---	--	---	
	10/1/2001	NP	100.72	6.17	--	94.55	27,000	13	1,200	630	6,800	160	0.89	--	---	

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
BC-4	1/9/2002	NP	100.72	5.70	--	95.02	31,000	<10	950	390	7,500	150	0.74	--	---	
	4/2/2002	--	--	---	--	---	26,000	110	770	230	7,200	520	---	--	---	
	4/2/2002	NP	100.72	5.90	--	94.82	24,000	100	700	220	6,700	560	0.81	--	---	
	7/12/2002	--	100.72	6.32	--	94.40	14,000	49	350	210	4,000	<120	1	--	6.7	
	10/30/2002	--	100.72	6.45	--	94.27	32,000	130	1,100	520	9,600	<50	1.4	--	6.9	m, n
	1/28/2003	--	100.72	6.26	--	94.46	27,000	<25	520	150	6,500	<25	1.6	--	6.9	o
	4/1/2003	--	100.72	6.26	--	94.46	24,000	<25	420	150	6,100	<25	0.8	--	6.7	
	7/22/2003	--	100.72	6.38	--	94.34	22,000	<50	210	170	3,200	<50	2.4	--	6.8	
	10/21/2003	NP	188.79	6.44	--	182.35	25,000	<25	410	260	5,600	<25	1.1	SEQM	6.5	q
	01/28/2004	NP	188.79	6.28	--	182.51	19,000	<50	310	200	4,900	<50	1.0	SEQM	6.5	t
	04/12/2004	NP	188.79	6.28	--	182.51	14,000	<25	300	94	4,400	<25	1.4	SEQM	6.8	s, t
	07/28/2004	NP	188.79	6.25	--	182.54	18,000	<25	220	230	4,000	<25	1.1	SEQM	6.9	
	10/29/2004	NP	188.79	6.23	--	182.56	14,000	<50	300	250	4,200	<50	1.7	SEQM	7.0	
	01/05/2005	**NP**	**188.79**	**5.87**	**--**	**182.92**	**22,000**	**<25**	**370**	**270**	**5,100**	**<25**	**1.3**	**SEQM**	**7.1**	
BC-5	2/1/1996	--	96.09	8.12	--	87.97	350	12	<0.50	<0.50	1.8	--	---	--	---	
	4/24/1996	--	96.09	7.40	--	88.69	320	<0.50	<0.50	<0.50	<0.50	--	---	--	---	
	7/17/1996	--	96.09	7.60	--	88.49	840	<2.0	<2.0	<2.0	<2.0	<10	---	--	---	
	10/17/1996	--	96.09	7.74	--	88.35	250	1.4	<0.50	<0.50	<0.50	--	---	--	---	a
	3/12/1997	--	96.09	7.15	--	88.94	210	<0.50	<0.50	<0.50	<0.50	32	---	--	---	
	5/22/1997	NP	96.09	7.85	--	88.24	220	<0.50	<0.50	<0.50	<0.50	<2.5	---	--	---	
	8/18/1997	NP	96.09	5.75	--	90.34	1,100	<5.0	<5.0	<5.0	7.9	<25	---	--	---	b
	12/18/1997	NP	96.09	7.65	--	88.44	1,200	1.5	<0.50	<0.50	5.3	<2.5	2.3	--	---	c
	3/31/1998	NP	96.09	7.10	--	88.99	180	<0.50	<0.50	<0.50	<0.50	2.6	2	--	---	d
	6/9/1998	NP	96.09	7.35	--	88.74	440	<2.0	<2.0	<2.0	<2.0	<10	3	--	---	
	9/9/1998	NP	96.09	7.00	--	89.09	220	<0.50	<0.50	<0.50	<0.50	<2.5	2.8	--	---	e
	12/11/1998	NP	96.09	7.70	--	88.39	740	<5.0	<5.0	<5.0	<5.0	<25	3	--	---	g
	3/9/1999	NP	96.09	7.45	--	88.64	240	<0.50	<0.50	<0.50	<0.50	50	3	--	---	h
	6/18/1999	NP	96.09	7.57	--	88.52	---	<0.50	<0.50	<0.50	<0.50	5.22	2.8	--	---	j
	9/3/1999	NP	96.09	7.75	--	88.34	460	<0.50	<0.50	<0.50	<0.50	<5.0	1.2	--	---	
	11/30/1999	NP	96.09	7.85	--	88.24	295	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	--	---	
	2/28/2000	NP	96.09	7.55	--	88.54	369	2.5	<0.50	<0.50	<0.50	9.9	1.4	--	---	
	6/12/2000	NP	96.09	7.34	--	88.75	260	<0.500	<0.500	<0.500	0.992	18.9	---	--	---	j
	8/17/2000	NP	96.09	7.55	--	88.54	571	<0.500	<0.500	<0.500	<0.500	34.7	2.13	--	---	

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
BC-5	11/10/2000	NP	96.09	7.33	--	88.76	636	<0.500	<0.500	<0.500	5.29	16.9	1.97	--	---	
	2/8/2001	NP	96.09	7.37	--	88.72	407	<0.500	<0.500	<0.500	<0.500	54.5	1.31	--	---	
	4/4/2001	NP	96.09	6.95	--	89.14	352	<0.500	<0.500	<0.500	<0.500	<2.50	0.94	--	---	
	7/17/2001	NP	96.09	6.93	--	89.16	600	<0.50	<0.50	<0.50	1.2	9.7	0.99	--	---	
	10/1/2001	NP	96.09	7.01	--	89.08	720	<0.50	<0.50	<0.50	<0.50	3.2	1.04	--	---	
	1/9/2002	NP	96.09	6.33	--	89.76	690	2.7	<0.50	<0.50	1.4	<2.5	0.95	--	---	
	4/2/2002	NP	96.09	6.77	--	89.32	260	0.66	<0.50	<0.50	<0.50	<2.5	1.09	--	---	
	7/12/2002	NP	96.09	7.27	--	88.82	1,400	<5	<5	<5	<5	<25	3.1	--	6.7	
	10/30/2002	NP	96.09	7.67	--	88.42	880 l	<2.5	<2.5	<2.5	<2.5	27	2	--	6.8	l
	1/28/2003	NP	96.09	7.38	--	88.71	<10,000	<100	<100	<100	<100	<100	1.8	--	6.8	o
	4/1/2003	NP	96.09	7.36	--	88.73	<10,000	<100	<100	<100	<100	<100	2.1	--	6.6	
	7/22/2003	NP	96.09	7.46	--	88.63	2,900	<5.0	<5.0	<5.0	5.2	<5.0	3	--	6.8	
	10/21/2003	NP	184.17	7.55	--	176.62	3,000	<5.0	<5.0	<5.0	13	<5.0	3.6	SEQM	6.6	q
	01/28/2004	NP	184.17	7.32	--	176.85	1,000	<50	<50	<50	160	<50	2.6	SEQM	6.5	r, s, t
	04/12/2004	NP	184.17	7.23	--	176.94	1,000	<0.50	<0.50	<0.50	0.74	<0.50	4.6	SEQM	6.6	r, t
	07/28/2004	NP	184.17	7.50	--	176.67	2,600	<5.0	<5.0	<5.0	<5.0	<5.0	1.0	SEQM	6.6	
	10/29/2004	NP	184.17	7.59	--	176.58	3,500	<5.0	<5.0	<5.0	<50	<5.0	2.1	SEQM	5.6	
	01/05/2005	**NP**	**184.17**	**7.24**	**--**	**176.93**	**4,300**	**<25**	**<25**	**<25**	**<25**	**<25**	**2.5**	**SEQM**	**6.6**	
BC-6	2/1/1996	--	91.78	---	--	--	---	---	---	---	---	--	---	--	---	
	4/24/1996	--	91.78	5.53	--	86.25	300	<0.50	<0.50	<0.50	<0.50	--	---	--	---	
	7/17/1996	--	91.78	5.70	--	86.08	340	<0.50	<0.50	<0.50	<0.50	<2.5	---	--	---	
	10/17/1996	--	91.78	5.80	--	85.98	160	<0.50	<0.50	<0.50	<0.50	<2.5	---	--	---	
	3/12/1997	NP	91.78	---	--	--	---	---	---	---	---	--	---	--	---	u
	5/22/1997	NP	91.78	---	--	--	---	---	---	---	---	--	---	--	---	u
	8/18/1997	NP	91.78	5.80	--	85.98	190	<0.50	<0.50	<0.50	<0.50	<2.5	---	--	---	v
	12/18/1997	NP	91.78	5.77	--	86.01	860	<0.50	<0.50	<0.50	1	<2.5	3.8	--	---	c
	3/31/1998	NP	91.78	5.35	--	86.43	64	<0.50	<0.50	<0.50	<0.50	<2.5	3.6	--	---	c
	6/9/1998	NP	91.78	5.60	--	86.18	120	<0.50	<0.50	<0.50	3.8	<2.5	4.4	--	---	
	9/9/1998	NP	91.78	5.60	--	86.18	140	<0.50	<0.50	<0.50	<0.50	<2.5	3.8	--	---	e
	12/11/1998	NP	91.78	5.85	--	85.93	140	<0.50	<0.50	<0.50	<0.50	<2.5	4	--	---	g
	3/9/1999	NP	91.78	5.65	--	86.13	96	<0.50	<0.50	<0.50	<0.50	<2.5	3.8	--	---	i
	6/18/1999	NP	91.78	5.75	--	86.03	---	<0.50	<0.50	<0.50	<0.50	<5.0	3.2	--	---	j
	9/3/1999	NP	91.78	5.90	--	85.88	85.2	<0.50	<0.50	<0.50	<0.50	<5.0	1.8	--	---	

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
BC-6	11/30/1999	NP	91.78	5.95	--	85.83	164	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	--	---	
	2/28/2000	NP	91.78	---	--	--	268	<0.50	<0.50	<0.50	<0.50	<2.5	3.8	--	---	
	6/12/2000	NP	91.78	5.55	--	86.23	109	<0.500	<0.500	<0.500	<0.500	<2.50	---	--	---	j
	8/17/2000	--	91.78	---	--	---	79.6	<0.500	<0.500	<0.500	<0.500	--	---	--	---	
	8/17/2000	NP	91.78	---	--	--	79.6	<0.500	<0.500	<0.500	<0.500	<2.50	---	--	---	
	11/10/2000	NP	91.78	5.04	--	86.74	92.3	4.15	<0.500	<0.500	<0.500	45	1.93	--	---	
	2/8/2001	NP	91.78	5.24	--	86.54	166	<0.500	<0.500	<0.500	<0.500	<2.50	1	--	---	
	4/4/2001	NP	91.78	5.10	--	86.68	419	<0.500	<0.500	<0.500	<0.500	<2.50	0.55	--	---	
	7/17/2001	NP	91.78	5.15	--	86.63	410	<0.50	<0.50	<0.50	<0.50	<2.5	0.68	--	---	
	10/1/2001	NP	91.78	5.93	--	85.85	83	<0.50	<0.50	<0.50	<0.50	<2.5	0.97	--	---	
	1/9/2002	NP	91.78	5.50	--	86.28	590	<0.50	<0.50	<0.50	<0.50	<2.5	0.92	--	---	
	4/2/2002	NP	91.78	5.79	--	85.99	180	<0.50	<0.50	<0.50	<0.50	<2.5	1.11	--	---	
	7/12/2002	NP	91.78	5.63	--	86.15	640	<5	<5	<5	<5	<25	3.1	--	6.6	
	10/30/2002	NP	91.78	5.85	--	85.93	770	<2.5	<2.5	<2.5	<2.5	79	2.4	--	6.6	l
	1/28/2003	NP	91.78	5.58	--	86.20	<5,000	<50	<50	<50	<50	<50	2.6	--	6.7	o
	4/1/2003	NP	91.78	5.61	--	86.17	<5,000	<50	<50	<50	<50	<50	3.3	--	6.5	
	7/22/2003	NP	91.78	5.70	--	86.08	1,800	<0.50	<0.50	<0.50	<0.50	0.78	2.8	--	7.3	
	10/21/2003	NP	179.87	5.77	--	174.10	1,900	<5.0	<5.0	<5.0	<5.0	<5.0	3.7	SEQM	613	q
	01/28/2004	NP	179.87	5.78	--	174.09	340	<5.0	<5.0	<5.0	5.3	<5.0	3.3	SEQM	6.6	r, s, t
	04/12/2004	NP	179.87	5.51	--	174.36	590	<0.50	<0.50	<0.50	<0.50	0.95	4.4	SEQM	6.1	r, t
	07/28/2004	--	179.87	5.53	--	174.34	1,200	<0.50	<0.50	<0.50	<0.50	0.61	3.5	SEQM	7.5	
	10/29/2004	NP	179.87	5.60	--	174.27	1,800	<2.5	<2.5	<2.5	<2.5	<2.5	3.7	SEQM	5.4	
	01/05/2005	**NP**	**179.87**	**5.35**	**--**	**174.52**	**3,900**	**<25**	**<25**	**<25**	**<25**	**<25**	**4.3**	**SEQM**	**6.6**	
BC-7	2/1/1996	--	92.78	---	--	--	---	---	---	---	---	--	---	--	---	
	4/24/1996	--	92.78	5.66	--	87.12	330	41	2.6	27	1.5	--	---	--	---	
	7/17/1996	--	92.78	--	--	--	--	--	--	--	--	--	---	--	---	x
	10/17/1996	--	92.78	--	--	--	--	--	--	--	--	--	---	--	---	x
	3/12/1997	--	92.78	---	--	--	---	---	---	---	---	--	---	--	---	v
	5/22/1997	--	92.78	---	--	--	---	---	---	---	---	--	---	--	---	v
	8/18/1997	--	92.78	---	--	--	---	---	---	---	---	--	---	--	---	v
	12/18/1997	--	92.78	6.27	--	86.51	330	39	<0.50	<0.50	1.8	<2.5	1.4	--	---	c,v
	3/31/1998	NP	92.78	6.45	--	86.33	110	6.1	<0.50	<0.50	<0.50	9.5	1.2	--	---	d
	6/9/1998	NP	92.78	6.40	--	86.38	86	<0.50	<0.50	<0.50	<0.50	<2.5	1.6	--	---	

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
BC-7	9/9/1998	NP	92.78	6.30	--	86.48	100	<0.50	<0.50	<0.50	<0.50	<2.5	2.2	--	---	e
	12/11/1998	NP	92.78	6.35	--	86.43	96	<0.50	<0.50	<0.50	<0.50	<2.5	3.4	--	---	g
	3/9/1999	NP	92.78	6.25	--	86.53	160	29	0.51	<0.50	<0.50	8	3.8	--	---	i
	6/18/1999	NP	92.78	6.45	--	86.33	---	1.27	<0.50	<0.50	<0.50	<5.0	3.4	--	---	j
	9/3/1999	NP	92.78	6.55	--	86.23	68.8	2.11	<0.50	<0.50	<0.50	18.6	1.8	--	---	k
	11/30/1999	NP	92.78	6.45	--	86.33	123	5.2	1.18	<0.50	<0.50	23.7	1.2	--	---	
	2/28/2000	NP	92.78	6.15	--	86.63	1,070	302	13.8	<5.0	18.1	130	3.8	--	---	
	6/12/2000	NP	92.78	5.49	--	87.29	126	7.29	<0.500	<0.500	<0.500	<2.50	---	--	---	j
	8/17/2000	NP	92.78	6.23	--	86.55	114	3.41	<0.500	<0.500	<0.500	3.69	2.21	--	---	
	11/10/2000	NP	92.78	6.00	--	86.78	77.9	<0.500	<0.500	<0.500	<0.500	<2.50	1.59	--	---	
	2/8/2001	NP	92.78	6.13	--	86.65	315	8.5	<0.500	<0.500	<0.500	23.4	0.93	--	---	
	4/4/2001	NP	92.78	5.73	--	87.05	737	68.3	2.78	18.6	1.13	98.5	0.57	--	---	
	7/17/2001	NP	92.78	5.80	--	86.98	110	1.5	<0.50	<0.50	<0.50	3.8	0.66	--	---	
	10/1/2001	NP	92.78	6.17	--	86.61	220	8.8	<0.50	<0.50	<0.50	8.3	0.91	--	---	
	1/9/2002	NP	92.78	5.81	--	86.97	390	81	<1.0	<1.0	<1.0	<5.0	0.95	--	---	
	4/2/2002	NP	92.78	5.95	--	86.83	950	85	2.6	4.8	1.2	130	0.98	--	---	
	7/12/2002	NP	92.78	6.14	--	86.64	140	8.1	<0.50	<0.50	<0.50	<2.5	1.1	--	7.4	
	10/30/2002	NP	92.78	6.20	--	86.58	400	14	1.5	<0.50	0.68	66	1.8	--	6.8	l
	1/28/2003	NP	92.78	6.12	--	86.66	3,800	500	14	87	7.5	<5.0	1.3	--	6.5	o
	4/1/2003	NP	92.78	6.10	--	86.68	1,400	66	<5.0	7.1	<5.0	<5.0	1	--	6.5	
	7/22/2003	NP	92.78	6.24	--	86.54	620	24	<0.50	<0.50	<0.50	<0.50	1.2	--	6.8	
	10/21/2003	NP	180.83	6.26	--	174.57	770	12	<0.50	<0.50	<0.50	<0.50	1.9	SEQM	6.4	q
	01/28/2004	NP	180.83	6.08	--	174.75	2,900	470	12	49	17	<12	1.8	SEQM	6.9	t
	04/12/2004	NP	180.83	6.16	--	174.67	490	29	<2.5	13	<2.5	<2.5	1.6	SEQM	5.8	s, t
	07/28/2004	P	180.83	4.14	--	176.69	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.4	SEQM	6.8	
	10/29/2004	P	180.83	4.11	--	176.72	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.8	SEQM	6.8	
	01/05/2005	**P**	**180.83**	**3.90**	**--**	**176.93**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**4.4**	**SEQM**	**6.5**	

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

ABBREVIATIONS AND SYMBOLS:
TPH = Total petroleum hydrocarbons
GRO = Gasoline range organics
MTBE = Methyl tert-butyl ether
MSL = Mean sea level
TOC = Top of casing
ug/L = Micrograms per liter, or parts per billion
mg/L = Milligrams per liter, or parts per million
< = Not detected at or above laboratory reporting limits
--- = Not measured, not applicable, not analyzed
DUP = Duplicate

FOOTNOTES:
a. Sample contained cis-1,2-DCE which coeludes with MTBE. Unable to confirm MTBE content.
b. Quantified as gasoline. Contained unidentified hydrocarbons in the C6 - C8 range.
c. Quantified as gasoline. Contained unidentified hydrocarbons in the greater than C6 range.
d. Contained non-gasoline discrete peaks in the >C6 range.
e. Contained gasoline discrete peaks in the C6-C12 range.
f. Quantified as gasoline. Contained unidentified hydrocarbons in the greater than C7 range.
g. Due to the omission of the request for EPA 8010 analyses on the original chain-of-custody, all wells were resampled for TCE, PCE, TCA, and cis 1,2-DCE by EPA 8010 on 01/11/99.
h. Quantified as gasoline. Contained unidentified hydrocarbons in the C6-C10 range.
i. Quantified as gasoline. Contained unidentified hydrocarbons in the C6-C12 range.
j. Due to a laboratory oversight, samples were not analyzed for volatile organics by EPA Methods 8015 (modified) and 8010, respectively.
k. Sample contained 2.41 ppb trans-1,2-Dichloroethene.
l. Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
m. Chromatogram Pattern: Gasoline C6-C10
n. MTBE confirmed by EPA method 8260B
o. TPH, BTEX, and MTBE analyzed by EPA Method 8260B starting on the 1st Quarter Sampling event (01/28/03)
p. Dissolved oxygen and pH levels are field measurements
q. Wells resurveyed on 8/21/2003 to NAVD '88
r. Discrete peak @ 7.5 minutes
s. Sample diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits
t. Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. Total petroleum hydrocarbons as gasoline (TPHg) has been changed to gasoline range organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported. Also, beginning second quarter 2004, the carbon range for GRO has been changed from C6-C10 to C4-C12.
u. Feet relative to arbitrary location.
v. Well was sampled following an extended "no sampling" period. Although the no purge protocol was applicable, the well was purged prior to sampling in order to obtain a more representative sample.
w. Hydrocarbon result partly due to individual peak(s) in quantity range.
x. Well inaccessible

NOTES:
The data within this table collected prior to July 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. Total petroleum hydrocarbons as gasoline (TPHg) has been changed to gasoline range organics (GRO). The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

Table 2

Fuel Additives Analytical Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

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)	trans-1,2 DCE (µg/L)	cis-1,2 DCE (µg/L)	VOC (µg/L)	Oxygen (µg/L)	PCE (µg/L)	TCE (µg/L)	Footnotes/ Comments
BC-3	1/28/2003	<20,000	<10,000	--	<250	<250	<250	--	--	--	<250	--	--	4,600	<250	
	4/1/2003	<50,000	<10,000	--	<250	<250	<250	--	--	--	<250	--	--	7,000	<250	
	7/22/2003	<1,000	<200	--	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	
	10/21/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	
	01/28/2004	<10,000	<2,000	<50	<100	<100	<100	<50	<50	--	--	--	--	--	--	
	04/12/2004	<100	<20	0.90	<1.0	<1.0	<1.0	<0.50	<0.50	--	--	--	--	--	--	
	07/28/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	--	--	--	--	--	--	
	10/29/2004	<500	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	--	--	--	--	--	--	
	01/05/2005	**<10,000**	**<2,000**	**<50**	**<50**	**<50**	**<50**	**<50**	**<50**	--	--	--	--	--	--	a
BC-4	1/28/2003	<2,000	<1,000	--	<25	<25	<25	--	--	--	<25	--	--	28	<25	
	4/1/2003	<5,000	<1,000	--	<25	<25	<25	--	--	--	<25	--	--	28	<25	
	7/22/2003	<10,000	<2,000	--	<50	<50	<50	<50	<50	--	--	--	--	--	--	
	10/21/2003	<5,000	<1,000	<25	<25	<25	<25	--	--	--	--	--	--	--	--	
	01/28/2004	<10,000	<2,000	<50	<100	<100	<100	<50	<50	--	--	--	--	--	--	
	04/12/2004	<5,000	<1,000	<25	<50	<50	<50	<25	<25	--	--	--	--	--	--	
	07/28/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	--	--	--	--	--	--	
	10/29/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	--	--	--	--	--	--	
	01/05/2005	**<5,000**	**<1,000**	**<25**	**<25**	**<25**	**<25**	**<25**	**<25**	--	--	--	--	--	--	a
BC-5	1/28/2003	<8,000	<4,000	<100	<100	<100	<100	--	--	--	<100	--	--	5,100	<100	
	4/1/2003	<20,000	<4,000	<100	<100	<100	<100	--	--	--	<100	--	--	2,600	<100	
	7/22/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	
	10/21/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	
	01/28/2004	<10,000	<2,000	<50	<100	<100	<100	<50	<50	--	--	--	--	--	--	
	04/12/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	--	--	--	--	--	--	
	07/28/2004	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	
	10/29/2004	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	
	01/05/2005	**<5,000**	**<1,000**	**<25**	**<25**	**<25**	**<25**	**<25**	**<25**	--	--	--	--	--	--	
BC-6	1/28/2003	<4,000	<2,000	--	<50	<50	<50	--	--	--	<50	--	--	2,000	<50	
	4/1/2003	<10,000	<2,000	--	<50	<50	<50	--	--	--	<50	--	--	2,400	<50	
	7/22/2003	<100	<20	--	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	
	10/21/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	
	01/28/2004	<1,000	<200	<5.0	<10	<10	<10	<5.0	<5.0	--	--	--	--	--	--	
	04/12/2004	<100	<20	0.95	<1.0	<1.0	<1.0	<0.50	<0.50	--	--	--	--	--	--	

Table 2

Fuel Additives Analytical Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

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)	trans-1,2 DCE (µg/L)	cis-1,2 DCE (µg/L)	VOC (µg/L)	Oxygen (µg/L)	PCE (µg/L)	TCE (µg/L)	Footnotes/ Comments
BC-6	07/28/2004	<100	<20	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	
	10/29/2004	<500	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	--	--	--	--	--	--	
	01/05/2005	**<5,000**	**<1,000**	**<25**	**<25**	**<25**	**<25**	**<25**	**<25**	--	--	--	--	--	--	a
BC-7	1/28/2003	<400	<200	<5.0	<5.0	<5.0	<5.0	---	---	--	13	---	--	6.5	5.1	
	4/1/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	---	---	--	36	---	--	190	130	
	7/22/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	---	---	--	---	---	
	10/21/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	--	
	01/28/2004	<2,500	<500	<12	<25	<25	<25	<12	<12	--	--	--	--	--	--	
	04/12/2004	<500	<100	<2.5	<5.0	<5.0	<5.0	<2.5	<2.5	--	--	--	--	--	--	
	07/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	
	10/29/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	
	01/05/2005	**<100**	**<20**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	--	--	--	--	--	--	a

Table 2

Fuel Additives Analytical Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

ABBREVIATIONS AND SYMBOLS:
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
cis-1,2-DCE = cis-1,2-Dichlorethene
PCE = Tetrachlorethene
TCE = Trichloroethene
VOC = Volatile organic compounds
ug/L = Micrograms per liter
< = Not detected at or above laboratory reporting limits
--- = Not applicable, sampled or analyzed

FOOTNOTES:
a = The continuing calibration verification was outside of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be useful for its intended purpose.

Table 3

Groundwater Gradient Data

Former ARCO Service Station #0319
5101 Mission St., San Francisco, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
2/28/2000	North	0.049
6/12/2000	Northwest	0.045
8/17/2000	Northeast	0.049
11/10/2000	Northeast	0.048
2/8/2001	Northeast	0.048
4/4/2001	Northeast	0.046
7/17/2001	Northeast	0.044
10/1/2001	Northeast	0.044
1/9/2002	Northeast	0.046
4/2/2002	Northeast	0.045
7/12/2002	Northeast	0.047
10/30/2002	Northeast	0.045
1/28/2003	Northeast	0.041
4/1/2003	North-Northeast	0.035
7/22/2003	Northeast	0.043
10/21/2003	Northeast	0.038
1/28/2004	Northeast	0.043
4/12/2004	North	0.041
7/28/2004	North	0.039
10/29/2004	North	0.038
1/5/2005	**North**	**0.04**

SOURCE: The data within this table collected prior to July 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

ATTACHMENT A

FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

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

WELL GAUGING DATA

Project # 050105-BA2 Date 1/5/05 Client Arco319

Site 5101 Mission St, San Francisco

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	
BC-3	2					5.42	19.37	TOC	
BC-4	2					5.87	19.12		
BC-5	2					7.24	14.51		
BC-6	2					5.35	13.33		
BC-7	2					3.90	13.57		

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050105-BA2	Station # 319
Sampler: Brian Alcorn	Date: 1/5/05
Well I.D.: BC-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.37	Depth to Water: 5.42
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	radius² * 0.163

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: _____

Top of Screen: 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.

No Purge

_____ (1 Case Volume (Gals.)) X _____ (Specified Volumes) = _____ (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
0955	58.4	6.8	422	—	clear, mild odor

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

Sampling Time: 0955 Sampling Date: 1/5/05

Sample I.D.: BC-3 Laboratory: Pace (Sequoia) Other_____

Analyzed for: GRO BTEX MTBE DRO Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	4.3 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050105-BAZ	Station # 319
Sampler: Brian Alcorn	Date: 1/5/05
Well I.D.: BC-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.12	Depth to Water: 5.87
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 / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: _____

Top of Screen: 51

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

No Purge

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

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
0945	57.6	7.1	407	—	clear, strong odor

Did well dewater? Yes No		Gallons actually evacuated: —	
Sampling Time: 0945		Sampling Date: 1/5/05	
Sample I.D.: BC-4		Laboratory: Pace (Sequoia) Other_____	
Analyzed for: GRO BTEX MTBE DRO		Other:	
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 #: 050105-BA2	Station # 319
Sampler: Brian Alcom	Date: 1/5/05
Well I.D.: BC-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 14.51	Depth to Water: 7.24
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 / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: _____

Top of Screen: 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.

No Purge

_____ (1 Case Volume (Gals.)) X _____ (Specified Volumes) = _____ (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1045	60.8	6.6	453	—	clear

Did well dewater? Yes No		Gallons actually evacuated: —	
Sampling Time: 1045		Sampling Date: 1/5/05	
Sample I.D.: BC-5		Laboratory: Pace (Sequoia) Other_____	
Analyzed for: GRO BTEX MTBE DRO		Other:	
D.O. (if req'd):	Pre-purge: ____ mg/L	(Post-purge): 2.5 mg/L	
O.R.P. (if req'd):	Pre-purge: ____ mV	Post-purge: ____ mV	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050105-BA2	Station # 319
Sampler: Brian Alcorn	Date: 1/5/05
Well I.D.: BC-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 13.33	Depth to Water: 5.35
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 * 0.163

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: _____

Top of Screen: 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.

No Purge

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

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1035	61.0	6.6	487	—	clear

Did well dewater? Yes No		Gallons actually evacuated: —	
Sampling Time: 1035		Sampling Date: 1/5/05	
Sample I.D.: BC-6		Laboratory: Pace (Sequoia) Other_____	
Analyzed for: GRO BTEX MTBE DRO		Other:	
D.O. (if req'd):	Pre-purge: mg/L	(Post-purge:) 4.3 mg/L	
O.R.P. (if req'd):	Pre-purge: mV	Post-purge: mV	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050105-BA2	Station # 319
Sampler: Brian Alcom	Date: 1/5/04
Well I.D.: BC-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 13.57	Depth to Water: 3.90
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) / Positive Air Displacement / 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.

1.6 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 4.8 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1017	59.3	6.8	525	1.75	clear
1020	60.0	6.6	521	3.5	"
1023	59.9	6.5	518	5.25	"

Did well dewater? Yes (No)	Gallons actually evacuated: 5.25
Sampling Time: ~~1015~~ 1025	Sampling Date: 1/5/05
Sample I.D.: BC-7	Laboratory: Pace (Sequoia) Other _____
Analyzed for: GRO BTEX MTBE DRO	Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	4.4 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

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:

319

Station #

5101 Mission, San Francisco

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

added equip. rinse water _____ any other adjustments _____

TOTAL GALS. RECOVERED 6 loaded onto BTS vehicle # 58

BTS event # 050105-BA2 time 1100 date 1/5/05

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 RM have been reviewed and verified by that laboratory.

Sequoia Analytical

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

24 January, 2005

Barbara Jakub
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: ARCO #0319, San Francisco, CA
Work Order: MOA0147

Enclosed are the results of analyses for samples received by the laboratory on 01/06/05 18:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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Morgan Hill, CA 95037
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www.sequoialabs.com

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0319, San Francisco, CA Project Number:INTRIM - 50407 Project Manager:Barbara Jakub	MOA0147 **Reported:** 01/24/05 11:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BC-3	MOA0147-01	Water	01/05/05 09:55	01/06/05 18:10
BC-4	MOA0147-02	Water	01/05/05 09:45	01/06/05 18:10
BC-5	MOA0147-03	Water	01/05/05 10:45	01/06/05 18:10
BC-6	MOA0147-04	Water	01/05/05 10:35	01/06/05 18:10
BC-7	MOA0147-05	Water	01/05/05 10:25	01/06/05 18:10
TB-319-01052005	MOA0147-06	Water	01/05/05 00:00	01/06/05 18:10

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with intact custody seals.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0319, San Francisco, CA Project Number:INTRIM - 50407 Project Manager:Barbara Jakub	MOA0147 **Reported:** 01/24/05 11:01

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BC-3 (MOA0147-01) Water Sampled: 01/05/05 09:55 Received: 01/06/05 18:10									
tert-Amyl methyl ether	ND	50	ug/l	100	5A12009	01/12/05	01/12/05	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
Ethanol	ND	10000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Xylenes (total)	**51**	50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**5300**	5000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*60-135*		"	"	"	"	
BC-4 (MOA0147-02) Water Sampled: 01/05/05 09:45 Received: 01/06/05 18:10									
tert-Amyl methyl ether	ND	25	ug/l	50	5A12009	01/12/05	01/12/05	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	**270**	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Toluene	**370**	25	"	"	"	"	"	"	
Xylenes (total)	**5100**	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**22000**	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*60-135*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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URS Corporation [Arco]	Project:ARCO #0319, San Francisco, CA	MOA0147
1333 Broadway, Suite 800	Project Number:INTRIM - 50407	**Reported:**
Oakland CA, 94612	Project Manager:Barbara Jakub	01/24/05 11:01

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BC-5 (MOA0147-03) Water Sampled: 01/05/05 10:45 Received: 01/06/05 18:10									
tert-Amyl methyl ether	ND	25	ug/l	50	5A13006	01/13/05	01/13/05	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**4300**	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*60-135*		"	"	"	"	
BC-6 (MOA0147-04) Water Sampled: 01/05/05 10:35 Received: 01/06/05 18:10									
tert-Amyl methyl ether	ND	25	ug/l	50	5A12009	01/12/05	01/12/05	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**3900**	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*60-135*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project:ARCO #0319, San Francisco, CA Project Number:INTRIM - 50407 Project Manager:Barbara Jakub	MOA0147 **Reported:** 01/24/05 11:01

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BC-7 (MOA0147-05) Water Sampled: 01/05/05 10:25 Received: 01/06/05 18:10									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5A12009	01/12/05	01/12/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*60-135*		"	"	"	"	

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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 5A12009 - EPA 5030B P/T / EPA 8260B										
Blank (5A12009-BLK1)				Prepared & Analyzed: 01/12/05						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							IC
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*4.87*		"	*5.00*		*97*	*60-135*			
Laboratory Control Sample (5A12009-BS1)				Prepared & Analyzed: 01/12/05						
tert-Amyl methyl ether	9.44	0.50	ug/l	10.0		94	80-115			
Benzene	9.02	0.50	"	10.0		90	65-115			
tert-Butyl alcohol	50.3	20	"	50.0		101	75-150			
Di-isopropyl ether	8.71	0.50	"	10.0		87	75-125			
1,2-Dibromoethane (EDB)	10.3	0.50	"	10.0		103	85-120			
1,2-Dichloroethane	9.51	0.50	"	10.0		95	85-130			
Ethanol	167	100	"	200		84	70-135			IC
Ethyl tert-butyl ether	8.70	0.50	"	10.0		87	75-130			
Ethylbenzene	9.54	0.50	"	10.0		95	75-135			
Methyl tert-butyl ether	9.09	0.50	"	10.0		91	65-125			
Toluene	9.76	0.50	"	10.0		98	85-120			
Xylenes (total)	28.4	0.50	"	30.0		95	85-125			
Surrogate: 1,2-Dichloroethane-d4	*4.53*		"	*5.00*		*91*	*60-135*			

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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 5A12009 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (5A12009-BS2)				Prepared & Analyzed: 01/12/05						
Benzene	5.27	0.50	ug/l	6.40		82	65-115			
Ethylbenzene	7.87	0.50	"	7.52		105	75-135			
Methyl tert-butyl ether	8.32	0.50	"	9.92		84	65-125			
Toluene	33.4	0.50	"	31.9		105	85-120			
Xylenes (total)	38.5	0.50	"	36.6		105	85-125			
Gasoline Range Organics (C4-C12)	379	50	"	440		86	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.83*		"	*5.00*		*97*	*60-135*			
Laboratory Control Sample Dup (5A12009-BSD1)				Prepared & Analyzed: 01/12/05						
tert-Amyl methyl ether	10.1	0.50	ug/l	10.0		101	80-115	7	15	
Benzene	9.80	0.50	"	10.0		98	65-115	8	20	
tert-Butyl alcohol	49.2	20	"	50.0		98	75-150	2	25	
Di-isopropyl ether	9.39	0.50	"	10.0		94	75-125	8	15	
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0		112	85-120	8	15	
1,2-Dichloroethane	10.3	0.50	"	10.0		103	85-130	8	20	
Ethanol	172	100	"	200		86	70-135	3	35	
Ethyl tert-butyl ether	9.19	0.50	"	10.0		92	75-130	5	25	
Ethylbenzene	10.1	0.50	"	10.0		101	75-135	6	15	
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	65-125	11	20	
Toluene	10.7	0.50	"	10.0		107	85-120	9	20	
Xylenes (total)	30.2	0.50	"	30.0		101	85-125	6	20	
Surrogate: 1,2-Dichloroethane-d4	*4.69*		"	*5.00*		*94*	*60-135*			
Matrix Spike (5A12009-MS1)	**Source: MOA0147-01**			Prepared & Analyzed: 01/12/05						
Benzene	521	50	ug/l	640	ND	81	65-115			
Ethylbenzene	794	50	"	752	ND	106	75-135			
Methyl tert-butyl ether	826	50	"	992	ND	83	65-125			
Toluene	3620	50	"	3190	20	113	85-120			
Xylenes (total)	4020	50	"	3660	51	108	85-125			
Gasoline Range Organics (C4-C12)	43100	5000	"	44000	5300	86	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.84*		"	*5.00*		*97*	*60-135*			

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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 5A12009 - EPA 5030B P/T / EPA 8260B										
Matrix Spike Dup (5A12009-MSD1)	**Source: MOA0147-01**			Prepared & Analyzed: 01/12/05						
Benzene	486	50	ug/l	640	ND	76	65-115	7	20	
Ethylbenzene	757	50	"	752	ND	101	75-135	5	15	
Methyl tert-butyl ether	804	50	"	992	ND	81	65-125	3	20	
Toluene	3360	50	"	3190	20	105	85-120	7	20	
Xylenes (total)	3790	50	"	3660	51	102	85-125	6	20	
Gasoline Range Organics (C4-C12)	41000	5000	"	44000	5300	81	70-124	5	20	
Surrogate: 1,2-Dichloroethane-d4	*4.53*		*"*	*5.00*		*91*	*60-135*			
Batch 5A13006 - EPA 5030B P/T / EPA 8260B										
Blank (5A13006-BLK1)				Prepared & Analyzed: 01/13/05						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*4.95*		*"*	*5.00*		*99*	*60-135*			
Laboratory Control Sample (5A13006-BS1)				Prepared & Analyzed: 01/13/05						
tert-Amyl methyl ether	9.46	0.50	ug/l	10.0		95	80-115			
Benzene	9.17	0.50	"	10.0		92	65-115			
tert-Butyl alcohol	50.9	20	"	50.0		102	75-150			
Di-isopropyl ether	8.78	0.50	"	10.0		88	75-125			
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0		106	85-120			
1,2-Dichloroethane	9.92	0.50	"	10.0		99	85-130			
Ethanol	161	100	"	200		80	70-135			
Ethyl tert-butyl ether	8.95	0.50	"	10.0		90	75-130			
Ethylbenzene	9.35	0.50	"	10.0		94	75-135			
Methyl tert-butyl ether	9.59	0.50	"	10.0		96	65-125			

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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 5A13006 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (5A13006-BS1)				Prepared & Analyzed: 01/13/05						
Toluene	9.66	0.50	ug/l	10.0		97	85-120			
Xylenes (total)	27.1	0.50	"	30.0		90	85-125			
Surrogate: 1,2-Dichloroethane-d4	*4.74*		"	*5.00*		*95*	*60-135*			
Laboratory Control Sample (5A13006-BS2)				Prepared & Analyzed: 01/13/05						
Benzene	4.98	0.50	ug/l	6.40		78	65-115			
Ethylbenzene	7.70	0.50	"	7.52		102	75-135			
Methyl tert-butyl ether	7.90	0.50	"	9.92		80	65-125			
Toluene	34.3	0.50	"	31.9		108	85-120			
Xylenes (total)	38.1	0.50	"	36.6		104	85-125			
Gasoline Range Organics (C4-C12)	378	50	"	440		86	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.85*		"	*5.00*		*97*	*60-135*			
Laboratory Control Sample Dup (5A13006-BSD1)				Prepared & Analyzed: 01/13/05						
tert-Amyl methyl ether	9.60	0.50	ug/l	10.0		96	80-115	1	15	
Benzene	9.81	0.50	"	10.0		98	65-115	7	20	
tert-Butyl alcohol	47.9	20	"	50.0		96	75-150	6	25	
Di-isopropyl ether	9.42	0.50	"	10.0		94	75-125	7	15	
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0		107	85-120	0.9	15	
1,2-Dichloroethane	10.4	0.50	"	10.0		104	85-130	5	20	
Ethanol	152	100	"	200		76	70-135	6	35	
Ethyl tert-butyl ether	9.26	0.50	"	10.0		93	75-130	3	25	
Ethylbenzene	9.85	0.50	"	10.0		98	75-135	5	15	
Methyl tert-butyl ether	9.69	0.50	"	10.0		97	65-125	1	20	
Toluene	10.1	0.50	"	10.0		101	85-120	4	20	
Xylenes (total)	28.9	0.50	"	30.0		96	85-125	6	20	
Surrogate: 1,2-Dichloroethane-d4	*4.85*		"	*5.00*		*97*	*60-135*			

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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 5A13006 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (5A13006-MS1)	**Source: MOA0211-05**			Prepared & Analyzed: 01/13/05						
Benzene	547	25	ug/l	320	300	77	65-115			
Ethylbenzene	938	25	"	376	560	101	75-135			
Methyl tert-butyl ether	920	25	"	496	470	91	65-125			
Toluene	1640	25	"	1600	8.5	102	85-120			
Xylenes (total)	2660	25	"	1830	820	101	85-125			
Gasoline Range Organics (C4-C12)	26200	2500	"	22000	8300	81	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.99*		"	*5.00*		*100*	*60-135*			
Matrix Spike Dup (5A13006-MSD1)	**Source: MOA0211-05**			Prepared & Analyzed: 01/13/05						
Benzene	566	25	ug/l	320	300	83	65-115	3	20	
Ethylbenzene	960	25	"	376	560	106	75-135	2	15	
Methyl tert-butyl ether	937	25	"	496	470	94	65-125	2	20	
Toluene	1680	25	"	1600	8.5	104	85-120	2	20	
Xylenes (total)	2740	25	"	1830	820	105	85-125	3	20	
Gasoline Range Organics (C4-C12)	26600	2500	"	22000	8300	83	70-124	2	20	
Surrogate: 1,2-Dichloroethane-d4	*4.88*		"	*5.00*		*98*	*60-135*			

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Notes and Definitions

IC	Calib. verif. is within method limits but outside contract limits
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Chain of Custody Record

Project Name 0319 GWM
BP BU/GEM CO Portfolio Retail (M0A0147)
BP Laboratory Contract Number: Atlantic Richfield Company
Date: 1/5/05 Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: 0945 Temp: 60
Off-site Time: 1100 Temp: 60
Sky Conditions: overcast/rain
Meteorological Events:
Wind Speed: — Direction:

Send To:	BP/GEM Facility No.: ARCO 319	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 5101 Mission St., SAN FRANCISCO, CA	Address: 1333 Broadway, Suite 800
Lab Address: 885 Jarvis Dr.	Site ID No. ARCO 319	Oakland, CA 94612
Morgan Hill, CA 95037	Site Lat/Long:	e-mail EDD: donna_cosper@URSCorp.com
	California Global ID #: T0607500023	Consultant/Contractor Project No.: J4-00000319.01 00427
Lab PM Lisa Race	BP/GEM PM Contact: CHUCK CARMEL	Consultant Tele/Fax: 510-893-3600/510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address: PO Box 1452	Consultant/Contractor PM: Barb Jakub
Report Type & QC Level: 1 Send EDF Reports	Alamo, CA 94507-1023	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.:	Tele/Fax: 925-946-1085/925-946-1084	BP/GEM Work Release No: INTRIM -50107

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Water/Liquid	Sediments	Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl			Requested Analysis: GRO / BTEX ~~8015/8020~~ 8260	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DIPE, TBA (8260)	1,2-DCA & EDB (8260)	Ethanol (8260)				Sample Point Lat/Long and Comments
1	BC-3	0955		X			01	3				X			X				X	X	X				
2	BC-4	0945		X			02	3				X			X				X	X	X				
3	BC-5	1045		X			03	3				X			X				X	X	X				
4	BC-6	1035		X			04	3				X			X				X	X	X				
5	BC-7	1025		X			05	3				X			X				X	X	X				
6	TB-319-010505	1100		X			06	2				X													ON HOLD
7																									
8																									
9																									
10																									

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Brian Alcorn						
Sampler's Company: Blaine Tech Services		1/6/05	1125		1/6/05	1125
Shipment Date:		1/6/05	1819		1/6/05	1840
Shipment Method:						
Shipment Tracking No:						

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

Custody Seals In Place Yes X No ___ Temperature Blank Yes X No ___ Cooler Temperature on Receipt ___ °F/C Trip Blank Yes X No

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

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 319
REC. BY (PRINT): TD
WORKORDER: MDX 0147

DATE REC'D AT LAB: 1/8/05
TIME REC'D AT LAB: 1810
DATE LOGGED IN: 1-7-05

For Regulatory Purposes?
DRINKING WATER YES / NO
WASTE WATER YES / NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent; Intact / Broken*	01	-	BC-3	VOA (3)	HCl	—	W	1/5/05	
2. Chain-of-Custody Present / Absent*	02		-4						
3. Traffic Reports or Packing List: Present / Absent	03		-5						
4. Airbill: Airbill / Sticker Present / Absent	04		-6						
5. Airbill #:	05		-7						
6. Sample Labels: Present / Absent			TB-319-010505	(2)					
7. Sample IDs: Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper Preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No									
14. Temp Rec. at Lab: 2.4 Is temp 4+/-2°C? Yes / No**									

(Acceptance range for samples requiring thermal pres.)
**Exception (if any): METALS / OFF ON ICE or Problem COC

1/8/05

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

SRI, Revision 6
Replaces Rev 5 (06/07/04)
Effective 07/13/04

ATTACHMENT C

ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

SUCCESSFUL GEO_WELL CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	1/26/2005 2:03:02 PM

Processing is complete. No errors were found!
You may now proceed to the upload page.

Back to Main Menu

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

UPLOADING A GEO_WELL FILE

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Title:	**1Q 2005 geowell 319**
Submittal Date/Time:	**1/26/2005 2:03:53 PM**
Confirmation Number:	**7444782853**

Back to Main Menu

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

SUCCESSFUL EDF CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	1/27/2005 10:28:20 AM
GLOBAL ID:	T0607500023
FILE UPLOADED:	ARCO#0319-EDF-MOA0147.zip

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ARCO # 00319
5101 MISSION STREET
SAN
FRANCISCO, CA 94112

Regional Board - Case #: 38-0024
SAN FRANCISCO BAY RWQCB (REGION 2) - **(VP)**
Local Agency (lead agency) - Case #: 10157
SAN FRANCISCO COUNTY LOP - **(SC)**

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	4
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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CONTACT SITE ADMINISTRATOR.

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Facility Name: ARCO # 00319
Submittal Title: 1Q05 GW Monitoring Report
Submittal Type: GW Monitoring Report

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ARCO # 00319
5101 MISSION STREET
SAN FRANCISCO, CA 94112

Regional Board - Case #: 38-0024
SAN FRANCISCO BAY RWQCB (REGION 2) - **(VP)**
Local Agency (lead agency) - Case #: 10157
SAN FRANCISCO COUNTY LOP - **(SC)**

CONF #	TITLE	QUARTER
4810558557	1Q05 GW Monitoring Report	Q1 2005

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	1/27/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	4
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

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TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
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- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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