



Atlantic Richfield Company  
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Alameda County  
AUG 02 2005  
Environmental Health

July 28, 2005

Re: Second Quarter 2005 Groundwater Monitoring Report  
Former BP Service Station # 11120  
6400 Dublin Road  
Dublin, California  
ACEH Case No.: R00002431

I declare that, to the best of my knowledge at the present time, the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Kyle Christie  
Environmental Business Manager



July 28, 2005

Ms. Donna Drogas  
Alameda County Environmental Health (ACEH)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Alameda County  
AUG 02 2005  
Environmental Health

**Re: Second Quarter 2005 Groundwater Monitoring Report  
Former BP Service Station # 11120  
6400 Dublin Road  
Dublin, California  
ACEH Case No.: RO0002431**

Dear Ms. Drogas:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Second Quarter 2005 Groundwater Monitoring Report* for the Former BP Service Station #11120, located at 6400 Dublin Road, Dublin, California.

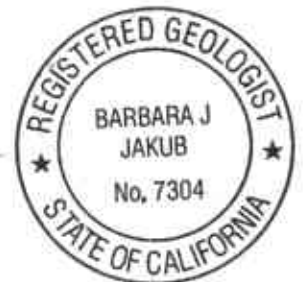
If you have any questions regarding this submission, please call me at (510) 874-1758.

Sincerely,

**URS CORPORATION**

Lynelle Onishi  
Project Manager

Barbara J. Jakub, P.G.  
Senior Geologist



Enclosure: Second Quarter 2005 Groundwater Monitoring Report

cc: Mr. Kyle Christie, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS  
Ms. Shelby Lathrop, ConocoPhillips, electronic copy uploaded to URS ftp server

**R E P O R T**

**SECOND QUARTER 2005  
GROUNDWATER MONITORING  
REPORT**

**FORMER BP SERVICE STATION #11120  
6400 DUBLIN ROAD  
DUBLIN, CALIFORNIA**

*Prepared for*  
RM

July 28, 2005

**URS**

URS Corporation  
1333 Broadway, Suite 800  
Oakland, California 94612

Date: July 28, 2005  
Quarter: 2Q 05

## SECOND QUARTER 2005 GROUNDWATER MONITORING REPORT

Former Facility No.: 11120 Address: 6400 Dublin Road, Dublin, CA  
RM Environmental Business Manager: Kyle Christie  
Consulting Co./Contact Person: URS Corporation / Lynelle Onishi  
Primary Agency: Alameda County Environmental Health (ACEH)  
ACEH Case No: RO0002431

### WORK PERFORMED THIS QUARTER (Second – 2005):

1. Prepared and submitted the First Quarter 2005 Groundwater Monitoring Report.
2. Performed the second quarter 2005 groundwater monitoring event on June 10, 2005.

### WORK PROPOSED FOR NEXT QUARTER (Third – 2005):

1. Prepare and submit this Second Quarter 2005 Groundwater Monitoring Report.
2. Perform the third quarter 2005 groundwater monitoring event.

Current Phase of Project:	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>Wells MW-8 through MW-11 quarterly</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
Current Remediation Techniques:	<u>None</u>
Approximate Depth to Groundwater:	<u>4.00 (MW-10) to 6.00 (MW-11) feet</u>
Groundwater Gradient (direction):	<u>Southwest</u>
Groundwater Gradient (magnitude):	<u>0.004 feet per foot</u>

### DISCUSSION:

Benzene was detected at or above the laboratory reporting limit in one of the four wells sampled this quarter at a concentration of 4.1 micrograms per liter ( $\mu\text{g/L}$ ) (MW-11). Methyl tert-butyl ether was detected at or above the laboratory reporting limit in three of the four wells sampled at concentrations ranging from 1.2  $\mu\text{g/L}$  (MW-10) to 100  $\mu\text{g/L}$  (MW-11). No other fuel components were detected at or above their respective laboratory reporting limits in any of the four wells sampled this quarter.

**ATTACHMENTS:**

- Figure 1– Groundwater Elevation Contour and Analytical Summary Map – June 10, 2005
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- 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
- Attachment D – Historical Groundwater Analytical Data for Former Wells Abandoned in 1999 (Source: Alisto Engineering)



Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11120  
6400 Dublin Blvd., Dublin, CA

Well No.	Date	P/ NP	TOC (ft MSL)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	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
MW-8	02/25/2002	--	328.94	6.02	--	322.92	<50	<0.5	<0.5	<0.5	<0.5	1.98	--	PACE	--	
	09/30/2002	--	328.94	6.16	--	322.78	<50	<0.5	<0.5	<0.5	<0.5	2.9/4.8	--	SEQM	--	a
	12/13/2002	--	328.94	5.81	--	323.13	<50	<0.5	<0.5	<0.5	<0.5	5.9/6.4	--	SEQM	--	a
	03/12/2003	--	328.94	5.80	--	323.14	<50	<0.50	<0.50	<0.50	<0.50	4.3/3.8	--	SEQM	--	
	06/28/2003	--	328.94	5.70	--	323.24	<50	<0.50	<0.50	<0.50	<0.50	4.1	--	SEQM	--	b
	09/30/2003	--	328.94	5.90	--	323.04	<50	<0.50	<0.50	<0.50	<0.50	4.1	--	SEQM	--	
	12/05/2003	P	328.94	5.89	--	323.05	<50	<0.50	<0.50	<0.50	<0.50	6.7	--	SEQM	7.2	
	03/10/2004	P	328.94	4.74	--	324.20	<50	<0.50	<0.50	<0.50	<0.50	5.1	--	SEQM	6.7	
	06/21/2004	P	328.94	6.12	--	322.82	<50	<0.50	<0.50	<0.50	<0.50	7.5	--	SEQM	7.0	
	09/17/2004	P	328.94	6.38	--	322.56	<50	<0.50	<0.50	<0.50	<0.50	6.6	--	SEQM	7.2	
MW-9	12/13/2004	P	328.94	5.47	--	323.47	<50	<0.50	<0.50	<0.50	<0.50	6.7	--	SEQM	6.8	
	03/03/2005	P	328.94	4.43	--	324.51	<50	<0.50	<0.50	<0.50	<0.50	5.6	--	SEQM	6.9	
	06/10/2005	P	328.94	5.35	--	323.59	<50	<0.50	<0.50	<0.50	<0.50	6.2	--	SEQM	6.9	
	02/25/2002	--	329.96	5.90	--	324.06	<250	<2.50	<2.50	<2.50	<5.00	<2.50	--	PACE	--	
	09/30/2002	--	329.96	6.92	--	323.04	<50	<0.5	<0.5	<0.5	<0.5	1.4/3.3	--	SEQM	--	a
	12/13/2002	--	329.96	6.51	--	323.45	<50	<0.5	<0.5	<0.5	<0.5	0.53/<2.5	--	SEQM	--	a
	03/12/2003	--	329.96	6.86	--	323.10	<50	<0.50	<0.50	<0.50	<0.50	0.59/<2.5	--	SEQM	--	
	06/28/2003	--	329.96	5.95	--	324.01	<50	<0.50	<0.50	<0.50	<0.50	1.0	--	SEQM	--	b
	09/30/2003	--	329.96	6.24	--	323.72	<50	<0.50	<0.50	<0.50	<0.50	16	--	SEQM	--	
	12/05/2003	P	329.96	7.21	--	322.75	<50	<0.50	<0.50	<0.50	<0.50	33	--	SEQM	7.6	
MW-10	03/10/2004	P	329.96	5.37	--	324.59	<50	<0.50	<0.50	<0.50	<0.50	2.4	--	SEQM	7.1	
	06/21/2004	P	329.96	6.67	--	323.29	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	SEQM	7.8	
	09/17/2004	P	329.96	7.89	--	322.07	<50	<0.50	<0.50	<0.50	<0.50	0.72	--	SEQM	7.5	
	12/13/2004	P	329.96	5.22	--	324.74	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.6	
	03/03/2005	P	329.96	5.12	--	324.84	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.6	
	06/10/2005	P	329.96	5.90	--	324.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.5	
	02/25/2002	--	327.44	4.21	--	323.23	53	2.58	<0.5	2.83	8.46	<0.5	--	PACE	--	
	09/30/2002	--	327.44	4.71	--	322.73	<50	<0.5	<0.5	<0.5	<0.5	0.51/2.8	--	SEQM	--	a
	12/13/2002	--	327.44	6.36	--	321.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5/<2.5	--	SEQM	--	a
	03/12/2003	--	327.44	7.96	--	319.48	<50	<0.50	<0.50	<0.50	<0.50	0.76/<2.5	--	SEQM	--	
06/28/2003	--	327.44	7.70	--	319.74	<50	<0.50	<0.50	<0.50	<0.50	0.68	--	SEQM	--	b	
09/30/2003	--	327.44	7.57	--	319.87	<50	<0.50	<0.50	<0.50	<0.50	0.71	--	SEQM	--		
12/05/2003	P	327.44	6.64	--	320.80	<50	<0.50	<0.50	<0.50	<0.50	0.78	--	SEQM	7.1		

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11120  
6400 Dublin Blvd., Dublin, CA

Well No.	Date	P/ NP	TOC (ft MSL)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	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
MW-10	03/10/2004	P	327.44	5.20	--	322.24	<50	<0.50	<0.50	<0.50	<0.50	0.58	--	SEQM	6.4	
	06/21/2004	P	327.44	7.45	--	319.99	<50	<0.50	<0.50	<0.50	<0.50	1.1	--	SEQM	7.0	
	09/17/2004	P	327.44	7.49	--	319.95	<50	<0.50	<0.50	<0.50	<0.50	0.82	--	SEQM	7.0	
	12/13/2004	P	327.44	5.19	--	322.25	<50	<0.50	<0.50	<0.50	<0.50	0.73	--	SEQM	6.8	
	03/03/2005	P	327.44	4.86	--	322.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.9	
	<b>06/10/2005</b>	<b>P</b>	<b>327.44</b>	<b>4.00</b>	<b>--</b>	<b>323.44</b>	<b>&lt;50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>1.2</b>	<b>--</b>	<b>SEQM</b>	<b>6.8</b>
MW-11	02/25/2002	--	329.75	6.02	--	323.73	1,800	1.34	<0.5	<0.5	<1.0	2,550	--	PACE	--	
	09/30/2002	--	329.75	7.12	--	322.63	<50	<0.5	<0.5	<0.5	<0.5	1,500/1,400	--	SEQM	--	a
	12/13/2002	--	329.75	6.60	--	323.15	1,300	<10	<10	<10	<10	1,400/2,000	--	SEQM	--	a
	03/12/2003	--	329.75	5.79	--	323.96	<500	<5.0	<5.0	<5.0	<5.0	650/2,900	--	SEQM	--	
	06/28/2003	--	329.75	5.68	--	324.07	<5,000	<50	<50	<50	<50	2,500	--	SEQM	--	b
	09/30/2003	--	329.75	6.68	--	323.07	5,100	<25	<25	<25	<25	3,200	--	SEQM	--	
	12/05/2003	P	329.75	6.69	--	323.06	<5,000	<50	<50	<50	<50	3,500	--	SEQM	7.2	
	03/10/2004	P	329.75	5.29	--	324.46	3,000	<25	<25	<25	<25	1,800	--	SEQM	6.8	
	06/21/2004	P	329.75	6.65	--	323.10	<5,000	<50	<50	<50	<50	1,900	--	SEQM	7.1	
	09/17/2004	P	329.75	7.02	--	322.73	<2,500	<25	<25	<25	<25	1,700	--	SEQM	7.1	
	12/13/2004	P	329.75	6.01	--	323.74	650	<5.0	<5.0	<5.0	<5.0	610	--	SEQM	6.9	
	03/03/2005	P	329.75	5.13	--	324.62	250	<2.5	<2.5	<2.5	<2.5	190	--	SEQM	7.0	c
	<b>06/10/2005</b>	<b>P</b>	<b>329.75</b>	<b>6.00</b>	<b>--</b>	<b>323.75</b>	<b>&lt;100</b>	<b>4.1</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>100</b>	<b>--</b>	<b>SEQM</b>	<b>7.0</b>	



**Table 1**

**Groundwater Elevation and Analytical Data**

Former BP Station #11120  
6400 Dublin Blvd., Dublin, CA

**ABBREVIATIONS AND SYMBOLS:**

TOC = Top of Casing  
DTW = Depth to Water  
GWE = Groundwater Elevation  
GRO = Gasoline range organics, C4-C12  
TPH-g = Total petroleum hydrocarbons as gasoline  
MTBE = Methyl tert butyl ether by EPA method 8021B (prior to 6/28/03) or 8260B  
DO = Dissolved oxygen  
ug/L = Micrograms per liter  
mg/L = Milligrams per liter  
< = Not detected at or above laboratory reporting limit  
-- = Not sampled/applicable/analyzed/measured  
PACE = Pace, Inc.  
SEQM = Sequoia Analytical Laboratory

**FOOTNOTES:**

- a. Analyzed by EPA method 8260 B; fuel oxygenates include ethanol, tert-butyl alcohol, di-isopropyl ether, ethyl tert-butyl ether, tert-amyl methyl ether; lead scavengers include: 1,2 dichloroethane & ethylene dibromide
- b. Beginning on the second quarter 2003 monitoring event (6/28/03),TPHg, BTEX, MTBE and fuel oxygenates analyzed by EPA Method 8260B.
- c. The hydrocarbon result for GRO was partly due to individual peaks in the quantification range.

**NOTES:**

Top of casing elevations surveyed relative to an elevation of 18,409 feet above mean sea level.

Groundwater elevations in feet above mean sea level.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

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

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

**Table 2**

**Fuel Additives Analytical Data**

Former BP Station #11120  
6400 Dublin Blvd., Dublin, 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)	Footnotes/ Comments
MW-8	03/12/2003	<100	<20	4.3/3.8	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/28/2003	<100	<20	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/30/2003	<100	<20	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/05/2003	<100	<20	6.7	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/10/2004	<100	<20	5.1	<0.50	<0.50	<0.50	<0.50	<0.50	a
	06/21/2004	<100	<20	7.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/17/2004	16	<20	6.6	<0.50	<0.50	<0.50	<0.50	<0.50	b
	12/13/2004	<100	<20	6.7	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/03/2005	<100	<20	5.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	<b>06/10/2005</b>	<b>&lt;100</b>	<b>&lt;20</b>	<b>6.2</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
MW-9	03/12/2003	<100	<20	0.59/<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/28/2003	<100	<20	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/30/2003	<100	<20	16	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/05/2003	<100	<20	33	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/10/2004	<100	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	a
	06/21/2004	<100	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/17/2004	13	<20	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	b
	12/13/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	<b>06/10/2005</b>	<b>&lt;100</b>	<b>&lt;20</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
MW-10	03/12/2003	<100	<20	0.76/<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/28/2003	<100	<20	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/30/2003	<100	<20	0.71	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/05/2003	<100	<20	0.78	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/10/2004	<100	<20	0.58	<0.50	<0.50	<0.50	<0.50	<0.50	a
	06/21/2004	<100	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/17/2004	9.4	<20	0.82	<0.50	<0.50	<0.50	<0.50	<0.50	b
	12/13/2004	<100	<20	0.73	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/03/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	<b>06/10/2005</b>	<b>&lt;100</b>	<b>&lt;20</b>	<b>1.2</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
MW-11	03/12/2003	<1,000	<200	650/2,900	<5.0	<5.0	<5.0	<5.0	<5.0	
	06/28/2003	<10,000	<2,000	2,500	<50	<50	<50	<50	<50	
	09/30/2003	<5,000	<1,000	3,200	<25	<25	<25	<25	<25	

**Table 2**

**Fuel Additives Analytical Data**

Former BP Station #11120  
6400 Dublin Blvd., Dublin, 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)	Footnotes/ Comments
MW-11	12/05/2003	<10,000	<2,000	3,500	<50	<50	<50	<50	<50	
	03/10/2004	<5,000	<1,000	1,800	<25	<25	<25	<25	<25	a
	06/21/2004	<10,000	<2,000	1,900	<50	<50	<50	<50	<50	
	09/17/2004	13	<1,000	1,700	<25	<25	<25	<25	<25	b
	12/13/2004	<1,000	<200	610	<5.0	<5.0	<5.0	<5.0	<5.0	
	03/03/2005	<500	<100	190	<2.5	<2.5	<2.5	<2.5	<2.5	
	06/10/2005	<200	<40	100	<1.0	<1.0	<1.0	<1.0	<1.0	a, c

## Table 2

### Fuel Additives Analytical Data

Former BP Station #11120

6400 Dublin Blvd., Dublin, 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

ug/L = micrograms per liter

< = Not detected at or above laboratory reporting limits.

#### 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.

b = Split samples were analyzed for ethanol by EPA Method 8260B SIM; Ethanol was detected in trip blank at 34 micrograms per liter. Ethanol was not detected in confirmatory analysis of samples and trip blank on a different instrument; however, holding time had expired by then.

c = LCS recorded above methanol control limits. Analyte not detected. Data not impacted.

#### NOTES:

All volatile organic compounds (Ethanol, TBA, MTBE, DIPE, ETBE, TAME, EDC, and EDB) analyzed using EPA Method 8260B

**ATTACHMENT A**  
**FIELD PROCEDURES AND FIELD DATA SHEETS**

## **FIELD PROCEDURES**

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### **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 # 050610-PM1 Date 6/10/05 Client BP 11/20

Site 6400 Dublin Blvd. Dublin

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	
mw-8	2					5.35	19.75	↓	3
mw-9	2					5.90	19.79		2
mw-10	2					4.00	19.73		1
mw-11	2					6.00	19.60		4
removed caps & waited 15 min for stability									

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050610-PM1	Station # BP 11120
Sampler: PM	Date: 6/10/05
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8
Total Well Depth: 19.75	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 <sup>2</sup> * 0.163

Purge Method: Bailer  
Disposable Bailer  
 Positive Air Displacement  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method: Bailer  
Disposable Bailer  
 Extraction Port  
 Other: \_\_\_\_\_

80% = 8.23

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.

DTW = 10.20

2.3	x	3	=	6.9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
1137	71.1	6.9	<del>1085</del>	2.3	cloudy
1141	69.6	6.9	2994	4.6	cloudy
1146	69.5	6.9	2943	6.9	cloudy/clearer

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 6.9
Sampling Time: 1153	Sampling Date: 6/10/05
Sample I.D.: MW-8	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: GRO BTEX MTBE DRO	Other: see scope of work
D.O. (if req'd):	Pre-purge: _____ mg/L      Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV      Post-purge: _____ mV



## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050010-PM1</u>	Station # <u>BP 1120</u>
Sampler: <u>PM</u>	Date: <u>6/10/05</u>
Well I.D.: <u>MW-9</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>19.79</u>	Depth to Water: <u>5.90</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> 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 <sup>2</sup> * 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.

80% = 8.68

NTW = 8.36

<u>2.2</u>	x	<u>3</u>	=	<u>6.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>(µS)</u> )	Gals. Removed	Observations
<u>1059</u>	<u>68.3</u>	<u>7.7</u>	<u>1130</u>	<u>2.2</u>	<u>cloudy</u>
<u>1103</u>	<u>67.1</u>	<u>7.4</u>	<u>1079</u>	<u>4.4</u>	<u>cloudy</u>
<u>1108</u>	<u>67.5</u>	<u>7.5</u>	<u>1056</u>	<u>6.6</u>	<u>cloudy/clearer</u>

Did well dewater? Yes  No  Gallons actually evacuated: 6.6

Sampling Time: 1113 Sampling Date: 6/10/05

Sample I.D.: MW-9 Laboratory: Pace (Sequoia) Other \_\_\_\_\_

Analyzed for: GRO BTEX MTBE DRO Other: see scope of work

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050610-PM1</u>	Station # <u>BP 11120</u>
Sampler: <u>PM</u>	Date: <u>6/10/05</u>
Well I.D.: <u>MW-10</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>19.73</u>	Depth to Water: <u>4.00</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> 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 <sup>2</sup> * 0.163

Purge Method: Bailer  
Disposable Bailer  
 Positive Air Displacement  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method: Bailer  
Disposable Bailer  
 Extraction Port  
 Other: \_\_\_\_\_ 50% = 7.15

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.

<u>2.5</u>	x	<u>3</u>	=	<u>7.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

STW = 6.99

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
10:11	68.8	6.5	7418	2.5	cloudy / tan
10:16	68.2	6.8	7517	5	" "
10:21	68.5	6.8	7731	7.5	" "

Did well dewater? Yes  No  Gallons actually evacuated: 7.5

Sampling Time: 1030 Sampling Date: 6/10/05

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

Analyzed for: GRO BTEX MTBE DRO Other: see scope of work

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050610-PM1</u>	Station # <u>BP 11120</u>
Sampler: <u>PM</u>	Date: <u>6/10/05</u>
Well I.D.: <u>MW-11</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>19.60</u>	Depth to Water: <u>6.00</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> 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 <sup>2</sup> * 0.163

Purge Method: Bailer  
Disposable Bailer  
 Positive Air Displacement  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method: Bailer  
Disposable Bailer  
 Extraction Port  
 Other: \_\_\_\_\_

80% = 8.72

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.

DTW = 6.33

<u>2.2</u>	x	<u>3</u>	=	<u>6.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u> )	Gals. Removed	Observations
<u>1224</u>	<u>71.9</u>	<u>7.1</u>	<u>2053</u>	<u>2.2</u>	<u>cloudy</u>
<u>1230</u>	<u>70.7</u>	<u>7.0</u>	<u>2056</u>	<u>4.4</u>	<u>"</u>
<u>1237</u>	<u>70.9</u>	<u>7.0</u>	<u>2045</u>	<u>6.6</u>	<u>" / clearer</u>

Did well dewater? Yes (No) Gallons actually evacuated: 6.6

Sampling Time: 1243 Sampling Date: 6/10/05

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

Analyzed for: GRO BTEX MTBE DRO Other: see scope of work

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

O.R.P. (if req'd): Pre-purge: \_\_\_\_\_ mV Post-purge: \_\_\_\_\_ mV

**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:

11120  
Station #

6400 Dublin Blvd Dublin  
Station Address

Total Gallons Collected From Groundwater Monitoring Wells:  
28 gallons

added equip. any other  
rinse water 5 adjustments

TOTAL GALS. RECOVERED 33 loaded onto  
BTS vehicle # 99

BTS event # time date  
050610-PM 1 1330 0110105

signature Paul Manose

\*\*\*\*\*  
REC'D AT time date  
1 1

unloaded by  
signature

**ATTACHMENT B**

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

## LABORATORY PROCEDURES

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### **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.



24 June, 2005

Lynelle Onishi  
URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland, CA 94612

RE: BP Heritage #11120, Dublin, CA  
Work Order: MOF0462

Enclosed are the results of analyses for samples received by the laboratory on 06/13/05 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

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

Project:BP Heritage #11120, Dublin, CA  
Project Number:G07TM-0011  
Project Manager:Lynelle Onishi

MOF0462  
Reported:  
06/24/05 11:44

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-8	MOF0462-01	Water	06/10/05 11:53	06/13/05 18:10
MW-9	MOF0462-02	Water	06/10/05 11:13	06/13/05 18:10
MW-10	MOF0462-03	Water	06/10/05 10:30	06/13/05 18:10
MW-11	MOF0462-04	Water	06/10/05 12:43	06/13/05 18:10
TB-11120-06102005	MOF0462-05	Water	06/10/05 00:00	06/13/05 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 no custody seals.



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

 Project:BP Heritage #11120, Dublin, CA  
 Project Number:G07TM-0011  
 Project Manager:Lynelle Onishi

 MOF0462  
 Reported:  
 06/24/05 11:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-8 (MOF0462-01) Water Sampled: 06/10/05 11:53 Received: 06/13/05 18:10</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5F20003	06/20/05	06/20/05	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	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>6.2</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %	60-135		"	"	"	"	
<b>MW-9 (MOF0462-02) Water Sampled: 06/10/05 11:13 Received: 06/13/05 18:10</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5F20003	06/20/05	06/20/05	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	"	"	"	"	"	"	
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	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96 %	60-135		"	"	"	"	

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

 Project:BP Heritage #11120, Dublin, CA  
 Project Number:G07TM-0011  
 Project Manager:Lynelle Onishi

 MOF0462  
 Reported:  
 06/24/05 11:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW-10 (MOF0462-03) Water Sampled: 06/10/05 10:30 Received: 06/13/05 18:10**

tert-Amyl methyl ether	ND	0.50	ug/l	1	5F20003	06/20/05	06/20/05	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	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>1.2</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85 %		60-135	"	"	"	"	

**MW-11 (MOF0462-04) Water Sampled: 06/10/05 12:43 Received: 06/13/05 18:10**

tert-Amyl methyl ether	ND	1.0	ug/l	2	5F21003	06/21/05	06/22/05	EPA 8260B	
<b>Benzene</b>	<b>4.1</b>	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	40	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Ethanol	ND	200	"	"	"	"	"	"	IC, LP
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>100</b>	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93 %		60-135	"	"	"	"	

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

 Project:BP Heritage #11120, Dublin, CA  
 Project Number:G07TM-0011  
 Project Manager:Lynelle Onishi

 MOF0462  
 Reported:  
 06/24/05 11:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5F20003 - EPA 5030B P/T / EPA 8260B**
**Blank (5F20003-BLK1)**

Prepared &amp; Analyzed: 06/20/05

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.84</i>		<i>"</i>	<i>5.00</i>		<i>97</i>	<i>60-135</i>			

**Blank (5F20003-BLK2)**

Prepared &amp; Analyzed: 06/20/05

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>3.99</i>		<i>"</i>	<i>5.00</i>		<i>80</i>	<i>60-135</i>			

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

 Project:BP Heritage #11120, Dublin, CA  
 Project Number:G07TM-0011  
 Project Manager:Lynelle Onishi

 MOF0462  
 Reported:  
 06/24/05 11:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5F20003 - EPA 5030B P/T / EPA 8260B**
**Laboratory Control Sample (5F20003-BS1)**

Prepared &amp; Analyzed: 06/20/05

tert-Amyl methyl ether	11.2	0.50	ug/l	10.0		112	80-115			
Benzene	10.3	0.50	"	10.0		103	65-115			
tert-Butyl alcohol	56.9	20	"	50.0		114	75-150			
Di-isopropyl ether	10.4	0.50	"	10.0		104	75-125			
1,2-Dibromoethane (EDB)	10.3	0.50	"	10.0		103	85-120			
1,2-Dichloroethane	10.9	0.50	"	10.0		109	85-130			
Ethanol	230	100	"	200		115	70-135			
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	75-130			
Ethylbenzene	10.1	0.50	"	10.0		101	75-135			
Methyl tert-butyl ether	9.76	0.50	"	10.0		98	65-125			
Toluene	10.3	0.50	"	10.0		103	85-120			
Xylenes (total)	33.5	0.50	"	30.0		112	85-125			

*Surrogate: 1,2-Dichloroethane-d4*

4.67

"

5.00

93

60-135

**Laboratory Control Sample (5F20003-BS2)**

Prepared &amp; Analyzed: 06/20/05

Benzene	5.98	0.50	ug/l	6.08		98	65-115			
Ethylbenzene	7.96	0.50	"	7.84		102	75-135			
Methyl tert-butyl ether	9.33	0.50	"	9.60		97	65-125			
Toluene	37.3	0.50	"	32.9		113	85-120			
Xylenes (total)	45.2	0.50	"	38.5		117	85-125			
Gasoline Range Organics (C4-C12)	401	50	"	440		91	70-124			

*Surrogate: 1,2-Dichloroethane-d4*

4.51

"

5.00

90

60-135

**Laboratory Control Sample Dup (5F20003-BSD1)**

Prepared &amp; Analyzed: 06/20/05

tert-Amyl methyl ether	9.77	0.50	ug/l	10.0		98	80-115	14	15	
Benzene	9.49	0.50	"	10.0		95	65-115	8	20	
tert-Butyl alcohol	57.4	20	"	50.0		115	75-150	0.9	25	
Di-isopropyl ether	9.24	0.50	"	10.0		92	75-125	12	15	
1,2-Dibromoethane (EDB)	9.58	0.50	"	10.0		96	85-120	7	15	
1,2-Dichloroethane	6.19	0.50	"	10.0		62	85-130	55	20	HM, BA
Ethanol	145	100	"	200		72	70-135	45	35	BA
Ethyl tert-butyl ether	8.88	0.50	"	10.0		89	75-130	14	25	
Ethylbenzene	9.89	0.50	"	10.0		99	75-135	2	15	
Methyl tert-butyl ether	6.43	0.50	"	10.0		64	65-125	41	20	HM, BA
Toluene	11.1	0.50	"	10.0		111	85-120	7	20	
Xylenes (total)	31.7	0.50	"	30.0		106	85-125	6	20	

Sequoia Analytical - Morgan Hill

*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.*

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

 Project:BP Heritage #11120, Dublin, CA  
 Project Number:G07TM-0011  
 Project Manager:Lynelle Onishi

 MOF0462  
 Reported:  
 06/24/05 11:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5F20003 - EPA 5030B P/T / EPA 8260B**
**Laboratory Control Sample Dup (5F20003-BSD1)**

Prepared &amp; Analyzed: 06/20/05

<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.66		ug/l	5.00		53	60-135			LG
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**Matrix Spike (5F20003-MS1)**

Source: MOF0463-03

Prepared: 06/20/05 Analyzed: 06/21/05

Benzene	956	5.0	ug/l	60.8	1000	NR	65-115			BB, LN
Ethylbenzene	578	5.0	"	78.4	570	10	75-135			BB, LN
Methyl tert-butyl ether	81.9	5.0	"	96.0	ND	85	65-125			
Toluene	954	5.0	"	329	690	80	85-120			LN
Xylenes (total)	2310	5.0	"	385	2100	55	85-125			LN
Gasoline Range Organics (C4-C12)	15900	500	"	4400	15000	20	70-124			LN

*Surrogate: 1,2-Dichloroethane-d4*

3.57

"

5.00

71

60-135

**Matrix Spike Dup (5F20003-MSD1)**

Source: MOF0463-03

Prepared: 06/20/05 Analyzed: 06/21/05

Benzene	933	5.0	ug/l	60.8	1000	NR	65-115	2	20	BB, LN
Ethylbenzene	561	5.0	"	78.4	570	NR	75-135	3	15	BB, LN
Methyl tert-butyl ether	83.7	5.0	"	96.0	ND	87	65-125	2	20	
Toluene	947	5.0	"	329	690	78	85-120	0.7	20	LN
Xylenes (total)	2250	5.0	"	385	2100	39	85-125	3	20	LN
Gasoline Range Organics (C4-C12)	15600	500	"	4400	15000	14	70-124	2	20	LN

*Surrogate: 1,2-Dichloroethane-d4*

4.08

"

5.00

82

60-135

**Batch 5F21003 - EPA 5030B P/T / EPA 8260B**
**Blank (5F21003-BLK1)**

Prepared &amp; Analyzed: 06/21/05

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, LP
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*

4.76

"

5.00

95

60-135

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]  
 1333 Broadway, Suite 800  
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 Project:BP Heritage #11120, Dublin, CA  
 Project Number:G07TM-0011  
 Project Manager:Lynelle Onishi

 MOF0462  
 Reported:  
 06/24/05 11:44

**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 5F21003 - EPA 5030B P/T / EPA 8260B**
**Blank (5F21003-BLK.2)**

Prepared: 06/21/05 Analyzed: 06/22/05

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, LP
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      4.83      "      5.00      97      60-135

**Laboratory Control Sample (5F21003-BS1)**

Prepared &amp; Analyzed: 06/21/05

tert-Amyl methyl ether	10.6	0.50	ug/l	10.0	106	80-115				
Benzene	9.37	0.50	"	10.0	94	65-115				
tert-Butyl alcohol	55.9	20	"	50.0	112	75-150				
Di-isopropyl ether	9.79	0.50	"	10.0	98	75-125				
1,2-Dibromoethane (EDB)	9.83	0.50	"	10.0	98	85-120				
1,2-Dichloroethane	10.2	0.50	"	10.0	102	85-130				
Ethanol	262	100	"	200	131	70-135				IC
Ethyl tert-butyl ether	9.49	0.50	"	10.0	95	75-130				
Ethylbenzene	9.36	0.50	"	10.0	94	75-135				
Methyl tert-butyl ether	9.22	0.50	"	10.0	92	65-125				
Toluene	9.65	0.50	"	10.0	96	85-120				
Xylenes (total)	31.4	0.50	"	30.0	105	85-125				

Surrogate: 1,2-Dichloroethane-d4      4.80      "      5.00      96      60-135

URS Corporation [Arco]  
 1333 Broadway, Suite 800  
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 Project Number:G07TM-0011  
 Project Manager:Lynelle Onishi

 MOF0462  
 Reported:  
 06/24/05 11:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5F21003 - EPA 5030B P/T / EPA 8260B**
**Laboratory Control Sample (5F21003-BS2)**

Prepared &amp; Analyzed: 06/21/05

Benzene	5.01	0.50	ug/l	6.08		82	65-115			
Ethylbenzene	6.62	0.50	"	7.84		84	75-135			
Methyl tert-butyl ether	9.19	0.50	"	9.60		96	65-125			
Toluene	30.8	0.50	"	32.9		94	85-120			
Xylenes (total)	37.0	0.50	"	38.5		96	85-125			
Gasoline Range Organics (C4-C12)	340	50	"	440		77	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.12</i>		<i>"</i>	<i>5.00</i>		<i>102</i>	<i>60-135</i>			

**Laboratory Control Sample Dup (5F21003-BSD1)**

Prepared &amp; Analyzed: 06/21/05

tert-Amyl methyl ether	11.5	0.50	ug/l	10.0		115	80-115	8	15	
Benzene	9.90	0.50	"	10.0		99	65-115	6	20	
tert-Butyl alcohol	56.4	20	"	50.0		113	75-150	0.9	25	
Di-isopropyl ether	10.7	0.50	"	10.0		107	75-125	9	15	
1,2-Dibromoethane (EDB)	10.2	0.50	"	10.0		102	85-120	4	15	
1,2-Dichloroethane	11.1	0.50	"	10.0		111	85-130	8	20	
Ethanol	287	100	"	200		144	70-135	9	35	HL, IC
Ethyl tert-butyl ether	10.4	0.50	"	10.0		104	75-130	9	25	
Ethylbenzene	9.78	0.50	"	10.0		98	75-135	4	15	
Methyl tert-butyl ether	9.88	0.50	"	10.0		99	65-125	7	20	
Toluene	9.75	0.50	"	10.0		98	85-120	1	20	
Xylenes (total)	31.9	0.50	"	30.0		106	85-125	2	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.87</i>		<i>"</i>	<i>5.00</i>		<i>97</i>	<i>60-135</i>			

**Matrix Spike (5F21003-MS1)**

Source: MOF0499-01

Prepared &amp; Analyzed: 06/21/05

Benzene	1160	25	ug/l	304	880	92	65-115			
Ethylbenzene	1090	25	"	392	760	84	75-135			
Methyl tert-butyl ether	1470	25	"	480	1000	98	65-125			
Toluene	3110	25	"	1640	1400	104	85-120			
Xylenes (total)	4470	25	"	1920	2200	118	85-125			
Gasoline Range Organics (C4-C12)	33700	2500	"	22000	14000	90	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.11</i>		<i>"</i>	<i>5.00</i>		<i>82</i>	<i>60-135</i>			

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

Project:BP Heritage #11120, Dublin, CA  
Project Number:G07TM-0011  
Project Manager:Lynelle Onishi

MOF0462  
Reported:  
06/24/05 11:44

**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 5F21003 - EPA 5030B P/T / EPA 8260B**

<b>Matrix Spike Dup (5F21003-MSD1)</b>	<b>Source: MOF0499-01</b>			<b>Prepared &amp; Analyzed: 06/21/05</b>						
Benzene	1200	25	ug/l	304	880	105	65-115	3	20	
Ethylbenzene	1150	25	"	392	760	99	75-135	5	15	
Methyl tert-butyl ether	1660	25	"	480	1000	138	65-125	12	20	LM
Toluene	3250	25	"	1640	1400	113	85-120	4	20	
Xylenes (total)	4500	25	"	1920	2200	120	85-125	0.7	20	
Gasoline Range Organics (C4-C12)	35400	2500	"	22000	14000	97	70-124	5	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.82</i>		<i>"</i>	<i>5.00</i>		<i>96</i>	<i>60-135</i>			



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

Project:BP Heritage #11120, Dublin, CA  
Project Number:G07TM-0011  
Project Manager:Lynelle Onishi

MOF0462  
Reported:  
06/24/05 11:44

**Notes and Definitions**

LP LCS rec.above meth. control limits. Analyte ND. Data not impacted  
LN MS and/or MSD below acceptance limits. See Blank Spike(LCS).  
LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).  
LG Surrogate recovery below the acceptance limits.  
IC Calib. verif. is within method limits but outside contract limits  
HM Analyte recovery below established limit  
HL Analyte recovery above established limit  
BB,LN Sample > 4x spike concentration.  
BA Relative percent difference out of control  
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



# Chain of Custody Record

Project Name: Analytical for QMR sampling  
 BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 11120 > HistoricalBL  
 State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Francisco  
 Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: <u>7:50 am</u>	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>Sequoia</u>	BP/AR Facility No.: <u>11120</u>	Consultant/Contractor: <u>URS</u>
Address: <u>885 Jarvis Drive</u> <u>Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>6400 Dublin Blvd., Dublin, CA 94568</u>	Address: <u>1333 Broadway, Suite 800</u> <u>Oakland, CA 94612</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600101432</u>	Consultant/Contractor Project No.: <u>38487130</u>
Tele/Fax: <u>408.782.8156 / 408.782.6308</u>	Enfos Project No.: <u>G07TM-0011</u>	Consultant/Contractor PM: <u>Lynelle Onishi</u>
BP/AR PM Contact: <u>Kyle Christie</u>	Provision or RCOP: <u>Provision</u>	Tele/Fax: <u>510.874.1758 / 510.874.3268</u>
Address: <u>4 Centerpointe Dr.</u> <u>La Palma, CA 90623</u>	Phase/WBS: <u>04 - Mon/Remed by Natural Attenuation</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
Tele/Fax: <u>(714) 670-5303 / (714) 670-5195</u>	Sub Phase/Task: <u>03 - Analytical</u>	E-mail BDD To: <u>Rachel.Lindvall@urcorp.com</u>
	Cost Element: <u>05 - Subcontracted Costs</u>	Invoice to: <u>Atlantic Richfield Company</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments				
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRX/BTEX (9260)	MTBE, TAME, ETBE, DIPE, TBA (9260)	EDB, 1,2-DCA (9260)	Ethanol (9260)						
1	MW-8	1153	6/10/05		W		01	3						X	X	X	X						
2	MW-9	1113	6/10/05		W		02	3						X	X	X	X						
3	MW-10	1030	6/10/05		W		03	3						X	X	X	Y						
4	MW-11	1243	6/10/05		W		04	3						X	X	Y	Y						
5	TB-11120-06102005		6/10/05		W		05	2						X									ON HOLD
6																							
7																							
8																							
9																							
10																							

Sampler's Name: <u>Paul Moroe</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Blairtech</u>	<i>[Signature]</i>	<u>6/10/05</u>	<u>0945</u>	<i>[Signature]</i>	<u>6/13</u>	<u>0945</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes  No  Temp Blank Yes  No  Cooler Temperature on Receipt 4.8 °F/C Trip Blank Yes  No

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: <u>URS</u> REC. BY (PRINT): <u>PH</u> WORKORDER: <u>MOF0442</u>	DATE REC'D AT LAB: <u>6/13/05</u> TIME REC'D AT LAB: <u>1810</u> DATE LOGGED IN: <u>6-14-05</u>	For Regulatory Purposes? DRINKING WATER YES <input checked="" type="radio"/> NO WASTE WATER YES <input checked="" type="radio"/> 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 / <input checked="" type="radio"/> Absent Intact / Broken*	01	A.C	MW-8	3 VOAS	HCl	-	W	6/10/05	
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*	02	↓	9	↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent	03	↓	10	↓	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent	04	↓	11	↓	↓	↓	↓	↓	
5. Airbill #:	05	A07	JB	2 VOAS	↓	↓	↓	↓	
6. Sample Labels: <input checked="" type="radio"/> Present / Absent									
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*									
10. Sample received within hold time? <input checked="" type="radio"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / No*									
12. Proper Preservatives used? <input checked="" type="radio"/> Yes / No*									
13. Trip Blank / <input checked="" type="radio"/> Temp Blank Received? (circle which, if yes) <input checked="" type="radio"/> Yes / No*									
14. Temp Rec. at Lab: <input checked="" type="radio"/> 4-8°C Is temp 4 +/- 2°C? <input checked="" type="radio"/> Yes / No**									

Receipt 6/13/05

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

**ATTACHMENT C**

**ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL  
CONFIRMATIONS**

## Electronic Submittal Information

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### SUCCESSFUL GEO\_WELL CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	7/1/2005 3:56:53 PM

**Processing is complete. No errors were found!**  
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## Electronic Submittal Information

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### UPLOADING A GEO\_WELL FILE

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

**Submittal Title: 2Q05 BP/ARCO 11120 GeoWell**

**Submittal Date/Time: 7/1/2005 3:57:43 PM**

**Confirmation Number: 3056333780**

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## Electronic Submittal Information

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### SUCCESSFUL EDF CHECK - NO ERRORS

<b>ORGANIZATION NAME:</b>	URS Corporation-Oakland Office
<b>USER NAME:</b>	URSCORP-OAKLAND
<b>DATE CHECKED:</b>	7/7/2005 2:49:25 PM
<b>GLOBAL ID:</b>	T0600101432
<b>FILE UPLOADED:</b>	BP#11120-EDF-MOF0462.zip

No errors were found in your EDF upload file.

**If you want to submit this file to the SWRCB, choose the "Upload EDD" option in the above menu and follow the instructions.**

When you complete the submittal process, you will be given a confirmation number for your submittal.

[Click here to view the detections report for this upload.](#)

<b>BP</b>	<b><u>Regional Board - Case #: 01-1556</u></b>
6400 DUBLIN	SAN FRANCISCO BAY RWQCB (REGION 2) -
BLVD	<b>(BG)</b>
DUBLIN, CA 94568	<b><u>Local Agency (lead agency) - Case #: 2095</u></b>
	ALAMEDA COUNTY LOP - <b>(RWS)</b>

### SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	4
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
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-	Y
---	---

135%  
 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% N

**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**

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.



## Electronic Submittal Information

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**Confirmation Number:** 7079372107

**Date/Time of Submittal:** 7/7/2005 2:53:40 PM

**Facility Global ID:** T0600101432

**Facility Name:** BP

**Submittal Title:** 2Q05 BP/ARCO EDF

**Submittal Type:** GW Monitoring Report

Click [here](#) to view the detections report for this upload.

BP 6400 DUBLIN BLVD DUBLIN, CA 94568	<b>Regional Board - Case #: 01-1556</b> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <b>Local Agency (lead agency) - Case #: 2095</b> ALAMEDA COUNTY LOP - (RWS)
--	--

CONF #	TITLE	QUARTER
7079372107	2Q05 BP/ARCO EDF	Q2 2005
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	7/7/2005	PENDING REVIEW

**SAMPLE DETECTIONS REPORT**

# FIELD POINTS SAMPLED	4
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
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%	N

**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**

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

**ATTACHMENT D**

**HISTORICAL GROUNDWATER ANALYTICAL DATA FOR FORMER  
WELLS ABANDONED IN 1999 (SOURCE ALISTO ENGINEERING)**

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALJSTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-1	(c) 10/27/92	328.96	8.19	320.77	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
MW-1	04/09/93	328.96	4.79	324.17	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-1	08/25/93	328.96	6.85	322.11	ND<50	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-1	11/22/93	328.96	7.38	321.58	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-1	03/07/94	328.96	5.89	323.07	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-1	06/09/94	328.96	6.42	322.54	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	4.3	PACE
MW-1	09/12/94	328.96	7.33	321.63	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	6.9	PACE
MW-1	12/20/94	328.96	6.34	322.62	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	7.6	PACE
MW-1	03/16/95	328.96	4.37	324.59	ND<50	ND<500	---	---	---	---	---	---	---
MW-1	06/28/95	328.96	5.35	323.61	---	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---
MW-1	09/06/95	328.96	6.44	322.52	---	---	---	---	---	---	---	5.6	ATI
MW-1	12/22/95	328.96	8.04	322.92	ND<50	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.4	ATI
MW-1	03/20/96	328.96	5.65	323.31	---	---	---	---	---	---	---	---	---
MW-1	08/21/96	328.96	---	---	---	---	---	---	---	---	---	---	---
MW-1	10/31/96	328.96	5.99	322.97	ND<50	160	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.8	SPL
MW-1	(d) 12/02/96	328.96	---	---	---	---	---	---	---	---	---	---	---
MW-1	(d) 06/26/98	328.96	---	---	---	---	---	---	---	---	---	---	---
MW-2	10/27/92	328.50	7.64	320.86	---	---	---	---	---	---	---	---	---
MW-2	04/09/93	328.50	4.12	324.38	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-2	08/25/93	328.50	6.31	322.19	ND<50	80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-2	11/22/93	328.50	7.12	321.38	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-2	03/07/94	328.50	5.60	322.90	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-2	06/09/94	328.50	5.91	322.59	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	4.3	PACE
MW-2	09/12/94	328.50	6.87	321.63	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	8.2	PACE
MW-2	12/20/94	328.50	5.86	322.64	ND<50	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	7.5	PACE
MW-2	03/16/95	328.50	3.77	324.73	---	---	---	---	---	---	---	---	---
MW-2	03/16/95	328.50	3.77	324.73	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	6.6	ATI
MW-2	06/28/95	328.50	4.33	324.17	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	6.6	ATI
MW-2	09/06/95	328.50	5.85	322.65	---	---	---	---	---	---	---	---	---
MW-2	12/22/95	328.50	5.50	323.00	ND<50	210	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.0	ATI
MW-2	08/20/96	328.50	5.07	323.43	---	---	---	---	---	---	---	---	---
MW-2	08/21/96	328.50	---	---	---	---	---	---	---	---	---	---	---
MW-2	10/31/96	328.50	5.44	323.06	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	7.0	SPL
MW-2	12/02/96	328.50	5.50	323.00	---	---	---	---	---	---	---	---	---
MW-2	03/27/97	328.50	4.61	323.89	---	---	---	---	---	---	---	---	---
MW-2	06/03/97	328.50	7.14	321.36	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.8	SPL
MW-2	09/16/97	328.50	6.10	322.40	---	---	---	---	---	---	---	---	---
MW-2	12/03/97	328.50	6.22	322.28	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.2	SPL
MW-2	06/26/98	328.50	4.86	323.64	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.6	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

AJIS TO PROJECT NO. 10-170.

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet) (a)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet) (b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-3	10/27/92	329.36	8.43	320.93	210	ND<50	3	0.7	0.9	30	—	—	—
MW-3	04/09/93	329.36	4.90	324.46	400	260	6.1	ND<0.5	ND<0.5	—	—	—	PACE
MW-3	08/25/93	329.36	7.13	322.23	2000	440	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-3	11/22/93	329.36	7.60	321.76	1800	360	ND<2.5	ND<2.5	ND<2.5	ND<2.5	3300	(e)	PACE
MW-3	03/07/94	329.36	6.08	323.28	1300	5000	22	4.0	2.2	3.8	910	(e)	PACE
MW-3	06/09/94	329.36	6.51	322.85	8500	2600	25	8.3	0.5	15	7200	(e)	PACE
OC-1 (f)	09/12/94	—	—	—	8800	—	23	6.3	0.5	10	13000	(e)	PACE
MW-3	09/12/94	329.36	7.63	321.73	2100	3200	ND<5.0	ND<5.0	8.8	20	13000	(e)	PACE
OC-1 (f)	12/20/94	—	—	—	1800	—	ND<5.0	ND<5.0	8.0	10	3600	(e)	PACE
MW-3	12/20/94	329.36	6.41	322.95	18000	9600	79	28	89	9.3	3900	(e)	PACE
MW-3	03/16/95	329.36	4.39	—	17000	—	79	33	80	—	—	—	PACE
OC-1 (f)	03/16/95	—	—	324.97	6300	7000	470	ND<5.0	210	9.9	—	—	PACE
MW-3	06/26/95	329.36	5.50	—	6300	—	500	ND<5.0	230	13	—	—	ATI
OC-1 (f)	06/26/95	—	—	323.86	9000	3000	(g) ND<10	ND<10	ND<10	ND<20	—	—	ATI
MW-3	09/06/95	329.36	8.66	—	8800	—	(g) ND<10	ND<10	ND<10	ND<20	—	—	ATI
OC-1 (f)	09/06/95	—	—	322.70	10000	2800	ND<50	ND<50	ND<50	ND<100	—	—	ATI
MW-3	12/22/95	329.36	6.31	—	9700	—	ND<50	ND<50	ND<50	ND<100	37000	—	ATI
MW-3	08/20/96	329.36	5.87	323.05	9200	2500	ND<50	ND<50	ND<50	ND<100	36000	—	ATI
MW-3	09/21/96	329.36	—	323.49	—	—	ND<50	ND<50	ND<50	ND<100	29000	6.7	ATI
OC-1 (f)	08/21/96	—	—	—	3700	1900	—	—	—	—	—	—	—
MW-3	10/31/96	329.36	6.20	—	3500	—	ND<25	ND<50	ND<50	ND<50	4100	6.8	SPL
OC-1 (f)	10/31/96	—	—	323.16	ND<250	ND<500	ND<25	ND<50	ND<50	ND<50	4000	—	SPL
MW-3	12/02/96	329.36	6.27	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.8	SPL
OC-1 (f)	12/02/96	—	—	323.09	ND<250	50	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	—
MW-3	03/27/97	329.36	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.4	SPL
MW-3	06/03/97	329.36	5.39	323.97	470	ND<100	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	—
OC-1 (f)	06/03/97	—	7.92	321.44	ND<250	100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	490	6.2	SPL
MW-3	09/16/97	329.36	6.67	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	84	5.9	SPL
MW-3	12/03/97	329.36	6.81	322.69	ND<50	330	ND<2.5	ND<5.0	ND<5.0	ND<5.0	74.0	—	—
OC-1 (f)	12/03/97	—	—	322.55	ND<50	ND<200	ND<0.5	ND<5.0	ND<5.0	ND<5.0	—	—	—
MW-3	06/26/98	329.36	5.08	—	ND<50	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<50	5.5	SPL
				324.28	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<10	5.0	SPL
												4.8	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-4	10/27/92	329.45	8.61	320.84	2300	190							
MW-4	04/09/93	329.45	5.25	324.20	1600	500	23	54	50	320			
MW-4	08/25/93	329.45	7.32	322.13	1800	380	78	3.5	68	1.0			PACE
QC-1 (f)	08/25/93				1600		ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-4	11/22/93	329.45	7.83	321.62	610	280	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2100	(e)	PACE
QC-1 (f)	11/22/93				1700		ND<0.5	ND<0.5	ND<0.5	ND<0.5	2100	(e)	PACE
MW-4	03/07/94	329.45	6.29	323.16	710	1400	ND<2.5	ND<2.5	ND<2.5	ND<2.5	3500	(e)	PACE
QC-1 (f)	03/07/94				1600		0.5	0.8	ND<0.5	ND<0.5	5900	(e)	PACE
MW-4	06/09/94	329.45	6.76	322.69	6400	1800	ND<0.5	ND<0.5	1.4	0.8	4200	(e)	PACE
MW-4	09/12/94	329.45	7.83	321.62	2000	2700	ND<10	ND<10	ND<10	ND<10	10000	(e)	PACE
MW-4	12/20/94	329.45	6.68	322.77	9200	2400	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4200	(e)	PACE
MW-4	03/16/95	329.45	4.66	324.79	1400	960	ND<5.0	ND<5.0	ND<5.0	ND<5.0			PACE
MW-4	06/28/95	329.45	5.93	323.52	5000	5400	140	ND<2.5	58	14			PACE
MW-4	09/06/95	329.45	6.83	322.62	4400	4500	(g) 240	ND<5.0	220	ND<10			ATI
MW-4	12/22/95	329.45	6.42	323.03	3800	4700	ND<13	ND<13	ND<13	ND<25	12000		ATI
QC-1 (f)	12/22/95				3900		15	ND<13	ND<13	ND<25	9200		ATI
MW-4	08/20/96	329.45	6.01	323.44			16	ND<13	ND<13	ND<25	8600		ATI
MW-4	08/21/96	329.45											
MW-4	10/31/96	329.45	6.37	323.08	ND<250	470	ND<12	ND<25	ND<25	ND<25			
MW-4	12/02/96	329.45	6.71	322.74	ND<250	1600	ND<2.5	ND<5.0	ND<5.0	ND<25	ND<250		SPL
MW-4	03/27/97	329.45	5.70	323.75	ND<50	13000	ND<5	ND<10	ND<10	ND<10	ND<50		SPL
QC-1 (f)	03/27/97				8300	1500	44	ND<25	ND<25	ND<10	2200		SPL
MW-4	06/03/97	329.45	8.37	321.08	6900		51	ND<25	ND<25	ND<25	8000		SPL
MW-4	09/16/97	329.45	6.91	322.54	2800	270	62	ND<25	ND<25	ND<25	8500		SPL
QC-1 (f)	09/16/97				110	1800	0.80	ND<1.0	ND<1.0	ND<1.0	7000		SPL
MW-4	12/03/97	329.45	7.18	322.28	130		1.2	ND<1.0	ND<1.0	ND<1.0	7700		SPL
MW-4	06/26/98	329.45	5.15	324.30	ND<50	ND<200	0.52	ND<1.0	ND<1.0	ND<1.0	7100		SPL
MW-5	04/09/93	329.60	5.18	324.42	620						ND<10		SPL
MW-5	08/25/93	329.60	7.28	322.32	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1100		SPL
MW-5	11/22/93	329.60	7.82	321.78	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-5	03/07/94	329.60	6.27	323.33	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-5	06/09/94	329.60	6.73	322.87	ND<50	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-5	09/12/94	329.60	7.78	321.82	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-5	12/20/94	329.60	6.63	322.97	ND<50	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-5	03/18/95	329.60	4.85	324.85									PACE
MW-5	06/28/95	329.60	5.69	323.91	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0			PACE
MW-5	09/06/95	329.60	6.82	322.78									
MW-5	12/22/95	329.60	6.40	323.20	ND<50	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0		4.9	ATI
MW-5	08/20/96	329.60	5.98	323.62							ND<5.0		ATI
MW-5	08/21/96	329.60											
MW-5	10/31/96	329.60			ND<50	ND<50							
MW-5	12/02/96	329.60	6.29	323.31			ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<10		
MW-5	03/27/97	329.60	6.37	323.23									
MW-5	06/03/97	329.60	5.33	324.27								6.9	SPL
MW-5	09/16/97	329.60	8.00	321.60	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		
MW-5	12/03/97	329.60	6.89	322.71								5.8	SPL
MW-5	06/26/98	329.60	6.99	322.61	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	27		
MW-5			5.11	324.49	ND<50		ND<0.5	ND<1.0	ND<1.0	ND<1.0		5.4	SPL
												4.7	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

AUSTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-6	04/09/93	329.55	5.37	324.18	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
MW-6	08/25/93	329.55	7.42	322.13	ND<50	170	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-6	11/22/93	329.55	7.93	321.62	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-6	03/07/94	329.55	6.25	323.30	ND<50	90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-6	06/09/94	329.55	6.05	322.70	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	4.2	PACE
MW-6	09/12/94	329.55	7.91	321.64	ND<50	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	7.0	PACE
MW-6	12/20/94	329.55	6.82	322.73	—	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	6.7	PACE
MW-6	03/16/95	329.55	4.78	324.77	ND<50	ND<500	—	—	—	—	—	—	—
MW-6	06/28/95	329.55	5.97	323.58	—	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	—
MW-6	09/06/95	329.55	6.94	322.61	ND<50	—	—	—	ND<0.50	ND<1.0	—	6.1	ATI
MW-6	12/22/95	329.55	6.53	323.02	—	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	—
MW-6	08/20/96	329.55	6.18	323.37	—	—	—	—	ND<0.50	ND<1.0	ND<5.0	7.2	ATI
MW-6	08/21/96	329.55	—	—	—	—	—	—	—	—	—	—	—
MW-6	10/31/96	329.55	—	—	ND<50	120	—	—	—	—	—	—	—
MW-6	12/02/96	329.55	6.52	323.03	—	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	—	—
MW-6	03/27/97	329.55	6.55	323.00	—	—	—	—	—	—	—	—	SPL
MW-6	06/03/97	329.55	5.50	324.05	—	—	—	—	—	—	—	—	—
MW-6	09/16/97	329.55	8.19	321.36	ND<50	ND<100	—	—	—	—	—	—	—
MW-6	12/03/97	329.55	6.95	322.60	—	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.3	SPL
MW-6	06/26/98	329.55	7.22	322.33	ND<250	680	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	—
MW-6		329.55	5.20	324.35	ND<50	—	—	—	—	—	—	5.5	SPL
MW-7	04/09/93	329.49	5.36	324.13	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.6	SPL
MW-7	08/25/93	329.49	7.44	322.05	ND<50	150	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
MW-7	11/22/93	329.49	7.92	321.57	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	03/07/94	329.49	6.20	323.29	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	06/09/94	329.49	6.89	322.60	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	09/12/94	329.49	7.87	321.62	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	3.7	PACE
MW-7	12/20/94	329.49	6.77	322.72	ND<50	50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	6.8	PACE
MW-7	03/16/95	329.49	4.77	324.72	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	6.8	PACE
MW-7	06/28/95	329.49	5.94	323.55	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<0.50	—	6.5	PACE
MW-7	09/06/95	329.49	6.98	322.51	ND<50	320	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	5.9	ATI
MW-7	12/22/95	329.49	6.85	322.64	ND<50	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	7.5	ATI
MW-7	08/20/96	329.49	6.22	323.27	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	8.5	7.5	ATI
MW-7	08/21/96	329.49	—	—	—	—	—	—	—	—	7.2	6.9	ATI
MW-7	10/31/96	329.49	6.56	322.93	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	—	—	—
MW-7	12/02/96	329.49	6.13	323.36	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	—	SPL
MW-7	03/27/97	329.49	5.08	324.41	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	86	6.8	SPL
MW-7	06/03/97	329.49	7.80	321.69	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	59	7.3	SPL
MW-7	09/16/97	329.49	6.50	322.99	—	850	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.6	SPL
MW-7	12/03/97	329.49	6.86	322.83	120	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	630	6.8	SPL
MW-7 (h)	06/26/98	329.49	4.96	324.53	ND<50	ND<200	ND<0.5	ND<1.0	ND<1.0	ND<1.0	2200	8.0	SPL
MW-7 (h)							ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.0	SPL
MW-7 (h)												5.1	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
QC-2 (i)	08/25/93	---	---	---	---	---	---	---	---	---	---	---	---
QC-2 (i)	11/22/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	03/07/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	06/09/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	09/12/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	12/20/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	03/16/95	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (i)	06/28/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2 (i)	09/06/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2 (i)	12/22/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	ATI
							ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	ATI

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline  
 TPH-D Total petroleum hydrocarbons as diesel  
 B Benzene  
 T Toluene  
 E Ethylbenzene  
 X Total xylenes  
 MTBE Methyl tert butyl ether  
 DO Dissolved oxygen  
 ug/l Micrograms per liter  
 ppm Parts per million  
 ND Not detected above reported detection limit  
 --- Not analyzed/applicable/measured  
 PACE Pace, Inc.  
 ATI Analytical Technologies, Inc.  
 SPL Southern Petroleum Laboratories

NOTES:

- (a) Top of casing elevations surveyed to an arbitrary datum.
- (b) Groundwater elevations relative to an arbitrary datum.
- (c) Analysis did not detect total oil and grease and halogenated volatile organic compounds above reported detection limits.
- (d) Well inaccessible.
- (e) A copy of the documentation for this data is included in Appendix C of Alisto report 10-170-05-001.
- (f) Blind duplicate.
- (g) MTBE peak. Refer to documentation for this data in Appendix C of Alisto report 10-170-05-001.
- (h) Analysis did not detect volatile organic compounds above reported detection limits.
- (i) Travel blank.

FO110-170170-5-4.WC2



TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING FOR EPA METHOD 8260 ANALYSIS  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

\*ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TBA (ug/l)	TAME (ug/l)	LAB
MW-4	06/26/98	ND<5	ND<5	ND<5	ND<5	ND<10	ND<10	ND<10	ND<500	ND<10	SPL
MW-7	06/26/98	ND<5	ND<5	ND<5	ND<5	ND<10	ND<10	ND<10	ND<500	ND<10	SPL

ABBREVIATIONS:

- B Benzene
- T Toluene
- E Ethylbenzene
- X Total xylenes
- MTBE Methyl tert butyl ether
- DIPE Di-isopropyl ether
- ETBE Ethyl t-butyl ether
- TBA t-butyl ether
- TAME tert-amyl methyl ether
- ug/l Micrograms per liter
- ND Not detected above reported detection limit
- SPL Southern Petroleum Laboratories

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