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Atlantic Richfield Company  
(a BP affiliated company)



P.O. Box 1257  
San Ramon, CA 94583  
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Fax: (925) 275-3815

October 31, 2006

Re: Third Quarter, 2006 Ground-Water Monitoring Report  
Former BP Station #11120  
6400 Dublin Boulevard  
Dublin, California  
ACEH Case #RO0002431

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

Submitted by:

Paul Supple  
Environmental Business Manger

**Third Quarter, 2006 Ground-Water Monitoring Report**

Former BP Station #11120

6400 Dublin Road

Dublin, California

Prepared for

Mr. Paul Supple  
Environmental Business Manager  
Atlantic Richfield Company  
P.O. Box 1257  
San Ramon, California 94583

Prepared by



1324 Mangrove Avenue, Suite 212  
Chico, California 95926  
(530) 566-1400  
[www.broadbentinc.com](http://www.broadbentinc.com)

October, 2006

Project No. 06-02-651

Broadbent & Associates, Inc.  
1324 Mangrove Ave., Suite 212  
Chico, CA 95926  
Voice (530) 566-1400  
Fax (530) 566-1401



October 31, 2006

Project No. 06-02-651

Atlantic Richfield Company  
P.O. Box 1257  
San Ramon, California 94583  
Submitted via ENFOS

Attn.: Mr. Paul Supple

Re: Third Quarter, 2006 Ground-Water Monitoring Report, Former BP Station #11120, 6400  
Dublin Boulevard, Dublin California. ACEH Case #RO0002431.

Dear Mr. Supple:

Provided herein is the *Third Quarter, 2006 Ground-Water Monitoring Report* for the Former BP Station #11120 (herein referred to as Station #11120) located at 6400 Dublin Boulevard, Dublin, California (Property). This report presents a summary of Third Quarter, 2006 ground-water monitoring results.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

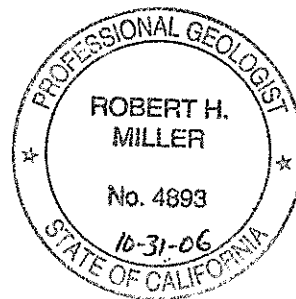
BROADBENT & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'M. G. Herrick', written over a horizontal line.

Matthew G. Herrick  
Project Hydrogeologist

A handwritten signature in black ink, appearing to read 'Robert H. Miller', written over a horizontal line.

Robert H. Miller, P.G., C.HG.  
Principal Hydrogeologist



Enclosures

cc: Mr. Barney Chan, Alameda County Environmental Health (submitted via ACEH ftp  
site)  
Ms. Shelby Lathrop, ConocoPhillips (submitted via WebXtender)  
GeoTracker

## STATION #11120 QUARTERLY GROUND-WATER MONITORING REPORT

Facility: #11120	Address: 6400 Dublin Boulevard, Dublin, CA
Station #11120 Environmental Business Manager:	Mr. Paul Supple
Consulting Co./Contact Persons:	Broadbent & Associates, Inc. (BAI)/Rob Miller & Matt Herrick
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH) / ACEH Case # RO0002431
Consultant Project No.:	06-02-651
Facility Permits/Permitting Agency.:	NA

### WORK PERFORMED THIS QUARTER (Third Quarter, 2006):

1. Submitted Second Quarter, 2006 report. Work performed by BAI.
2. Conducted ground-water monitoring/sampling for Third Quarter, 2006. Work performed by URS.
3. Abandoned well MW-9 to facilitate road widening work to be completed by the City of Dublin (approved by the ACEH in email dated June 16, 2006). Work performed by URS.

### WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter, 2006):

1. Submit Third Quarter, 2006 Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for Fourth Quarter, 2006.

### QUARTERLY RESULTS SUMMARY:

Current phase of project:	<b>Ground-water Monitoring/Sampling</b>
Frequency of ground-water sampling:	<b>Wells MW-8, MW-10, and MW-11: Quarterly</b>
Frequency of ground-water monitoring:	<b>Wells MW-8, MW-10, and MW-11: Quarterly</b>
Is free product (FP) present on-site:	<b>No</b>
Current remediation techniques:	<b>None</b>
Depth to ground water (below TOC):	<b>6.87 (MW-10) to 8.07 (MW-11) feet</b>
General ground-water flow direction:	<b>East-southeast</b>
Approximate hydraulic gradient:	<b>0.012</b>

### DISCUSSION:

Gasoline range organics (GRO) were detected in MW-8 at 82 micrograms per liter ( $\mu\text{g/L}$ ) during Third Quarter, 2006. Methyl tert-butyl ether (MTBE) was detected in wells MW-8 and MW-11 at 130  $\mu\text{g/L}$  and 26  $\mu\text{g/L}$ , respectively. No other fuel analytes were detected in ground-water sampled collected during Third Quarter, 2006.

Drawing 1 depicts the ground-water elevation contour and an analytical summary map for the Third Quarter, 2006. Table 1 includes a summary of ground-water monitoring data including relative water elevations and laboratory analyses. Table 2 provides a summary of fuel additives analytical data.

Well MW-9 was abandoned on August 16, 2006 to facilitate road widening work that is scheduled to be completed by the City of Dublin. Abandonment of the well was approved by the ACEH in an email dated June 16, 2006. MW-9 has been removed from the ground-water monitoring/sampling scheduled summarized above.

**CLOSURE:**

The findings presented in this report are based upon: observations of URS field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by TestAmerica Morgan Hill, California. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

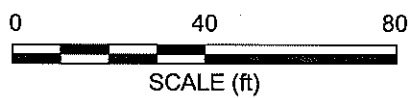
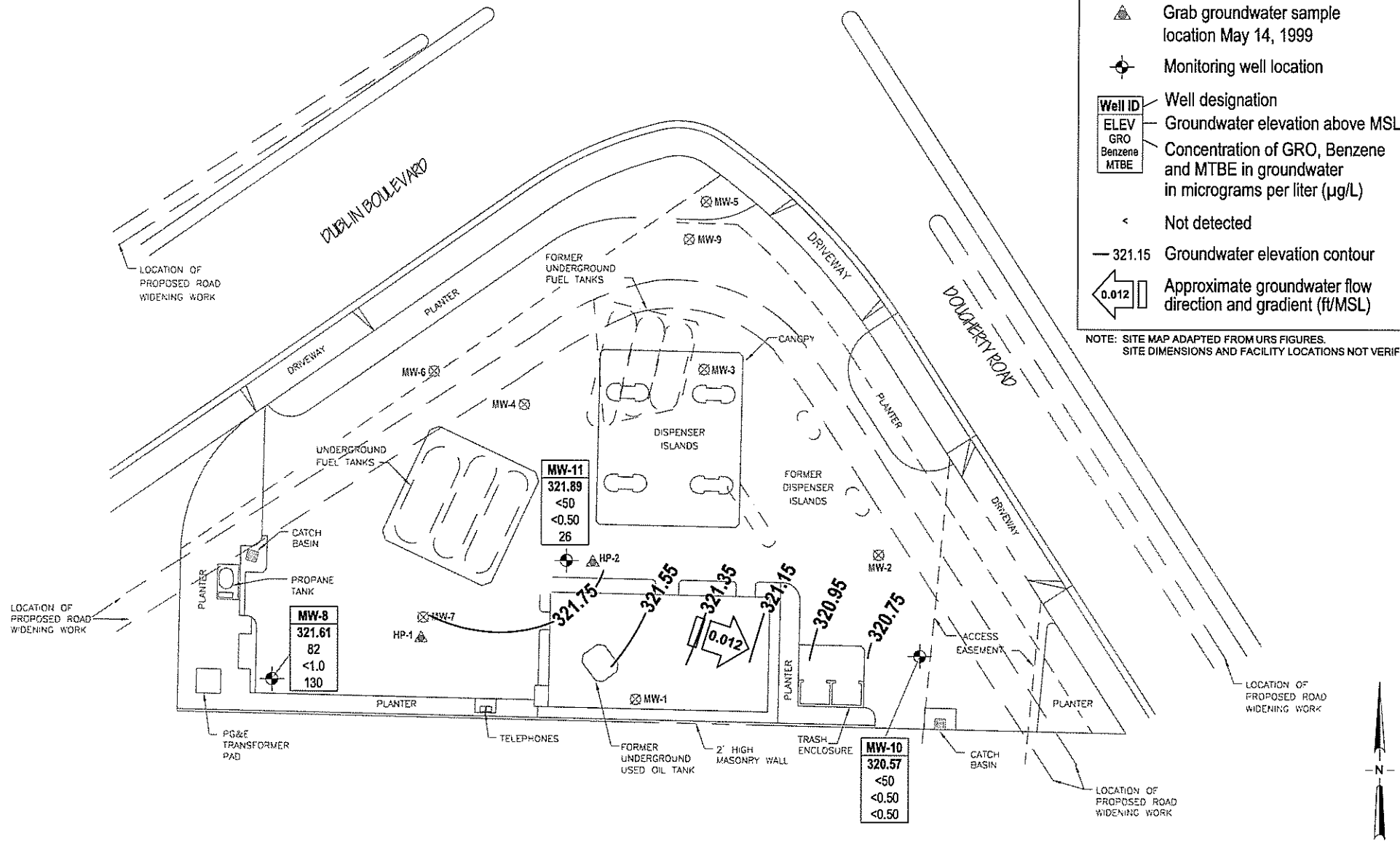
**ATTACHMENTS:**

- Drawing 1. Ground-Water Elevation Contour and Analytical Summary Map, Station #11120, Dublin CA
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11120, Dublin CA
- Table 2. Summary of Fuel Additives Analytical Data, Station #11120, Dublin CA
- Appendix A. URS Ground-Water Sampling Data Package (Includes Laboratory Report and Chain of Custody Documentation, Field and Laboratory Procedures, Field Data Sheets, and Co-Monitored Data)
- Appendix B. Historical Ground-Water Analytical Data for Former Wells Abandoned in 1999 (Source: Alisto Engineering)
- Appendix C. GeoTracker Upload Confirmation

### LEGEND

- ⊗ Destroyed groundwater monitoring well
- ▲ Grab groundwater sample location May 14, 1999
- ⊕ Monitoring well location
- Well ID Well designation
- ELEV Groundwater elevation above MSL
- GRO Concentration of GRO, Benzene and MTBE in groundwater in micrograms per liter (µg/L)
- Benzene
- MTBE
- < Not detected
- 321.15 Groundwater elevation contour
- ← 0.012 Approximate groundwater flow direction and gradient (ft/MSL)

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



**BROADBENT & ASSOCIATES, INC.**  
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
1324 Mangrove Ave. Suite 212, Chico, California 95926  
Project No.: 06-02-651 Date: 10/26/06

Former BP Station #11120  
6400 Dublin Boulevard  
Dublin, California

Ground-Water Elevation Contour  
and Analytical Summary Map  
September 19, 2006

Drawing  
**1**

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						(mg/L) DO	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-8</b>															
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	5.8	--	323.14	<50	<0.50	<0.50	<0.50	<0.50	4.3/3.8	--	SEQM	--	
06/28/2003	--	328.94	5.7	--	323.24	<50	<0.50	<0.50	<0.50	<0.50	4.1	--	SEQM	--	b
09/30/2003	--	328.94	5.9	--	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	
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	
09/16/2005	P	328.94	6.58	--	322.36	<50	<0.50	<0.50	<0.50	<0.50	5.7	--	SEQM	6.9	
12/15/2005	P	328.94	8.54	--	320.40	<50	<0.50	<0.50	<0.50	<0.50	2.6	--	SEQM	7.0	
03/01/2006	P	328.94	7.55	--	321.39	<50	<0.50	<0.50	<0.50	<0.50	2.8	--	SEQM	7.1	
6/23/2006	P	328.94	8.14	--	320.80	<50	<0.50	<0.50	<0.50	<0.50	35	--	TAMC	7.2	
9/19/2006	P	328.94	7.33	--	321.61	82	<1.0	<1.0	<1.0	<1.0	130	--	TAMC	7.2	c
<b>MW-9</b>															
02/25/2002	--	329.96	5.9	--	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	--	323.1	<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	
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	

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11120, 6400 Dublin Blvd., Dublin, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						(mg/L) DO	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-9 Cont.</b>															
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	
09/16/2005	P	329.96	6.99	--	322.97	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.6	
12/15/2005	P	329.96	8.52	--	321.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.7	
03/01/2006	P	329.96	8.06	--	321.90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.7	
6/23/2006	P	329.96	8.56	--	321.40	<50	<0.50	<0.50	<0.50	<0.50	1.1	--	TAMC	7.3	
<b>MW-10</b>															
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	7.7	--	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	
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	
06/10/2005	P	327.44	4.00	--	323.44	<50	<0.50	<0.50	<0.50	<0.50	1.2	--	SEQM	6.8	
09/16/2005	P	327.44	4.78	--	322.66	<50	<0.50	<0.50	<0.50	<0.50	0.98	--	SEQM	6.9	
12/15/2005	P	327.44	6.67	--	320.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.0	
03/01/2006	P	327.44	5.67	--	321.77	<50	<0.50	<0.50	<0.50	<0.50	0.59	--	SEQM	7.1	
6/23/2006	P	327.44	5.83	--	321.61	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	TAMC	7.0	
9/19/2006	P	327.44	6.87	--	320.57	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	TAMC	7.1	
<b>MW-11</b>															
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



**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #11120, 6400 Dublin Blvd., Dublin, CA**

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						(mg/L) DO	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-11 Cont.															
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
06/10/2005	P	329.75	6.00	--	323.75	<100	4.1	<1.0	<1.0	<1.0	100	--	SEQM	7.0	
09/16/2005	P	329.75	7.24	--	322.51	<100	<1.0	<1.0	<1.0	<1.0	52	--	SEQM	7.0	
12/15/2005	P	329.75	8.91	--	320.84	<50	<0.50	<0.50	<0.50	<0.50	9.0	--	SEQM	7.1	
03/01/2006	P	329.75	8.05	--	321.70	<50	<0.50	<0.50	<0.50	<0.50	21	--	SEQM	7.2	
6/23/2006	P	329.96	8.65	--	321.10	<50	<0.50	<0.50	<0.50	<0.50	23	--	TAMC	7.2	
9/19/2006	P	329.96	8.07	--	321.89	<50	<0.50	<0.50	<0.50	<0.50	26	--	TAMC	7.3	

ABBREVIATIONS AND SYMBOLS:

TOC = Top of casing in ft MSL

DTW = Depth to water in ft bgs

GWE = Groundwater elevation in ft MSL

GRO = Gasoline range organics

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

µg/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

TAMC = TestAmerica

P/NP = Well purged/not purged prior to sampling

ft bgs = Feet below ground surface

ft MSL = Feet above mean sea level

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), TPH-g, benzene, toluene, ethylbenzene, total xylenes, MTBE and fuel oxygenates analyzed by EPA method 8260B.

c = The hydrocarbon result for GRO was partly due to individual peaks in the quantitative range.

NOTES:

TOC elevations surveyed relative to an elevation of 18.409 ft MSL.

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.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

**Table 2. Summary of Fuel Additives Analytical Data**  
**Station #11120, 6400 Dublin Blvd., Dublin, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-8</b>									
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	
06/10/2005	<100	<20	6.2	<0.50	<0.50	<0.50	<0.50	<0.50	
09/16/2005	<100	<20	5.7	<0.50	<0.50	<0.50	<0.50	<0.50	
12/15/2005	<100	<20	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
03/01/2006	<300	<20	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	
6/23/2006	<300	<20	35	<0.50	<0.50	<0.50	<0.50	<0.50	
9/19/2006	<600	<40	130	<1.0	<1.0	<1.0	<1.0	<1.0	a (ethanol)
<b>MW-9</b>									
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	
06/10/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/15/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/01/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/23/2006	<300	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	

**Table 2. Summary of Fuel Additives Analytical Data**  
**Station #11120, 6400 Dublin Blvd., Dublin, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-10</b>									
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	
06/10/2005	<100	<20	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	
09/16/2005	<100	<20	0.98	<0.50	<0.50	<0.50	<0.50	<0.50	
12/15/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/01/2006	<300	<20	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	
6/23/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/19/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a (ethanol)
<b>MW-11</b>									
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	
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
09/16/2005	<200	<40	52	<1.0	<1.0	<1.0	<1.0	<1.0	
12/15/2005	<100	<20	9.0	<0.50	<0.50	<0.50	<0.50	<0.50	
03/01/2006	<300	<20	21	<0.50	<0.50	<0.50	<0.50	<0.50	
6/23/2006	<300	<20	23	<0.50	<0.50	<0.50	<0.50	<0.50	
9/19/2006	<300	<20	26	<0.50	<0.50	<0.50	<0.50	<0.50	a (ethanol)

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  
µg/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 analyzed using EPA Method 8260B.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

**APPENDIX A**

URS GROUNDWATER SAMPLING DATA PACKAGE (INCLUDES LABORATORY  
REPORT AND CHAIN OF CUSTODY DOCUMENTATION, FIELD AND  
LABORATORY PROCEDURES, FIELD DATA SHEETS,  
AND CO-MONITORED DATA)



October 13, 2006

Mr. Rob Miller  
Broadbent & Associates, Inc.  
2000 Kirman Avenue  
Reno, NV 89502

**Groundwater Sampling Data Package**

Former BP Service Station #11120  
6400 Dublin Boulevard  
Dublin, CA  
Field Work Performed: 09/19/06

**General Information**

*Data Submittal Prepared/Reviewed by:* Alok Kolekar

*Phone Number:* 510-874-3152

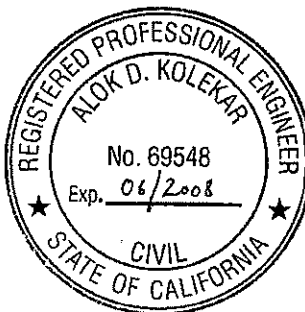
*On-Site Supplier Representative:* Blaine Tech

*Scope of Work Performed:* Groundwater Monitoring in accordance with 3rd Quarter 2006 protocols as identified in the Quarterly Monitoring Program Table in the Field and Laboratory Procedures Attachment.

*Variations from Work Scope:* Well MW-9 was destroyed. Therefore, it was not gauged or sampled.

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include, at a minimum, sampling procedures, field data collected, laboratory results, chain of custody documentation, and waste management activities. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Alok D. Kolekar, P.E.  
Project Manager



cc: Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS



## **Attachments**

Field and Laboratory Procedures

Laboratory Report

Chain of Custody Documentation

Field Data Sheets

Well Gauging Data

Well Monitoring Data Sheets



## FIELD & LABORATORY 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.

### 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.

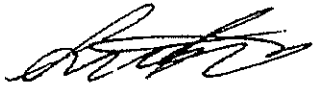
11 October, 2006

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

RE: BP Heritage #11120, Dublin, CA  
Work Order: MPI0576

Enclosed are the results of analyses for samples received by the laboratory on 09/20/06 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race  
Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: BP Heritage #11120, Dublin, CA Project Number: G07TM-0013 Project Manager: Alok Kolekar	MPI0576 Reported: 10/11/06 13:56
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-8	MPI0576-01	Water	09/19/06 12:25	09/20/06 16:15
MW-10	MPI0576-02	Water	09/19/06 12:50	09/20/06 16:15
MW-11	MPI0576-03	Water	09/19/06 13:10	09/20/06 16:15
TB-11120-09192006	MPI0576-04	Water	09/19/06 00:00	09/20/06 16:15

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-0013  
Project Manager: Alok Kolekar

MPI0576  
Reported:  
10/11/06 13:56

**Total Purgeable Hydrocarbons by GC/MS (CA LUFT)**  
**TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (MPI0576-01) Water Sampled: 09/19/06 12:25 Received: 09/20/06 16:15									PV
Gasoline Range Organics (C4-C12)	82	50	ug/l	1	6130008	09/30/06	09/30/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		98 %	60-145		"	"	"	"	
MW-10 (MPI0576-02) Water Sampled: 09/19/06 12:50 Received: 09/20/06 16:15									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6130008	09/30/06	09/30/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		105 %	60-145		"	"	"	"	
MW-11 (MPI0576-03) Water Sampled: 09/19/06 13:10 Received: 09/20/06 16:15									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6130008	09/30/06	09/30/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-145		"	"	"	"	

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: BP Heritage #11120, Dublin, CA Project Number: G07TM-0013 Project Manager: Alok Kolekar	MPI0576 Reported: 10/11/06 13:56
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**Volatile Organic Compounds by EPA Method 8260B**  
**TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-8 (MPI0576-01) Water</b> Sampled: 09/19/06 12:25 Received: 09/20/06 16:15									
tert-Amyl methyl ether	ND	1.0	ug/l	2	6J02002	10/02/06	10/02/06	EPA 8260B	
Benzene	ND	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	600	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>130</b>	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		93 %	75-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96 %	60-145		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		90 %	70-130		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90 %	60-120		"	"	"	"	
<b>MW-10 (MPI0576-02) Water</b> Sampled: 09/19/06 12:50 Received: 09/20/06 16:15									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6I30008	09/30/06	09/30/06	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	300	"	"	"	"	"	"	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	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %	75-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	60-145		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		74 %	70-130		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		71 %	60-120		"	"	"	"	

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

Project: BP Heritage #11120, Dublin, CA  
Project Number: G07TM-0013  
Project Manager: Alok Kolekar

MPI0576  
Reported:  
10/11/06 13:56

**Volatile Organic Compounds by EPA Method 8260B**  
**TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>MW-11 (MPI0576-03) Water</b> Sampled: 09/19/06 13:10 Received: 09/20/06 16:15									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6130008	09/30/06	09/30/06	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	300	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	26	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		111 %		75-130	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		110 %		60-145	"	"	"	"	
Surrogate: Toluene-d8		73 %		70-130	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		67 %		60-120	"	"	"	"	

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: BP Heritage #11120, Dublin, CA Project Number: G07TM-0013 Project Manager: Alok Kolekar	MPI0576 Reported: 10/11/06 13:56
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**Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control  
TestAmerica - Morgan Hill, CA**

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6I30008 - EPA 5030B P/T / LUFT GCMS</b>										
<b>Blank (6I30008-BLK1)</b> Prepared & Analyzed: 09/30/06										
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.78		"	2.50		111	60-145			
<b>Laboratory Control Sample (6I30008-BS2)</b> Prepared & Analyzed: 09/30/06										
Gasoline Range Organics (C4-C12)	470	50	ug/l	440		107	75-140			
Surrogate: 1,2-Dichloroethane-d4	2.35		"	2.50		94	60-145			
<b>Matrix Spike (6I30008-MS1)</b> Source: MPI0641-01 Prepared & Analyzed: 09/30/06										
Gasoline Range Organics (C4-C12)	22900	1000	ug/l	14000	10000	92	75-140			
Surrogate: 1,2-Dichloroethane-d4	2.62		"	2.50		105	60-145			
<b>Matrix Spike Dup (6I30008-MSD1)</b> Source: MPI0641-01 Prepared & Analyzed: 09/30/06										
Gasoline Range Organics (C4-C12)	22200	1000	ug/l	14000	10000	87	75-140	3	20	
Surrogate: 1,2-Dichloroethane-d4	2.57		"	2.50		103	60-145			

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

Project: BP Heritage #11120, Dublin, CA  
Project Number: G07TM-0013  
Project Manager: Alok Kolekar

MPI0576  
Reported:  
10/11/06 13:56

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6I30008 - EPA 5030B P/T / EPA 8260B**

**Blank (6I30008-BLK1)**

Prepared & Analyzed: 09/30/06

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	300	"							
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	"							
<i>Surrogate: Dibromofluoromethane</i>	2.75		"	2.50		110	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.78		"	2.50		111	60-145			
<i>Surrogate: Toluene-d8</i>	1.85		"	2.50		74	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.63		"	2.50		65	60-120			

**Laboratory Control Sample (6I30008-BS1)**

Prepared & Analyzed: 09/30/06

tert-Amyl methyl ether	8.38	0.50	ug/l	10.0		84	65-135			
Benzene	9.99	0.50	"	10.0		100	70-125			
tert-Butyl alcohol	182	20	"	200		91	60-135			
Di-isopropyl ether	8.96	0.50	"	10.0		90	70-130			
1,2-Dibromoethane (EDB)	9.57	0.50	"	10.0		96	80-125			
1,2-Dichloroethane	8.95	0.50	"	10.0		90	75-125			
Ethanol	218	300	"	200		109	15-150			
Ethyl tert-butyl ether	8.43	0.50	"	10.0		84	65-130			
Ethylbenzene	9.30	0.50	"	10.0		93	70-130			
Methyl tert-butyl ether	9.31	0.50	"	10.0		93	50-140			
Toluene	9.77	0.50	"	10.0		98	70-120			
Xylenes (total)	28.6	0.50	"	30.0		95	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.41		"	2.50		96	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.40		"	2.50		96	60-145			
<i>Surrogate: Toluene-d8</i>	2.48		"	2.50		99	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.33		"	2.50		93	60-120			

TestAmerica - Morgan Hill, CA

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

Project: BP Heritage #11120, Dublin, CA  
Project Number: G07TM-0013  
Project Manager: Alok Kolekar

MPI0576  
Reported:  
10/11/06 13:56

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6I30008 - EPA 5030B P/T / EPA 8260B**

Matrix Spike (6I30008-MS1)	Source: MPI0641-01			Prepared & Analyzed: 09/30/06						
tert-Amyl methyl ether	182	10	ug/l	200	ND	91	65-135			
Benzene	413	10	"	200	210	102	70-125			
tert-Butyl alcohol	6080	400	"	4000	2200	97	60-135			
Di-isopropyl ether	184	10	"	200	6.4	89	70-130			
1,2-Dibromoethane (EDB)	202	10	"	200	ND	101	80-125			
1,2-Dichloroethane	193	10	"	200	ND	96	75-125			
Ethanol	6170	6000	"	4000	ND	154	15-150			LM
Ethyl tert-butyl ether	188	10	"	200	ND	94	65-130			
Ethylbenzene	549	10	"	200	380	84	70-130			
Methyl tert-butyl ether	1610	10	"	200	1400	105	50-140			
Toluene	226	10	"	200	20	103	70-120			
Xylenes (total)	654	10	"	600	86	95	80-125			
<i>Surrogate: Dibromofluoromethane</i>	<i>2.54</i>		<i>"</i>	<i>2.50</i>		<i>102</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.62</i>		<i>"</i>	<i>2.50</i>		<i>105</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.56</i>		<i>"</i>	<i>2.50</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.26</i>		<i>"</i>	<i>2.50</i>		<i>90</i>	<i>60-120</i>			
Matrix Spike Dup (6I30008-MSD1)	Source: MPI0641-01			Prepared & Analyzed: 09/30/06						
tert-Amyl methyl ether	183	10	ug/l	200	ND	92	65-135	0.5	25	
Benzene	407	10	"	200	210	98	70-125	1	15	
tert-Butyl alcohol	5910	400	"	4000	2200	93	60-135	3	35	
Di-isopropyl ether	185	10	"	200	6.4	89	70-130	0.5	35	
1,2-Dibromoethane (EDB)	194	10	"	200	ND	97	80-125	4	15	
1,2-Dichloroethane	186	10	"	200	ND	93	75-125	4	10	
Ethanol	4400	6000	"	4000	ND	110	15-150	33	35	
Ethyl tert-butyl ether	184	10	"	200	ND	92	65-130	2	35	
Ethylbenzene	557	10	"	200	380	88	70-130	1	15	
Methyl tert-butyl ether	1550	10	"	200	1400	75	50-140	4	25	
Toluene	227	10	"	200	20	104	70-120	0.4	15	
Xylenes (total)	662	10	"	600	86	96	80-125	1	15	
<i>Surrogate: Dibromofluoromethane</i>	<i>2.41</i>		<i>"</i>	<i>2.50</i>		<i>96</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.57</i>		<i>"</i>	<i>2.50</i>		<i>103</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.38</i>		<i>"</i>	<i>2.50</i>		<i>95</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.29</i>		<i>"</i>	<i>2.50</i>		<i>92</i>	<i>60-120</i>			

TestAmerica - Morgan Hill, CA

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

Project: BP Heritage #11120, Dublin, CA  
Project Number: G07TM-0013  
Project Manager: Alok Kolekar

MPI0576  
Reported:  
10/11/06 13:56

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6J02002 - EPA 5030B P/T / EPA 8260B</b>										
<b>Blank (6J02002-BLK1)</b>				Prepared & Analyzed: 10/02/06						
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	300	"							
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	"							
<i>Surrogate: Dibromofluoromethane</i>	2.42		"	2.50		97	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.54		"	2.50		102	60-145			
<i>Surrogate: Toluene-d8</i>	2.25		"	2.50		90	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.25		"	2.50		90	60-120			
<b>Laboratory Control Sample (6J02002-BS1)</b>				Prepared & Analyzed: 10/02/06						
tert-Amyl methyl ether	12.1	0.50	ug/l	10.0		121	65-135			
Benzene	10.2	0.50	"	10.0		102	70-125			
tert-Butyl alcohol	202	20	"	200		101	60-135			
Di-isopropyl ether	11.1	0.50	"	10.0		111	70-130			
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0		106	80-125			
1,2-Dichloroethane	10.8	0.50	"	10.0		108	75-125			
Ethanol	150	300	"	200		75	15-150			
Ethyl tert-butyl ether	12.1	0.50	"	10.0		121	65-130			
Ethylbenzene	11.4	0.50	"	10.0		114	70-130			
Methyl tert-butyl ether	12.1	0.50	"	10.0		121	50-140			
Toluene	10.5	0.50	"	10.0		105	70-120			
Xylenes (total)	34.8	0.50	"	30.0		116	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.28		"	2.50		91	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.41		"	2.50		96	60-145			
<i>Surrogate: Toluene-d8</i>	2.34		"	2.50		94	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.46		"	2.50		98	60-120			

TestAmerica - Morgan Hill, CA

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Project: BP Heritage #11120, Dublin, CA  
Project Number: G07TM-0013  
Project Manager: Alok Kolekar

MPI0576  
Reported:  
10/11/06 13:56

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6J02002 - EPA 5030B P/T / EPA 8260B</b>										
<b>Matrix Spike (6J02002-MS1)</b>		<b>Source: MPI0683-01</b>			<b>Prepared &amp; Analyzed: 10/02/06</b>					
tert-Amyl methyl ether	126	5.0	ug/l	100	2.7	123	65-135			
Benzene	103	5.0	"	100	ND	103	70-125			
tert-Butyl alcohol	1920	200	"	2000	ND	96	60-135			
Di-isopropyl ether	118	5.0	"	100	ND	118	70-130			
1,2-Dibromoethane (EDB)	106	5.0	"	100	ND	106	80-125			
1,2-Dichloroethane	126	5.0	"	100	ND	126	75-125			LM
Ethanol	1390	3000	"	2000	ND	70	15-150			
Ethyl tert-butyl ether	125	5.0	"	100	ND	125	65-130			
Ethylbenzene	115	5.0	"	100	ND	115	70-130			
Methyl tert-butyl ether	620	5.0	"	100	470	150	50-140			BB,LM
Toluene	104	5.0	"	100	ND	104	70-120			
Xylenes (total)	361	5.0	"	300	ND	120	80-125			
<i>Surrogate: Dibromofluoromethane</i>	<i>2.50</i>		<i>"</i>	<i>2.50</i>		<i>100</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.81</i>		<i>"</i>	<i>2.50</i>		<i>112</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.34</i>		<i>"</i>	<i>2.50</i>		<i>94</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.50</i>		<i>"</i>	<i>2.50</i>		<i>100</i>	<i>60-120</i>			
<b>Matrix Spike Dup (6J02002-MSD1)</b>		<b>Source: MPI0683-01</b>			<b>Prepared &amp; Analyzed: 10/02/06</b>					
tert-Amyl methyl ether	125	5.0	ug/l	100	2.7	122	65-135	0.8	25	
Benzene	104	5.0	"	100	ND	104	70-125	1	15	
tert-Butyl alcohol	2000	200	"	2000	ND	100	60-135	4	35	
Di-isopropyl ether	116	5.0	"	100	ND	116	70-130	2	35	
1,2-Dibromoethane (EDB)	105	5.0	"	100	ND	105	80-125	0.9	15	
1,2-Dichloroethane	126	5.0	"	100	ND	126	75-125	0	10	LM
Ethanol	1800	3000	"	2000	ND	90	15-150	26	35	
Ethyl tert-butyl ether	124	5.0	"	100	ND	124	65-130	0.8	35	
Ethylbenzene	115	5.0	"	100	ND	115	70-130	0	15	
Methyl tert-butyl ether	615	5.0	"	100	470	145	50-140	0.8	25	BB,LM
Toluene	104	5.0	"	100	ND	104	70-120	0	15	
Xylenes (total)	358	5.0	"	300	ND	119	80-125	0.8	15	
<i>Surrogate: Dibromofluoromethane</i>	<i>2.48</i>		<i>"</i>	<i>2.50</i>		<i>99</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.72</i>		<i>"</i>	<i>2.50</i>		<i>109</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.30</i>		<i>"</i>	<i>2.50</i>		<i>92</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.42</i>		<i>"</i>	<i>2.50</i>		<i>97</i>	<i>60-120</i>			

TestAmerica - Morgan Hill, CA

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1333 Broadway, Suite 800  
Oakland CA, 94612

Project: BP Heritage #11120, Dublin, CA  
Project Number: G07TM-0013  
Project Manager: Alok Kolekar

MPI0576  
Reported:  
10/11/06 13:56

**Notes and Definitions**

PV Hydrocarbon result partly due to individ. peak(s) in quant. range  
LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).  
IC Calib. verif. is within method limits but outside contract limits  
BB,LM Sample > 4x spike concentration. MS and/or MSD above acceptance limits. See Blank Spike(LCS).  
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 > Historical/BL  
 State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fran  
 Requested Due Date (mm/dd/yy): 10 Day TAT  
6/25/07 1952

On-site Time: <u>1130</u>	Temp: <u>70°</u>
Off-site Time: <u>1720</u>	Temp: <u>75°</u>
Sky Conditions: <u>clear</u>	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>Sequoia</u>	BP/AR Facility No.: <u>11120</u>	Consultant/Contractor: <u>URS</u>
Address: <u>385 Jarvis Drive</u>	BP/AR Facility Address: <u>6400 Dublin Blvd., Dublin, CA 94568</u>	Address: <u>1333 Broadway, Suite 800</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long: <u>37.704742 / -121.909</u>	<u>Oakland, CA 94612</u>
Lab PM: <u>Lisa Race / Katt Min</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-0013</u>	Consultant/Contractor PM: <u>Alok Kolekar</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or RCOP: <u>Provision</u>	Tele/Fax: <u>510.874.3152 / 510.874.3268</u>
Address: <u>P.O. Box 6549</u>	Phase/WBS: <u>04 - Mon/Remed by Natural Attenuation</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>Moraga, CA 94570</u>	Sub Phase/Task: <u>03 - Analytical</u>	E-mail BDD To: <u>jane.field@urscorp.com</u>
Tele/Fax: <u>925-299-8891</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 (8260)	MYBE, TAME, ETBE (8260)	DIPR, TBA (8260)	EDB, 1,2-DCA (8260)	Bibanol (8260)	
1	MW-8	1225	09/19/06	X			MP10576	3						X	X	X	X		
2	MW-10	1250		X			02	3						X	X	X	X		
3	MW-11	1310		X			03	3						X	X	X	X		
4	TA-11120-09192006	-		X			04	2											ON HOLD
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>S. Gonnert / D. Rumpf</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>09/19/06</u>	Time: <u>1530</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>9/20/06</u>	Time: <u>1530</u>
Sampler's Company: <u>Blaine Tech Services</u>						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Instructions: CC to rhmiller@broadbentinc.com

In Place Yes  No     
  Temp Blank Yes  No     
 Cooler Temperature on Receipt 4.2 °C     
  Trip Blank Yes  No

White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co / Pink Copy - Consultant/Contractor

# TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: EP / 11120  
 REC. BY (PRINT): EH  
 WORKORDER: MPI 0574

DATE REC'D AT LAB: 9/20/06  
 TIME REC'D AT LAB: 1615  
 DATE LOGGED IN: 9/21/06

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / <span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Absent</span> Intact / Broken*								Nope EH
2. Chain-of-Custody	<span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Present</span> / Absent*								
3. Traffic Reports or Packing List	Present / <span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Absent</span>								
4. Airbill:	Airbill / Sticker Present / <span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Absent</span>								
5. Airbill #:									
6. Sample Labels:	<span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Present</span> / Absent								
7. Sample IDs:	<span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Listed</span> / Not Listed on Chain-of-Custody								
8. Sample Condition:	<span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Intact</span> / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	<span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Yes</span> / No*								
10. Sample received within hold time?	<span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Yes</span> / No*								
11. Adequate sample volume received?	<span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Yes</span> / No*								
12. Proper preservatives used?	<span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Yes</span> / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	<span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Yes</span> / No*								
14. Read Temp: Corrected Temp: Is corrected temp 4 +/-2°C? (Acceptance range for samples requiring thermal pres.)	<u>4.1</u> <u>2.1</u> <span style="border: 1px solid black; border-radius: 50%; padding: 1px;">Yes</span> / No**								

\*\*Exception (if any): METALS / DFF ON ICE or Problem COC

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

### WELL GAUGING DATA

Project # 060919-SC2 Date 09/19/06 Client BP 11120

Site 6400 Dublin Blvd. Dublin, CA

Well ID	Time	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: TOE or TOC	Notes
MW-8	1154	2					7.33	19.55	↓	
MW-9	—	2	Well destroyed per Client			—	—			
MW-10	1200	2				6.87	19.79			
MW-11	1158	2				8.07	19.37			
*Wells allowed to stabilize between opening tops + gauging wells.										

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: 060919-5C2	Station # BP11120
Sampler: SC JP	Date: 09/19/06
Well I.D.: MW-8	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 19.55	Depth to Water: 7.33
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      Sampling Method:  Bailer  
 Disposable Bailer       Disposable Bailer  
 Positive Air Displacement       Extraction Port  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

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

2.0	x	3	=	6.0	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1212	71.6	7.3	2603	2.0	slightly cloudy
1215	71.4	7.3	2586	4.0	cloudier
1218	71.1	7.2	2565	6.0	''

Did well dewater? Yes  No  Gallons actually evacuated: 6.0

Sampling Time: 1225      Sampling Date: 09/19/06

Sample I.D.: MW-8      Laboratory: Pace Sequoia Other TA

Analyzed for:  GRO  BTEX  MTBE  DRO  Oxy  1,2-DCA  EDB  Ethanol      Other: \_\_\_\_\_

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>060919-5c2</u>	Station # <u>BP11120</u>
Sampler: <u>SC JR</u>	Date: <u>09/19/06</u>
Well I.D.: <u>MW-9</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>—</u>	Depth to Water: <u>—</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referred 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.

_____	x	<u>350</u>	=	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>* Well has been destroyed per Client.</u>					

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Time: (10) Sampling Date: (10) 09/19/06

Sample I.D.: MW-9 Laboratory: Pace Sequoia Other TA

Analyzed for: (GRO) (BTEX) (MTBE) (DRO) (Oxy) (2-DCA) (EDB) (Ethanol) Other: \_\_\_\_\_

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 #: 060919-5C2	Station # BP11120
Sampler: SC JP	Date: 09/19/06
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8
Total Well Depth: 19.79	Depth to Water: 6.87
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 <sup>2</sup> * 0.163

Purge Method:  Bailer      Sampling Method:  Bailer

Disposable Bailer       Disposable Bailer

Positive Air Displacement       Extraction Port

Electric Submersible      Other: \_\_\_\_\_

Extraction Pump

Other: \_\_\_\_\_

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

2.1	x	3	=	6.3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1236	75.6	7.2	7060	2.1	
1239	73.5	7.1	7308	4.2	
1242	73.1	7.1	7560	6.3	cldy brownish / hazy

Did well dewater? Yes  No  Gallons actually evacuated: 6.7

Sampling Time: 1250      Sampling Date: 09/19/06

Sample I.D.: MW-10      Laboratory: Pace Sequoia Other TA

Analyzed for:  GRO  BTEX  MTBE  DRO  Oxy's  1,2-DCA  EDB  Ethanol      Other: \_\_\_\_\_

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 #: 060919-SC 2	Station # BP11120
Sampler: SC, IR	Date: 09/19/06
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8
Total Well Depth: 19.37	Depth to Water: 8.07
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      Sampling Method:  Bailer

Disposable Bailer       Disposable Bailer

Positive Air Displacement       Extraction Port

Electric Submersible      Other: \_\_\_\_\_

Extraction Pump

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.

1.9	x	3	=	5.7	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
1253	72.4	7.4	2119	1.9	cldy lt. brownish
1257	72.0	7.3	2161	3.8	cc cc cc
1300	71.8	7.3	2189	5.7	cc cc cc

Did well dewater? Yes  No  Gallons actually evacuated: 5.7

Sampling Time: 1310      Sampling Date: 09/19/06

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

Analyzed for:  GRO  BTEX  MTBE  DRO  Oxy's  1,2-DCA  EDB  Ethanol      Other: \_\_\_\_\_

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 ATLANTIC RICHFIELD COMPANY (ARC) A BP AFFILIATED COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGEWATER WHICH HAS BEEN RECOVERED FROM GROUNDWATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY AN ARC DIRECT BILL WASTE TRANSPORTER TO AN ARC APPROVED DISPOSAL FACILITY.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555), 4731 Pell Drive #5, Sacramento, CA 95838. Blaine Tech Services, Inc. is authorized by ARC to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the ARC facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one ARC facility to the designated destination point; from one ARC facility to the designated destination point via another ARC facility; from a ARC 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 ARC.

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

BP11120

Station #

6400 Kellen Blvd. Dublin, CA

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

18.4

added equip. 0.6  
rinse water

any other adjustments

TOTAL GALS. 190  
RECOVERED

loaded onto  
BTS vehicle # 22

BTS event # (499.5) / (63.5)

time date

060919-102

1330 05/18/06

signature

*[Handwritten Signature]*

\*\*\*\*\*

REC'D AT

time

date

unloaded by  
signature

1/1



**APPENDIX B**

HISTORICAL GROUND-WATER 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

ALISTO 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-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	320.96	4.79	324.17	ND<50	100	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	70	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	ND<50	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	---	8.8	PACE
MW-1	12/20/94	328.96	6.34	322.62	---	---	---	---	ND<0.5	ND<0.5	---	7.8	PACE
MW-1	03/16/95	328.96	4.37	324.59	ND<50	ND<500	ND<0.50	ND<0.50	---	---	---	---	---
MW-1	06/28/95	328.96	5.35	323.61	---	---	---	---	ND<0.50	ND<1.0	---	5.6	ATI
MW-1	09/06/95	328.96	6.44	322.52	---	---	---	---	---	---	---	---	---
MW-1	12/22/95	328.96	6.04	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	08/20/96	328.96	5.65	323.31	---	---	---	---	---	---	---	---	---
MW-1	08/21/96	328.96	---	---	---	---	---	---	---	---	---	---	---
MW-1	10/31/96	320.96	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	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
MW-2	04/09/93	328.50	4.12	324.38	ND<50	80	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	70	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	ND<50	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	70	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	160	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<0.5	ND<0.5	---	7.5	PACE
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	---	---	---
MW-2	06/28/95	328.50	4.33	324.73	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	5.05	324.17	---	---	---	---	ND<0.50	ND<1.0	---	6.6	ATI
MW-2	12/22/95	328.50	5.50	322.65	ND<50	210	ND<0.50	ND<0.50	---	---	---	---	---
MW-2	08/20/96	328.50	5.07	323.00	---	---	---	---	ND<0.50	ND<1.0	ND<5.0	7.0	ATI
MW-2	08/21/96	328.50	---	323.43	---	---	---	---	---	---	---	---	---
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

ALISTO 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							
MW-3	04/09/93	329.36	4.90	324.46	400	260	3	0.7	0.9	30	—	—	PACE
MW-3	08/25/93	329.36	7.13	322.23	2000	440	6.1	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-3	11/22/93	329.36	7.60	321.76	1800	360	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-3	03/07/94	329.36	6.08	323.28	1300	5000	ND<2.5	ND<2.5	ND<2.5	ND<2.5	3300	(e)	PACE
MW-3	06/09/94	329.36	6.51	322.85	8500	2600	22	4.0	2.2	3.0	7200	(e)	PACE
QC-1 (f)	06/09/94	—	—	—	8800	—	25	8.3	0.5	15	13000	(e)	PACE
MW-3	09/12/94	329.36	7.63	321.73	2100	3200	23	6.3	0.5	10	13000	(e)	PACE
QC-1 (f)	09/12/94	—	—	—	1800	—	ND<5.0	ND<5.0	8.0	20	3800	(e)	PACE
MW-3	12/20/94	329.36	6.41	322.95	18000	9600	ND<5.0	ND<5.0	8.0	10	3900	(e)	PACE
QC-1 (f)	12/20/94	—	—	—	17000	—	79	28	89	9.3	—	—	PACE
MW-3	03/18/95	329.36	4.39	324.97	6300	7000	79	33	80	ND<2.5	—	—	PACE
QC-1 (f)	03/18/95	—	—	—	6300	—	470	ND<5.0	210	9.9	—	—	PACE
MW-3	06/28/95	329.36	5.50	323.86	9000	3000	500	ND<5.0	230	13	—	5.5	ATI
QC-1 (f)	06/28/95	—	—	—	8800	—	ND<10	ND<10	ND<10	ND<20	—	—	ATI
MW-3	09/06/95	329.36	6.66	322.70	10000	2800	(g) ND<10	ND<10	ND<10	ND<20	—	7.4	ATI
QC-1 (f)	09/06/95	—	—	—	9700	—	(g) ND<10	ND<10	ND<10	ND<20	—	—	ATI
MW-3	12/22/95	329.36	6.31	323.05	9200	2500	ND<50	ND<50	ND<50	ND<100	37000	—	ATI
MW-3	08/20/96	329.36	5.87	323.49	—	—	ND<50	ND<50	ND<50	ND<100	36000	—	ATI
MW-3	08/21/96	329.36	—	—	—	—	ND<50	ND<50	ND<50	ND<100	29000	6.7	ATI
QC-1 (f)	08/21/96	—	—	—	3700	1900	—	—	—	—	—	—	—
MW-3	10/31/96	329.36	6.20	323.16	3500	—	ND<25	ND<50	ND<50	ND<50	4100	6.8	SPL
QC-1 (f)	10/31/96	—	—	—	ND<250	ND<500	ND<25	ND<50	ND<50	ND<50	4000	—	SPL
MW-3	12/02/96	329.36	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	SPL
QC-1 (f)	12/02/96	—	6.27	323.09	ND<250	50	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.8	SPL
MW-3	03/27/97	329.36	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	—
MW-3	06/03/97	329.36	5.39	323.97	470	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.4	SPL
QC-1 (f)	06/03/97	—	7.92	321.44	ND<250	ND<100	ND<0.5	ND<1.0	ND<5.0	ND<5.0	ND<50	—	—
MW-3	09/16/97	329.36	—	—	ND<250	100	ND<2.5	ND<5.0	ND<5.0	ND<1.0	490	6.2	SPL
MW-3	12/03/97	329.36	6.67	322.69	ND<50	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	84	5.9	SPL
QC-1 (f)	12/03/97	—	6.81	322.55	ND<50	330	ND<2.5	ND<5.0	ND<5.0	ND<5.0	74.0	—	—
MW-3	06/26/98	329.36	5.08	324.28	ND<50	ND<200	ND<0.5	ND<1.0	ND<5.0	ND<5.0	ND<50	5.5	SPL
					ND<250	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.0	SPL
							ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<10	—	SPL
											ND<50	4.8	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 (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)	MIBE (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			PACE
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	2100	(e)	PACE
MW-4	11/22/93	329.45	7.83	321.62	610	260	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			PACE
MW-4	03/07/94	329.45	6.29	323.16	710	1400	0.5	0.8	ND<0.5	ND<0.5	3500	(e)	PACE
QC-1 (f)	03/07/94				1600		ND<0.5	ND<0.5	ND<0.5	ND<0.5	5900	(e)	PACE
MW-4	06/09/94	329.45	6.76	322.69	6400	1800	ND<10	ND<10	1.4	0.8	4200	(e)	PACE
MW-4	09/12/94	329.45	7.83	321.62	2000	2700	ND<0.5	ND<0.5	ND<0.5	ND<10	10000	(e)	PACE
MW-4	12/20/94	329.45	6.68	322.77	9200	2400	ND<5.0	ND<5.0	ND<5.0	ND<0.5	4200	(e)	PACE
MW-4	03/16/95	329.45	4.66	324.79	1400	960	140	ND<2.5	ND<5.0	ND<5.0			PACE
MW-4	06/28/95	329.45	5.93	323.52	5000	5100	(g)	240	ND<5.0	14			ATI
MW-4	09/06/95	329.45	6.83	322.62	4400	4500	ND<13	ND<13	ND<13	ND<10			ATI
MW-4	12/22/95	329.45	6.42	323.03	3800	4700	15	ND<13	ND<13	ND<25	12000		ATI
QC-1 (f)	12/22/95				3900		16	ND<13	ND<13	ND<25	9200		ATI
MW-4	08/20/96	329.45	6.01	323.44							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<5.0	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<10	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<1.0	ND<1.0	ND<1.0	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	322.29	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	ND<0.5	ND<1.0	ND<1.0	1.1	7100		SPL
MW-5	04/09/93	329.60	5.18	324.42	520		0.52	ND<1.0	ND<1.0	ND<1.0	ND<10	6.0	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		5.3	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	03/16/95	329.60	4.85	324.95									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			
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	5.93	323.62							ND<5.0		ATI
MW-5	08/21/96	329.60											
MW-5	10/31/96	329.60			ND<50	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0			
MW-5	12/02/96	329.60	6.29	323.31									
MW-5	03/27/97	329.60	6.37	323.23					ND<1.0	ND<1.0	ND<10	6.9	SPL
MW-5	06/03/97	329.60	5.33	324.27									
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			
MW-5	12/03/97	329.60	6.89	322.71	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.8	SPL
MW-5	06/26/98	329.60	5.11	322.61									
MW-5				324.49	ND<50		ND<0.5	ND<1.0	ND<1.0	ND<1.0	27	5.4	SPL
MW-5							ND<0.5	ND<1.0	ND<1.0	ND<1.0		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 (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-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-5	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	6.85	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	---	6.7	PACE
MW-6	03/16/95	329.55	4.78	324.77	ND<50	ND<500	ND<0.50	ND<0.50	---	---	---	---	---
MW-6	06/28/95	329.55	5.97	323.58	---	---	---	---	ND<0.50	ND<1.0	---	---	---
MW-6	09/06/95	329.55	6.94	322.61	---	---	---	---	---	---	---	6.1	ATI
MW-6	12/22/95	329.55	6.53	322.02	ND<50	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	6.52	323.03	ND<50	120	ND<0.5	---	---	---	---	---	---
MW-6	12/02/96	329.55	6.55	323.00	---	---	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---	---
MW-6	03/27/97	329.55	5.50	324.05	---	---	---	---	---	---	---	---	SPL
MW-6	06/03/97	329.55	8.19	321.36	ND<50	ND<100	ND<0.5	ND<1.0	---	---	---	---	---
MW-6	09/16/97	329.55	6.95	322.60	---	---	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	6.3	SPL
MW-6	12/03/97	329.55	7.22	322.33	ND<250	600	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<5.0	---	---
MW-6	06/26/98	329.55	5.20	324.35	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	5.5	SPL
MW-7	04/09/93	329.49	5.36	324.13	---	---	---	---	---	---	---	4.6	SPL
MW-7	08/25/93	329.49	7.44	322.05	ND<50	ND<50	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	150	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	7.07	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<500	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	6.0	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<0.5	---	6.5	PACE
MW-7	09/06/95	329.49	6.93	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	6.65	322.84	ND<50	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	7.8	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	---	---	---	---	---	---	ND<0.50	ND<1.0	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	---	---	---	---	---
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<1.0	---	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	7.90	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	650	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	6.6	SPL
MW-7	12/03/97	329.49	6.66	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	6.0	SPL
					ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	5.0	SPL
									ND<1.0	ND<1.0	ND<1.0	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 (f)	00/25/93	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
QC-2 (f)	11/22/93	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
QC-2 (f)	03/17/94	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
QC-2 (f)	06/09/94	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
QC-2 (f)	09/12/94	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
QC-2 (f)	12/20/94	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
QC-2 (f)	03/16/95	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
QC-2 (f)	06/28/95	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	ATI
QC-2 (f)	09/06/95	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	ATI
QC-2 (f)	12/22/95	--	--	--	ND<50	--	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	Paco, 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.

FD1170 170170-S-1.V02

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

EX0110-170\10-170EC.WQ2

**APPENDIX C**

**GEOTRACKER UPLOAD CONFIRMATION**

## Electronic Submittal Information

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

Your EDF file has been successfully uploaded!

**Confirmation Number:** 4837427854  
**Date/Time of Submittal:** 10/26/2006 11:40:30 AM  
**Facility Global ID:** T0600101432  
**Facility Name:** BP #11120  
**Submittal Title:** 3Q 06 GW MONITORING  
**Submittal Type:** GW Monitoring Report

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

<b>BP #11120</b> 6400 DUBLIN DUBLIN, CA 94568	<b>Regional Board - Case #: 01-1556</b> SAN FRANCISCO BAY RWQCB (REGION 2) <b>Local Agency (lead agency) - Case #: RO0002431</b> ALAMEDA COUNTY LOP - (BC)
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<b>CONF #</b>	<b>TITLE</b>	<b>QUARTER</b>
4837427854	3Q 06 GW MONITORING	Q3 2006
<b>SUBMITTED BY</b>	<b>SUBMIT DATE</b>	<b>STATUS</b>
Broadbent & Associates, Inc.	10/26/2006	PENDING REVIEW

**SAMPLE DETECTIONS REPORT**

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	2
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
SAMPLE MATRIX TYPES	WATER

**METHOD QA/QC REPORT**

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	Y
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%	N
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**

<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 BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

