



Atlantic Richfield Company  
(a BP affiliated company)

P.O. Box 1257  
San Ramon, CA 94583  
Phone: (925) 275-3801  
Fax: (925) 275-3815

April 27, 2009

Re: First Quarter, 2009 Ground-Water Monitoring Report  
Former BP Station #11120  
6400 Dublin Boulevard  
Dublin, California  
ACEH Case #RO0002431

**RECEIVED**

10:57 am, May 01, 2009

Alameda County  
Environmental Health



“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 Manager

**First Quarter, 2009 Ground-Water Monitoring Report**

Former BP Station #11120  
6400 Dublin Boulevard  
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*

April, 2009

Project No. 06-82-651

April 27, 2009

Project No. 06-82-651

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

Attn.: Mr. Paul Supple

Re: First Quarter, 2009 Ground-Water Monitoring Report, Former BP Station #11120, 6400  
Dublin Boulevard, Dublin California. ACEH Case #RO0002431.

Dear Mr. Supple:

Provided herein is the *First Quarter, 2009 Ground-Water Monitoring Report* for Former BP Station #11120 (herein referred to as Station #11120) located at 6400 Dublin Boulevard, Dublin, California (Property). This report presents a summary of First Quarter, 2009 ground-water monitoring results.

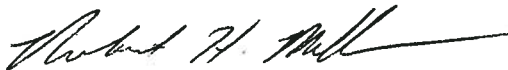
Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

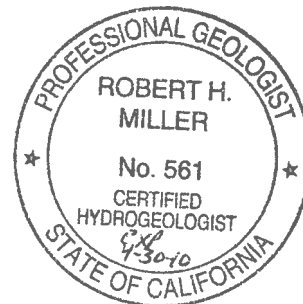
BROADBENT & ASSOCIATES, INC.



Matthew G. Herrick, P.G., C.HG.  
Senior Hydrogeologist



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



Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health (submitted via ACEH ftp site)  
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, CA 95818  
GeoTracker  
Mr. Tejinder Singh, Property Owner, 6400 Dublin Boulevard, Dublin, CA 94568

## 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.:	06-82-651
Facility Permits/Permitting Agency.:	NA

### WORK PERFORMED THIS QUARTER (First Quarter, 2009):

1. Submitted Fourth Quarter, 2008 Ground-Water Monitoring Report. Work performed by BAI.
2. Conducted ground-water monitoring/sampling for First Quarter, 2009. Work performed by Stratus Environmental, Inc.

### WORK PROPOSED FOR NEXT QUARTER (Second Quarter, 2009):

1. Submit First Quarter, 2009 Ground-Water Monitoring Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for Second Quarter, 2009.

### 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>3.40 (MW-10) to 5.60 (MW-11) feet</b>
General ground-water flow direction:	<b>South-Southeast</b>
Approximate hydraulic gradient:	<b>0.003</b>

### DISCUSSION:

Gasoline range organics (GRO) were not detected in any wells during First Quarter, 2009. Methyl tert-butyl ether (MTBE) was detected in wells MW-8 and MW-11 at 75 µg/L and 7.3 µg/L, respectively. No other analytes were detected in ground-water samples collected during First Quarter, 2009.

Analytes detected during First Quarter, 2009 were all within the historic minimum and maximum concentration ranges recorded for each well. Ground-water elevations measured during First Quarter, 2009 were within historic minimum and maximum ranges for each well; with the following exception: the ground-water elevation in MW-10 was the highest elevation historically measured.

Drawing 1 depicts the ground-water elevation contour and analytical summary map for the First Quarter, 2009. 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. Table 3 presents historical ground-water flow direction and gradient.

The *Evaluation Residual MTBE, Review Historic Gradient, and Conduit and Sensitive Receptor Survey Report* was submitted on December 20, 2006. The report recommended that a formal closure

request be completed and submitted to the ACEH for review. A response from the ACEH has not been received regarding this recommendation.

### **CLOSURE:**

The findings presented in this report are based upon: observations of Stratus Environmental, Inc. field personnel and/or their subcontractor(s) (see Appendix A), the points investigated, and results of laboratory tests performed by Calscience Environmental Laboratories, Inc. of Garden Grove, 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.

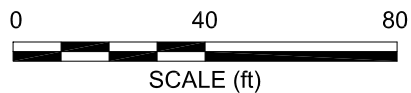
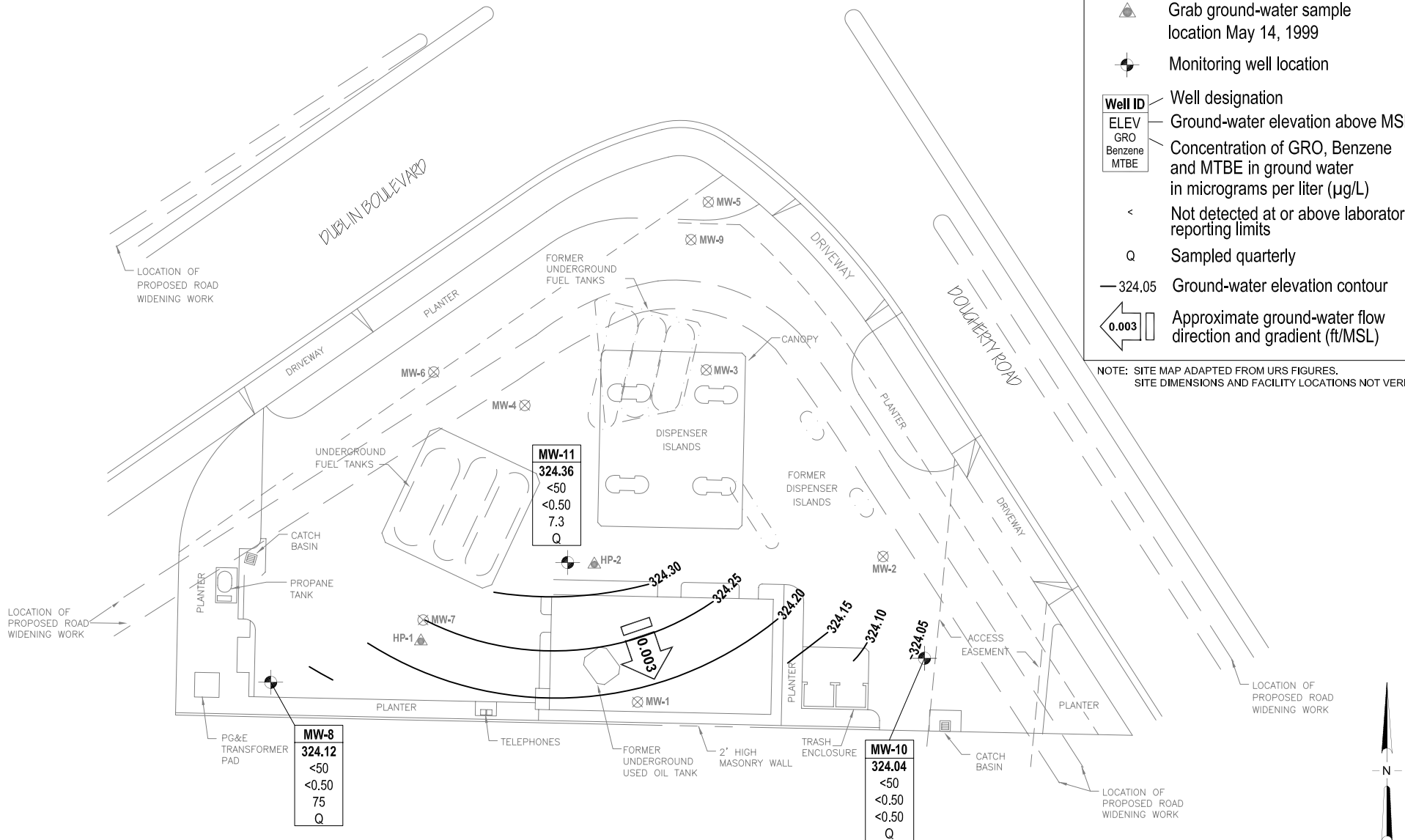
### **ATTACHMENTS:**

- 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
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #11120, Dublin, CA
- Appendix A. Stratus Environmental, Inc. Ground-Water Sampling Data Package (Includes Field Data Sheets, Non-Hazardous Waste Data Form, Chain of Custody Documentation, Certified Analytical Results, and Field Procedures for Ground-Water Sampling)
- Appendix B. Historical Ground-Water Analytical Data for Former Wells Abandoned in 1999 (Source: Alisto Engineering)
- Appendix C. GeoTracker Upload Confirmation

## LEGEND

- ⊗ Destroyed ground-water monitoring well
- ▲ Grab ground-water sample location May 14, 1999
- ⊙ Monitoring well location
- Well ID — Well designation
- ELEV — Ground-water elevation above MSL
- GRO — Concentration of GRO, Benzene and MTBE in ground water in micrograms per liter (µg/L)
- Benzene
- MTBE
- < — Not detected at or above laboratory reporting limits
- Q — Sampled quarterly
- 324.05 — Ground-water elevation contour
- ←0.003 — Approximate ground-water 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  
2000 Kirman Ave., Reno, NV  
Project No.: 06-82-651 Date: 4/15/09

Former BP Station #11120  
6400 Dublin Boulevard  
Dublin, California

Ground-Water Elevation Contour  
and Analytical Summary Map  
March 5, 2009

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)						DO (mg/L)	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	5.80	--	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	
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
12/19/2006	P	328.94	7.55	--	321.39	82	<1.0	<1.0	<1.0	<1.0	120	3.28	TAMC	7.51	
3/29/2007	P	328.94	7.44	--	321.50	120	<0.50	<0.50	<0.50	<0.50	180	3.19	TAMC	7.51	
6/5/2007	P	328.94	7.58	--	321.36	77	<1.0	<1.0	<1.0	<1.0	130	4.87	TAMC	7.59	c
9/11/2007	P	328.94	8.00	--	320.94	76	<0.50	<0.50	<0.50	<0.50	130	2.43	TAMC	--	c, d (MTBE)
12/26/2007	P	328.94	6.45	--	322.49	97	<0.50	<0.50	<0.50	<0.50	150	4.32	TAMC	7.53	c
3/25/2008	P	328.94	5.82	--	323.12	<50	<0.50	<0.50	<0.50	<0.50	100	4.85	CEL	7.96	
6/10/2008	P	328.94	6.51	--	322.43	<50	<2.5	<2.5	<2.5	<2.5	95	4.71	CEL	6.89	
9/9/2008	P	328.94	6.60	--	322.34	<50	<2.5	<2.5	<2.5	<2.5	62	4.56	CEL	6.96	
12/4/2008	P	328.94	6.80	--	322.14	<50	<0.50	<0.50	<0.50	<0.50	38	4.47	CEL	7.18	
<b>3/5/2009</b>	<b>P</b>	<b>328.94</b>	<b>4.82</b>	<b>--</b>	<b>324.12</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>75</b>	<b>4.43</b>	<b>CEL</b>	<b>7.30</b>	
<b>MW-9</b>															
02/25/2002	--	329.96	5.90	--	324.06	<250	<2.50	<2.50	<2.50	<5.00	<2.50	--	PACE	--	

**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)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-9 Cont.</b>															
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	
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	
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	
7/21/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well Abandoned
<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	7.70	--	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	
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	



**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)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-10 Cont.</b>															
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	
12/19/2006	--	327.44	7.10	--	320.34	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.61	TAMC	7.29	
3/29/2007	P	327.44	5.25	--	322.19	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.85	TAMC	7.25	
6/5/2007	P	327.44	6.94	--	320.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.65	TAMC	7.31	
9/11/2007	P	327.44	5.88	--	321.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.68	TAMC	--	
12/26/2007	P	327.44	5.02	--	322.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.75	TAMC	7.31	
3/25/2008	P	327.44	6.46	--	320.98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.22	CEL	7.83	
6/10/2008	P	327.44	6.67	--	320.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.10	CEL	7.05	
9/9/2008	P	327.44	4.84	--	322.60	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.07	CEL	7.04	
12/4/2008	P	327.44	4.80	--	322.64	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.98	CEL	6.64	
<b>3/5/2009</b>	<b>P</b>	<b>327.44</b>	<b>3.40</b>	<b>--</b>	<b>324.04</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>3.02</b>	<b>CEL</b>	<b>7.31</b>	
<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
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	

**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)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-11 Cont.</b>															
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	--	321.31	<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	
12/19/2006	P	329.96	8.17	--	321.79	<50	<0.50	<0.50	<0.50	<0.50	42	3.07	TAMC	7.47	
3/29/2007	P	329.96	8.05	--	321.91	<50	<0.50	<0.50	<0.50	<0.50	65	1.84	TAMC	7.46	
6/5/2007	P	329.96	8.22	--	321.74	53	<0.50	<0.50	<0.50	<0.50	74	2.23	TAMC	7.53	c
9/11/2007	P	329.96	8.62	--	321.34	<50	<0.50	<0.50	<0.50	<0.50	55	2.94	TAMC	--	
12/26/2007	P	329.96	7.12	--	322.84	<50	<0.50	<0.50	<0.50	<0.50	45	4.81	TAMC	7.45	
3/25/2008	P	329.96	6.51	--	323.45	<50	<0.50	<0.50	<0.50	<0.50	22	3.50	CEL	7.93	
6/10/2008	P	329.96	7.25	--	322.71	<50	<0.50	<0.50	<0.50	<0.50	15	3.38	CEL	7.16	
9/9/2008	P	329.96	7.33	--	322.63	<50	<0.50	<0.50	<0.50	<0.50	9.1	3.29	CEL	7.16	
12/4/2008	P	329.96	7.53	--	322.43	<50	<0.50	<0.50	<0.50	<0.50	7.1	3.14	CEL	7.50	
<b>3/5/2009</b>	<b>P</b>	<b>329.96</b>	<b>5.60</b>	<b>--</b>	<b>324.36</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>7.3</b>	<b>3.08</b>	<b>CEL</b>	<b>7.49</b>	

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  
CEL = Calscience Environmental Laboratories, Inc.  
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.  
d = Sample > 4x spike concentration.

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.

GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008. The analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through the present.

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)
12/19/2006	<600	<40	120	<1.0	<1.0	<1.0	<1.0	<1.0	a, c (ethanol)
3/29/2007	<300	<20	180	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2007	<600	<40	130	<1.0	<1.0	<1.0	<1.0	<1.0	
9/11/2007	<300	<20	130	<0.50	<0.50	<0.50	<0.50	<0.50	d (ethanol), e (MTBE)
12/26/2007	<300	<20	150	<0.50	<0.50	<0.50	<0.50	<0.50	
3/25/2008	<300	<10	100	<0.50	<0.50	<0.50	<0.50	<0.50	
6/10/2008	<1,500	<50	95	<2.5	<2.5	<2.5	<2.5	<2.5	
9/9/2008	<1,500	<50	62	<2.5	<2.5	<2.5	<2.5	<2.5	
12/4/2008	<300	<10	38	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>3/5/2009</b>	<b>&lt;300</b>	<b>&lt;10</b>	<b>75</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>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

**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-9 Cont.</b>									
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	
7/21/2006	--	--	--	--	--	--	--	--	Well Abandoned
<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)
12/19/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a, c (ethanol)
3/29/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/11/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	d (ethanol)
12/26/2007	<300	<20	<0.50	<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 Cont.</b>									
3/25/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/10/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/9/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/4/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>3/5/2009</b>	<b>&lt;300</b>	<b>&lt;10</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>	
<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)
12/19/2006	<300	<20	42	<0.50	<0.50	<0.50	<0.50	<0.50	a, c (ethanol)
3/29/2007	<300	<20	65	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2007	<300	<20	74	<0.50	<0.50	<0.50	<0.50	<0.50	
9/11/2007	<300	<20	55	<0.50	<0.50	<0.50	<0.50	<0.50	d (ethanol)
12/26/2007	<300	<20	45	<0.50	<0.50	<0.50	<0.50	<0.50	
3/25/2008	<300	<10	22	<0.50	<0.50	<0.50	<0.50	<0.50	
6/10/2008	<300	<10	15	<0.50	<0.50	<0.50	<0.50	<0.50	
9/9/2008	<300	<10	9.1	<0.50	<0.50	<0.50	<0.50	<0.50	
12/4/2008	<300	<10	7.1	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>3/5/2009</b>	<b>&lt;300</b>	<b>&lt;10</b>	<b>7.3</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>	

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.

d = CCV recovery above limit; analyte not detected.

e = Sample > 4x spike concentration.

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.

**Table 3. Historical Ground-Water Flow Direction and Gradient  
Station #11120, 6400 Dublin Blvd., Dublin, CA**

<b>Date Sampled</b>	<b>Approximate Flow Direction</b>	<b>Approximate Hydraulic Gradient</b>
8/25/1993	Southwest	0.002
11/22/1993	Southwest	0.002
3/7/1994	South-Southwest	0.002
6/9/1994	Southwest	0.003
9/12/1994	Southwest	0.002
12/20/1994	Southwest	0.004
3/16/1995	Southwest	0.003
6/28/1995	West	0.005
9/6/1995	Southwest	0.002
12/22/1995	Southwest	0.005
6/26/1996	Southeast	0.01
8/20/1996	West-Southwest	0.004
10/31/1996	Southwest	0.002
12/2/1996	Northeast	0.01
3/27/1997	Northeast and Southwest	0.007 to 0.01
6/3/1997	North-Northeast	0.008
9/16/1997	North and Southeast	0.001 to 0.009
2/25/2002	South	0.009
9/30/2002	South-Southeast	0.004
12/13/2002	Southeast	0.022
3/12/2003	Southeast	0.04
6/28/2003	Southeast	0.042
9/30/2003	Southeast	0.042
12/5/2003	South-Southeast	0.036
3/10/2004	Southeast	0.021
6/21/2004	Southeast	0.034
9/17/2004	Southeast	0.027
12/13/2004	South-Southeast	0.02
3/3/2005	South-Southwest	0.02
6/10/2005	Southwest	0.004
9/16/2005	Southwest	0.004
12/15/2005	Southwest	0.007
3/1/2006	Southwest	0.003
6/23/2006	West	0.004
9/19/2006	East-Southeast	0.012
12/19/2006	East-Southeast	0.014
3/29/2007	West	0.004
6/5/2007	East-Southeast	0.012
9/11/2007	West	0.004
12/26/2007	Southwest and Southeast	0.004
3/25/2008	Southeast	0.022
6/10/2008	East-Southeast	0.018



**Table 3. Historical Ground-Water Flow Direction and Gradient  
Station #11120, 6400 Dublin Blvd., Dublin, CA**

<b>Date Sampled</b>	<b>Approximate Flow Direction</b>	<b>Approximate Hydraulic Gradient</b>
9/9/2008	Southwest	0.003
12/4/2008	West-Southwest	0.003
<b>3/5/2009</b>	<b>South-Southeast</b>	<b>0.003</b>

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**

STRATUS ENVIRONMENTAL, INC. GROUND-WATER SAMPLING DATA PACKAGE  
(INCLUDES FIELD DATA SHEETS, NON-HAZARDOUS WASTE DATA FORM,  
CHAIN OF CUSTODY DOCUMENTATION, CERTIFIED ANALYTICAL RESULTS,  
AND FIELD PROCEDURES FOR GROUNDWATER SAMPLING)



3330 Cameron Park Drive, Ste 550  
Cameron Park, California 95682  
(530) 676-6004 ~ Fax: (530) 676-6005

March 11, 2009

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

Re: Groundwater Sampling Data Package, FORMER BP Service Station No. 11120,  
located at 6400 Dublin Boulevard, Dublin, California.

**General Information**

*Data Submittal Prepared / Reviewed by:* Carol Huff / Jay Johnson

*Phone Number:* (530) 676-6000

*On-Site Supplier Representative:* Roberto Heimlich and Arturo Heimlich

*Sampling Date:* March 5, 2009

*Unusual Field Conditions:* None noted.

*Scope of Work Performed:* Quarterly monitoring and sampling.

*Variations from Work Scope:* None noted.

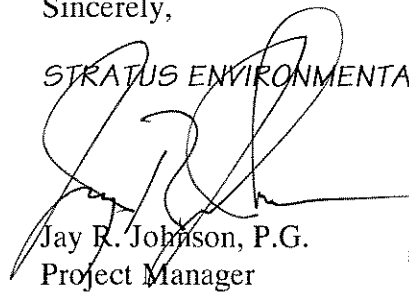
This submittal presents the data collected in association with routine groundwater monitoring. The attachments include field data sheets, non-hazardous waste data form, chain of custody documentation, certified analytical results, and field procedures for groundwater sampling documentation. The information 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.

March 11, 2009

Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

*STRATUS ENVIRONMENTAL, INC.*

  
Jay R. Johnson, P.G.  
Project Manager



**Attachments:**

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results
- Field Procedures for Groundwater Sampling

CC: Mr. Paul Supple, BP/ARCO



# BP VALLEY PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11120 PURGED BY: RH WELL I.D.: MW-8  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: RH SAMPLE I.D.: \_\_\_\_\_  
 LOCATION: Dublin - 6400 Dublin Blvd. QA SAMPLES: MW-8

DATE PURGED 3/5/09 START (2400hr) 9:16 END (2400hr) 9:23  
 DATE SAMPLED 3/5/09 SAMPLE TIME (2400hr) 9:28  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 19.42 CASING VOLUME (gal) = 2.4  
 DEPTH TO WATER (feet) = 4.82 CALCULATED PURGE (gal) = 7.4  
 WATER COLUMN HEIGHT (feet) = 14.6 ACTUAL PURGE (gal) = 8

### FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3/5/09</u>	<u>9:18</u>	<u>3</u>	<u>17.2</u>	<u>2430</u>	<u>7.36</u>	<u>clear</u>	
<u>✓</u>	<u>9:20</u>	<u>6</u>	<u>18.6</u>	<u>2588</u>	<u>7.34</u>	<u>✓</u>	
<u>✓</u>	<u>9:21</u>	<u>8</u>	<u>19.1</u>	<u>2618</u>	<u>7.30</u>	<u>✓</u>	

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 6.87 SAMPLE TURBIDITY: clear  
 80% RECHARGE:  YES  NO ANALYSES: GW0  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6 VOAS / HCL

#### PURGING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (PVC)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 19

#### SAMPLING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (  PVC or  disposable )  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: GOOD LOCK#: MASTER  
 REMARKS: DO 4.43

SIGNATURE: [Signature] Page    of

# BP VALLEY PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11120 PURGED BY: RH WELL I.D.: MW-10  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: RH SAMPLE I.D.: MW-10  
 LOCATION: Dublin - 6400 Dublin Blvd. QA SAMPLES: \_\_\_\_\_

DATE PURGED 3/5/09 START (2400hr) 9:53 END (2400hr) 10:03  
 DATE SAMPLED 3/5/09 SAMPLE TIME (2400hr) 10:06  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 19.43 CASING VOLUME (gal) = 2.7  
 DEPTH TO WATER (feet) = 3.40 CALCULATED PURGE (gal) = 8.1  
 WATER COLUMN HEIGHT (feet) = 16.0 ACTUAL PURGE (gal) = 8.5

### FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3/5/09</u>	<u>9:53</u>	<u>3</u>	<u>17.0</u>	<u>6.79<sup>ms</sup></u>	<u>7.74</u>	<u>clear</u>	_____
<u>✓</u>	<u>9:57</u>	<u>6</u>	<u>19.8</u>	<u>7.15<sup>ms</sup></u>	<u>7.37</u>	<u>✓</u>	_____
<u>✓</u>	<u>9:59</u>	<u>8.5</u>	<u>19.9</u>	<u>7.06<sup>ms</sup></u>	<u>7.31</u>	<u>✓</u>	_____

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 5.89 SAMPLE TURBIDITY: clear  
 80% RECHARGE:  YES  NO ANALYSES: GWD  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6VOAS/HCl

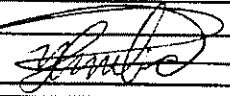
#### PURGING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (PVC)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 19

#### SAMPLING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (  PVC or  disposable)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: 6000 LOCK#: MASTER  
 REMARKS: DO 3.02

SIGNATURE: 

# BP VALLEY PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11120 PURGED BY: RH WELL I.D.: MW-11  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: RH SAMPLE I.D.: MW-11  
 LOCATION: Dublin - 6400 Dublin Blvd. QA SAMPLES: \_\_\_\_\_

DATE PURGED 3/5/09 START (2400hr) 9:33 END (2400hr) 9:41  
 DATE SAMPLED 3/5/09 SAMPLE TIME (2400hr) 9:46  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 19.27 CASING VOLUME (gal) = 2.3  
 DEPTH TO WATER (feet) = 9.60 CALCULATED PURGE (gal) = 6.9  
 WATER COLUMN HEIGHT (feet) = 13.6 ACTUAL PURGE (gal) = 7.5

### FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3/5/09</u>	<u>9:35</u>	<u>3</u>	<u>18.3</u>	<u>2478</u>	<u>7.78</u>	<u>clear</u>	_____
<input checked="" type="checkbox"/>	<u>9:37</u>	<u>6</u>	<u>17.6</u>	<u>2216</u>	<u>7.67</u>	<input checked="" type="checkbox"/>	_____
<input checked="" type="checkbox"/>	<u>9:39</u>	<u>7.5</u>	<u>17.9</u>	<u>2404</u>	<u>7.49</u>	<input checked="" type="checkbox"/>	_____

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 7.81 SAMPLE TURBIDITY: clear  
 80% RECHARGE:  YES  NO ANALYSES: SWD  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6V0A9/HCL

#### PURGING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (PVC)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 19

#### SAMPLING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (  PVC or  disposable)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: GOOD LOCK#: MASTER  
 REMARKS: DD 3.08

SIGNATURE: [Signature]



# WELLHEAD OBSERVATION FORM



Site Name/Number: 11120-Dublin

Date: 3/5/09 Technician: ROBERTO

Well I.D.	Box in Good Condition? <small>X = Yes Blank = No</small>	Lock Missing? <small>X = Yes (replaced) Blank = No</small>	Water in Wellbox? <small>X = Yes Blank = No</small>	Water Level Relative to Cap? <small>A = Above cap B = Below cap L = Level w/cap</small>	Well Cap? <small>I = Intact M = Missing or Compromised (replaced)</small>	Bolts Missing? <small>X = Yes Blank = No</small>	Bolts Stripped? <small>X = Yes Blank = No</small>	Bolt Holes Stripped? <small>X = Yes Blank = No</small>	Cracked or Broken Lid? <small>X = Yes Blank = No</small>	Cracked or Broken Box? <small>X = Yes Blank = No</small>	Grout Level more than 1ft below TOC? <small>X = Yes Blank = No</small>	Additional Comments <small>(such as missing lid, concrete needs replacement, or other - explain)</small>
MW-8	X	-	-	-	I	NA	NA	NA	-	-	-	NO BOLT S TYPE LIDS
MW-10	X	-	X	A	I	NA	NA	NA	X	-	-	
MW-11	X	-	-	-	I	NA	NA	NA	-	-	-	

**DRUM INVENTORY**

Drums on site?      Yes      No      (circle)  
 Type and #      Steel: \_\_\_\_\_      Plastic: \_\_\_\_\_

Note whether drums are full or empty, solids or liquids:

\_\_\_\_\_

Drum label info (description, date, contact info):

\_\_\_\_\_

**GENERAL SITE CONDITIONS**

Make notes on housekeeping conditions (such as trash around remediation system enclosure/compound, bent or missing bollards, signs missing from compound fences, graffiti on compound, etc.)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(updated 3-28-08, SS)

NO. 853796

NON-HAZARDOUS WASTE DATA FORM

1. BESE #

2. Generator's Name and Mailing Address  
 BP WEST COAST PRODUCTS, LLC  
 P.O. BOX 80249  
 RANCHO SANTA MARGARITA, CA 92688

Generator's Site Address (if different than mailing address)  
 BP# 1120  
 6400 DUBLIN BLVD.  
 DUBLIN

Generator's Phone: (949) 460-5200  
 24-HOUR EMERGENCY PHONE: (949) 699-3706

3. Transporter 1 Company Name  
 Stratus Environmental, Inc.  
 Phone # (530) 676-6000


4. Transporter 2 Company Name  
 Gomes Excavating  
 Phone # (707) 374-2881

5. Designated Facility Name and Site Address  
 INTRAT, INC.  
 1105 AIRPORT RD #C  
 RIO VISTA, CA 94571  
 Phone # (530) 753-1829

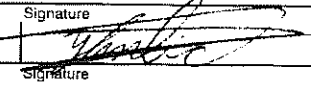
GENERATOR

6. Waste Shipping Name and Description	7. Containers		8. Total Quantity	9. Unit Wt/Vol	10. Profile No.
	No.	Type			
A. NON-HAZARDOUS WATER	1	TT	24	G	
B.					
C.					
D.					

11. Special Handling Instructions and Additional Information  
 WEAR ALL APPROPRIATE PROTECTIVE CLOTHING  
 WELL PURGING / DECON WATER

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this data form are non-hazardous.  
 Generator's/Officer's Printed/Typed Name: ROBERTO HEIMLICH  
 Signature:   
 Month: 3, Day: 5, Year: 09

FACILITY TRANSPORTER

13. Transporter Acknowledgment of Receipt of Materials  
 Transporter 1 Printed/Typed Name: ROBERTO HEIMLICH  
 Signature:   
 Month: 3, Day: 5, Year: 09  
 Transporter 2 Printed/Typed Name: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Month: \_\_\_\_\_, Day: \_\_\_\_\_, Year: \_\_\_\_\_

14. Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.  
 Printed/Typed Name: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Month: \_\_\_\_\_, Day: \_\_\_\_\_, Year: \_\_\_\_\_



# Laboratory Management Program LaMP Chain of Custody Record

BP/ARC Project Name: BP 11120  
 BP/ARC Facility No: 11120

Req Due Date (mm/dd/yy): 14 Day TAT Rush TAT: Yes  No   
 Lab Work Order Number: \_\_\_\_\_

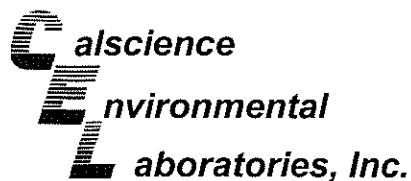
Lab Name: CalScience	BP/ARC Facility Address: 6400 Dublin Blvd	Consultant/Contractor: Stratus Environmental Inc.
Lab Address: 7440 Lincoln Way, Garden Grove, CA 92841	City, State, ZIP Code: Dublin, CA	Consultant/Contractor Project No:
Lab PM: Richard Villafania	Lead Regulatory Agency: Alameda	Address: 3330 Cameron Park Drive, #550, Cameron Park, CA 95682
Lab Phone: 714-895-5494 Fax: 714-895-7501	California Global ID No.: T0600101432	Consultant/Contractor PM: Jay Johnson
Lab Shipping Acct:	Enfos Proposal No:	Phone: 530-676-6000 Fax: 530-676-6005
Lab Bottle Order No:	Accounting Mode: Provision <input checked="" type="checkbox"/> OOC-BU <input type="checkbox"/> OOC-RM <input type="checkbox"/>	Email EDD To: <a href="mailto:chuff@stratusinc.net">chuff@stratusinc.net</a>
Other Info:	Stage: BP/ARC WBS Stage Activity: BP/ARC WBS Activity	Invoice To: BP/ARC <input checked="" type="checkbox"/> Contractor <input type="checkbox"/>

BP/ARC EBM: Paul Supple				Matrix			No. Containers / Preservative					Requested Analyses					Report Type & QC Level	
EBM Phone: (925) 275-3801 FAX (925) 275-3815				Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRO by 8015M	BTEX/5 FO* by 8260B	Ethanol by 8260B	EDB by 8260B	1,2-DCA by 8260B	Standard <input checked="" type="checkbox"/>
EBM Email: <a href="mailto:paul.supple@bp.com">paul.supple@bp.com</a>																		Full Data Package <input type="checkbox"/>
Lab No.	Sample Description	Date	Time															Comments
	MW-8	3/5/09	9:28	X								X	X	X	X	X		
	MW-10	↓	10:06	X								X	X	X	X	X		
	MW-11	↓	9:46	X								X	X	X	X	X		
	TB-11120- 3/5/09-5.00	↓	5:00	X														ON HOLD

Sampler's Name: <u>ROBERTO HEIMLICH</u>	Relinquished By / Affiliation:	Date: <u>3/5/09</u>	Time: <u>11:45</u>	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: Stratus Environmental Inc.						
Shipment Method:	Ship Date:					
Shipment Tracking No:						

Special Instructions: TB Sample ON HOLD! Cc results to miller@broadbentinc.com

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: \_\_\_\_\_ °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No



March 19, 2009

Jay Johnson  
Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Subject: **Calscience Work Order No.: 09-03-0520**  
Client Reference: **ARCO 11120**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/6/2009 and analyzed in accordance with the attached chain-of-custody.

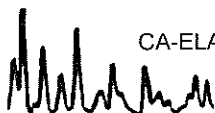
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

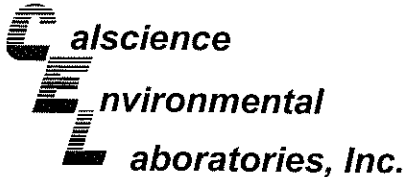
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard Villafania".

Calscience Environmental  
Laboratories, Inc.  
Richard Villafania  
Project Manager





Analytical Report

Handwritten signature or initials

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 03/06/09
Work Order No: 09-03-0520
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ARCO 11120

Page 1 of 1

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-8, 09-03-0520-1-E, 03/05/09 09:28, Aqueous, GC 4, 03/17/09, 03/17/09 19:00, 090317B01

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Rows: Gasoline Range Organics (C6-C12) ND, 50, 1, ug/L; Surrogates: REC (%), Control Limits, Qual; 1,4-Bromofluorobenzene 84, 38-134

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-10, 09-03-0520-2-E, 03/05/09 10:06, Aqueous, GC 4, 03/17/09, 03/17/09 16:48, 090317B01

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Rows: Gasoline Range Organics (C6-C12) ND, 50, 1, ug/L; Surrogates: REC (%), Control Limits, Qual; 1,4-Bromofluorobenzene 86, 38-134

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: MW-11, 09-03-0520-3-E, 03/05/09 09:46, Aqueous, GC 4, 03/17/09, 03/17/09 19:32, 090317B01

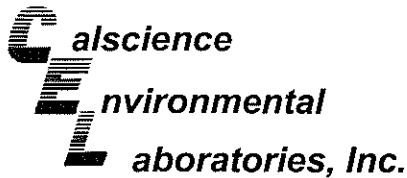
Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Rows: Gasoline Range Organics (C6-C12) ND, 50, 1, ug/L; Surrogates: REC (%), Control Limits, Qual; 1,4-Bromofluorobenzene 81, 38-134

Table with 8 columns: Client Sample Number, Lab Sample Number, Date/Time Collected, Matrix, Instrument, Date Prepared, Date/Time Analyzed, QC Batch ID. Row 1: Method Blank, 099-12-695-477, N/A, Aqueous, GC 4, 03/17/09, 03/17/09 15:10, 090317B01

Table with 6 columns: Parameter, Result, RL, DF, Qual, Units. Rows: Gasoline Range Organics (C6-C12) ND, 50, 1, ug/L; Surrogates: REC (%), Control Limits, Qual; 1,4-Bromofluorobenzene 85, 38-134

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Handwritten signature



## Analytical Report

03/06/09  
09-03-0520  
EPA 5030B  
EPA 8260B  
ug/L

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 03/06/09  
Work Order No: 09-03-0520  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO 11120

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	09-03-0520-1-A	03/05/09 09:28	Aqueous	GC/MS BB	03/17/09	03/17/09 18:26	090317L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	75	2.0	4	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	102	73-145			Dibromofluoromethane	96	81-135		
Toluene-d8	97	83-119			1,4-Bromofluorobenzene	84	74-110		

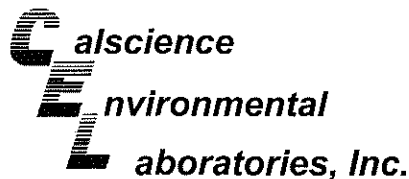
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	09-03-0520-2-A	03/05/09 10:06	Aqueous	GC/MS BB	03/17/09	03/17/09 18:59	090317L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	99	73-145			Dibromofluoromethane	96	81-135		
Toluene-d8	96	83-119			1,4-Bromofluorobenzene	81	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11	09-03-0520-3-A	03/05/09 09:46	Aqueous	GC/MS BB	03/17/09	03/17/09 19:31	090317L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	7.3	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	97	73-145			Dibromofluoromethane	93	81-135		
Toluene-d8	97	83-119			1,4-Bromofluorobenzene	87	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

03/06/09  
09-03-0520  
EPA 5030B  
EPA 8260B  
ug/L

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 03/06/09  
Work Order No: 09-03-0520  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ARCO 11120

Page 2 of 2

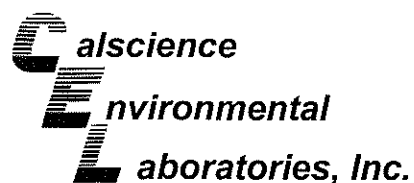
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-703-781	N/A	Aqueous	GC/MS BB	03/17/09	03/17/09 13:36	090317L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	96	73-145			Dibromofluoromethane	103	81-135		
Toluene-d8	97	83-119			1,4-Bromofluorobenzene	89	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-703-784	N/A	Aqueous	GC/MS BB	03/18/09	03/18/09 14:28	090318L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	110	73-145			Dibromofluoromethane	103	81-135		
Toluene-d8	101	83-119			1,4-Bromofluorobenzene	89	74-110		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Quality Control - Spike/Spike Duplicate



Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: 03/06/09  
Work Order No: 09-03-0520  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

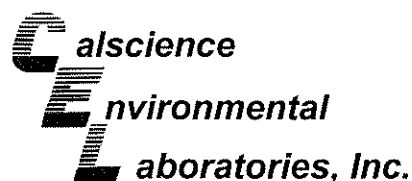
Project ARCO 11120

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-10	Aqueous	GC 4	03/17/09	03/17/09	090317S01

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Gasoline Range Organics (C6-C12)	88	90	38-134	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

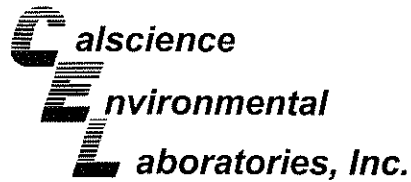
Date Received: 03/06/09  
Work Order No: 09-03-0520  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO 11120

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-03-0500-1	Aqueous	GC/MS BB	03/17/09	03/17/09	090317S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	110	86-122	5	0-8	
Carbon Tetrachloride	113	121	78-138	7	0-9	
Chlorobenzene	107	112	90-120	5	0-9	
1,2-Dibromoethane	105	110	70-130	4	0-30	
1,2-Dichlorobenzene	107	112	89-119	4	0-10	
1,1-Dichloroethene	98	107	52-142	9	0-23	
Ethylbenzene	98	103	70-130	4	0-30	
Toluene	100	104	85-127	3	0-12	
Trichloroethene	101	106	78-126	5	0-10	
Vinyl Chloride	90	92	56-140	2	0-21	
Methyl-t-Butyl Ether (MTBE)	88	93	64-136	6	0-28	
Tert-Butyl Alcohol (TBA)	111	111	27-183	1	0-60	
Diisopropyl Ether (DIPE)	89	94	78-126	5	0-16	
Ethyl-t-Butyl Ether (ETBE)	87	92	67-133	5	0-21	
Tert-Amyl-Methyl Ether (TAME)	88	91	63-141	4	0-21	
Ethanol	120	117	11-167	3	0-64	

RPD - Relative Percent Difference . CL - Control Limit



## Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

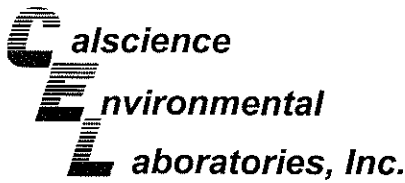
Date Received: 03/06/09  
Work Order No: 09-03-0520  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ARCO 11120

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-03-1066-3	Aqueous	GC/MS BB	03/18/09	03/18/09	090318S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	108	86-122	1	0-8	
Carbon Tetrachloride	116	116	78-138	0	0-9	
Chlorobenzene	100	100	90-120	0	0-9	
1,2-Dibromoethane	107	104	70-130	4	0-30	
1,2-Dichlorobenzene	105	105	89-119	1	0-10	
1,1-Dichloroethene	98	104	52-142	6	0-23	
Ethylbenzene	91	93	70-130	2	0-30	
Toluene	99	98	85-127	1	0-12	
Trichloroethene	105	101	78-126	4	0-10	
Vinyl Chloride	88	91	56-140	4	0-21	
Methyl-t-Butyl Ether (MTBE)	102	98	64-136	4	0-28	
Tert-Butyl Alcohol (TBA)	103	99	27-183	4	0-60	
Diisopropyl Ether (DIPE)	102	101	78-126	1	0-16	
Ethyl-t-Butyl Ether (ETBE)	102	99	67-133	3	0-21	
Tert-Amyl-Methyl Ether (TAME)	94	90	63-141	5	0-21	
Ethanol	87	98	11-167	12	0-64	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



Stratus Environmental, inc.  
 3330 Cameron Park Drive, Suite 550  
 Cameron Park, CA 95682-8861

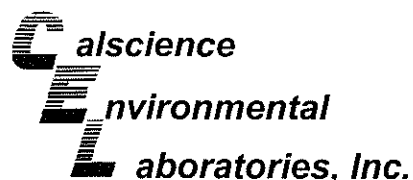
Date Received: N/A  
 Work Order No: 09-03-0520  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project: ARCO 11120

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-477	Aqueous	GC 4	03/17/09	03/17/09	090317B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	109	101	78-120	8	0-20	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: N/A  
Work Order No: 09-03-0520  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ARCO 11120

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-703-781	Aqueous	GC/MS BB	03/17/09	03/17/09	090317L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	109	104	87-117	82-122	4	0-7	
Carbon Tetrachloride	118	113	78-132	69-141	4	0-8	
Chlorobenzene	110	107	88-118	83-123	3	0-8	
1,2-Dibromoethane	105	108	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	110	107	88-118	83-123	2	0-8	
1,1-Dichloroethene	105	102	71-131	61-141	2	0-14	
Ethylbenzene	97	94	80-120	73-127	3	0-20	
Toluene	106	101	85-127	78-134	5	0-7	
Trichloroethene	110	106	85-121	79-127	4	0-11	
Vinyl Chloride	96	93	64-136	52-148	3	0-10	
Methyl-t-Butyl Ether (MTBE)	90	92	67-133	56-144	3	0-16	
Tert-Butyl Alcohol (TBA)	99	105	34-154	14-174	6	0-19	
Diisopropyl Ether (DIPE)	92	90	80-122	73-129	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	88	88	73-127	64-136	0	0-11	
Tert-Amyl-Methyl Ether (TAME)	90	90	69-135	58-146	0	0-12	
Ethanol	111	103	34-124	19-139	7	0-44	

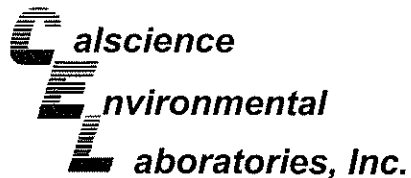
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682-8861

Date Received: N/A  
Work Order No: 09-03-0520  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ARCO 11120

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-703-784	Aqueous	GC/MS BB	03/18/09	03/18/09	090318L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	106	103	87-117	82-122	3	0-7	
Carbon Tetrachloride	112	109	78-132	69-141	3	0-8	
Chlorobenzene	101	99	88-118	83-123	2	0-8	
1,2-Dibromoethane	104	105	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	103	101	88-118	83-123	2	0-8	
1,1-Dichloroethene	111	107	71-131	61-141	4	0-14	
Ethylbenzene	97	94	80-120	73-127	3	0-20	
Toluene	102	97	85-127	78-134	5	0-7	
Trichloroethene	106	103	85-121	79-127	2	0-11	
Vinyl Chloride	92	95	64-136	52-148	3	0-10	
Methyl-t-Butyl Ether (MTBE)	96	97	67-133	56-144	2	0-16	
Tert-Butyl Alcohol (TBA)	97	99	34-154	14-174	2	0-19	
Diisopropyl Ether (DIPE)	97	97	80-122	73-129	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	100	100	73-127	64-136	0	0-11	
Tert-Amyl-Methyl Ether (TAME)	92	92	69-135	58-146	0	0-12	
Ethanol	97	96	34-124	19-139	0	0-44	

Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit


## Glossary of Terms and Qualifiers



Work Order Number: 09-03-0520

---

<u>Qualifier</u>	<u>Definition</u>
AX	Sample too dilute to quantify surrogate.
BA	There was no MS/MSD analyzed with this batch due to insufficient sample volume (NR = not reported). See Blank Spike/Blank Spike Duplicate.
BA,AY	Relative percent difference out of control, matrix interference suspected.
BB	Sample > 4x spike concentration.
BF	Reporting limits raised due to high hydrocarbon background.
BH	Reporting limits raised due to high level of non-target analytes.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
BY	Sample received at improper temperature.
CL	Initial analysis within holding time but required dilution.
CQ	Analyte concentration greater than 10 times the blank concentration.
CU	Surrogate concentration diluted to not detectable during analysis.
DF	Reporting limits elevated due to matrix interferences.
ET	Sample was extracted past end of recommended max. holding time.
EY	Result exceeds normal dynamic range; reported as a min est.
GS	Internal standard recovery is outside method recovery limit.
IB	CCV recovery abovelimit; analyte not detected.
IH	Calibrtn. verif. recov. below method CL for this analyte.
IJ	Calibrtn. verif. recov. above method CL for this analyte.
J,DX	J=EPA Flag -Estimated value; DX= Value < lowest standard (MQL), but > than MDL.
LA	Confirmatory analysis was past holding time.
LG	Surrogate recovery below the acceptance limit.
LH	Surrogate recovery above the acceptance limit.
LM,AY	MS and/or MSD above acceptance limits. See Blank Spike (LCS). Matrix interference suspected.
LN,AY	MS and/or MSD below acceptance limits. See Blank Spike (LCS). Matrix interference suspected.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.



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<u>Qualifier</u>	<u>Definition</u>
MB	Analyte present in the method blank.
MG	Analyte is a suspected lab contaminate.
PC	Sample taken from VOA vial with air bubble > 6mm diameter.
PI	Primary and confirm results varied by > than 40% RPD.
RB	RPD exceeded method control limit; % recoveries within limits.



## Laboratory Management Program LaMP Chain of Custody Record

0520

BP/ARC Project Name: BP 11120

Req Due Date (mm/dd/yy): 14 Day TAT Rush TAT: Yes \_\_\_ No X

BP/ARC Facility No: 11120

Lab Work Order Number: \_\_\_\_\_

Lab Name: CalScience	BP/ARC Facility Address: 6400 Dublin Blvd	Consultant/Contractor: Stratus Environmental Inc.
Lab Address: 7440 Lincoln Way, Garden Grove, CA 92841	City, State, ZIP Code: Dublin, CA	Consultant/Contractor Project No:
Lab PM: Richard Villaflania	Lead Regulatory Agency: Alameda	Address: 3330 Cameron Park Drive, #550, Cameron Park, CA 95682
Lab Phone: 714-895-5494 Fax: 714-895-7501	California Global ID No.: T0600101432	Consultant/Contractor PM: Jay Johnson
Lab Shipping Acct:	Enfos Proposal No:	Phone: 530-676-6000 Fax: 530-676-6005
Lab Bottle Order No:	Accounting Mode: Provision <u>X</u> OOC-BU ___ OOC-RM ___	Email EDD To: <a href="mailto:chuff@stratusinc.net">chuff@stratusinc.net</a>
Other Info:	Stage: BP/ARC WBS Stage Activity: BP/ARC WBS Activity	Invoice To: BP/ARC <u>X</u> Contractor ___

BP/ARC EBM: Paul Supple				Matrix			No. Containers / Preservative						Requested Analyses						Report Type & QC Level		
EBM Phone: (925) 275-3801 FAX (925) 275-3815				Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRO by 8015M	BTEX/S FO* by 8260B	Ethanol by 8260B	EDB by 8260B	1,2-DCA by 8260B			Standard <u>X</u>	Full Data Package ___
EBM Email: <a href="mailto:paul.supple@bp.com">paul.supple@bp.com</a>																				Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.  <b>Comments</b> *Oxy = MTBE, TAME, ETBE, DIPE, TBA	
Lab No.	Sample Description	Date	Time																		
1	MW-8	3/5/09	9:28	X									X	X	X	X	X				
2	MW-10		10:06	X									X	X	X	X	X				
3	MW-11		9:46	X									X	X	X	X	X				
4	TB-11120- 3/5/09-5:00		5:00	X																	ON HOLD

Sampler's Name: <u>ROBERTO HEIMLICH</u>	Reinquished By / Affiliation:	Date: <u>3/5/09</u>	Time: <u>11:45</u>	Accepted By / Affiliation: <u>Woburn CA</u>	Date: <u>3/6/09</u>	Time: <u>1000</u>
Sampler's Company: Stratus Environmental Inc.						
Shipment Method: _____	Shin Date: _____					
Shipment Tracking No: <u>106279926</u>						

Special Instructions: TB Sample ON HOLD! Cc results to [rmiller@broadbentinc.com](mailto:rmiller@broadbentinc.com)

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: \_\_\_\_\_ °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No

Page 13 of 13





WORK ORDER #: 09-03-0520

**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: stratus

DATE: 03/06/09

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 1.6 °C - 0.2°C (CF) = 1.4 °C  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature:  Air  Filter  Metals Only  PCBs Only Initial: HP

**CUSTODY SEALS INTACT:**

Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A Initial: HP

Sample  \_\_\_\_\_  No (Not Intact)  Not Present Initial: HP

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

Solid:  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve  EnCores®  TerraCores®  \_\_\_\_\_

Water:  VOA  VOA<sub>h</sub>  VOA<sub>na2</sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>po4</sub>  1AGB  1AGB<sub>na2</sub>

1AGB<sub>s</sub>  500AGB  500AGB<sub>s</sub>  250CGB  250CGB<sub>s</sub>  1PB  500PB  500PB<sub>na</sub>  250PB

250PB<sub>n</sub>  125PB  125PB<sub>znna</sub>  100PBsterile  100PB<sub>na2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

Air:  Tedlar®  Summa®  \_\_\_\_\_

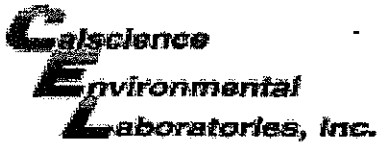
Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO<sub>3</sub> na<sub>2</sub>:Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na:NaOH po<sub>4</sub>:H<sub>3</sub>PO<sub>4</sub> s:H<sub>2</sub>SO<sub>4</sub> znna:ZnAc<sub>2</sub>+NaOH

Checked/Labeled by: SD

Reviewed by: WLC

Scanned by: SD



WORK ORDER #: 09-03-0520

**SAMPLE ANOMALY FORM**

**CHAIN OF CUSTODY (COC):**

- Not relinquished by client – no signature
- No date/time relinquished
- COC not received with samples – notify PM
- Incomplete information regarding samples, tests, etc.

Comments:  
 (-1) through (-3) received 6 vials  
 (-4) received 2 vials

**SAMPLES - CONTAINERS & LABELS:**

- Samples NOT RECEIVED but listed on COC
- Samples received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s) used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample labels do not match COC – Note in comments
  - Sample ID
  - Date and/or Time Collected
  - Project Information
  - # of containers
- Sample containers compromised – Note in comments
  - Leaking
  - Broken
  - Without Labels
- Other: \_\_\_\_\_

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
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 \_\_\_\_\_  
 \_\_\_\_\_

**HEADSPACE – Containers with Bubble > 6mm or ¼ inch:**

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of RSK or CO <sub>2</sub> or DO or Organic Lead Received

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Initial / Date SO / 3/06/09

## ATTACHMENT

### FIELD PROCEDURES FOR GROUNDWATER SAMPLING

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The sampling procedures for groundwater monitoring events are contained in this appendix.

#### **Groundwater and Liquid-Phase Petroleum Hydrocarbon Depth Assessment**

Prior to measuring the depth to liquid in the well, the well caps are removed and the liquid level allowed to stabilize. A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the groundwater depth in monitoring wells that do not contain LPH. Depth to groundwater or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

#### **Subjective Analysis of Groundwater**

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

#### **Monitoring Well Sampling**

In many cases, determining whether to purge or not to purge wells prior to sample collection is made in the field and is often based on depth to water relative to the screen interval of the well. Site-specific field data sheets present details associated with the purge method and equipment used.

Monitoring wells, when purged, use a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water has been removed. Field measuring equipment is calibrated and maintained according to the manufacturer's instructions. If three well volumes cannot be removed in one half hour's time the well is allowed to recharge to 80% of original level. After recharging, a groundwater sample is then collected from each of the wells using disposable bailers.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These

bottles will be filled completely to prevent air accumulation in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

### **Groundwater Sample Labeling and Preservation**

Samples are collected in appropriate containers supplied by the laboratory. All required chemical preservation is added to the bottles prior to delivery to Stratus. Sample label information includes a unique sample identification number, job identification number, date, and time. After labeling, all groundwater samples are placed in a Ziploc<sup>®</sup> type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip and temperature blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

### **Sample Identification and Chain-of-Custody Procedures**

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

### **Equipment Cleaning**

All reusable sampling equipments are cleaned using phosphate-free detergents and rinsed with de-ionized water.

**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 (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	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	---	---	---	---	---	---	---	7.8	PACE
MW-1	03/16/95	328.96	4.97	324.59	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---
MW-1	06/28/95	328.96	5.35	323.61	---	---	---	---	---	---	---	5.6	ATI
MW-1	09/06/95	328.96	6.44	322.52	ND<50	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---
MW-1	12/22/95	328.96	6.04	322.92	---	---	---	---	---	---	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	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	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	---	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	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	09/06/95	328.50	4.33	324.17	---	---	---	---	---	ND<1.0	---	6.6	ATI
MW-2	12/22/95	328.50	5.85	322.65	ND<50	210	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---
MW-2	08/20/96	328.50	5.50	323.00	---	---	---	---	---	---	ND<5.0	7.0	ATI
MW-2	08/21/96	328.50	5.07	323.43	---	---	---	---	---	---	---	---	---
MW-2	10/31/96	328.50	---	---	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	---	---	---
MW-2	12/02/96	328.50	5.44	323.06	---	---	---	---	---	---	---	---	---
MW-2	03/27/97	328.50	5.50	323.00	---	---	---	---	---	---	---	7.0	SPL
MW-2	06/03/97	328.50	4.61	323.89	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	---	---	---
MW-2	09/16/97	328.50	7.14	321.36	---	---	---	---	---	---	---	---	---
MW-2	12/03/97	328.50	6.10	322.40	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.8	SPL
MW-2	08/26/98	328.50	6.22	322.28	---	---	---	---	---	---	---	---	---
MW-2		328.50	4.86	323.64	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.2	SPL
												4.6	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 (e) (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-3	10/27/92	329.36	8.43	320.93	210	ND<50	3	0.7	0.9	30	—	—	PACE
MW-3	04/09/93	329.36	4.90	324.46	400	260	6.1	ND<0.5	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	7200	(e)	PACE
MW-3	06/09/94	329.36	6.51	322.85	8500	2600	25	8.3	0.5	15	13000	(e)	PACE
QC-1 (f)	06/09/94	—	—	—	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	3800	(e)	PACE
QC-1 (f)	09/12/94	—	—	—	1800	—	ND<5.0	ND<5.0	8.0	10	3900	(e)	PACE
MW-3	12/20/94	329.36	6.41	322.95	18000	9600	79	28	89	9.3	—	—	PACE
QC-1 (f)	12/20/94	—	—	—	17000	—	79	33	80	ND<2.5	—	7.3	PACE
MW-3	03/18/95	329.36	4.39	324.97	6300	7000	470	ND<5.0	210	—	—	—	PACE
QC-1 (f)	03/18/95	—	—	—	6300	—	500	ND<5.0	230	—	—	5.5	ATI
MW-3	06/28/95	329.36	5.50	323.86	8000	3000	(g) ND<10	ND<10	ND<10	ND<20	—	—	ATI
QC-1 (f)	06/28/95	—	—	—	8800	—	(g) ND<10	ND<10	ND<10	ND<20	—	7.4	ATI
MW-3	09/06/95	329.36	6.66	322.70	10000	—	ND<50	ND<50	ND<50	ND<100	37000	7.1	ATI
QC-1 (f)	09/06/95	—	—	—	9700	2800	ND<50	ND<50	ND<50	ND<100	36000	—	ATI
MW-3	12/22/95	329.36	6.31	323.05	9200	2500	ND<50	ND<50	ND<50	ND<100	29000	6.7	ATI
MW-3	08/20/96	329.36	5.87	323.49	—	—	—	—	—	—	—	—	—
MW-3	08/21/96	329.36	—	—	3700	1900	ND<25	ND<50	ND<50	ND<50	4100	6.8	SPL
QC-1 (f)	08/21/96	—	—	—	3500	—	ND<25	ND<50	ND<50	ND<50	4000	—	SPL
MW-3	10/31/96	329.36	6.20	323.16	ND<250	ND<500	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.8	SPL
MW-3	12/02/96	329.36	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	—
QC-1 (f)	12/02/96	—	—	—	ND<250	50	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.4	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	03/27/97	329.36	5.39	323.97	470	ND<100	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	—
MW-3	06/03/97	329.36	7.92	321.44	ND<250	100	ND<2.5	ND<5.0	ND<5.0	ND<5.0	490	6.2	SPL
QC-1 (f)	06/03/97	—	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	84	5.9	SPL
MW-3	09/16/97	329.36	6.67	322.69	ND<50	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	74.0	—	—
MW-3	12/03/97	329.36	6.81	322.55	ND<50	330	ND<2.5	ND<5.0	ND<5.0	ND<5.0	—	—	—
QC-1 (f)	12/03/97	—	—	—	ND<50	ND<200	ND<0.5	ND<1.0	ND<5.0	ND<5.0	ND<50	5.5	SPL
MW-3	06/26/98	329.36	5.08	324.28	ND<50	—	ND<0.5	ND<1.0	ND<5.0	ND<5.0	ND<10	5.0	SPL
					ND<250	—	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

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
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			
MW-4	08/25/88	329.45	7.32	322.13	1800	380		78	3.5	68	320		PACE
QC-1 (f)	08/25/93	—	—	—	1600	—	ND<0.5	ND<0.5	ND<0.5	1.0	—	—	PACE
MW-4	11/22/93	329.45	7.83	321.62	1700	—	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	—	ND<2.5	ND<2.5	ND<2.5	ND<2.5	—	—	PACE
QC-1 (f)	03/07/94	—	—	—	1600	1400	0.5	0.8	ND<0.5	ND<0.5	3500	(e)	PACE
MW-4	06/09/94	329.45	6.76	322.69	—	—	ND<0.5	ND<0.5	1.4	0.6	5900	(e)	PACE
MW-4	09/12/94	329.45	7.83	321.62	6400	1800	ND<10	ND<10	ND<10	ND<10	4200	(e)	PACE
MW-4	12/20/94	329.45	6.68	322.77	2000	2700	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10000	(e)	PACE
MW-4	03/16/95	329.45	4.66	324.79	9200	2400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4200	(e)	PACE
MW-4	06/28/95	329.45	5.93	323.52	1400	960	140	ND<2.5	58	14	—	6.1	PACE
MW-4	09/06/95	329.45	6.83	322.62	5000	5400	(g) 240	ND<5.0	220	ND<10	—	5.5	ATI
MW-4	12/22/95	329.45	6.42	323.03	4400	4700	ND<13	ND<13	ND<13	ND<25	12000	7.4	ATI
QC-1 (f)	12/22/95	—	—	—	3900	—	15	ND<13	ND<13	ND<25	9200	7.1	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<5.0	ND<250	7.7	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	7.1	SPL
QC-1 (f)	03/27/97	—	—	—	8300	1500	44	ND<25	ND<25	ND<25	2200	7.3	SPL
MW-4	06/03/97	329.45	8.97	321.08	6900	—	51	ND<25	ND<25	ND<25	8000	6.2	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	7.1	SPL
MW-4	12/03/97	329.45	7.16	322.29	130	—	1.2	ND<1.0	ND<1.0	ND<1.0	7700	6.2	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	324.32	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1100	5.3	SPL
MW-5	11/22/93	329.60	7.82	322.32	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	321.78	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	323.33	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	322.87	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	5.7	PACE
MW-5	12/20/94	329.60	6.63	321.82	ND<50	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	7.7	PACE
MW-5	03/16/95	329.60	4.65	322.97	—	—	—	—	—	—	—	7.2	PACE
MW-5	06/28/95	329.60	5.69	324.95	ND<50	ND<500	ND<0.50	ND<0.50	—	—	—	—	—
MW-5	09/06/95	329.60	6.82	323.91	—	—	—	—	ND<0.50	ND<1.0	—	—	—
MW-5	12/22/95	329.60	6.40	322.78	ND<50	200	—	—	—	—	—	4.9	ATI
MW-5	08/20/96	329.60	5.98	323.20	—	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	—
MW-5	08/21/96	329.60	—	323.62	—	—	—	—	—	—	ND<5.0	7.3	ATI
MW-5	10/31/96	329.60	6.29	—	ND<50	ND<50	—	—	—	—	—	—	—
MW-5	12/02/96	329.60	6.37	323.31	—	—	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<10	6.9	SPL
MW-5	03/27/97	329.60	5.33	323.23	—	—	—	—	—	—	—	—	—
MW-5	06/03/97	329.60	8.00	324.27	ND<50	ND<100	—	—	—	—	—	—	—
MW-5	09/16/97	329.60	6.89	321.60	—	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.8	SPL
MW-5	12/03/97	329.60	6.99	322.71	ND<50	ND<100	—	—	—	—	—	—	—
MW-5	06/26/98	329.60	5.11	322.61	—	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	27	5.4	SPL
				324.49	ND<50	—	—	—	—	—	—	—	—
							ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.7	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-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	6.85	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	—	—	—	—	—	—	—	6.7	PACE
MW-6	03/16/95	329.55	4.78	324.77	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	—
MW-6	06/28/95	329.55	5.97	323.58	—	—	—	—	—	—	—	6.1	ATI
MW-6	09/06/95	329.55	6.94	322.61	ND<50	340	ND<0.50	—	—	—	—	—	—
MW-6	12/22/95	329.55	6.53	323.02	—	—	—	—	—	—	—	—	—
MW-6	08/20/96	329.55	6.18	323.37	—	—	—	—	—	—	—	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	—	—	—	—	—	—	—	—	—
MW-6	03/27/97	329.55	5.50	324.05	—	—	—	—	—	—	—	—	—
MW-6	06/03/97	329.55	8.19	321.36	ND<50	ND<100	ND<0.5	—	—	—	—	—	—
MW-6	09/16/97	329.55	6.95	322.60	—	—	—	—	—	—	—	—	—
MW-6	12/03/97	329.55	7.22	322.33	ND<250	680	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<10	6.3	SPL
MW-6	06/26/98	329.55	5.20	322.33	—	—	—	—	—	—	—	—	—
MW-7	04/09/93	329.49	5.36	324.13	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	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<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	6.65	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	—	—	—	—	—	—	—	—	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	7.00	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<10	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<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.0	SPL
							ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	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	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
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

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.

FO 1110-170170-5-4.WC22

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

FA01\10-170\10-170EC.WQ2

**APPENDIX C**

**GEOTRACKER UPLOAD CONFIRMATION**

STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

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<b><u>Facility Name:</u></b>	BP #11120
<b><u>File Name:</u></b>	09030520.zip
<b><u>Organization Name:</u></b>	Broadbent & Associates, Inc.
<b><u>Username:</u></b>	BROADBENT-C
<b><u>IP Address:</u></b>	67.118.40.90
<b><u>Submittal Date/Time:</u></b>	4/8/2009 8:26:57 AM
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STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

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<b><u>Facility Global ID:</u></b>	<b>T0600101432</b>
<b><u>Facility Name:</u></b>	<b>BP #11120</b>
<b><u>File Name:</u></b>	<b>GEO_WELL.zip</b>
<b><u>Organization Name:</u></b>	<b>Broadbent &amp; Associates, Inc.</b>
<b><u>Username:</u></b>	<b>BROADBENT-C</b>
<b><u>IP Address:</u></b>	<b>67.118.40.90</b>
<b><u>Submittal Date/Time:</u></b>	<b>4/8/2009 8:25:57 AM</b>
<b><u>Confirmation Number:</u></b>	<b>6805245518</b>