ARCADIS
100 Montgomery Street
Suite 300
San Francisco
California 94104
Tel 415.374.2744
Fax 415.374.2745
www.arcadis-us.com

Environmental

Re: Third Quarter 2009 Semi-Annual Ground-Water Monitoring Report
Former BP Station #11107
18501 Hesperian Boulevard
San Lorenzo, California
ACEH Case No. RO0000489

"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."

Date:
10/26/2009

Submitted by:

Hollis E. Phillips, PG
Senior Geologist

Contact:
Hollis Phillips

Phone:
415.374.2744 x13

Email:
hollis.phillips@arcadis-us.com

Our ref:
GP09BPNA.0000

Third Quarter, 2009 Semi-Annual
Ground-Water Monitoring Report
Former BP Station #11107
18501 Hesperian Boulevard
San Lorenzo, California

Prepared for

Ms. Hollis Phillips, PG
Senior Geologist
ARCADIS-US, Inc.
100 Montgomery Street, Ste. 300
San Francisco, California 94104

On behalf of

Atlantic Richfield Company
PO Box 1257
San Ramon, California 94583

Prepared by

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

1324 Mangrove Avenue, Suite 212
Chico, California 95926
(530) 566-1400
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October 2009

Project No. 06-82-645

Broadbent & Associates, Inc.
1324 Mangrove Ave., Suite 212
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BROADBENT & ASSOCIATES, INC
ENVIRONMENTAL, WATER RESOURCES & ENGINEERING

October 26, 2009

Project No. 06-82-645

ARCADIS-US, Inc.
100 Montgomery Street, Ste. 300
San Francisco, CA 94104

Attn.: Ms. Hollis Phillips, PG

Re: Third Quarter, 2009 Semi-Annual Ground-Water Monitoring Report, Former BP Station #11107, 18501 Hesperian Boulevard, San Lorenzo, California. ACEH Case No. RO0000489.

Dear Ms. Phillips:

Attached is the *Third Quarter, 2009 Semi-Annual Ground-Water Monitoring Report* for Former BP Station #11107 (herein referred to as Station #11107) located at 18501 Hesperian Boulevard, San Lorenzo, California (Property). This report presents a summary of Third Quarter, 2009 ground-water monitoring results

Should you have questions please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Dee Walter for

Jason R. Emme
Senior Staff Scientist

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

Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA, 94502 (Submitted via ACEH ftp Site)
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, CA 95818
Mr. Abdul Noor Mayar, 18501 Hesperian Blvd, San Lorenzo, CA 94580
GeoTracker

STATION #11107 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Facility: #11107 Address:	18501 Hesperian Boulevard, San Lorenzo, California
ARCADIS Project Manager:	Ms. Hollis Phillips, PG
Consulting Co./Contact Persons:	Broadbent & Associates (BAI) / Rob Miller & Matt Herrick
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH)/ACEH Case No. RO0000489
Consultant Project No.:	06-82-645
Facility Permits/Permitting Agency.:	NA

WORK PERFORMED THIS QUARTER (Third Quarter, 2009):

1. Submitted Second Quarter, 2009 Status Report. Work performed by BAI.
2. Conducted ground-water monitoring/sampling for Third Quarter, 2009. Work performed by Stratus Environmental, Inc.
3. Complete repairs to secure monitor wells as detailed in the September 25, 2009 email to ACEH. Work performed by BAI.

WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter, 2009):

1. Submit Third Quarter, 2009 Semi-Annual Ground-Water Monitoring Report (contained herein).
2. No environmental field work is scheduled to be completed on the Property during the Fourth Quarter, 2009.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	**Monitoring/sampling**
Frequency of ground-water sampling:	**MW-4, MW-5, and MW-6 = Semi-Annual (1Q and 3Q)**
Frequency of ground-water monitoring:	**MW-1 through MW-7 = Semi-annual (1Q and 3Q)**
Is free product (FP) present on-site:	**No**
Current remediation techniques:	**NA**
Depth to ground water (below TOC):	**16.55 (MW-6) to 18.51 (MW-1)**
General ground-water flow direction:	**West**
Approximate hydraulic gradient:	**0.004 feet per foot**

DISCUSSION:

During Third Quarter, 2009 monitor wells MW-4, MW-5, and MW-6 were below laboratory detection limits for gasoline range organics (GRO), benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and fuel additives Methyl-tert-butyl ether (MTBE), ethanol, Tert-butyl alcohol (TBA), Di-isopropyl ether (DIPE), Ethyl-tert-butyl ether (ETBE), Tert-amyl-methyl ether (TAME), 1,2-Dicholorethane (1,2-DCA), and 1,2-Dibromoethane (EDB).

Ground-water elevations for Third Quarter, 2009 were within historic minimum and maximum ranges for each well.

Drawing 1 shows a site location map. Drawing 2 depicts the ground-water elevation contour and an analytical summary map for the Third 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 lists historical ground-water flow direction and gradient data.

Case closure was requested on April 23, 2003 by Atlantic Richfield Company. A response from the ACEH regarding the closure request has not been received. Data collected during the Third Quarter, 2009 continue to document ground-water concentrations below water quality objectives at the site. The completion of a formal closure request report for submittal to the ACEH is being considered.

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. (Garden Grove, CA). 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 ARCADIS-US, Inc. and Atlantic Richfield Company (a BP affiliated 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.	Site Location Map
Drawing 2.	Ground-Water Elevation Contour and Analytical Summary Map, Station #11107, San Lorenzo, CA
Table 1.	Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11107, San Lorenzo, CA
Table 2.	Summary of Fuel Additives Analytical Data, Station #11107, San Lorenzo, CA
Table 3.	Historical Ground-Water Flow Direction and Gradient, Station #11107, San Lorenzo, CA
Appendix A.	Stratus Environmental, Inc. Ground-Water Sampling Data Package (Includes Field Data Sheets, Non-hazardous Waste Data Forms, Field Procedures for Ground-Water Sampling, and Laboratory Report and Chain of Custody Documentation)
Appendix B.	GeoTracker Upload Confirmation

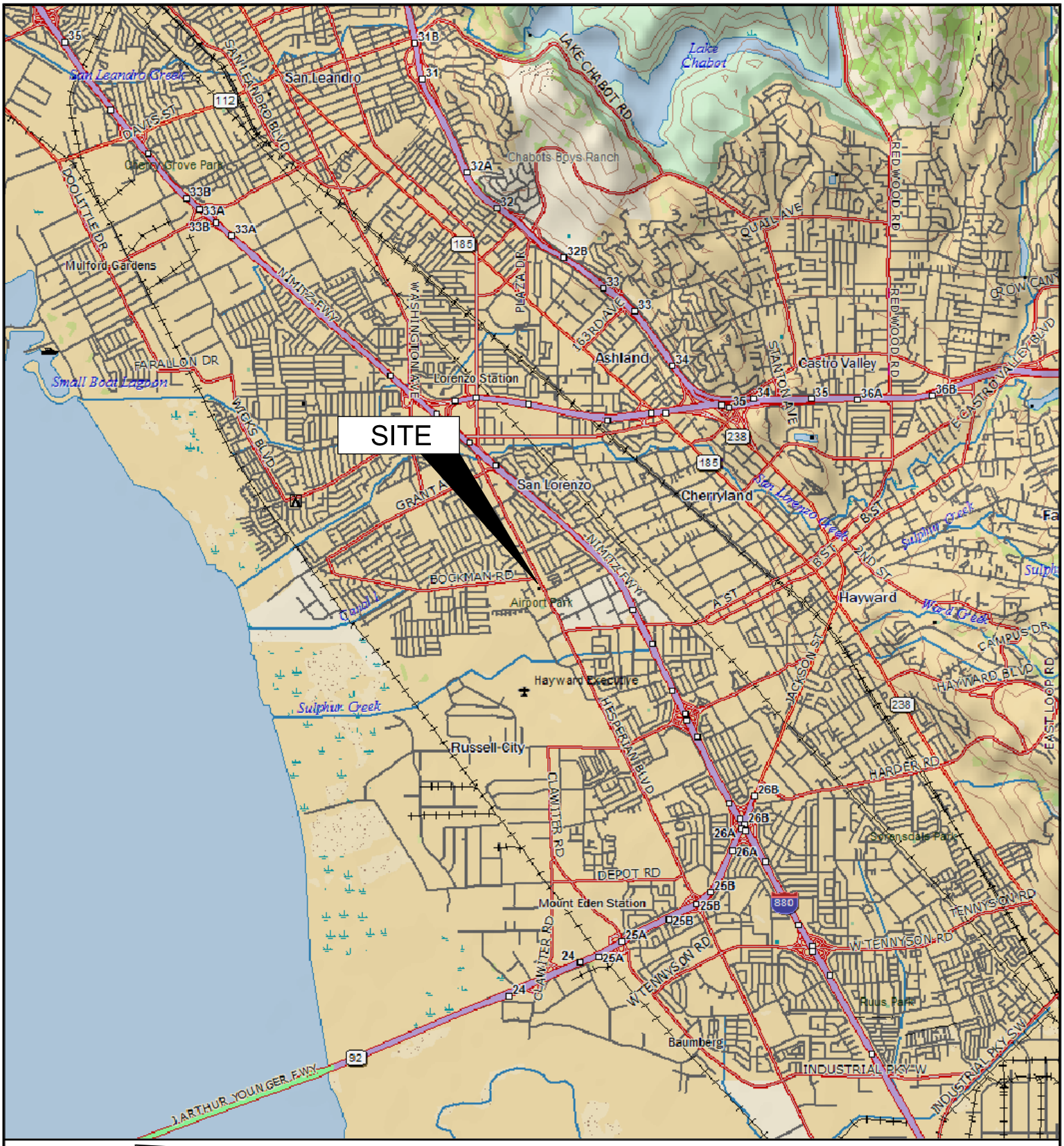


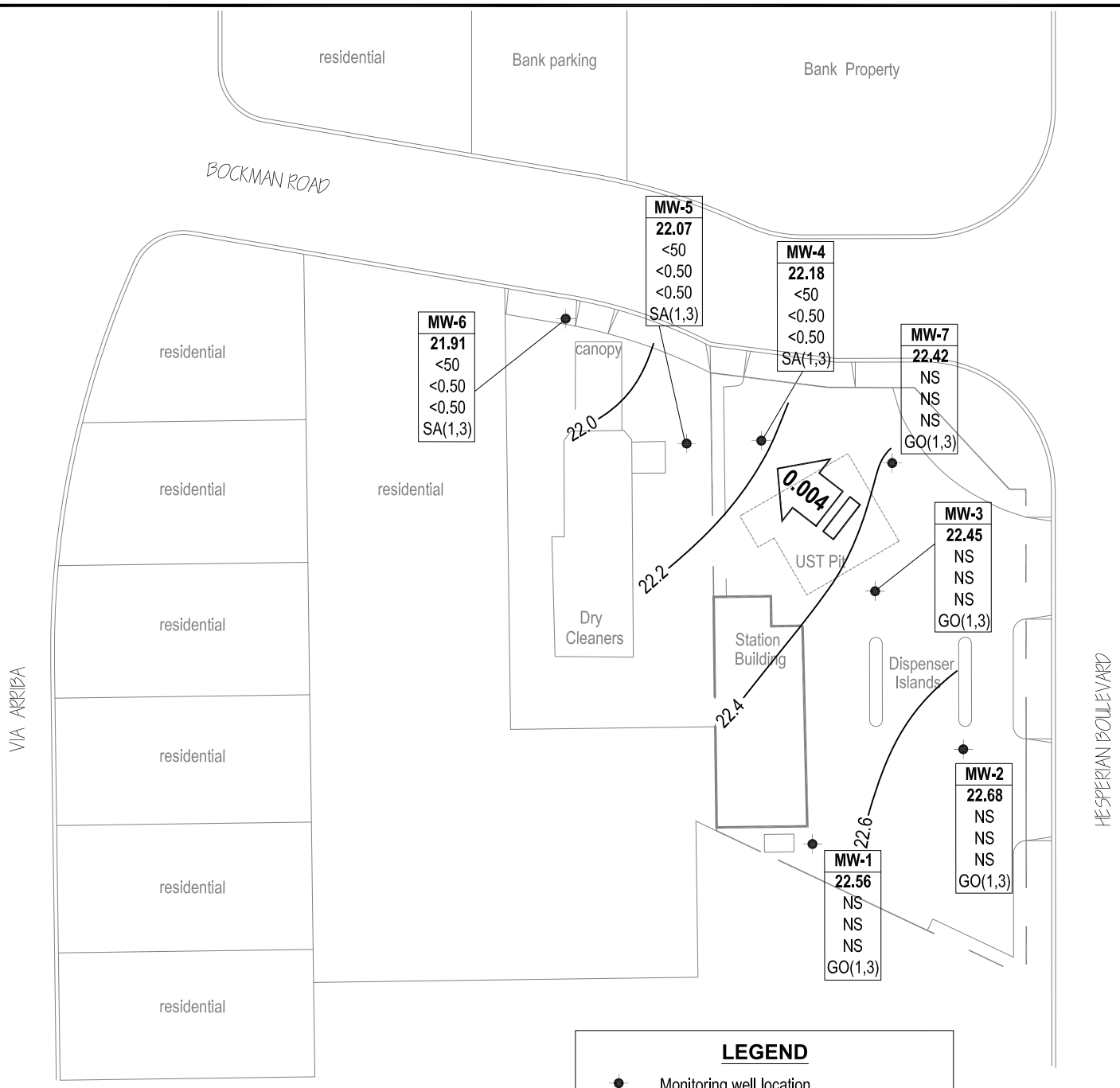
IMAGE SOURCE: DELORME

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No.: 06-82-645 Date: 9/30/2009

Former BP Station #11107
18501 Hesperian Boulevard
San Lorenzo, California

Site Location Map

Drawing
1



LEGEND

- Monitoring well location
- WELL / ELEV — Well designation; Ground-water elevation
- GRO / Benzene / MTBE — GRO, Benzene and MTBE concentrations in micrograms per liter (µg/L)
- SA — Sampling frequency
- < — Not detected at or above laboratory reporting limits
- NS — Not sampled
- SA(1,3) — Sampled semi-annually in 1st & 3rd quarters
- GO(1,3) — Gauged only semi-annually in 1st & 3rd quarters
- 0.004 — Approximate ground-water flow direction and gradient (ft/ft)
- 22.0 — Ground-water elevation contour line (ft/MSL)

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

N

0 60 120

SCALE (ft)

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No.: 06-82-645 Date: 9/30/09

Former BP Station #11107
18501 Hesperian Boulevard
San Lorenzo, California

Ground-Water Elevation Contour and Analytical Summary Map
August 27, 2009

Drawing
2

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-1																		
11/4/1992	--	j	41.07	20.78	--	20.29	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	<50	<5000	--
11/4/1992	--	c, j	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
2/24/1994	--	j	41.07	20.70	--	20.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	<50	<5000	--
5/12/1994	--	j	41.07	18.12	--	22.95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	7.0	PACE	--	<50	<5000	--
9/9/1994	--	j	41.07	21.74	--	19.33	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.3	PACE	--	<50	<5000	--
11/3/1994	--	j	41.07	20.01	--	21.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0	4.3	PACE	--	50	<5000	--
3/1/1995	--		41.07	17.44	--	23.63	<50	<50	<0.50	<0.50	<1.0	--	2.3	ATI	--	<500	420	--
6/6/1995	--		41.07	17.55	--	23.52	--	--	--	--	--	--	--	--	--	--	--	--
9/1/1995	--		41.07	18.19	--	22.88	<50	<0.50	<0.50	<0.50	<1.0	<5.0	8.8	ATI	--	<50	60	--
11/29/1995	--		41.07	18.84	--	22.23	--	--	--	--	--	--	--	--	--	--	--	--
3/23/1996	--		41.07	16.97	--	24.10	<50	<0.5	<1.0	<1.0	<1.0	<10	9.6	SPL	--	--	--	--
9/5/1996	--		41.07	17.74	--	23.33	110	<0.5	<1.0	<1.0	<1.0	<10	3.6	SPL	--	--	--	--
3/11/1997	--		41.07	17.62	--	23.45	<50	<0.5	<1.0	<1.0	<1.0	<10	5.2	SPL	--	--	--	--
12/8/1997	--		41.07	16.30	--	24.77	<50	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--
7/8/1998	--		41.07	16.66	--	24.41	--	--	--	--	--	--	--	--	--	--	--	--
12/7/1998	--		41.07	17.80	--	23.27	--	--	--	--	--	--	--	--	--	--	--	--
1/19/1999	--		41.07	17.18	--	23.89	--	--	--	--	--	--	--	--	--	--	--	--
4/23/1999	--		41.07	17.40	--	23.67	--	--	--	--	--	--	--	--	--	--	--	--
7/20/1999	--		41.07	17.76	--	23.31	--	--	--	--	--	--	--	--	--	--	--	--
2/29/2000	--		41.07	17.17	--	23.90	--	--	--	--	--	--	--	--	--	--	--	--
4/14/2000	--		41.07	17.22	--	23.85	--	--	--	--	--	--	--	--	--	--	--	--
7/24/2000	--		41.07	17.61	--	23.46	--	--	--	--	--	--	--	--	--	--	--	--
10/30/2000	--		41.07	17.76	--	23.31	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2001	--		41.07	17.88	--	23.19	--	--	--	--	--	--	--	--	--	--	--	--
5/17/2001	--		41.07	17.82	--	23.25	--	--	--	--	--	--	--	--	--	--	--	--
7/2/2001	--		41.07	17.95	--	23.12	--	--	--	--	--	--	--	--	--	--	--	--
11/2/2001	--		41.07	18.25	--	22.82	--	--	--	--	--	--	--	--	--	--	--	--
8/6/2002	--		41.07	17.93	--	23.14	--	--	--	--	--	--	--	--	--	--	--	--
10/16/2002	--		41.07	18.32	--	22.75	--	--	--	--	--	--	--	--	--	--	--	--
1/13/2003	--		41.07	17.31	--	23.76	--	--	--	--	--	--	--	--	--	--	--	--
5/2/2003	--		41.07	17.55	--	23.52	--	--	--	--	--	--	--	--	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MtBE						
MW-1 Cont.																		
7/11/2003	--		41.07	17.80	--	23.27	--	--	--	--	--	--	--	--	--	--	--	--
10/01/2003	--		41.07	17.68	--	23.39	--	--	--	--	--	--	--	--	--	--	--	--
02/11/2004	--		41.07	17.68	--	23.39	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2004	--		41.07	18.06	--	23.01	--	--	--	--	--	--	--	--	--	--	--	--
01/20/2005	--		41.07	17.56	--	23.51	--	--	--	--	--	--	--	--	--	--	--	--
07/19/2005	--		41.07	18.00	--	23.07	--	--	--	--	--	--	--	--	--	--	--	--
01/11/2006	--		41.07	17.17	--	23.90	--	--	--	--	--	--	--	--	--	--	--	--
7/26/2006	--		41.07	17.79	--	23.28	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2007	--		41.07	17.85	--	23.22	--	--	--	--	--	--	--	--	--	--	--	--
7/23/2007	--		41.07	18.10	--	22.97	--	--	--	--	--	--	--	--	--	--	--	--
1/16/2008	--		41.07	17.70	--	23.37	--	--	--	--	--	--	--	--	--	--	--	--
7/17/2008	--		41.07	18.03	--	23.04	--	--	--	--	--	--	--	--	--	--	--	--
1/28/2009	--		41.07	18.00	--	23.07	--	--	--	--	--	--	--	--	--	--	--	--
8/27/2009	--		**41.07**	**18.51**	--	**22.56**	--	--	--	--	--	--	--	--	--	--	--	--
MW-2																		
11/4/1992	--	j	40.56	20.16	--	20.40	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
2/24/1994	--	j	40.56	20.12	--	20.44	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	--	--	--
5/12/1994	--	j	40.56	17.49	--	23.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	7.4	PACE	--	--	--	--
9/9/1994	--	j	40.56	21.12	--	19.44	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.1	PACE	--	--	--	--
11/3/1994	--	j	40.56	19.36	--	21.20	<50	<0.5	<0.5	<0.5	<0.5	<5.0	4.2	PACE	--	--	--	--
3/1/1995	--		40.56	16.83	--	23.73	<50	<0.50	<0.50	<0.50	<1.0	--	2.2	ATI	--	--	--	--
6/6/1995	--		40.56	16.96	--	23.60	--	--	--	--	--	--	--	--	--	--	--	--
9/1/1995	--		40.56	17.54	--	23.02	<50	<0.50	<0.50	<0.50	<1.0	<5.0	7.9	ATI	--	--	--	--
11/29/1995	--		40.56	18.19	--	22.37	--	--	--	--	--	--	--	--	--	--	--	--
3/23/1996	--		40.56	16.35	--	24.21	<50	<0.5	<1	<1	<1	<10	8.5	SPL	--	--	--	--
9/5/1996	--		40.56	17.55	--	23.01	<50	<0.5	<1.0	<1.0	<1.0	<10	3.2	SPL	--	--	--	--
3/11/1997	--		40.56	16.95	--	23.61	<50	<0.5	<1.0	<1.0	<1.0	<10	2.9	SPL	--	--	--	--
12/8/1997	--		40.56	16.01	--	24.55	<50	<0.5	<1.0	<1.0	<1.0	<10	3.0	SPL	--	--	--	--
7/8/1998	--		40.56	16.41	--	24.15	--	--	--	--	--	--	--	--	--	--	--	--
12/7/1998	--		40.56	17.15	--	23.41	--	--	--	--	--	--	--	--	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MtBE						
MW-2 Cont.																		
1/19/1999	--		40.56	17.15	--	23.41	--	--	--	--	--	--	--	--	--	--	--	--
4/23/1999	--		40.56	16.89	--	23.67	--	--	--	--	--	--	--	--	--	--	--	--
7/20/1999	--		40.56	17.25	--	23.31	--	--	--	--	--	--	--	--	--	--	--	--
12/30/1999	--		40.56	17.44	--	23.12	--	--	--	--	--	--	--	--	--	--	--	--
2/29/2000	--		40.56	16.13	--	24.43	--	--	--	--	--	--	--	--	--	--	--	--
4/14/2000	--		40.56	16.88	--	23.68	--	--	--	--	--	--	--	--	--	--	--	--
7/24/2000	--		40.56	17.11	--	23.45	--	--	--	--	--	--	--	--	--	--	--	--
10/30/2000	--		40.56	17.12	--	23.44	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2001	--		40.56	17.28	--	23.28	--	--	--	--	--	--	--	--	--	--	--	--
5/17/2001	--		40.56	17.20	--	23.36	--	--	--	--	--	--	--	--	--	--	--	--
7/2/2001	--		40.56	17.45	--	23.11	--	--	--	--	--	--	--	--	--	--	--	--
11/2/2001	--		40.56	17.62	--	22.94	--	--	--	--	--	--	--	--	--	--	--	--
8/6/2002	--		40.56	17.42	--	23.14	--	--	--	--	--	--	--	--	--	--	--	--
10/16/2002	--		40.56	17.74	--	22.82	--	--	--	--	--	--	--	--	--	--	--	--
1/13/2003	--		40.56	16.74	--	23.82	--	--	--	--	--	--	--	--	--	--	--	--
5/2/2003	--		40.56	17.00	--	23.56	--	--	--	--	--	--	--	--	--	--	--	--
7/11/2003	--		40.56	17.29	--	23.27	--	--	--	--	--	--	--	--	--	--	--	--
10/01/2003	--		40.56	17.59	--	22.97	--	--	--	--	--	--	--	--	--	--	--	--
02/11/2004	--		40.56	17.27	--	23.29	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2004	--		40.56	17.42	--	23.14	--	--	--	--	--	--	--	--	--	--	--	--
01/20/2005	--		40.56	16.77	--	23.79	--	--	--	--	--	--	--	--	--	--	--	--
07/19/2005	--		40.56	17.17	--	23.39	--	--	--	--	--	--	--	--	--	--	--	--
01/11/2006	--		40.56	16.57	--	23.99	--	--	--	--	--	--	--	--	--	--	--	--
7/26/2006	--		40.56	17.07	--	23.49	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2007	--		40.56	17.27	--	23.29	--	--	--	--	--	--	--	--	--	--	--	--
7/23/2007	--		40.56	17.45	--	23.11	--	--	--	--	--	--	--	--	--	--	--	--
1/16/2008	--		40.56	17.02	--	23.54	--	--	--	--	--	--	--	--	--	--	--	--
7/17/2008	--		40.56	17.48	--	23.08	--	--	--	--	--	--	--	--	--	--	--	--
1/28/2009	--		40.56	17.48	--	23.08	--	--	--	--	--	--	--	--	--	--	--	--
8/27/2009	--		**40.56**	**17.88**	--	**22.68**	--	--	--	--	--	--	--	--	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-3																		
11/4/1992	--	j	40.45	20.23	--	20.22	760	3.7	15	1.9	57	--	--	PACE	--	--	--	--
2/24/1994	--	j	40.45	20.24	--	20.21	<50	<0.5	<0.5	<0.5	<0.5	30.66	--	PACE	--	--	--	--
5/12/1994	--	j	40.45	17.61	--	22.84	<50	<0.5	<0.5	<0.5	<0.5	7.11	7.3	PACE	--	--	--	--
9/9/1994	--	j	40.45	21.22	--	19.23	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.0	PACE	--	--	--	--
11/3/1994	--	j	40.45	19.48	--	20.97	<50	<0.5	<0.5	<0.5	<0.5	10.98	3.6	PACE	--	--	--	--
3/1/1995	--		40.45	17.08	--	23.37	<50	<0.50	<0.50	<0.50	<1.0	--	1.9	ATI	--	--	--	--
6/6/1995	--		40.45	17.21	--	23.24	--	--	--	--	--	--	--	--	--	--	--	--
9/1/1995	--		40.45	17.69	--	22.76	200	2.7	33	7.2	43	<5.0	7.8	ATI	--	--	--	--
9/1/1995	--		40.45	18.29	--	22.16	--	--	--	--	--	--	--	--	--	--	--	--
3/23/1996	--		40.45	16.59	--	23.86	<50	<0.5	<1	<1	<1	<10	7.3	SPL	--	--	--	--
9/5/1996	--		40.45	17.71	--	22.74	<50	<0.5	<1.0	<1.0	<1.0	<10	3.2	SPL	--	--	--	--
3/11/1997	--		40.45	17.17	--	23.28	<50	<0.5	<1.0	<1.0	<1.0	<10	1.5	SPL	--	--	--	--
12/8/1997	--		40.45	16.12	--	24.33	<50	<0.5	<1.0	<1.0	<1.0	<10	1.9	SPL	--	--	--	--
7/8/1998	--		40.45	16.40	--	24.05	--	--	--	--	--	--	--	--	--	--	--	--
12/7/1998	--		40.45	17.32	--	23.13	--	--	--	--	--	--	--	--	--	--	--	--
1/19/1999	--		40.45	17.30	--	23.15	--	--	--	--	--	--	--	--	--	--	--	--
4/23/1999	--		40.45	17.07	--	23.38	--	--	--	--	--	--	--	--	--	--	--	--
7/20/1999	--		40.45	17.47	--	22.98	--	--	--	--	--	--	--	--	--	--	--	--
12/30/1999	--		40.45	17.60	--	22.85	--	--	--	--	--	--	--	--	--	--	--	--
2/29/2000	--		40.45	16.43	--	24.02	--	--	--	--	--	--	--	--	--	--	--	--
4/14/2000	--		40.45	17.09	--	23.36	--	--	--	--	--	--	--	--	--	--	--	--
7/24/2000	--		40.45	17.44	--	23.01	--	--	--	--	--	--	--	--	--	--	--	--
10/30/2000	--		40.45	17.29	--	23.16	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2001	--		40.45	17.49	--	22.96	--	--	--	--	--	--	--	--	--	--	--	--
5/17/2001	--		40.45	17.45	--	23.00	--	--	--	--	--	--	--	--	--	--	--	--
7/2/2001	--		40.45	17.70	--	22.75	--	--	--	--	--	--	--	--	--	--	--	--
11/2/2001	--		40.45	17.82	--	22.63	--	--	--	--	--	--	--	--	--	--	--	--
8/6/2002	--		40.45	17.62	--	22.83	--	--	--	--	--	--	--	--	--	--	--	--
10/16/2002	--		40.45	17.82	--	22.63	--	--	--	--	--	--	--	--	--	--	--	--
1/13/2003	--		40.45	16.95	--	23.50	--	--	--	--	--	--	--	--	--	--	--	--
5/2/2003	--		40.45	17.26	--	23.19	--	--	--	--	--	--	--	--	--	--	--	--

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Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-3 Cont.																		
7/11/2003	--		40.45	17.44	--	23.01	--	--	--	--	--	--	--	--	--	--	--	--
10/01/2003	--		40.45	17.72	--	22.73	--	--	--	--	--	--	--	--	--	--	--	--
02/11/2004	--		40.45	17.41	--	23.04	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2004	--		40.45	17.60	--	22.85	--	--	--	--	--	--	--	--	--	--	--	--
01/20/2005	--		40.45	16.98	--	23.47	--	--	--	--	--	--	--	--	--	--	--	--
07/19/2005	--		40.45	17.38	--	23.07	--	--	--	--	--	--	--	--	--	--	--	--
01/11/2006	--		40.45	16.80	--	23.65	--	--	--	--	--	--	--	--	--	--	--	--
7/26/2006	--		40.45	17.48	--	22.97	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2007	--		40.45	17.45	--	23.00	--	--	--	--	--	--	--	--	--	--	--	--
7/23/2007	--		40.45	17.63	--	22.82	--	--	--	--	--	--	--	--	--	--	--	--
1/16/2008	--		40.45	17.21	--	23.24	--	--	--	--	--	--	--	--	--	--	--	--
7/17/2008	--		40.45	17.64	--	22.81	--	--	--	--	--	--	--	--	--	--	--	--
1/28/2009	--		40.45	17.60	--	22.85	--	--	--	--	--	--	--	--	--	--	--	--
8/27/2009	--		**40.45**	**18.00**	--	**22.45**	--	--	--	--	--	--	--	--	--	--	--	--
MW-4																		
11/4/1992	--	(j)	39.24	19.18	--	20.06	900	150	4.1	0.8	53	--	--	PACE	--	--	--	--
2/24/1994	--	c, d, j	--	--	--	--	310	95	5.3	2.2	17	1,479	--	PACE	--	--	--	--
2/24/1994	--	d, j	39.24	19.22	--	20.02	240	110	3.8	1.8	11	1,433	--	PACE	--	--	--	--
5/12/1994	--	d, j	39.24	16.62	--	22.62	<50	2.2	1	<0.5	<0.5	862	7.3	PACE	--	--	--	--
5/12/1994	--	c, d, j	--	--	--	--	430	2.6	1.3	<0.5	<0.5	912	--	PACE	--	--	--	--
9/9/1994	--	c, j	--	--	--	--	57	1.7	<0.5	<0.5	0.5	83	--	PACE	--	--	--	--
9/9/1994	--	j	39.24	20.27	--	18.97	240	9.1	1.3	0.6	2.5	397	2.2	PACE	--	--	--	--
11/3/1994	--	c, j	--	--	--	--	110	2.4	<0.5	<0.5	<0.5	642	--	PACE	--	--	--	--
11/3/1994	--	j	39.24	18.46	--	20.78	250	3.1	2.8	1	3.3	319	3.2	PACE	--	--	--	--
3/1/1995	--	c	--	--	--	--	7,600	1,700	25	410	370	--	--	ATI	--	--	--	--
3/1/1995	--		39.24	16.15	--	23.09	8,900	1,800	26	450	400	--	2.0	ATI	--	--	--	--
6/6/1995	--	c	--	--	--	--	3,000	530	27	170	92	--	--	ATI	--	--	--	--
6/6/1995	--	e	39.24	16.28	--	22.96	3,100	530	25	170	85	--	--	ATI	--	--	--	--
9/1/1995	--	f	39.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/29/1995	--		39.24	17.31	--	21.93	<50	1.8	<0.50	<0.50	<1.0	440	3.2	ATI	--	--	--	--

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Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-4 Cont.																		
11/29/1995	--	c	--	--	--	--	<50	1.5	<0.50	<0.50	<1.0	490	--	ATI	--	--	--	--
3/23/1996	--		39.24	15.74	--	23.50	2,700	480	<25	180	176	13,000	7.8	SPL	--	--	--	--
9/5/1996	--		39.24	16.75	--	22.49	1,100	<12	<25	<25	<25	3,200	4.0	SPL	--	--	--	--
3/11/1997	--		39.24	16.10	--	23.14	2,400	46	<10	66	106	3,400	4.0	SPL	--	--	--	--
12/8/1997	--		39.24	15.96	--	23.28	590	11	<1.0	<1.0	<1.0	1,200	4.4	SPL	--	--	--	--
12/8/1997	--	c	--	--	--	--	620	11	<1.0	<1.0	<1.0	1,100	--	SPL	--	--	--	--
7/8/1998	--	c	--	--	--	--	1,600	<0.5	<1.0	<1.0	<1.0	1,100	--	SPL	--	--	--	--
7/8/1998	--		39.24	16.28	--	22.96	1,700	<0.5	<1.0	<1.0	<1.0	1,200	3.9	SPL	--	--	--	--
12/7/1998	--	h	39.24	16.47	--	22.77	530	<2.5	<5.0	<5.0	<5.0	680/910	--	SPL	--	--	--	--
1/19/1999	--		39.24	16.40	--	22.84	570	<1.0	<1.0	<1.0	<1.0	660	--	SPL	--	--	--	--
4/23/1999	--	h	39.24	16.17	--	23.07	<50	<1.0	<1.0	1.8	1.3	1100/810	--	SPL	--	--	--	--
7/20/1999	--		39.24	16.39	--	22.85	<50	<1.0	<1.0	<1.0	<1.0	590/480	--	SPL	--	--	--	--
12/30/1999	--		39.24	16.56	--	22.68	<50	<0.5	<0.5	<0.5	<0.5	280/410	--	PACE	--	--	--	--
2/29/2000	--	i	39.24	15.69	--	23.55	78	2	<0.5	0.77	2.8	870/1200	--	PACE	--	--	--	--
4/14/2000	--		39.24	16.21	--	23.03	300	<0.5	<0.5	<0.5	<0.5	800	--	PACE	--	--	--	--
7/24/2000	--		39.24	16.50	--	22.74	130	<0.5	<0.5	<0.5	<0.5	390/270	--	PACE	--	--	--	--
10/30/2000	--		39.24	16.35	--	22.89	73	<0.5	<0.5	<0.5	<0.5	160/210	--	PACE	--	--	--	--
1/11/2001	--		39.24	16.46	--	22.78	120	<0.5	<0.5	<0.5	<0.5	170/176	--	PACE	--	--	--	--
5/17/2001	--		39.24	16.40	--	22.84	99	<0.5	<0.5	<0.5	<1.5	91/119	--	PACE	--	--	--	--
7/2/2001	--		39.24	16.75	--	22.49	63	<0.5	<0.5	<0.5	<1.5	66/87.6	--	PACE	--	--	--	--
11/2/2001	--		39.24	16.80	--	22.44	56	<0.5	<0.5	<0.5	<1.5	49.6	--	PACE	--	--	--	--
8/6/2002	--		39.24	16.60	--	22.64	<50	<0.5	<0.5	<0.5	<1.5	14.4	--	PACE	--	--	--	--
10/16/2002	--		39.24	16.86	--	22.38	<50	<0.50	<0.50	<0.50	<0.50	16	--	SEQ	--	--	--	--
1/13/2003	--		39.24	16.13	--	23.11	<50	<0.50	<0.50	<0.50	<0.50	21	--	SEQ	--	--	--	--
5/2/2003	--		39.24	16.38	--	22.86	<50	<0.50	<0.50	<0.50	<0.50	7.2	--	SEQ	--	--	--	--
7/11/2003	--		39.24	16.50	--	22.74	<50	<0.50	<0.50	<0.50	<0.50	2.0/2.0	--	SEQ	--	--	--	--
10/01/2003	--		39.24	16.75	--	22.49	<50	<0.50	<0.50	<0.50	<0.50	3.1	--	SEQM	--	--	--	--
02/11/2004	P		39.24	16.35	--	22.89	<50	<0.50	<0.50	<0.50	<0.50	3.3	--	SEQM	6.9	--	--	--
07/21/2004	P		39.24	16.68	--	22.56	<50	<0.50	<0.50	<0.50	<0.50	0.61	--	SEQM	6.9	--	--	--
01/20/2005	P		39.24	16.08	--	23.16	<50	<0.50	<0.50	<0.50	<0.50	1.4	--	SEQM	6.5	--	--	--
07/19/2005	P		39.24	16.50	--	22.74	<50	<0.50	<0.50	<0.50	<0.50	0.57	--	SEQM	7.4	--	--	--

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							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-4 Cont.																		
01/11/2006	P		39.24	15.98	--	23.26	<50	<0.50	<0.50	<0.50	<0.50	0.58	--	SEQM	6.9	--	--	--
7/26/2006	P		39.24	16.46	--	22.78	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	TAMC	6.93	--	--	--
1/11/2007	P		39.24	16.54	--	22.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.43	TAMC	6.99	--	--	--
7/23/2007	P		39.24	16.68	--	22.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.27	TAMC	7.20	--	--	--
1/16/2008	P		39.24	16.32	--	22.92	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.38	TAMC	7.18	--	--	--
7/17/2008	P		39.24	16.72	--	22.52	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.47	CEL	7.54	--	--	--
1/28/2009	P		39.24	16.64	--	22.60	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.51	CEL	6.85	--	--	--
8/27/2009	**P**		**39.24**	**17.06**	**--**	**22.18**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.39**	**CEL**	**7.46**	**--**	**--**	**--**
MW-5																		
6/6/1995	--	(e)	39.07	16.16	--	22.91	1,100	42	<2.5	15	4	--	--	ATI	--	--	--	--
9/1/1995	--		39.07	16.63	--	22.44	1,600	55	<2.5	15	8	1,200	7.4	ATI	--	--	--	--
9/1/1995	--	c	--	--	--	--	1,200	64	<2.5	14	3.1	--	--	ATI	--	--	--	--
11/29/1995	--		39.07	17.19	--	21.88	2,300	140	4	36	11	1,500	4.1	ATI	--	--	--	--
3/23/1996	--		39.07	15.54	--	23.53	90	2.8	<1	<1	<1	1,500	7.5	SPL	--	--	--	--
9/5/1996	--	c	--	--	--	--	2,000	4.9	<1.0	<1.0	<1.0	2,900	--	SPL	--	--	--	--
9/5/1996	--		39.07	16.72	--	22.35	2,300	5.1	<1.0	<1.0	<1.0	3,300	3.2	SPL	--	--	--	--
3/11/1997	--		39.07	16.12	--	22.95	470	<5.0	<5.0	<5.0	<5.0	580	3.0	SPL	--	--	--	--
3/11/1997	--	c	--	--	--	--	460	<5.0	<5.0	<5.0	<5.0	540	--	SPL	--	--	--	--
12/8/1997	--		39.07	15.85	--	23.22	370	<0.5	<1.0	<1.0	<1.0	840	3.0	SPL	--	--	--	--
7/8/1998	--		39.07	16.11	--	22.96	430	<0.5	<1.0	<1.0	<1.0	330	2.5	SPL	--	--	--	--
12/7/1998	--	h	39.07	16.27	--	22.80	220	<0.5	<1.0	<1.0	<1.0	290/410	--	SPL	--	--	--	--
1/19/1999	--	h	39.07	16.31	--	22.76	490	<1.0	<1.0	<1.0	<1.0	490/440	--	SPL	--	--	--	--
4/23/1999	--	h	39.07	16.00	--	23.07	<50	<1.0	<1.0	<1.0	<1.0	310/210	--	SPL	--	--	--	--
7/20/1999	--		39.07	16.36	--	22.71	<50	<1.0	<1.0	<1.0	<1.0	490/470	--	SPL	--	--	--	--
12/30/1999	--		39.07	16.53	--	22.54	<50	<0.5	<0.5	<0.5	<0.5	470/550	--	PACE	--	--	--	--
2/29/2000	--		39.07	15.45	--	23.62	<50	<0.5	<0.5	<0.5	<0.5	190/280	--	PACE	--	--	--	--
4/14/2000	--		39.07	16.10	--	22.97	81	<0.5	<0.5	<0.5	<0.5	200/240	--	PACE	--	--	--	--
7/24/2000	--		39.07	16.50	--	22.57	250	<0.5	<0.5	<0.5	<0.5	630/570	--	PACE	--	--	--	--
10/30/2000	--		39.07	16.23	--	22.84	140	<0.5	0.7	<0.5	1.1	260/360	--	PACE	--	--	--	--
1/11/2001	--		39.07	16.41	--	22.66	420	<0.5	<0.5	<0.5	<0.5	540/585	--	PACE	--	--	--	--

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							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-5 Cont.																		
5/17/2001	--		39.07	16.45	--	22.62	360	<0.5	<0.5	<0.5	<1.5	320/419	--	PACE	--	--	--	--
7/2/2001	--		39.07	16.65	--	22.42	210	<0.5	<0.5	<0.5	<1.5	290/264	--	PACE	--	--	--	--
11/2/2001	--		39.07	16.73	--	22.34	130	<0.5	<0.5	<0.5	<1.5	134	--	PACE	--	--	--	--
8/6/2002	--		39.07	16.57	--	22.50	<50	<0.5	<0.5	<0.5	<1.5	57.6	--	PACE	--	--	--	--
10/16/2002	--		39.07	16.73	--	22.34	<50	<0.50	<0.50	<0.50	<0.50	52	--	SEQ	--	--	--	--
1/13/2003	--		39.07	16.01	--	23.06	58	1.2	<0.50	<0.50	1.4	30	--	SEQ	--	--	--	--
5/2/2003	--		39.07	16.27	--	22.80	<50	<0.50	<0.50	<0.50	<0.50	17	--	SEQ	--	--	--	--
7/11/2003	--		39.07	16.42	--	22.65	58	<0.50	<0.50	<0.50	<0.50	19/19	--	SEQ	--	--	--	--
10/01/2003	--		39.07	16.65	--	22.42	71	<0.50	<0.50	<0.50	<0.50	17	--	SEQM	--	--	--	--
02/11/2004	P	m	39.22	16.39	--	22.83	130	<0.50	<0.50	<0.50	<0.50	35	--	SEQM	6.8	--	--	--
07/21/2004	NP		39.22	16.73	--	22.49	<50	<0.50	<0.50	<0.50	<0.50	8.3	--	SEQM	6.9	--	--	--
01/20/2005	P		39.22	16.13	--	23.09	<50	<0.50	<0.50	<0.50	<0.50	2.3	--	SEQM	6.5	--	--	--
07/19/2005	P		39.22	16.69	--	22.53	<50	<0.50	<0.50	<0.50	<0.50	0.76	--	SEQM	7.2	--	--	--
01/11/2006	P		39.22	16.21	--	23.01	<50	<0.50	<0.50	<0.50	<0.50	0.61	--	SEQM	6.9	--	--	--
7/26/2006	P		39.22	16.57	--	22.65	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	TAMC	6.81	--	--	--
1/11/2007	P		39.22	16.60	--	22.62	<50	<0.50	<0.50	<0.50	<0.50	0.62	2.08	TAMC	6.80	--	--	--
7/23/2007	P		39.22	16.75	--	22.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.43	TAMC	7.17	--	--	--
1/16/2008	P		39.22	16.31	--	22.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.91	TAMC	7.11	--	--	--
7/17/2008	P		39.22	16.78	--	22.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.89	CEL	7.42	--	--	--
1/28/2009	P		39.22	16.72	--	22.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.91	CEL	6.79	--	--	--
8/27/2009	**P**		**39.22**	**17.15**	**--**	**22.07**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.83**	**CEL**	**7.51**	**--**	**--**	**--**
MW-6																		
3/1/1995	--		38.46	15.66	--	22.80	270	11	<0.50	<0.50	<1.0	--	1.6	ATI	--	--	--	--
6/6/1995	--	e	38.46	15.82	--	22.64	220	2.3	<0.50	<0.50	<1.0	--	--	ATI	--	--	--	--
9/1/1995	--		38.46	16.25	--	22.21	780	<2.5	<2.5	<2.5	<5.0	2,800	7.5	ATI	--	--	--	--
11/29/1995	--		38.46	16.80	--	21.66	<50	<0.50	<0.50	<0.50	<1.0	1,100	3.9	ATI	--	--	--	--
3/23/1996	--		38.46	15.27	--	23.19	50	<0.5	<1	<1	<1	910	8.0	SPL	--	--	--	--
9/5/1996	--		38.46	16.30	--	22.16	4,400	<0.5	<1.0	<1.0	<1.0	7,400	3.0	SPL	--	--	--	--
3/11/1997	--		38.46	15.75	--	22.71	1,100	<5.0	<5.0	<5.0	<5.0	2,000	3.1	SPL	--	--	--	--
12/8/1997	--		38.46	15.51	--	22.95	150	<0.5	<1.0	<1.0	<1.0	140	3.4	SPL	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-6 Cont.																		
7/8/1998	--		38.46	15.78	--	22.68	370	<0.5	<1.0	<1.0	<1.0	250	3.6	SPL	--	--	--	--
12/7/1998	--	h	38.46	15.95	--	22.51	440	<1.0	<1.0	<1.0	<1.0	630/820	--	--	--	--	--	--
1/19/1999	--	h	38.46	15.97	--	22.49	950	<1.0	<1.0	<1.0	<1.0	950/810	--	SPL	--	--	--	--
4/23/1999	--	h	38.46	15.74	--	22.72	<50	<1.0	<1.0	<1.0	<1.0	310/220	--	SPL	--	--	--	--
7/20/1999	--		38.46	16.12	--	22.34	<50	<1.0	<1.0	<1.0	<1.0	1400/1300	--	SPL	--	--	--	--
12/30/1999	--		38.46	16.16	--	22.30	<50	<0.5	<0.5	<0.5	<0.5	300/360	--	PACE	--	--	--	--
2/29/2000	--		38.46	15.08	--	23.38	<50	<0.5	<0.5	<0.5	<0.5	240/340	--	PACE	--	--	--	--
4/14/2000	--		38.46	15.82	--	22.64	90	<0.5	<0.5	<0.5	<0.5	200/220	--	PACE	--	--	--	--
7/24/2000	--		38.46	16.03	--	22.43	240	<0.5	<0.5	<0.5	<0.5	600/540	--	PACE	--	--	--	--
10/30/2000	--		38.46	15.83	--	22.63	120	<0.5	<0.5	<0.5	<0.5	260/380	--	PACE	--	--	--	--
1/11/2001	--		38.46	16.00	--	22.46	<50	<0.5	<0.5	<0.5	<0.5	2.4/2.69	--	PACE	--	--	--	--
5/17/2001	--		38.46	16.05	--	22.41	140	<0.5	<0.5	<0.5	<1.5	130/169	--	PACE	--	--	--	--
7/2/2001	--		38.46	16.27	--	22.19	70	<0.5	<0.5	<0.5	<1.5	80/91.4	--	PACE	--	--	--	--
11/2/2001	--		38.46	16.31	--	22.15	<50	<0.5	<0.5	<0.5	<1.5	32.3	--	PACE	--	--	--	--
8/6/2002	--		38.46	16.14	--	22.32	<50	<0.5	<0.5	<0.5	<1.5	6.73	--	PACE	--	--	--	--
10/16/2002	--		38.46	16.38	--	22.08	<50	<0.50	<0.50	<0.50	<0.50	<2.50	--	SEQ	--	--	--	--
1/13/2003	--		38.46	15.66	--	22.80	<50	3.6	1.2	1.4	4.8	3.9	--	SEQ	--	--	--	--
5/2/2003	--		38.46	15.89	--	22.57	<50	<0.50	<0.50	<0.50	<0.50	12	--	SEQ	--	--	--	--
7/11/2003	--		38.46	16.03	--	22.43	<50	<0.50	<0.50	<0.50	<0.50	17/17	--	SEQ	--	--	--	--
10/01/2003	--		38.46	15.90	--	22.56	<50	<0.50	<0.50	<0.50	<0.50	3.5	--	SEQM	--	--	--	--
02/11/2004	P		38.46	15.90	--	22.56	<50	<0.50	<0.50	<0.50	<0.50	2.0	--	SEQM	6.9	--	--	--
07/21/2004	P		38.46	16.18	--	22.28	<50	<0.50	<0.50	<0.50	<0.50	3.0	--	SEQM	6.5	--	--	--
01/20/2005	P		38.46	15.67	--	22.79	<50	<0.50	<0.50	<0.50	<0.50	2.4	--	SEQM	6.6	--	--	--
07/19/2005	P		38.46	16.04	--	22.42	<50	<0.50	<0.50	<0.50	<0.50	0.61	--	SEQM	7.4	--	--	--
01/11/2006	P		38.46	15.43	--	23.03	<50	<0.50	<0.50	<0.50	<0.50	1.3	--	SEQM	7.0	--	--	--
7/26/2006	P	k	38.46	16.40	--	22.06	<50	<0.50	<0.50	<0.50	<0.50	0.50	--	TAMC	7.05	--	--	--
1/11/2007	P		38.46	16.06	--	22.40	<50	<0.50	<0.50	<0.50	<0.50	0.91	2.75	TAMC	6.91	--	--	--
7/23/2007	P		38.46	16.20	--	22.26	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.52	TAMC	7.32	--	--	--
1/16/2008	P		38.46	15.81	--	22.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.79	TAMC	7.11	--	--	--
7/17/2008	P		38.46	16.22	--	22.24	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.59	CEL	7.11	--	--	--
1/28/2009	P		38.46	16.50	--	21.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.55	CEL	6.48	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-6 Cont.																		
8/27/2009	**P**		**38.46**	**16.55**	**--**	**21.91**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.49**	**CEL**	**7.62**	**--**	**--**	**--**
MW-7																		
3/1/1995	--		39.50	16.21	--	23.29	1,400	14	<1.0	14	27	--	1.8	ATI	--	--	--	--
6/6/1995	--	e	39.50	16.34	--	23.16	540	5.5	<0.50	15	1.1	--	--	ATI	--	--	--	--
9/1/1995	--		39.50	16.74	--	22.76	190	2.8	<0.50	5	<1.0	10	7.5	ATI	--	--	--	--
11/29/1995	--		39.50	17.33	--	22.17	230	31	<0.50	3.8	1.9	<5.0	4.6	ATI	--	--	--	--
3/23/1996	--		39.50	15.86	--	23.64	<50	5	<1	<1	<1	330	7.2	SPL	--	--	--	--
3/23/1996	--	c	--	--	--	--	60	7.6	<1	<1	<1	360	--	SPL	--	--	--	--
9/5/1996	--		39.50	16.80	--	22.70	200	<0.5	<1.0	<1.0	<1.0	430	3.1	SPL	--	--	--	--
3/11/1997	--		39.50	18.32	--	21.18	120	<0.5	<1.0	<1.0	<1.0	140	4.7	SPL	--	--	--	--
12/8/1997	--		39.50	16.02	--	23.48	240	0.8	<1.0	<1.0	<1.0	200	5.2	SPL	--	--	--	--
7/8/1998	--		39.50	16.32	--	23.18	270	<0.5	<1.0	<1.0	<1.0	170	4.8	SPL	--	--	--	--
12/7/1998	--		39.50	16.43	--	23.07	100	<0.5	<1.0	<1.0	<1.0	120	--	SPL	--	--	--	--
1/19/1999	--		39.50	16.41	--	23.09	80	<1.0	<1.0	<1.0	<1.0	80	--	SPL	--	--	--	--
4/23/1999	--		39.50	16.21	--	23.29	<50	<1.0	<1.0	<1.0	<1.0	20	--	SPL	--	--	--	--
7/20/1999	--		39.50	16.54	--	22.96	<50	<1.0	<1.0	<1.0	<1.0	24	--	SPL	--	--	--	--
12/30/1999	--		39.50	16.65	--	22.85	<50	<0.5	<0.5	<0.5	<0.5	12	--	PACE	--	--	--	--
2/29/2000	--		39.50	15.71	--	23.79	<50	<0.5	<0.5	<0.5	<0.5	7	--	PACE	--	--	--	--
4/14/2000	--		39.50	16.25	--	23.25	<50	<0.5	<0.5	<0.5	<0.5	4	--	PACE	--	--	--	--
7/24/2000	--		39.50	16.63	--	22.87	<50	1.1	0.5	<0.5	<0.5	3.1	--	PACE	--	--	--	--
10/30/2000	--		39.50	16.35	--	23.15	<50	<0.5	<0.5	<0.5	1.1	<0.5	--	PACE	--	--	--	--
1/11/2001	--		39.50	16.52	--	22.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	--	--	--
5/17/2001	--		39.50	16.58	--	22.92	<50	<0.5	<0.5	<0.5	<1.5	<0.5	--	PACE	--	--	--	--
7/2/2001	--		39.50	16.75	--	22.75	<50	<0.5	<0.5	<0.5	<1.5	0.581	--	PACE	--	--	--	--
11/2/2001	--		39.50	16.89	--	22.61	--	--	--	--	--	--	--	PACE	--	--	--	--
8/6/2002	--		39.50	16.65	--	22.85	--	--	--	--	--	--	--	PACE	--	--	--	--
10/16/2002	--		39.50	16.86	--	22.64	--	--	--	--	--	--	--	--	--	--	--	--
1/13/2003	--		39.50	16.21	--	23.29	--	--	--	--	--	--	--	--	--	--	--	--
5/2/2003	--		39.50	16.37	--	23.13	--	--	--	--	--	--	--	--	--	--	--	--
7/11/2003	--		39.50	16.55	--	22.95	--	--	--	--	--	--	--	--	--	--	--	--

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

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/ TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-7 Cont.																		
10/01/2003	--		39.50	16.82	--	22.68	--	--	--	--	--	--	--	--	--	--	--	--
02/11/2004	--		39.50	16.40	--	23.10	--	--	--	--	--	--	--	--	--	--	--	--
07/21/2004	--		39.50	16.70	--	22.80	--	--	--	--	--	--	--	--	--	--	--	--
01/20/2005	--		39.50	16.20	--	23.30	--	--	--	--	--	--	--	--	--	--	--	--
07/19/2005	--		39.50	16.47	--	23.03	--	--	--	--	--	--	--	--	--	--	--	--
01/11/2006	--		39.50	16.11	--	23.39	--	--	--	--	--	--	--	--	--	--	--	--
7/26/2006	--		39.50	16.38	--	23.12	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2007	--		39.50	16.55	--	22.95	--	--	--	--	--	--	--	--	--	--	--	--
7/23/2007	--		39.50	16.71	--	22.79	--	--	--	--	--	--	--	--	--	--	--	--
1/16/2008	--		39.50	16.40	--	23.10	--	--	--	--	--	--	--	--	--	--	--	--
7/17/2008	--		39.50	16.75	--	22.75	--	--	--	--	--	--	--	--	--	--	--	--
1/28/2009	--		39.50	16.68	--	22.82	--	--	--	--	--	--	--	--	--	--	--	--
8/27/2009	--		**39.50**	**17.08**	--	**22.42**	--	--	--	--	--	--	--	--	--	--	--	--
QC-2																		
11/4/1992	--	g, j	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
2/24/1994	--	g, j	--	--	--	--	--	--	--	--	--	<5.0	--	PACE	--	--	--	--
5/12/1994	--	g, j	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	--	--	--
9/9/1994	--	g, j	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	--	--	--
11/3/1994	--	g, j	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	--	--	--
3/1/1995	--	g	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.0	--	--	PACE	--	--	--	--
6/6/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	--	--	--
9/1/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	--	--
11/29/1995	--	g	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	--	--
3/23/1996	--	g	--	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	--	--	--

ABBREVIATIONS AND SYMBOLS:
ft bgs = Feet below ground surface
ft MSL = Feet above mean sea level
DRO = Diesel range organics
GRO = Gasoline range organics, range C4-C12
TPH-g = Total petroleum hydrocarbons as gasoline
TPH-d = Total petroleum hydrocarbons as diesel
GWE = Groundwater elevation in ft MSL.
MtBE = Methyl tert-butyl ether, historical data expressed as EPA Methods 8260/8020
HVOC = Halogenated volatile organic compounds
TOG = Total oil and grease
DO = Dissolved oxygen
g/L = Micrograms per liter
mg/L = Milligrams per liter
< = Not detected above reported detection limit
--- = Not measured/analyzed/applicable
PACE = Pace, Inc.
ATI = Analytical Technologies, Inc.
SPL = Southern Petroleum Laboratoriy
SEQ = Sequoia Analytical Laboratory
SEQM = Sequoia Analytical Morgan Hill Laboratory
TAMC = TestAmerica
CEL = Calscience Environmental Laboratories, Inc.
TOC = Top of casing in ft MSL
DTW = Depth to water in ft bgs
P = Well purged prior to sampling
NP = Well not purged prior to sampling

FOOTNOTES:
(c) Blind duplicate.
(d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-060-07-001.
(e) MTBE peak present. See documentation in Appendix C of Alisto report 10-060-07-001.
(f) Well inaccessible.
(g) Travel blank.
(h) MTBE by 8020/8260.
(i) Gasoline does not include MTBE.
(j) A copy of the documentation for this data is included in Blaine Tech Services report 010517-C-4. The MTBE data for the October 22 and 23, 1992 and November 4, 1992 sampling events have been destroyed.
(k) Sample preserved improperly.
(m) TOC raised by +0.15 ft during well repair on January 9, 2004.

NOTES:
During the second quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP. The data within this table collected prior to June 2002 has not been verified by URS.

TOC elevations surveyed relative to an established benchmark with an elevation of 39.95 ft MSL.

Beginning with the third quarter 2003 sampling event (7/11/03), groundwater samples were analyzed by EPA method 8260B for TPH-g, benzene, toluene, ethylbenzene, xylenes, and fuel oxygenates.

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.

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 #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
10/01/2003	--	--	--	--	--	--	--	--	
02/11/2004	--	--	--	--	--	--	--	--	
07/21/2004	--	--	--	--	--	--	--	--	
01/20/2005	--	--	--	--	--	--	--	--	
07/19/2005	--	--	--	--	--	--	--	--	
01/11/2006	--	--	--	--	--	--	--	--	
7/26/2006	--	--	--	--	--	--	--	--	
MW-2									
10/01/2003	--	--	--	--	--	--	--	--	
02/11/2004	--	--	--	--	--	--	--	--	
07/21/2004	--	--	--	--	--	--	--	--	
01/20/2005	--	--	--	--	--	--	--	--	
07/19/2005	--	--	--	--	--	--	--	--	
01/11/2006	--	--	--	--	--	--	--	--	
7/26/2006	--	--	--	--	--	--	--	--	
MW-3									
10/01/2003	--	--	--	--	--	--	--	--	
02/11/2004	--	--	--	--	--	--	--	--	
07/21/2004	--	--	--	--	--	--	--	--	
01/20/2005	--	--	--	--	--	--	--	--	
07/19/2005	--	--	--	--	--	--	--	--	
01/11/2006	--	--	--	--	--	--	--	--	
7/26/2006	--	--	--	--	--	--	--	--	
MW-4									
7/20/1999	--	<500	590/480	<10	<5.0	<5.0	<1.0	<1.0	
12/30/1999	--	--	280/410	<5.0	<5.0	<5.0	<1.0	<5.0	
2/29/2000	--	--	870/1200	<20	<20	<20	<1.0	<20	
4/14/2000	--	--	730/800	<10	<10	<10	<1.0	<10	
7/24/2000	--	<50	390/270	<5.0	<5.0	<5.0	<1.0	<1.0	
10/30/2000	--	<50	160/210	<5.0	<5.0	<5.0	<1.0	<5.0	

Table 2. Summary of Fuel Additives Analytical Data

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
1/11/2001	--	<10	170/176	<1.0	<1.0	<1.0	<1.0	<1.0	
5/17/2001	--	<10	91/119	<1.0	<1.0	<1.0	<1.0	<1.0	
7/2/2001	--	<10	66/87.6	<1.0	<1.0	<1.0	<1.0	<1.0	
7/11/2003	<100	<20	2.0/2.0	<0.50	<0.50	<0.50	--	--	
10/01/2003	<100	<20	3.1	<0.50	<0.50	<0.50	--	--	
02/11/2004	<100	<20	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	
07/21/2004	<100	<20	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	
01/20/2005	<100	<20	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	a
07/19/2005	<100	<20	0.57	<0.50	<0.50	<0.50	<0.50	<0.50	
01/11/2006	<300	<20	0.58	<0.50	<0.50	<0.50	<0.50	<0.50	
7/26/2006	<300	<20	<0.50	<0.50	<0.50	0.71	<0.50	<0.50	
1/11/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
1/16/2008	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/17/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
1/28/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/27/2009	**<300**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-5									
7/20/1999	--	<500	490/470	<10	<10	<10	--	--	
12/30/1999	--	--	470/550	<10	<10	<10	--	--	
2/29/2000	--	--	190/280	<5.0	<5.0	<5.0	<5.0	<5.0	
4/14/2000	--	--	200/240	<5.0	<5.0	<5.0	--	--	
7/24/2000	--	<50	630/570	<5.0	<5.0	<5.0	--	--	
10/30/2000	--	<100	260/360	<10	<10	<10	--	--	
1/11/2001	--	110	540/585	<1.0	<1.0	<1.0	<1.0	<1.0	
5/17/2001	--	31	320/419	<1.0	<1.0	<1.0	--	--	
7/2/2001	--	<10	290/264	<1.0	<1.0	<1.0	--	--	
7/11/2003	<100	<20	19/19	<0.50	<0.50	<0.50	--	--	
10/01/2003	<100	<20	17	<0.50	<0.50	<0.50	--	--	
02/11/2004	<100	<20	35	<0.50	<0.50	<0.50	<0.50	<0.50	
07/21/2004	<100	<20	8.3	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5 Cont.									
01/20/2005	<100	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	a
07/19/2005	<100	<20	0.76	<0.50	<0.50	<0.50	<0.50	<0.50	
01/11/2006	<300	<20	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	
7/26/2006	<300	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
1/11/2007	<300	<20	0.62	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
1/16/2008	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/17/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
1/28/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/27/2009	**<300**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-6									
7/20/1999	--	<500	1400/1300	<10	<10	<10	--	--	
12/30/1999	--	--	300/360	<5.0	<5.0	<5.0	--	--	
2/29/2000	--	--	240/340	<5.0	<5.0	<5.0	<5.0	<5.0	
4/14/2000	--	--	200/220	<5.0	<5.0	<5.0	--	--	
7/24/2000	--	62	600/540	<5.0	<5.0	<5.0	--	--	
10/30/2000	--	<100	260/380	<10	<10	<10	--	--	
1/11/2001	--	<10	2.4/2.69	<1.0	<1.0	<1.0	--	--	
5/17/2001	--	<10	130/169	<1.0	<1.0	<1.0	--	--	
7/2/2001	--	<10	80/91.4	<1.0	<1.0	<1.0	--	--	
7/11/2003	<100	<20	17/17	<0.50	<0.50	<0.50	--	--	
10/01/2003	<100	<20	3.5	<0.50	<0.50	<0.50	--	--	
02/11/2004	<100	<20	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	
07/21/2004	<100	<20	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	
01/20/2005	<100	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	a
07/19/2005	<100	<20	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	
01/11/2006	<300	<20	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
7/26/2006	<300	<20	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
1/11/2007	<300	<20	0.91	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
1/16/2008	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data

Station #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-6 Cont.									
7/17/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
1/28/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/27/2009	**<300**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-7									
10/01/2003	--	--	--	--	--	--	--	--	
02/11/2004	--	--	--	--	--	--	--	--	
07/21/2004	--	--	--	--	--	--	--	--	
01/20/2005	--	--	--	--	--	--	--	--	
07/19/2005	--	--	--	--	--	--	--	--	
01/11/2006	--	--	--	--	--	--	--	--	
7/26/2006	--	--	--	--	--	--	--	--	

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 the laboratory reporting limit
--- = Not analyzed/applicable

FOOTNOTES:
a = Calibration verification was within method limits but outside contract limits for ethanol.
b = Sample preserved improperly.

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 #11107, 18501 Hesperian Blvd., San Lorenzo, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
8/6/2002	Northwest	0.004
10/16/2002	West-Northwest	0.003
1/13/2003	Northwest	0.004
5/2/2003	Northwest	0.004
7/11/2003	West-Northwest	0.004
10/1/2003	West-Northwest	0.004
2/11/2004	West-Northwest	0.003
7/21/2004	West-Northwest	0.004
1/20/2005	West-Northwest	0.004
7/19/2005	West-Northwest	0.005
1/11/2006	West-Northwest	0.006
7/26/2006	West	0.006
1/11/2007	West-Northwest	0.004
7/23/2007	West-Northwest	0.004
1/16/2008	West-Northwest	0.004
7/17/2008	West-Northwest	0.004
1/28/2009	West-Northwest	0.005
8/27/2009	**West**	**0.004**

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 WATE DATA FORMS, FIELD PROCEDURES FOR GROUND-WATER SAMPLING, LABORATORY REPORT AND CHAIN OF CUSTODY DOCUMENTATION)

STRATUS
ENVIRONMENTAL, INC.

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

September 11, 2009

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

Re: Groundwater Sampling Data Package, BP Service Station No. 11107, located at 18501 Hesperian Boulevard, San Lorenzo, California

General Information

Data Submittal Prepared / Reviewed by: Carol Huff / Jay Johnson
Phone Number: (530) 676-6000
On-Site Supplier Representative: Roberto Heimlich and Diego Heimlich
Sampling Date: August 27, 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.

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 Alameda Portfolio

HYDROLOGIC DATA SHEET

AT: 7:30

Gauge Date: 8/27/09 **Project Name:** *18501 Hesperian, San Lorenzo*

Field Technician: ROBERTO **Project Number:** *11107*

TOC = Top of Well Casing Elevation
TOS = Depth to Top of Screen
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

DIA = Well Casing Diameter
ELEV = Groundwater Elevation
DUP = Duplicate

WELL OR LOCATION	TIME	MEASUREMENT						PURGE & SAMPLE	SHEEN CONFIRMATION (w/bailer)	COMMENTS
		TOC	TOS	DTW	DTB	DIA	ELEV			
MW-1	7:42			18.51	30.45	2"				
MW-2	7:47			17.88	24.75	2"				
MW-3	7:52			18.00	24.97	2"				
MW-4	8:01			17.06	25.06	2"		YES		FW
MW-5	8:06			17.15	22.59	2"		YES		FW
MW-6	8:11			16.55	24.80	2"		YES		
MW-7	7:56			17.08	24.30	2"				

FW: Diego Heimlich

Calibration Date

pH/Conductivity/temperature Meter - YSI Model 63 — pH 8/27/09

DO Meter - YSI 55 Series (DO is always measured before purge) — Conductivity 8/27/09

Please refer to groundwater sampling field procedures — DO 8/27/09

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11107 | PURGED BY: CH | WELL I.D.: MW-4

CLIENT NAME: | SAMPLED BY: CH | SAMPLE I.D.:

LOCATION: San Lorenzo - 18501 Hesperian Blvd. | QA SAMPLES: MW-4

DATE PURGED 8/27/09 | START (2400hr) 8:16 | END (2400hr) 8:23

DATE SAMPLED 8/27/09 | SAMPLE TIME (2400hr) 8:26

SAMPLE TYPE: Groundwater x | Surface Water ___ | Treatment Effluent ___ | Other ___

CASING DIAMETER: 2" 4 (0.17) | 3" ___ (0.38) | 4" ___ (0.67) | 5" ___ (1.02) | 6" ___ (1.50) | 8" ___ (2.60) | Other ___ ( )

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 25.06 | CASING VOLUME (gal) = 1.2

DEPTH TO WATER (feet) = 17.06 | CALCULATED PURGE (gal) = 3.8

WATER COLUMN HEIGHT (feet) = 8 | ACTUAL PURGE (gal) = 5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
8/27/09	8:18	2	21.1	551	7.53	cloudy	
"	8:20	4	20.4	615	7.46	clear	
"	8:21	5	20.1	621	7.46	"	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 18.26 | SAMPLE TURBIDITY: clear

80% RECHARGE: x YES ___ NO | ANALYSES: SVO

ODOR: NO | SAMPLE VESSEL / PRESERVATIVE: 6 VOAs / HCl

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ Bladder Pump	___ Bailer (Teflon)	___ Bladder Pump	___ Bailer (Teflon)
x Centrifugal Pump	___ Bailer (PVC)	___ Centrifugal Pump	x Bailer (___ PVC or x disposable)
___ Submersible Pump	___ Bailer (Stainless Steel)	___ Submersible Pump	___ Bailer (Stainless Steel)
___ Peristalic Pump	___ Dedicated ___	___ Peristalic Pump	___ Dedicated ___
Other: ___		Other: ___	
Pump Depth: 24.50			

WELL INTEGRITY: GOOD | LOCK#: MASTER

REMARKS: DO 1.39

SIGNATURE: [signature] | Page ___ of ___

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11107 PURGED BY: RH WELL I.D.: MW-5

CLIENT NAME: SAMPLED BY: RH SAMPLE I.D.:

LOCATION: San Lorenzo - 18501 Hesperian Blvd. QA SAMPLES: MW-5

DATE PURGED 8/27/09 START (2400hr) 8:31 END (2400hr) 8:38

DATE SAMPLED 8/27/09 SAMPLE TIME (2400hr) 8:41

SAMPLE TYPE: Groundwater x Surface Water ___ Treatment Effluent ___ Other ___

CASING DIAMETER: 2" x (0.17) 3" ___ (0.38) 4" ___ (0.67) 5" ___ (1.02) 6" ___ (1.50) 8" ___ (2.60) Other ___ ( )

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 22.59 CASING VOLUME (gal) = 0.9

DEPTH TO WATER (feet) = 17.15 CALCULATED PURGE (gal) = 2.7

WATER COLUMN HEIGHT (feet) = 5.4 ACTUAL PURGE (gal) = 5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
8/27/09	8:33	2	20.5	619	7.47	clear	
"	8:35	4	20.3	624	7.48	"	
"	8:37	5	20.0	626	7.51	"	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 14.01 SAMPLE TURBIDITY: clear

80% RECHARGE: x YES ___ NO ANALYSES: 8260

ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 6 VOAs/HCL

PURGING EQUIPMENT

___ Bladder Pump
x Centrifugal Pump
___ Submersible Pump
___ Peristalic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ___

Other: ___

Pump Depth: 22

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristalic Pump
___ Bailer (Teflon)
x Bailer (___ PVC or x disposable)
___ Bailer (Stainless Steel)
___ Dedicated ___

Other: ___

WELL INTEGRITY: GOOD LOCK#: MASTER

REMARKS: DO 1.83

SIGNATURE: [signature]

Page ___ of ___

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11107 | PURGED BY: RH | WELL I.D.: MW-6

CLIENT NAME: | SAMPLED BY: RH | SAMPLE I.D.:

LOCATION: San Lorenzo - 18501 Hesperian Blvd. | QA SAMPLES: MW-6

DATE PURGED 8/27/09 | START (2400hr) 8:46 | END (2400hr) 9:01

DATE SAMPLED 8/27/09 | SAMPLE TIME (2400hr) 9:04

SAMPLE TYPE: Groundwater x | Surface Water | Treatment Effluent | Other

CASING DIAMETER: 2" ✓ (0.17) | 3" (0.38) | 4" (0.67) | 5" (1.02) | 6" (1.50) | 8" (2.60) | Other ( )

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 24.80 | CASING VOLUME (gal) = 1.4

DEPTH TO WATER (feet) = 16.56 | CALCULATED PURGE (gal) = 4.2

WATER COLUMN HEIGHT (feet) = 8.2 | ACTUAL PURGE (gal) = 6

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
8/27/09	8:48	2	20.5	601	7.59	clear	
↓	8:50	4	20.1	602	7.69	↓	
↓	9:00	6	20.0	603	7.62	↓	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 17.89 | SAMPLE TURBIDITY: clear

80% RECHARGE: ✓ YES ___ NO | ANALYSES: 6260

ODOR: NO | SAMPLE VESSEL / PRESERVATIVE: 6 VOAs / HCl

PURGING EQUIPMENT

___ Bladder Pump
✓ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated

Other:

Pump Depth: 24

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
✓ Bailer (___ PVC or ✓ disposable)
___ Bailer (Stainless Steel)
___ Dedicated

Other:

WELL INTEGRITY: GOOD | LOCK#: MASTER

REMARKS: DO 1.49

SIGNATURE: [signature] | Page ___ of ___

WELLHEAD OBSERVATION FORM

STRATUS ENVIRONMENTAL, INC.

Site Name/Number: 1107 *Date:* 8/27/09 *Technican:* ROBERTO

Well I.D.	Box in Good Condition X = Yes Blank = No	Well lid secure? X=Yes If not call PM prior to departure	Lock Missing? X = Yes (replaced) Blank = No	Water in Wellbox? X = Yes Blank = No	Water Level Relative to Cap? A = Above cap B = Below cap L = Level w/cap	Well Cap? I = Intact M = Missing or Compromised (replaced)	Bolts Missing? # of missing/ Total # *	Bolts Stripped? 2 # of stripped/ Total # 2 *	Bolt Holes Stripped? # of stripped/ Total # *	Cracked or Broken Lid? X = Yes Blank = No *	Cracked or Broken Box? X = Yes Blank = No *	Grout Level more than 1ft below TOC? X = Yes Blank = No *	Additional Comments (such as missing lid, concrete needs replacement, or other - explain)
MW-1	X	X	—	—	—	I	—	—	—	—	—	—	
MW-2	X	—	—	—	—	I	X 3	—	X	—	—	—	
MW-3	X	—	—	—	—	I	X	X	—	—	—	—	
MW-4	X	—	—	—	—	I	X 3	—	—	—	—	—	
MW-5	X	X	—	—	—	I	NA	NA	NA	—	—	—	SEWER TYPE 2/D
MW-6	X	—	—	—	—	I	X 3	—	—	—	—	—	
MW-7	—	—	—	—	—	I	X 3	—	—	—	X	—	EARS ON BOX WHERE BOLTS GO ARE BROKEN, TO FIT NEED TO REPLACE BOX.

* Explain corrective action taken (replaced bolt/tapped bolt hole etc…) or if a safety issue, please call PM

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, grafitti on compound, etc.)

NO. 855672

NON-HAZARDOUS WASTE DATA FORM

1. BES! #

GENERATOR

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 # 11107
18501 HESPERIAN
SAN LORENZO

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) 753-1629

6. Waste Shipping Name and Description	7. Containers No.	7. Containers Type	8. Total Quantity	9. Unit Wt/Vol	10. Profile No.
A. NON-HAZARDOUS WATER	1	TT	16	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/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Roberto Hemlich		8	27	09

TRANSPORTER

13. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Roberto Hemlich		8	27	09
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

FACILITY

14. Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER #1

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program LaMP Chain of Custody Record

BP/ARC Project Name: BP/ARCO 11107 | Req Due Date (mm/dd/yy): 14 Day TAT | Rush TAT: Yes ___ No X

BP/ARC Facility No: 11107 | Lab Work Order Number:

Lab Name:	CalScience	BP/ARC Facility Address:	18501 Hesperian Blvd.	Consultant/Contractor:	Stratus Environmental Inc.
Lab Address:	7440 Lincoln Way, Garden Grove, CA 92841	City, State, ZIP Code:	San Lorenzo, 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.:	T0600101665	Consultant/Contractor PM:	Jay Johnson
Lab Shipping Accnt:		Enfos Proposal No:	000GG-0004	Phone:	530-676-6000 Fax: 530-676-6005
Lab Bottle Order No:		Accounting Mode:	Provision X OOC-BU ___ OOC-RM ___	Email EDD To:	chuff@stratusinc.net
Other Info:		Stage: Operate	Activity: Monitor	Invoice To:	BP/ARC X Contractor ___
BP/ARC EBM:	Paul Supple				
EBM Phone:	925-275-3801				
EBM Email:	paul.supple@bp.com				

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix:	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	Methanol		Requested Analyses: GRO by 8015M	BTEX/5 FO* by 8260B	Ethanol by 8260B	EDB by 8260B	1,2-DCA by 8260B						Report Type & QC Level
	MW-4	8/27/09	8:26		X			6				X			X	X	X	X	X						
	MW-5	↓	8:41		X			6				X			X	X	X	X	X						
	MW-6	↓	9:04		X			6				X			X	X	X	X	X						
	TB-11107- 08270009	↓	6:00		X			2				X													ON HOLD

Standard X

Full Data Package ___

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Comments

*Oxy = MTBE, TAME, ETBE, DIPE, TBA

Sampler's Name:	ROBERTO HEINLICH / Doulos Env.	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation / Date / Time
Sampler's Company:	Stratus Environmental Inc.	[signature] / DOULOS ENV.	8/27/09	13:30	
Shipment Method:	Ship Date:				
Shipment Tracking No:					

Special Instructions: TB Sample ON HOLD! Cc results to 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

Calscience
Environmental
Laboratories, Inc.

September 09, 2009

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

Subject: **Calscience Work Order No.:** **09-08-2301**
Client Reference: **BP 11107**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/28/2009 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,

Calscience Environmental
Laboratories, Inc.
Richard Villafania
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.	Date Received:	08/28/09
3330 Cameron Park Drive, Suite 550	Work Order No:	09-08-2301
Cameron Park, CA 95682-8861	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

Project: BP 11107

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**09-08-2301-1-D**	**08/27/09 08:26**	**Aqueous**	**GC 29**	**09/01/09**	**09/01/09 14:04**	**090901B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	88	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**09-08-2301-2-D**	**08/27/09 08:41**	**Aqueous**	**GC 29**	**09/01/09**	**09/01/09 14:38**	**090901B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	92	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**09-08-2301-3-D**	**08/27/09 09:04**	**Aqueous**	**GC 29**	**09/01/09**	**09/01/09 15:11**	**090901B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	87	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-695-649**	**N/A**	**Aqueous**	**GC 29**	**09/01/09**	**09/01/09 10:44**	**090901B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	95	38-134			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 08/28/09
Work Order No: 09-08-2301
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: BP 11107

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**09-08-2301-1-A**	**08/27/09 08:26**	**Aqueous**	**GC/MS BB**	**09/02/09**	**09/03/09 02:08**	**090902L02**

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	80-128			Dibromofluoromethane	96	80-127		
Toluene-d8	104	80-120			1,4-Bromofluorobenzene	92	68-120		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**09-08-2301-2-A**	**08/27/09 08:41**	**Aqueous**	**GC/MS BB**	**09/02/09**	**09/03/09 01:38**	**090902L02**

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	95	80-128			Dibromofluoromethane	95	80-127		
Toluene-d8	90	80-120			1,4-Bromofluorobenzene	92	68-120		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**09-08-2301-3-A**	**08/27/09 09:04**	**Aqueous**	**GC/MS BB**	**09/02/09**	**09/03/09 02:38**	**090902L02**

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	80-128			Dibromofluoromethane	96	80-127		
Toluene-d8	93	80-120			1,4-Bromofluorobenzene	93	68-120		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.	Date Received:	08/28/09
3330 Cameron Park Drive, Suite 550	Work Order No:	09-08-2301
Cameron Park, CA 95682-8861	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L
Project: BP 11107		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	**099-12-703-1,063**	**N/A**	**Aqueous**	**GC/MS BB**	**09/02/09**	**09/03/09 00:38**	**090902L02**

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	95	80-128			Dibromofluoromethane	95	80-127		
Toluene-d8	91	80-120			1,4-Bromofluorobenzene	92	68-120		

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.		Date Received:	08/28/09
3330 Cameron Park Drive, Suite 550		Work Order No:	09-08-2301
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project BP 11107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4	**Aqueous**	**GC 29**	**09/01/09**	**09/01/09**	**090901S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	82	81	38-134	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.		Date Received:	08/28/09
3330 Cameron Park Drive, Suite 550		Work Order No:	09-08-2301
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project BP 11107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-5	**Aqueous**	**GC/MS BB**	**09/02/09**	**09/03/09**	**090902S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	95	76-124	6	0-20	
Carbon Tetrachloride	100	98	74-134	2	0-20	
Chlorobenzene	105	103	80-120	2	0-20	
1,2-Dibromoethane	97	95	80-120	1	0-20	
1,2-Dichlorobenzene	102	98	80-120	4	0-20	
1,1-Dichloroethene	93	99	73-127	6	0-20	
Ethylbenzene	102	99	78-126	4	0-20	
Toluene	98	81	80-120	19	0-20	
Trichloroethene	100	96	77-120	5	0-20	
Vinyl Chloride	88	80	72-126	10	0-20	
Methyl-t-Butyl Ether (MTBE)	96	97	67-121	0	0-49	
Tert-Butyl Alcohol (TBA)	110	131	36-162	17	0-30	
Diisopropyl Ether (DIPE)	101	97	60-138	4	0-45	
Ethyl-t-Butyl Ether (ETBE)	94	91	69-123	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	90	86	65-120	4	0-20	
Ethanol	140	119	30-180	16	0-72	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.		Date Received:	N/A
3330 Cameron Park Drive, Suite 550		Work Order No:	09-08-2301
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: BP 11107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-649	**Aqueous**	**GC 29**	**09/01/09**	**09/01/09**	**090901B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	90	87	78-120	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.		Date Received:	N/A
3330 Cameron Park Drive, Suite 550		Work Order No:	09-08-2301
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: BP 11107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number	
099-12-703-1,063	**Aqueous**	**GC/MS BB**	**09/02/09**	**09/02/09**	**090902L02**	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	102	115	80-120	73-127	12	0-20	
Carbon Tetrachloride	103	116	74-134	64-144	12	0-20	
Chlorobenzene	105	115	80-120	73-127	9	0-20	
1,2-Dibromoethane	104	110	79-121	72-128	5	0-20	
1,2-Dichlorobenzene	106	113	80-120	73-127	7	0-20	
1,1-Dichloroethene	105	118	78-126	70-134	12	0-28	
Ethylbenzene	104	117	80-120	73-127	11	0-20	
Toluene	92	134	80-120	73-127	38	0-20	LQ,BA
Trichloroethene	104	119	79-127	71-135	14	0-20	
Vinyl Chloride	92	102	72-132	62-142	10	0-20	
Methyl-t-Butyl Ether (MTBE)	106	114	69-123	60-132	7	0-20	
Tert-Butyl Alcohol (TBA)	105	104	63-123	53-133	0	0-20	
Diisopropyl Ether (DIPE)	110	121	59-137	46-150	9	0-37	
Ethyl-t-Butyl Ether (ETBE)	109	111	69-123	60-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	98	106	70-120	62-128	8	0-20	
Ethanol	120	116	28-160	6-182	4	0-57	

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

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-08-2301

Qualifier	Definition
AX	Sample too dilute to quantify surrogate.
BA	Relative percent difference out of control.
BA,AY	BA = Relative percent difference out of control. AY = 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.
BZ	Sample preserved improperly.
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.
DU	Insufficient sample quantity for matrix spike/dup matrix spike.
ET	Sample was extracted past end of recommended max. holding time.
EY	Result exceeds normal dynamic range; reported as a min est.
GR	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,AY	LG= Surrogate recovery below the acceptance limit. AY= Matrix interference suspected.
LH,AY	LH= Surrogate recovery above the acceptance limit. AY= Matrix interference suspected.
LM,AY	LM= MS and/or MSD above acceptance limits. See Blank Spike (LCS). AY= Matrix interference suspected.
LN,AY	LN= MS and/or MSD below acceptance limits. See Blank Spike (LCS). AY= Matrix interference suspected.
LQ	LCS recovery above method control limits.

Work Order Number: 09-08-2301

Qualifier	Definition
LR	LCS recovery below method control limits.
LW	Quantitation of unknown hydrocarbon(s) in sample based on gasoline.
LX	Quantitation of unknown hydrocarbon(s) in sample based on diesel.
MB	Analyte present in the method blank.
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.
SG	A silica gel cleanup procedure was performed.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program LaMP Chain of Custody Record

2301

BP/ARC Project Name: BP/ARCO 11107
BP/ARC Facility No: 11107
Req Due Date (mm/dd/yy): 14 Day TAT
Rush TAT: Yes ___ No X
Lab Work Order Number:

Lab Name: CalScience	BP/ARC Facility Address: 18501 Hesperian Blvd.	Consultant/Contractor: Stratus Environmental Inc.
Lab Address: 7440 Lincoln Way, Garden Grove, CA 92841	City, State, ZIP Code: San Lorenzo, 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.: T0600101665	Consultant/Contractor PM: Jay Johnson
Lab Shipping Accnt:	Enfos Proposal No: 000GG-0004	Phone: 530-676-6000 Fax: 530-676-6005
Lab Bottle Order No:	Accounting Mode: Provision X OOC-BU ___ OOC-RM ___	Email EDD To: chuff@stratusinc.net
Other Info:	Stage: Operate Activity: Monitor	Invoice To: BP/ARC X Contractor ___
BP/ARC EBM: Paul Supple		
EBM Phone: 925-275-3801		
EBM Email: paul.supple@bp.com		

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix:	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	Methanol		Requested Analyses: GRO by 8015M	BTEX/5 FO* by 8260B	Ethanol by 8260B	EDB by 8260B	1,2-DCA by 8260B						Report Type & QC Level
1	MW-4	8/27/09	8:26		X			6				X			X	X	X	X	X						
2	MW-5	"	8:41		X			6				X			X	X	X	X	X						
3	MW-6	"	9:04		X			6				X			X	X	X	X	X						
4	TB-11107- 08270909	"	6:00		X			2				X													ON HOLD

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Standard X
Full Data Package ___

Comments
*Oxy = MTBE, TAME, ETBE, DIPE, TBA

Sampler's Name: ROBERTO HEINLICH / Doulos Env.
Sampler's Company: Stratus Environmental Inc.
Shipment Method: Ship Date:
Shipment Tracking No: 106462753

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
[signature] / DOULOS ENV.	8/27/09	13:30			
			[signature]	8/28/09	1000

Special Instructions: TB Sample ON HOLD! Cc results to 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

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-08-2301

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Stratus DATE: 8/28/09

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

Temperature 3.4 °C - 0.2 °C (CF) = 3.2 °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: JP

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Initial: JP

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Initial: JJ

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ **Checked/Labeled by:** JST

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** YC

Preservative: h: HCL n: HNO3 na$_2$:$Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** JST

ATTACHMENT

FIELD PROCEDURES FOR GROUNDWATER SAMPLING

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® 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

GEOTRACKER UPLOAD CONFIRMATION

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

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

Submittal Type:	**GEO_WELL**
Submittal Title:	**3Q09 GEO_WELL 11107**
Facility Global ID:	**T0600101665**
Facility Name:	**BP #11107**
File Name:	**GEO_WELL.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**9/30/2009 10:01:36 AM**
Confirmation Number:	**1854394078**

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type:	**EDF - Monitoring Report - Semi-Annually**
Submittal Title:	**3Q09 GW Monitoring**
Facility Global ID:	**T0600101665**
Facility Name:	**BP #11107**
File Name:	**09082301.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**9/30/2009 10:03:47 AM**
Confirmation Number:	**5457983732**

VIEW QC REPORT

VIEW DETECTIONS REPORT