



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 1257
San Ramon, CA 94583
Phone: (925) 275-3801
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July 27, 2007

Re: Second Quarter, 2007 Semi-Annual Ground-Water Monitoring Report
Atlantic Richfield Company Station #6113
785 East Stanley Boulevard
Livermore, CA
ACEH Case No. RO0000393

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

Submitted by:

Paul Supple
Environmental Business Manger

RECEIVED

2:15 pm, Jul 31, 2007

Alameda County
Environmental Health



A BP affiliated company

**Second Quarter, 2007 Semi-Annual Ground-Water Monitoring
Report**

Atlantic Richfield Company Station #6113
785 East Stanley Boulevard
Livermore, 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
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July 2007

Project No. 06-02-637

Broadbent & Associates, Inc.
1324 Mangrove Ave., Suite 212
Chico, CA 95926
Voice (530) 566-1400
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July 27, 2007

Project No. 06-02-637

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

Attn.: Mr. Paul Supple

Re: Second Quarter, 2007 Semi-Annual Ground-Water Monitoring Report, Atlantic Richfield Company (a BP affiliated company) Station #6113, 785 East Stanley Boulevard, Livermore, CA. ACEH Case No. RO0000393.

Dear Mr. Supple:

Attached is the *Second Quarter, 2007 Semi-Annual Ground-Water Monitoring Report* for Atlantic Richfield Company Station #6113 (herein referred to as Station #6113) located at 785 East Stanley Boulevard, Livermore, CA (Property). This report presents a summary of Second Quarter, 2007 ground-water monitoring results.

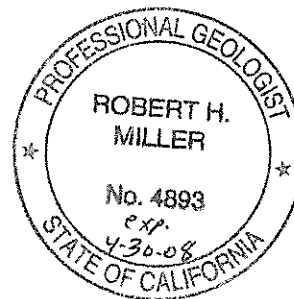
Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Matthew G. Herrick, P.G.
Project Hydrogeologist

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



Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (submitted via ACEH ftp site)
Mr. Paul M. Smith/Ms. Danielle Stefani, Livermore-Pleasanton Fire Department (submitted via GeoTracker)
GeoTracker

STATION # 6113 SEMI-ANNUAL GROUND-WATER MONITORING REPORT

Facility: <u>6113</u> Address: <u>785 East Stanley Boulevard, Livermore, CA</u>
Station <u>6113</u> Environmental Business Manager: <u>Mr. Paul Supple</u>
Consulting Co./Contact Persons: <u>Broadbent & Associates, Inc. (BAI) / Rob Miller & Matt Herrick</u>
Primary Agency/Regulatory ID No.: <u>Alameda County Environmental Health (ACEH) / ACEH Case No. RO0000393</u>
Consultant Project No.: <u>06-02-637</u>
Facility Permits/Permitting Agency.: <u>NA</u>

WORK PERFORMED THIS QUARTER (Second Quarter, 2007):

1. Submit First Quarter, 2007 Status Report. Report completed by BAI.
2. Conducted ground-water monitoring/sampling for Second Quarter, 2007. Work performed by Stratus Environmental, Inc.

WORK PROPOSED FOR NEXT QUARTER (Third Quarter, 2007):

1. Submit Second Quarter, 2007 Report (contained herein).
2. No ground-water monitoring/sampling activities are scheduled to be completed on the Property during the Third Quarter, 2007.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	Groundwater monitoring/sampling
Frequency of ground-water sampling:	Wells MW-4, MW-6, MW-7, MW-11 through MW-13, VW-1: Semi Annually (2Q and 4Q) Wells MW-3, MW-9, and MW-10: Annually (4Q)
Frequency of ground-water monitoring:	Semi-Annually (2Q and 4Q)
Is free product (FP) present on-site:	No
FP recovered this quarter:	NA
Bulk Soil Removed to Date:	288 cubic yards TPH impacted soil
Current remediation techniques:	Air Diffusion
Depth to ground water (below TOC):	20.91 (VW-4) to 24.00 (MW-10)
General ground-water flow direction:	Northeast
Approximate hydraulic gradient:	0.013 feet per foot

DISCUSSION:

Gasoline range organics were detected in three wells sampled during Second Quarter, 2007 at concentrations ranging from 250 micrograms per liter ($\mu\text{g/L}$) in well VW-1 to 14,000 $\mu\text{g/L}$ in well MW-13. Benzene was detected in two wells at 60 $\mu\text{g/L}$ (MW-13) and 1.6 $\mu\text{g/L}$ (VW-1). Ethylbenzene was detected in two wells at 1,800 $\mu\text{g/L}$ (MW-13) and 4.7 $\mu\text{g/L}$ (VW-1). Xylenes were detected wells MW-13 and VW-1 at 640 $\mu\text{g/L}$ and 1.3 $\mu\text{g/L}$, respectively. Methyl tert-butyl ether was detected in wells MW-6, MW-11, MW-13, and VW-1 with concentrations ranging from 3.0 $\mu\text{g/L}$ (VW-1) to 2,200 $\mu\text{g/L}$ (MW-6). Tert-Amyl methyl ether (TAME) was detected in MW-4 at 0.66 $\mu\text{g/L}$. No other analytes were detected in samples collected during the Second Quarter, 2007.

Analytes detected during Second Quarter, 2007 were all within the historic minimum and maximum concentration ranges recorded for each well, with the following exceptions: benzene and MTBE in MW-13 are the lowest concentrations historically detected in the well. TAME was detected in

MW-4 for the first time at a very low concentration. Ground-water elevations measured during the Second Quarter, 2007 were within historic minimum and maximum ranges for each well, with the following exceptions: the ground-water elevation in MW-12, MW-13, VW-1, VW-2, and VW-4 are at the lowest levels historically measured in each well.

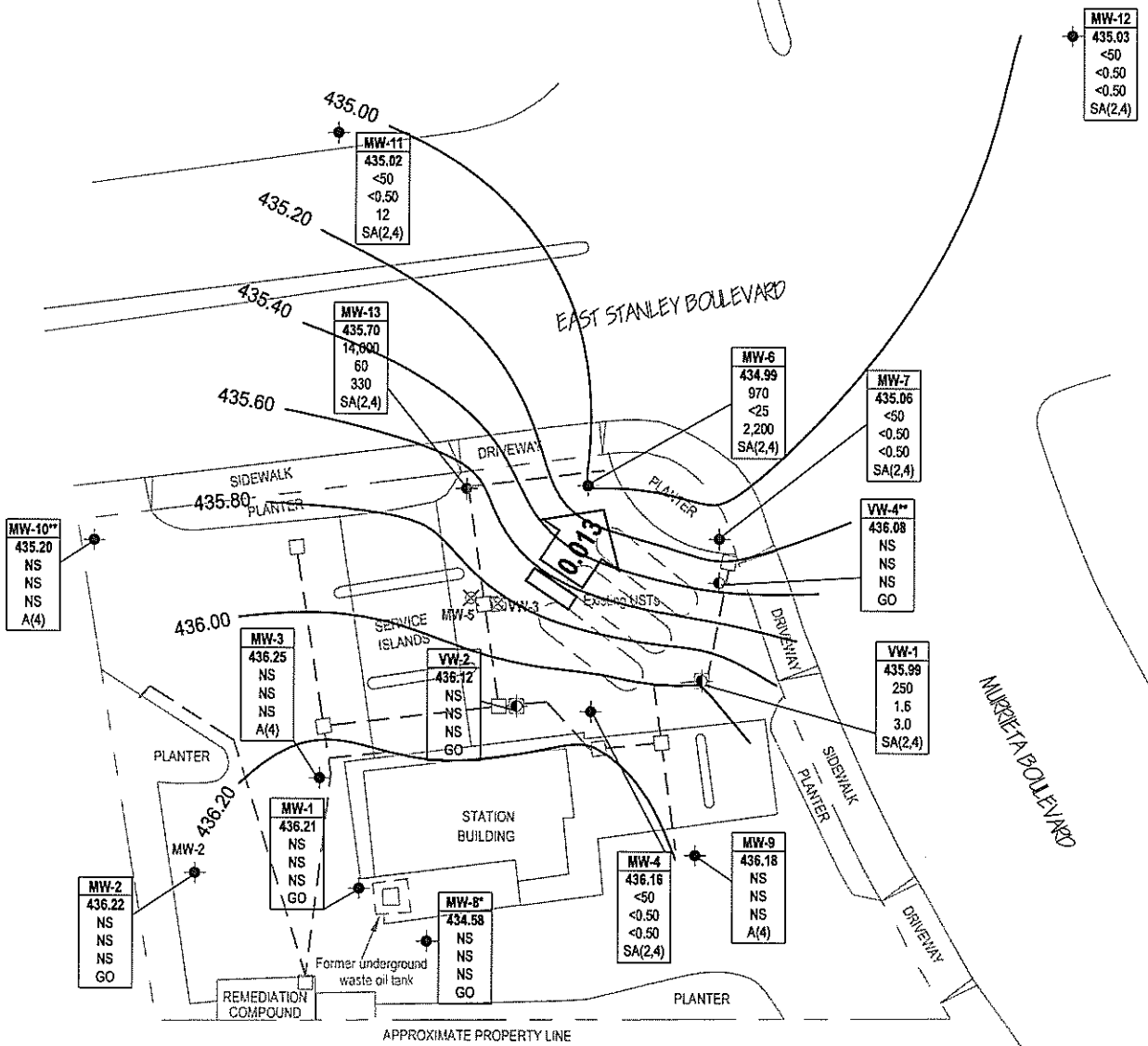
Drawing 1 depicts a ground-water elevation contour and an analytical summary map for the Second Quarter, 2007. Table 1 includes a summary of ground-water monitoring data including relative water elevations and laboratory analyses. Table 2 provides a summary of fuel additives analytical data. Table 3 lists historical ground-water flow direction and gradient data.

CLOSURE:

The findings presented in this report are based upon: observations of Stratus Environmental, Inc. and/or their subcontractors field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by TestAmerica (Morgan Hill, 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 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 #6113, Livermore, CA
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #6113, Livermore CA
- Table 2. Summary of Fuel Additives Analytical Data, Station #6113, Livermore, CA
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #6113, Livermore, CA
- Appendix A. Stratus Environmental, Inc. Groundwater Sampling Data Package (Includes Bill of Lading, Field Data Sheets, Laboratory Report and Chain of Custody Documentation).
- Appendix B. GeoTracker Upload Confirmation.



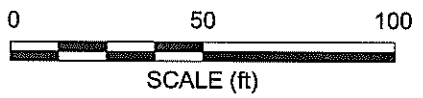
LEGEND

- Monitoring well
- Vapor extraction well
- Abandoned well
- 436.00 Ground-water elevation contour (ft/MSL)

Well	Well Designation
ELEV	Ground-water Elevation
GRO	GRO, Benzene and MTBE concentration (µg/L)
Benzene	
MTBE	
AJSA	Sampling frequency
A(4)	Sampled annually, 4th quarter
SA(2,4)	Semi-annual sampling, 2nd and 4th quarters
GO	Gauge only
NS	Not Sampled
..	Not used in contouring due to screen interval
..	Not used in contouring

- 0.013 Approximate ground-water flow direction and gradient (ft/ft)
- Vault box
- Piping trench

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



BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave, Suite 212, Chico, California 95926
 Project No.: 06-02-637 Date: 7/10/2007

Station #6113
 785 East Stanley Boulevard
 Livermore, California

Ground-Water Elevation Contour
 and Analytical Summary Map
 April 19, 2007

Drawing
1

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-1															
3/23/1995	--	e	457.04	29.0	44.0	14.12	442.92	--	--	--	--	--	--	--	--
5/31/1995	--	e	457.04	29.0	44.0	14.45	442.59	--	--	--	--	--	--	--	--
8/31/1995	--	e	457.04	29.0	44.0	17.12	439.92	--	--	--	--	--	--	--	--
11/28/1995	--		457.04	29.0	44.0	16.34	440.70	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
2/22/1996	--	e	457.04	29.0	44.0	13.23	443.81	--	--	--	--	--	--	--	--
5/23/1996	--	e	457.04	29.0	44.0	14.02	443.02	--	--	--	--	--	--	--	--
8/8/1996	--	e	457.04	29.0	44.0	16.13	440.91	--	--	--	--	--	--	--	--
11/7/1996	--		457.04	29.0	44.0	17.28	439.76	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
3/27/1997	--	e	457.04	29.0	44.0	14.91	442.13	--	--	--	--	--	--	--	--
5/19/1997	--	e	457.04	29.0	44.0	16.47	440.57	--	--	--	--	--	--	--	--
5/18/1998	--	e	457.04	29.0	44.0	14.69	442.35	--	--	--	--	--	--	--	--
11/2/1998	--		457.04	29.0	44.0	25.94	431.10	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
6/4/1999	--	e	457.04	29.0	44.0	17.38	439.66	--	--	--	--	--	--	--	--
11/11/1999	P		457.04	29.0	44.0	18.63	438.41	<50	<0.5	<0.5	<0.5	<1	<3	1.03	--
6/20/2000	--	e	457.04	29.0	44.0	17.09	439.95	--	--	--	--	--	--	3.1	--
8/29/2000	--	e	457.04	29.0	44.0	18.20	438.84	--	--	--	--	--	--	2.66	--
11/29/2000	P		457.04	29.0	44.0	20.30	436.74	<50.0	<0.500	<0.500	<0.500	1.36	<2.50	0.71	--
5/2/2001	--	e	457.04	29.0	44.0	22.39	434.65	--	--	--	--	--	--	--	--
8/15/2001	--	e	457.04	29.0	44.0	24.97	432.07	--	--	--	--	--	--	--	--
10/5/2001	P		457.04	29.0	44.0	25.09	431.95	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.78	--
1/21/2002	--	e	457.04	29.0	44.0	24.58	432.46	--	--	--	--	--	--	--	--
4/26/2002	--	e	457.04	29.0	44.0	24.19	432.85	--	--	--	--	--	--	--	--
10/7/2002	--		457.04	29.0	44.0	20.13	436.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	--
05/01/2003	--	r	457.04	29.0	44.0	17.98	439.06	--	--	--	--	--	--	--	--
10/27/2005	--		459.41	29.0	44.0	18.45	440.96	--	--	--	--	--	--	--	--
04/12/2006	--		459.41	29.0	44.0	15.18	444.23	--	--	--	--	--	--	--	--
10/31/2006	--		459.41	29.0	44.0	19.18	440.23	--	--	--	--	--	--	--	--
4/19/2007	--		459.41	29.0	44.0	23.20	436.21	--	--	--	--	--	--	--	--
MW-2															
3/23/1995	--		457.74	28.0	38.0	14.15	443.59	--	--	--	--	--	--	--	--

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-2 Cont.															
5/31/1995	--	e	457.74	28.0	38.0	14.67	443.07	--	--	--	--	--	--	--	--
8/31/1995	--	e	457.74	28.0	38.0	17.24	440.50	--	--	--	--	--	--	--	--
11/28/1995	--		457.74	28.0	38.0	16.40	441.34	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
2/22/1996	--	e	457.74	28.0	38.0	13.55	444.19	--	--	--	--	--	--	--	--
5/23/1996	--	e	457.74	28.0	38.0	14.29	443.45	--	--	--	--	--	--	--	--
8/8/1996	--	e	457.74	28.0	38.0	16.19	441.55	--	--	--	--	--	--	--	--
11/7/1996	--		457.74	28.0	38.0	17.50	440.24	65	0.6	7.4	2.1	12	5	--	--
3/27/1997	--	e	457.74	28.0	38.0	15.32	442.42	--	--	--	--	--	--	--	--
5/19/1997	--	e	457.74	28.0	38.0	16.62	441.12	--	--	--	--	--	--	--	--
5/18/1998	--	e	457.74	28.0	38.0	15.12	442.62	--	--	--	--	--	--	--	--
11/2/1998	--		457.74	28.0	38.0	26.66	431.08	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
6/4/1999	--	e	457.74	28.0	38.0	17.74	440.00	--	--	--	--	--	--	--	--
11/11/1999	P		457.74	28.0	38.0	18.75	438.99	<50	<0.5	<0.5	<0.5	<1	<3	0.82	--
6/20/2000	--	e	457.74	28.0	38.0	17.21	440.53	--	--	--	--	--	--	2.6	--
8/29/2000	--	e	457.74	28.0	38.0	18.25	439.49	--	--	--	--	--	--	2.65	--
11/29/2000	P		457.74	28.0	38.0	20.69	437.05	<50.0	<0.500	0.581	0.827	4.38	<2.50	0.88	--
5/2/2001	--	e	457.74	28.0	38.0	22.69	435.05	--	--	--	--	--	--	--	--
8/15/2001	--	e	457.74	28.0	38.0	25.15	432.59	--	--	--	--	--	--	--	--
10/5/2001	P		457.74	28.0	38.0	25.22	432.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.8	--
1/21/2002	--	e	457.74	28.0	38.0	24.70	433.04	--	--	--	--	--	--	--	--
4/26/2002	--	e	457.74	28.0	38.0	24.53	433.21	--	--	--	--	--	--	--	--
10/7/2002	--		457.74	28.0	38.0	19.45	438.29	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	--
05/01/2003	--	r	457.74	28.0	38.0	18.18	439.56	--	--	--	--	--	--	--	--
10/27/2005	--	t	460.07	28.0	38.0	--	--	--	--	--	--	--	--	--	--
04/12/2006	--		460.07	28.0	38.0	15.30	444.77	--	--	--	--	--	--	--	--
10/31/2006	--		460.07	28.0	38.0	38.62	421.45	--	--	--	--	--	--	--	--
4/19/2007	--		460.07	28.0	38.0	23.85	436.22	--	--	--	--	--	--	--	--
MW-3															
3/23/1995	--	e	456.97	28.5	38.5	14.13	442.84	--	--	--	--	--	--	--	--
5/31/1995	--	e	456.97	28.5	38.5	14.46	442.51	--	--	--	--	--	--	--	--

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-3 Cont.															
8/31/1995	--	e	456.97	28.5	38.5	17.06	439.91	--	--	--	--	--	--	--	--
11/28/1995	--		456.97	28.5	38.5	16.27	440.70	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
2/22/1996	--	e	456.97	28.5	38.5	13.14	443.83	--	--	--	--	--	--	--	--
5/23/1996	--	e	456.97	28.5	38.5	13.95	443.02	--	--	--	--	--	--	--	--
8/8/1996	--	e	456.97	28.5	38.5	16.03	440.94	--	--	--	--	--	--	--	--
11/7/1996	--		456.97	28.5	38.5	17.26	439.71	<50	<0.5	0.9	<0.5	1.5	<3	--	--
3/27/1997	--	e	456.97	28.5	38.5	14.85	442.12	--	--	--	--	--	--	--	--
5/19/1997	--	e	456.97	28.5	38.5	16.40	440.57	--	--	--	--	--	--	--	--
5/18/1998	--	e	456.97	28.5	38.5	14.66	442.31	--	--	--	--	--	--	--	--
11/2/1998	--		456.97	28.5	38.5	25.85	431.12	<1,000	<10	<10	<10	<10	1,700	--	--
6/4/1999	--	e	456.97	28.5	38.5	17.35	439.62	--	--	--	--	--	--	--	--
11/11/1999	P		456.97	28.5	38.5	18.58	438.39	<50	<0.5	<0.5	<0.5	<1	<3	0.79	--
6/20/2000	--	e	456.97	28.5	38.5	17.03	439.94	--	--	--	--	--	--	2.8	--
8/29/2000	--	e	456.97	28.5	38.5	18.25	438.72	--	--	--	--	--	--	3.39	--
11/29/2000	--		456.97	28.5	38.5	20.27	436.70	<50.0	<0.500	<0.500	1.08	3.34	<2.50	0.67	--
5/2/2001	--	e	456.97	28.5	38.5	22.33	434.64	--	--	--	--	--	--	--	--
8/15/2001	--	e	456.97	28.5	38.5	25.03	431.94	--	--	--	--	--	--	--	--
10/5/2001	P		456.97	28.5	38.5	25.17	431.80	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.79	--
1/21/2002	--	e	456.97	28.5	38.5	24.79	432.18	--	--	--	--	--	--	--	--
4/26/2002	--	e	456.97	28.5	38.5	24.27	432.70	--	--	--	--	--	--	--	--
10/7/2002	--		456.97	28.5	38.5	20.20	436.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	--
05/01/2003	--	c, e	456.97	28.5	38.5	18.27	438.70	--	--	--	--	--	--	--	--
10/03/2003	P	d	456.97	28.5	38.5	20.07	436.90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.2	7.3
04/06/2004	--	e	459.32	28.5	38.5	17.24	442.08	--	--	--	--	--	--	--	--
10/28/2004	P		459.32	28.5	38.5	19.38	439.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	8.1	7.3
04/13/2005	--		459.32	28.5	38.5	16.02	443.30	--	--	--	--	--	--	--	--
10/27/2005	--	t	459.32	28.5	38.5	--	--	--	--	--	--	--	--	--	--
04/12/2006	--		459.32	28.5	38.5	15.12	444.20	--	--	--	--	--	--	--	--
10/31/2006	P		459.32	28.5	38.5	19.14	440.18	400	5.5	<0.50	5.5	9.6	22	--	7.64
4/19/2007	--		459.32	28.5	38.5	23.07	436.25	--	--	--	--	--	--	--	--

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE		
MW-4															
3/23/1995	--		456.55	21.0	27.0	15.39	441.16	210	2.1	0.6	0.8	2.1	--	--	--
5/31/1995	--		456.55	21.0	27.0	15.32	441.23	190	1.6	<0.5	0.7	0.9	--	--	--
8/31/1995	--		456.55	21.0	27.0	17.86	438.69	160	1.2	0.7	<0.5	<2	<3	--	--
11/28/1995	--		456.55	21.0	27.0	17.18	439.37	150	0.7	<0.5	0.7	1.4	<3	--	--
2/22/1996	--		456.55	21.0	27.0	14.80	441.75	100	<0.5	<0.5	<0.6	0.8	<3	--	--
5/23/1996	--		456.55	21.0	27.0	14.43	442.12	86	<0.5	<0.5	<0.5	<0.7	<3	--	--
8/8/1996	--		456.55	21.0	27.0	16.80	439.75	98	<0.5	<0.5	<0.5	1.3	<3	--	--
11/7/1996	--		456.55	21.0	27.0	17.90	438.65	140	<0.5	<0.5	<0.9	1.3	<3	--	--
3/27/1997	--		456.55	21.0	27.0	15.22	441.33	<50	1.1	<0.5	<0.5	1.6	<3	--	--
5/19/1997	--		456.55	21.0	27.0	16.98	439.57	62	<0.5	<0.5	<0.5	0.6	<3	--	--
5/18/1998	--		456.55	21.0	27.0	14.99	441.56	<50	<0.5	<0.5	<0.5	<0.5	64	--	--
11/2/1998	--		456.55	21.0	27.0	25.29	431.26	74	<0.5	<0.5	<0.5	<0.5	96	--	--
6/4/1999	P		456.55	21.0	27.0	17.95	438.60	100	<0.5	<0.5	<0.5	<0.5	38	--	--
11/11/1999	P		456.55	21.0	27.0	19.25	437.30	88	<0.5	<0.5	<0.5	<1	10	0.77	--
6/20/2000	P		456.55	21.0	27.0	17.79	438.76	<50.0	<0.500	<0.500	<0.500	<0.500	82.4	1.3	--
6/20/2000	--	q	456.55	21.0	27.0	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	62.3	--	--
8/29/2000	P		456.55	21.0	27.0	18.90	437.65	56	<0.500	<0.500	<0.500	<0.500	47.9	0.97	--
11/29/2000	P	s	456.55	21.0	27.0	20.50	436.05	<50.0	<0.500	<0.500	<0.500	<0.500	9.88/10.4	0.59	--
5/2/2001	P	q, s	456.55	21.0	27.0	22.65	433.90	<50.0	<0.500	<0.500	<0.500	<0.500	61.1/70.9	0.74	--
5/2/2001	--	s	456.55	21.0	27.0	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	59.4/68.4	--	--
8/15/2001	--	f	456.55	21.0	27.0	--	--	--	--	--	--	--	--	--	--
10/5/2001	--	f	456.55	21.0	27.0	--	--	--	--	--	--	--	--	--	--
1/21/2002	--	f	456.55	21.0	27.0	--	--	--	--	--	--	--	--	--	--
4/26/2002	P		456.55	21.0	27.0	20.15	436.40	110	<0.50	<0.50	<0.50	<0.50	150	0.21	--
10/7/2002	P	a	456.55	21.0	27.0	20.76	435.79	96	<0.50	<0.50	0.54	<0.50	260	1.0	--
05/01/2003	P	c	456.55	21.0	27.0	19.67	436.88	120	1.3	<0.50	<0.50	<0.50	86	1.7	--
10/03/2003	P	d	456.55	21.0	27.0	20.23	436.32	<50	<0.50	<0.50	<0.50	<0.50	22	13.5	6.8
04/06/2004	P		458.88	21.0	27.0	18.13	440.75	96	<0.50	<0.50	<0.50	<0.50	17	1.6	6.8
10/28/2004	P		458.88	21.0	27.0	20.02	438.86	<50	<0.50	<0.50	<0.50	<0.50	4.5	1.2	6.7
04/13/2005	P		458.88	21.0	27.0	16.68	442.20	<50	<0.50	<0.50	<0.50	<0.50	2.8	0.8	6.7
10/27/2005	P		458.88	21.0	27.0	19.05	439.83	400	14	<0.50	11	1.8	22	1.0	6.9

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

Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE		
MW-4 Cont.															
04/12/2006	P		458.88	21.0	27.0	15.47	443.41	100	<0.50	<0.50	<0.50	<0.50	1.9	1.6	7.2
10/31/2006	P		458.88	21.0	27.0	19.67	439.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.63
4/19/2007	NP		458.88	21.0	27.0	22.72	436.16	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.92	7.36
MW-5															
3/23/1995	--		455.84	43.0	63.0	13.97	441.87	68	4.2	3.4	2.3	12	--	--	--
5/31/1995	--	g	455.84	43.0	63.0	--	--	--	--	--	--	--	--	--	--
8/31/1995	--	g	455.84	43.0	63.0	--	--	--	--	--	--	--	--	--	--
11/28/1995	--		455.84	43.0	63.0	16.46	439.38	960	41	24	38	210	<5	--	--
2/22/1996	--	f	455.84	43.0	63.0	13.34	442.50	--	--	--	--	--	--	--	--
5/23/1996	--		455.84	43.0	63.0	14.36	441.48	7,100	440	180	270	1,700	<50	--	--
8/8/1996	--	f	455.84	43.0	63.0	16.38	439.46	--	--	--	--	--	--	--	--
11/7/1996	--		455.84	43.0	63.0	17.26	438.58	5,600	230	86	210	1,100	<80	--	--
3/27/1997	--	f	455.84	43.0	63.0	15.95	439.89	--	--	--	--	--	--	--	--
5/19/1997	--		455.84	43.0	63.0	16.64	439.20	7,600	480	140	400	1,200	<40	--	--
5/18/1998	--		455.84	43.0	63.0	14.75	441.09	990	46	13	45	180	4	--	--
11/2/1998	--		455.84	43.0	63.0	27.83	428.01	14,000	690	140	550	2,200	100	--	--
6/4/1999	P		455.84	43.0	63.0	17.47	438.37	8,300	690	370	90	440	1,400	--	--
11/11/1999	P		455.84	43.0	63.0	18.80	437.04	18,000	900	190	1,100	3,200	72	0.86	--
6/20/2000	P		455.84	43.0	63.0	17.14	438.70	10,200	618	122	832	2,020	<50.0	1.6	--
8/29/2000	P		455.84	43.0	63.0	18.60	437.24	12,300	436	166	711	2,120	517	0.79	--
11/29/2000	P	s	455.84	43.0	63.0	20.57	435.27	26,000	491	149	1,090	3,810	671/<20.0	0.51	--
5/2/2001	--	k	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6															
3/23/1995	--		454.93	48.0	68.0	13.38	441.55	<50	1.5	<0.5	<0.5	0.9	--	--	--
5/31/1995	--		454.93	48.0	68.0	13.96	440.97	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
8/31/1995	--		454.93	48.0	68.0	16.71	438.22	150	9	1.8	4	12	<3	--	--
11/28/1995	--		454.93	48.0	68.0	15.65	439.28	<50	0.6	<0.5	<0.5	0.8	<3	--	--
2/22/1996	--		454.93	48.0	68.0	12.53	442.40	<50	1.9	<0.5	0.8	2.1	<3	--	--
5/23/1996	--		454.93	48.0	68.0	13.24	441.69	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--

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Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-6 Cont.															
8/8/1996	--		454.93	48.0	68.0	16.65	438.28	<50	0.5	<0.5	<0.5	0.5	<3	--	--
11/7/1996	--		454.93	48.0	68.0	16.65	438.28	110	5.3	1.3	3.1	6.6	<3	--	--
3/27/1997	--		454.93	48.0	68.0	14.25	440.68	<50	2.3	<0.5	0.9	3.5	4	--	--
5/19/1997	--		454.93	48.0	68.0	15.87	439.06	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
5/18/1998	--		454.93	48.0	68.0	14.00	440.93	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
11/2/1998	--		454.93	48.0	68.0	24.95	429.98	<50	1.2	<0.5	<0.5	<0.5	3	--	--
6/4/1999	P		454.93	48.0	68.0	16.68	438.25	310	41	3.8	11	19	33	--	--
11/11/1999	P		454.93	48.0	68.0	16.12	438.81	<50	0.5	<0.5	<0.5	<1	<3	0.92	--
6/20/2000	P		454.93	48.0	68.0	16.63	438.30	<50.0	<0.500	<0.500	<0.500	<0.500	17.3	1.9	--
8/29/2000	--	q	454.93	48.0	68.0	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
8/29/2000	P		454.93	48.0	68.0	17.91	437.02	<50.0	<0.500	0.551	<0.500	<0.500	<2.50	1.67	--
11/29/2000	P		454.93	48.0	68.0	20.30	434.63	<50.0	<0.500	<0.500	<0.500	1.03	<2.50	0.79	--
5/2/2001	P	s	454.93	48.0	68.0	22.20	432.73	3,230	1,300	33.6	89.4	136	1,810/2,310	0.95	--
8/15/2001	P	s	454.93	48.0	68.0	27.95	426.98	<50	<0.50	<0.50	<0.50	<0.50	21/25	0.63	--
10/5/2001	P		454.93	48.0	68.0	28.05	426.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.85	--
1/21/2002	P		454.93	48.0	68.0	26.81	428.12	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.91	--
4/26/2002	P		454.93	48.0	68.0	26.27	428.66	<50	<0.50	<0.50	<0.50	<0.50	17	0.75	--
10/7/2002	P	a	454.93	48.0	68.0	20.05	434.88	60	13	1.7	1.7	3.5	8	2.8	--
05/01/2003	P	c	454.93	48.0	68.0	17.62	437.31	<50	5.4	<0.50	0.63	1.3	12	1.6	--
10/03/2003	P	d	454.93	48.0	68.0	19.62	435.31	80	2.6	<2.5	<2.5	<2.5	120	5.1	6.9
04/06/2004	P		457.24	48.0	68.0	16.88	440.36	<2,500	<25	<25	<25	<25	1,700	4.1	7.0
10/28/2004	P		457.24	48.0	68.0	19.20	438.04	3,200	<25	<25	<25	<25	3,100	6.8	6.9
04/13/2005	P		457.24	48.0	68.0	15.15	442.09	<5,000	<50	<50	<50	<50	3,900	3.9	7.0
10/27/2005	P		457.24	48.0	68.0	18.12	439.12	<5,000	<50	<50	<50	<50	2,900	3.15	7.0
04/12/2006	P		457.24	48.0	68.0	15.32	441.92	<5,000	<50	<50	<50	<50	3,400	4.3	7.6
10/31/2006	P	u, v	457.24	48.0	68.0	18.85	438.39	2,700	<25	<25	<25	<25	3,400	--	10.36
4/19/2007	P	v	457.24	48.0	68.0	22.25	434.99	970	<25	<25	<25	<25	2,200	5.54	10.52
MW-7															
3/23/1995	--		454.92	48.0	68.0	13.29	441.63	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
5/31/1995	--		454.92	48.0	68.0	13.72	441.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--

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Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-7 Cont.															
8/31/1995	--		454.92	48.0	68.0	16.53	438.39	<50	<0.5	<0.5	<0.5	1.2	<3	--	--
11/28/1995	--		454.92	48.0	68.0	15.50	439.42	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
2/22/1996	--		454.92	48.0	68.0	12.30	442.62	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
5/23/1996	--		454.92	48.0	68.0	13.02	441.90	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
8/8/1996	--	m	454.92	48.0	68.0	--	--	--	--	--	--	--	--	--	--
11/7/1996	--		454.92	48.0	68.0	16.50	438.42	<50	<0.5	<0.5	<0.5	0.8	<3	--	--
3/27/1997	--		454.92	48.0	68.0	14.22	440.70	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
5/19/1997	--		454.92	48.0	68.0	15.74	439.18	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
5/18/1998	--		454.92	48.0	68.0	13.82	441.10	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
11/2/1998	--		454.92	48.0	68.0	24.80	430.12	<50	<0.5	<0.5	<0.5	<0.5	4	--	--
6/4/1999	P		454.92	48.0	68.0	16.55	438.37	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
11/11/1999	P		454.92	48.0	68.0	18.02	436.90	<50	<0.5	<0.5	<0.5	<1	<3	1.03	--
6/20/2000	P		454.92	48.0	68.0	16.50	438.42	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.3	--
8/29/2000	P		454.92	48.0	68.0	17.80	437.12	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.67	--
11/29/2000	P		454.92	48.0	68.0	19.61	435.31	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.51	--
5/2/2001	P	s	454.92	48.0	68.0	22.05	432.87	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/2.66	0.9	--
8/15/2001	P		454.92	48.0	68.0	27.55	427.37	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.84	--
10/5/2001	P		454.92	48.0	68.0	27.59	427.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.62	--
1/21/2002	P	s	454.92	48.0	68.0	26.50	428.42	<50	<0.50	<0.50	<0.50	<0.50	15/21	0.65	--
4/26/2002	P		454.92	48.0	68.0	26.22	428.70	<50	<0.50	<0.50	<0.50	<0.50	18	0.61	--
10/7/2002	--		454.92	48.0	68.0	20.04	434.88	<50	1.2	<0.50	<0.50	0.77	41	4.8	--
05/01/2003	P	c	454.92	48.0	68.0	17.47	437.45	<50	<0.50	<0.50	<0.50	0.5	43	2.7	--
10/03/2003	P	d	454.92	48.0	68.0	19.55	435.37	<50	<1.0	<1.0	<1.0	<1.0	49	5.7	7.1
04/06/2004	P		457.17	48.0	68.0	16.60	440.57	<50	<0.50	<0.50	<0.50	0.75	0.76	0.7	7.0
10/28/2004	P		457.17	48.0	68.0	19.17	438.00	<50	<0.50	<0.50	<0.50	<0.50	14	6.7	6.9
04/13/2005	P		457.17	48.0	68.0	14.84	442.33	<50	<0.50	<0.50	<0.50	<0.50	1.7	2.3	6.9
10/27/2005	P		457.17	48.0	68.0	17.38	439.79	<50	<0.50	<0.50	<0.50	<0.50	2.3	2.16	7.0
04/12/2006	P		457.17	48.0	68.0	14.84	442.33	<50	<0.50	<0.50	<0.50	<0.50	1.1	3.0	7.2
10/31/2006	P		457.17	48.0	68.0	18.74	438.43	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.55
4/19/2007	P		457.17	48.0	68.0	22.11	435.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.37	7.60

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								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-8															
3/23/1995	--	e	456.97	47.0	67.0	11.55	445.42	--	--	--	--	--	--	--	--
5/31/1995	--	e	456.97	47.0	67.0	12.37	444.60	--	--	--	--	--	--	--	--
8/31/1995	--	e	456.97	47.0	67.0	15.68	441.29	--	--	--	--	--	--	--	--
11/28/1995	--		456.97	47.0	67.0	14.15	442.82	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
2/22/1996	--	e	456.97	47.0	67.0	10.97	446.00	--	--	--	--	--	--	--	--
5/23/1996	--	e	456.97	47.0	67.0	11.90	445.07	--	--	--	--	--	--	--	--
8/8/1996	--	e	456.97	47.0	67.0	13.85	443.12	--	--	--	--	--	--	--	--
11/7/1996	--		456.97	47.0	67.0	15.08	441.89	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
3/27/1997	--	e	456.97	47.0	67.0	12.96	444.01	--	--	--	--	--	--	--	--
5/19/1997	--	e	456.97	47.0	67.0	14.35	442.62	--	--	--	--	--	--	--	--
5/18/1998	--	e	456.97	47.0	67.0	12.97	444.00	--	--	--	--	--	--	--	--
11/2/1998	--		456.97	47.0	67.0	26.01	430.96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
6/4/1999	--	e	456.97	47.0	67.0	15.53	441.44	--	--	--	--	--	--	--	--
11/11/1999	P		456.97	47.0	67.0	16.67	440.30	<50	<0.5	<0.5	<0.5	<1	<3	1.01	--
6/20/2000	--	e	456.97	47.0	67.0	15.29	441.68	--	--	--	--	--	--	2.4	--
8/29/2000	--	e	456.97	47.0	67.0	16.59	440.38	--	--	--	--	--	--	3.37	--
11/29/2000	P		456.97	47.0	67.0	19.80	437.17	<50.0	<0.500	<0.500	<0.500	0.772	<2.50	1.35	--
5/2/2001	--	e	456.97	47.0	67.0	22.12	434.85	--	--	--	--	--	--	--	--
8/15/2001	--	e	456.97	47.0	67.0	27.63	429.34	--	--	--	--	--	--	--	--
10/5/2001	P		456.97	47.0	67.0	27.65	429.32	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.07	--
1/21/2002	--	e	456.97	47.0	67.0	26.73	430.24	--	--	--	--	--	--	--	--
4/26/2002	--	e	456.97	47.0	67.0	26.39	430.58	--	--	--	--	--	--	--	--
10/7/2002	--		456.97	47.0	67.0	18.43	438.54	<50	<0.50	<0.50	<0.50	0.86	<0.50	4.2	--
05/01/2003	--	r	456.97	47.0	67.0	16.47	440.50	--	--	--	--	--	--	--	--
10/27/2005	--		456.97	47.0	67.0	17.14	439.83	--	--	--	--	--	--	--	--
04/12/2006	--		456.97	47.0	67.0	14.08	442.89	--	--	--	--	--	--	--	--
10/31/2006	--		456.97	47.0	67.0	18.12	438.85	--	--	--	--	--	--	--	--
4/19/2007	--		456.97	47.0	67.0	22.39	434.58	--	--	--	--	--	--	--	--
MW-9															
3/23/1995	--	e	456.18	48.0	68.0	13.18	443.00	--	--	--	--	--	--	--	--

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

Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-9 Cont.															
5/31/1995	--	e	456.18	48.0	68.0	12.66	443.52	--	--	--	--	--	--	--	--
8/31/1995	--	e	456.18	48.0	68.0	14.40	441.78	--	--	--	--	--	--	--	--
11/28/1995	--		456.18	48.0	68.0	14.26	441.92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
2/22/1996	--	e	456.18	48.0	68.0	12.05	444.13	--	--	--	--	--	--	--	--
5/23/1996	--	e	456.18	48.0	68.0	12.07	444.11	--	--	--	--	--	--	--	--
8/8/1996	--	e	456.18	48.0	68.0	14.12	442.06	--	--	--	--	--	--	--	--
11/7/1996	--		456.18	48.0	68.0	15.42	440.76	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
3/27/1997	--	e	456.18	48.0	68.0	13.01	443.17	--	--	--	--	--	--	--	--
5/19/1997	--	e	456.18	48.0	68.0	14.60	441.58	--	--	--	--	--	--	--	--
5/18/1998	--	e	456.18	48.0	68.0	12.60	443.58	--	--	--	--	--	--	--	--
11/2/1998	--	e	456.18	48.0	68.0	25.08	431.10	--	--	--	--	--	--	--	--
6/4/1999	P		456.18	48.0	68.0	15.87	440.31	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
11/11/1999	P		456.18	48.0	68.0	17.02	439.16	<50	<0.5	<0.5	<0.5	<1	<3	0.96	--
6/20/2000	--	e	456.18	48.0	68.0	15.54	440.64	--	--	--	--	--	--	2.1	--
8/29/2000	--	e	456.18	48.0	68.0	16.81	439.37	--	--	--	--	--	--	2.59	--
11/29/2000	P		456.18	48.0	68.0	18.81	437.37	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.81	--
5/2/2001	--	e	456.18	48.0	68.0	22.09	434.09	--	--	--	--	--	--	--	--
8/15/2001	--	e	456.18	48.0	68.0	27.59	428.59	--	--	--	--	--	--	--	--
10/5/2001	--	q	456.18	48.0	68.0	27.63	428.55	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
10/5/2001	P		456.18	48.0	68.0	27.63	428.55	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.93	--
1/21/2002	--	e	456.18	48.0	68.0	26.77	429.41	--	--	--	--	--	--	--	--
4/26/2002	--	e	456.18	48.0	68.0	26.41	429.77	--	--	--	--	--	--	--	--
10/7/2002	P		456.18	48.0	68.0	18.85	437.33	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	--
05/01/2003	--	c, e	456.18	48.0	68.0	17.84	438.34	--	--	--	--	--	--	--	--
10/03/2003	P	d	456.18	48.0	68.0	18.69	437.49	<50	1.1	0.57	<0.50	<0.50	<0.50	4.9	6.8
04/06/2004	--	e	458.55	48.0	68.0	16.08	442.47	--	--	--	--	--	--	--	--
10/28/2004	P		458.55	48.0	68.0	18.35	440.20	<50	<0.50	<0.50	<0.50	<0.50	<0.50	6.8	6.9
04/13/2005	--	e	458.55	48.0	68.0	14.09	444.46	--	--	--	--	--	--	--	--
10/27/2005	P		458.55	48.0	68.0	17.41	441.14	<50	0.51	<0.50	<0.50	<0.50	1.4	2.56	7.0
04/12/2006	--		458.55	48.0	68.0	14.18	444.37	--	--	--	--	--	--	--	--
10/31/2006	P		458.55	48.0	68.0	17.97	440.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.46

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE		
MW-9 Cont.															
4/19/2007	--		458.55	48.0	68.0	22.37	436.18	--	--	--	--	--	--	--	--
MW-10															
3/23/1995	--	e	456.85	32.0	52.0	14.86	441.99	--	--	--	--	--	--	--	--
5/31/1995	--	e	456.85	32.0	52.0	15.63	441.22	--	--	--	--	--	--	--	--
8/31/1995	--	e	456.85	32.0	52.0	14.40	442.45	--	--	--	--	--	--	--	--
11/28/1995	--		456.85	32.0	52.0	17.24	439.61	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
2/22/1996	--	e	456.85	32.0	52.0	14.30	442.55	--	--	--	--	--	--	--	--
5/23/1996	--	e	456.85	32.0	52.0	14.93	441.92	--	--	--	--	--	--	--	--
8/8/1996	--	e	456.85	32.0	52.0	17.20	439.65	--	--	--	--	--	--	--	--
11/7/1996	--		456.85	32.0	52.0	18.25	438.60	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
3/27/1997	--	e	456.85	32.0	52.0	15.77	441.08	--	--	--	--	--	--	--	--
5/19/1997	--	e	456.85	32.0	52.0	17.38	439.47	--	--	--	--	--	--	--	--
5/18/1998	--	e	456.85	32.0	52.0	15.47	441.38	--	--	--	--	--	--	--	--
11/2/1998	--		456.85	32.0	52.0	26.94	429.91	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
6/4/1999	--	e	456.85	32.0	52.0	17.19	439.66	--	--	--	--	--	--	--	--
11/11/1999	P		456.85	32.0	52.0	19.35	437.50	<50	<0.5	<0.5	<0.5	<1	<3	0.68	--
6/20/2000	--	e	456.85	32.0	52.0	17.92	438.93	--	--	--	--	--	--	2.9	--
8/29/2000	--	e	456.85	32.0	52.0	19.15	437.70	--	--	--	--	--	--	1.54	--
11/29/2000	P		456.85	32.0	52.0	21.30	435.55	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.95	--
5/2/2001	--	e	456.85	32.0	52.0	29.95	426.90	--	--	--	--	--	--	--	--
8/15/2001	--	e	456.85	32.0	52.0	30.74	426.11	--	--	--	--	--	--	--	--
10/5/2001	P		456.85	32.0	52.0	30.95	425.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.89	--
1/21/2002	--	e	456.85	32.0	52.0	28.97	427.88	--	--	--	--	--	--	--	--
4/26/2002	--	e	456.85	32.0	52.0	28.50	428.35	--	--	--	--	--	--	--	--
10/7/2002	--		456.85	32.0	52.0	21.15	435.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.0	--
05/01/2003	--	c, e	456.85	32.0	52.0	18.90	437.95	--	--	--	--	--	--	--	--
10/03/2003	P	d	456.85	32.0	52.0	20.64	436.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	7.1
04/06/2004	--	e	459.20	32.0	52.0	17.99	441.21	--	--	--	--	--	--	--	--
10/28/2004	P		459.20	32.0	52.0	20.27	438.93	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.9	7.1
04/13/2005	--	e	459.20	32.0	52.0	16.25	442.95	--	--	--	--	--	--	--	--

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

Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-10 Cont.															
10/27/2005	P		459.20	32.0	52.0	19.03	440.17	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.38	7.2
04/12/2006	--		459.20	32.0	52.0	14.95	444.25	--	--	--	--	--	--	--	--
10/31/2006	P		459.20	32.0	52.0	20.20	439.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.30
4/19/2007	--		459.20	32.0	52.0	24.00	435.20	--	--	--	--	--	--	--	--
MW-11															
3/23/1995	--		455.07	38.0	45.0	17.34	437.73	--	--	--	--	--	--	--	--
5/31/1995	--		455.07	38.0	45.0	16.68	438.39	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
8/31/1995	--	h	455.07	38.0	45.0	20.20	434.87	--	--	--	--	--	--	--	--
11/28/1995	--		455.07	38.0	45.0	17.80	437.27	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
2/22/1996	--	h	455.07	38.0	45.0	15.97	439.10	--	--	--	--	--	--	--	--
5/23/1996	--		455.07	38.0	45.0	15.50	439.57	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
8/8/1996	--	h	455.07	38.0	45.0	17.77	437.30	--	--	--	--	--	--	--	--
11/7/1996	--		455.07	38.0	45.0	17.45	437.62	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
3/27/1997	--	h	455.07	38.0	45.0	15.77	439.30	--	--	--	--	--	--	--	--
5/19/1997	--		455.07	38.0	45.0	16.80	438.27	<50	1.1	4.5	<0.5	2.2	<3	--	--
5/18/1998	--		455.07	38.0	45.0	15.38	439.69	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
11/2/1998	--		455.07	38.0	45.0	24.15	430.92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
6/4/1999	P		455.07	38.0	45.0	18.39	436.68	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
11/11/1999	P		455.07	38.0	45.0	18.62	436.45	<50	<0.5	<0.5	<0.5	<1	<3	1.01	--
6/20/2000	P		455.07	38.0	45.0	17.82	437.25	<50.0	0.631	<0.500	<0.500	<0.500	<2.50	4.1	--
8/29/2000	--	h	455.07	38.0	45.0	19.50	435.57	--	--	--	--	--	--	--	--
11/29/2000	P		455.07	38.0	45.0	20.60	434.47	<50.0	<0.500	<0.500	<0.500	1.63	<2.50	0.97	--
5/2/2001	P		455.07	38.0	45.0	22.42	432.65	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.04	--
8/15/2001	--	h	455.07	38.0	45.0	27.41	427.66	--	--	--	--	--	--	--	--
10/5/2001	P		455.07	38.0	45.0	27.59	427.48	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.05	--
1/21/2002	--	h	455.07	38.0	45.0	26.75	428.32	--	--	--	--	--	--	--	--
4/26/2002	P		455.07	38.0	45.0	26.50	428.57	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.47	--
10/7/2002	--		455.07	38.0	45.0	20.79	434.28	<50	<0.50	<0.50	<0.50	<0.50	1.0	1.4	--
05/01/2003	P	c	455.07	38.0	45.0	20.55	434.52	<50	<0.50	<0.50	<0.50	<0.50	1.5	3.2	--
10/03/2003	P	d	455.07	38.0	45.0	20.58	434.49	<50	<0.50	<0.50	<0.50	<0.50	3.1	3.0	7.1

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Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-11 Cont.															
04/06/2004	P		457.40	38.0	45.0	17.52	439.88	<50	<0.50	<0.50	<0.50	<0.50	14	5.1	6.7
10/28/2004	P		457.40	38.0	45.0	20.32	437.08	<50	<0.50	<0.50	<0.50	<0.50	29	1.3	7.2
04/13/2005	P		457.40	38.0	45.0	16.20	441.20	<50	<0.50	<0.50	<0.50	<0.50	3.7	2.8	7.0
10/27/2005	P		457.40	38.0	45.0	21.98	435.42	<50	<0.50	<0.50	<0.50	<0.50	21	1.04	7.2
04/12/2006	--	Well inaccess/No m	457.40	38.0	45.0	--	--	--	--	--	--	--	--	--	--
10/31/2006	--		457.40	38.0	45.0	--	--	--	--	--	--	--	--	--	--
4/19/2007	P		457.40	38.0	45.0	22.38	435.02	<50	<0.50	<0.50	<0.50	<0.50	12	7.11	7.57
MW-12															
3/23/1995	--	h	455.04	18.0	34.5	15.54	439.50	--	--	--	--	--	--	--	--
5/31/1995	--		455.04	18.0	34.5	15.66	439.38	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
8/31/1995	--	h	455.04	18.0	34.5	18.23	436.81	--	--	--	--	--	--	--	--
11/28/1995	--		455.04	18.0	34.5	17.53	437.51	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
2/22/1996	--	h	455.04	18.0	34.5	14.45	440.59	--	--	--	--	--	--	--	--
5/23/1996	--		455.04	18.0	34.5	14.88	440.16	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
8/8/1996	--	h	455.04	18.0	34.5	17.30	437.74	--	--	--	--	--	--	--	--
11/7/1996	--		455.04	18.0	34.5	18.30	436.74	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
3/27/1997	--	h	455.04	18.0	34.5	15.69	439.35	--	--	--	--	--	--	--	--
5/19/1997	--		455.04	18.0	34.5	17.41	437.63	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
5/18/1998	--		455.04	18.0	34.5	15.21	439.83	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
11/2/1998	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
6/4/1999	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
11/11/1999	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
6/20/2000	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
8/29/2000	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
11/29/2000	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
5/2/2001	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
8/15/2001	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
10/5/2001	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
1/21/2002	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
4/26/2002	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--

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Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-12 Cont.															
10/7/2002	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
05/01/2003	--	c, m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
10/03/2003	--	m	455.04	18.0	34.5	--	--	--	--	--	--	--	--	--	--
04/06/2004	P		457.37	18.0	34.5	18.14	439.23	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	6.4
10/28/2004	P		457.37	18.0	34.5	20.66	436.71	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	6.8
04/13/2005	P		457.37	18.0	34.5	16.25	441.12	<50	<0.50	<0.50	<0.50	0.55	<0.50	1.9	7.5
10/27/2005	P		457.37	18.0	34.5	19.77	437.60	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.81	7.0
04/12/2006	P		457.37	18.0	34.5	16.08	441.29	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	7.2
10/31/2006	--		457.37	18.0	34.5	--	--	--	--	--	--	--	--	--	--
4/19/2007	NP		457.37	18.0	34.5	22.34	435.03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.66	7.28
MW-13															
1/21/2002	P		--	--	--	24.61	--	15,000	160	68	1,700	3,200	4,900/5,200	0.71	--
4/26/2002	P		--	--	--	24.20	--	17,000	98	<100	1,700	3,400	1,600	0.6	--
10/7/2002	--	b	--	--	--	20.12	--	14,000	510	<50	2,200	2,300	2,800	0.8	--
05/01/2003	P	c	--	--	--	17.82	--	21,000	230	<50	1,900	2,300	1,600	1.9	--
10/03/2003	P	d	--	--	--	19.91	--	19,000	570	55	1,900	2,300	2,400	0.8	6.9
04/06/2004	P		457.91	--	--	17.14	440.77	15,000	470	35	1,600	1,300	1,800	2.0	6.7
10/28/2004	P		457.91	--	--	18.83	439.08	18,000	350	<25	1,900	1,800	1,800	0.8	6.7
04/13/2005	P		457.91	--	--	15.23	442.68	9,700	110	<25	860	280	920	0.9	6.9
10/27/2005	P		457.91	--	--	18.45	439.46	11,000	120	12	1,500	450	580	0.75	6.8
04/12/2006	P		457.91	--	--	15.06	442.85	4,700	65	<10	450	69	470	1.2	6.8
10/31/2006	P		457.91	--	--	19.06	438.85	15,000	150	<25	1,700	400	710	--	6.87
4/19/2007	NP		457.91	--	--	22.21	435.70	14,000	60	<25	1,800	640	330	1.44	7.09
VW-1															
8/29/2000	P		--	24	45	17.40	--	2,360	27.6	11.6	26.3	33.2	110	4.47	--
11/29/2000	P		--	24.0	45	18.75	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.46	--
5/2/2001	--		--	24.0	45	21.59	--	--	--	--	--	--	--	--	--
8/15/2001	P	s	--	24.0	45	24.62	--	1,200	6.3	4.3	1.7	1.3	20/17	--	--
8/15/2001	--	q	--	24.0	45	--	--	1,200	6.2	4.1	1.8	1.1	20/17	--	--

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

Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
VW-1 Cont.															
10/5/2001	P	s	--	24.0	45	24.75	--	1,500	140	55	28	82	610/660	0.71	--
1/21/2002	--	q, s	--	24.0	45	--	--	8,000	770	320	96	1,100	2,500/3,200	--	--
1/21/2002	P	s	--	24.0	45	24.59	--	6,700	810	350	270	1,100	2,600/3,400	0.69	--
4/26/2002	P		--	24.0	45	24.27	--	370	26	2.1	6.6	1.7	48	0.5	--
4/26/2002	--	q	--	24.0	45	--	--	350	24	1.6	5.9	1.6	45	--	--
10/7/2002	P	b	--	24.0	45	19.20	--	410	25	2.2	8	4.3	88	1.7	--
05/01/2003	P	c	--	24.0	45	16.60	--	240	6.4	<0.50	3.3	1.3	36	1.7	--
10/03/2003	P	d	--	24.0	45	18.82	--	180	1.5	<0.50	0.69	<0.50	12	1.1	7.3
04/06/2004	P		457.08	24.0	45	15.78	441.30	300	2.2	<0.50	3.0	1.3	13	2.4	7.2
10/28/2004	P		457.08	24.0	45	18.33	438.75	210	<0.50	<0.50	0.67	<0.50	<0.50	1.2	7.1
04/13/2005	P		457.08	24.0	45	14.02	443.06	740	1.8	<0.50	3.6	1.1	9.6	2.4	7.1
10/27/2005	P		457.08	24.0	45	17.65	439.43	1,500	78	73	36	81	13	1.64	7.3
04/12/2006	P		457.08	24.0	45	13.89	443.19	230	1.4	<0.50	2.2	0.76	1.6	1.4	7.3
10/31/2006	P		457.08	24.0	45	17.87	439.21	80	<0.50	<0.50	2.3	0.82	<0.50	--	7.76
4/19/2007	P		457.08	24.0	45	21.09	435.99	250	1.6	<0.50	4.7	1.3	3.0	1.15	7.66
VW-2															
8/29/2000	--	g	--	28	49.5	--	--	--	--	--	--	--	--	--	--
11/29/2000	--	g	--	28	49.5	--	--	--	--	--	--	--	--	--	--
5/2/2001	--		--	28	49.5	--	--	--	--	--	--	--	--	--	--
10/5/2001	--	g	--	28	49.5	--	--	--	--	--	--	--	--	--	--
1/21/2002	--	g	--	28	49.5	--	--	--	--	--	--	--	--	--	--
4/26/2002	--	m	--	28	49.5	--	--	--	--	--	--	--	--	--	--
10/7/2002	--	g	--	28	49.5	--	--	--	--	--	--	--	--	--	--
05/01/2003	--	c, g	--	28	49.5	--	--	--	--	--	--	--	--	--	--
10/03/2003	--	Well inaccessible	--	28	49.5	--	--	--	--	--	--	--	--	--	--
04/06/2004	--		458.64	28	49.5	16.96	441.68	--	--	--	--	--	--	--	--
10/28/2004	--		458.64	28	49.5	19.35	439.29	--	--	--	--	--	--	--	--
04/13/2005	--		458.64	28	49.5	15.51	443.13	--	--	--	--	--	--	--	--
10/27/2005	--		458.64	28	49.5	18.50	440.14	--	--	--	--	--	--	--	--
04/12/2006	--		458.64	28	49.5	14.92	443.72	--	--	--	--	--	--	--	--

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #6113, 785 East Stanley Blvd., Livermore, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE		
VW-2 Cont.															
10/31/2006	--		458.64	28	49.5	19.01	439.63	--	--	--	--	--	--	--	--
4/19/2007	--		458.64	28	49.5	22.52	436.12	--	--	--	--	--	--	--	--
VW-3															
8/29/2000	P		--	15.5	24	17.93	--	25,400	3,540	10,600	1,280	43,000	44,700	--	--
11/29/2000	P	s	--	15.5	24	19.75	--	54,200	9,450	1,870	2,350	9,400	12,300/15,100	0.47	--
5/2/2001	--	k	--	15.5	24	--	--	--	--	--	--	--	--	--	--
VW-4															
8/29/2000	--	g	--	17	30	--	--	--	--	--	--	--	--	--	--
11/29/2000	P	s	--	17	30	19.45	--	37,500	4,510	206	2,100	9,030	6,770/7,880	0.42	--
11/29/2000	--	q, s	--	17	30	--	--	36,100	3,700	206	1,850	7,890	6,430/8,460	--	--
5/2/2001	--		--	17	30	21.66	--	--	--	--	--	--	--	--	--
8/15/2001	--		--	17	30	--	--	--	--	--	--	--	--	--	--
10/5/2001	--	f	--	17	30	--	--	--	--	--	--	--	--	--	--
1/21/2002	--	f	--	17	30	--	--	--	--	--	--	--	--	--	--
4/26/2002	--	f	--	17	30	--	--	--	--	--	--	--	--	--	--
10/7/2002	--		--	17	30	19.25	--	--	--	--	--	--	--	--	--
05/01/2003	--	c	--	17	30	17.29	--	--	--	--	--	--	--	--	--
10/03/2003	P	d, n	--	17	30	19.10	--	48,000	3,300	1,700	3,600	21,000	1,600	10.5	6.7
04/06/2004	--		456.99	17	30	18.05	438.94	--	--	--	--	--	--	--	--
10/28/2004	--		456.99	17	30	18.71	438.28	--	--	--	--	--	--	--	--
04/13/2005	--		456.99	17	30	14.62	442.37	--	--	--	--	--	--	--	--
10/27/2005	--		456.99	17	30	18.00	438.99	--	--	--	--	--	--	--	--
04/12/2006	--		456.99	17	30	14.42	442.57	--	--	--	--	--	--	--	--
10/31/2006	--		456.99	17	30	18.30	438.69	--	--	--	--	--	--	--	--
4/19/2007	--		456.99	17	30	20.91	436.08	--	--	--	--	--	--	--	--

ABBREVIATIONS & SYMBOLS:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = Feet below ground surface
ft MSL = Feet above mean sea level
GRO = Gasoline range organics
GWE = Groundwater elevation measured in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert-butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing measured in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter

FOOTNOTES:

a = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
b = Chromatogram Pattern: C6-C10.
c = TPH-g, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and MTBE analyzed using EPA Method 8260B beginning second quarter 2003 (05/01/03).
d = This sample was analyzed 3 days after the EPA recommended holding time. The results may still be useful for their intended purpose.
e = Well sampled annually in the fourth quarter.
f = Well dry.
g = Well inaccessible.
h = Well sampled semi-annually in second and fourth quarters.
k = Well abandoned.
m = Unable to locate well.
n = Sheen in well.
q = Duplicate sample.
r = Well removed from sampling schedule.
s = Original sample analyzed by 8021B and confirmation by 8260.
t = Bolts securing well box cover stripped at head. Unable to sample well.
u = Hydrocarbon result partly due to individ. peak(s) in quant. range.
v = pH measurement is believed to be erroneous.

NOTES:

Beginning in the second quarter 2003 (05/01/03) TPH-g and BTEX were analyzed using EPA Method 8260B, and MTBE was analyzed by EPA Method 8260B beginning in fourth quarter 2002. Prior to 05/01/03, TPH-g was analyzed by EPA Method 8015; BTEX by EPA Method 8021B (EPA method 8020 before 11/11/99); and MTBE by EPA Method 8021B. (EPA method 8020 before 11/11/99). Any MTBE detection by 8021B was confirmed by EPA Method 8260 beginning third quarter 2000 (08-29-00 results).

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 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.

Wells were resurveyed to NAVD '88 datum by URS Corporation on March 8, 2004.

Values for DO and pH were obtained through field measurements.

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 #6113, 785 East Stanley Blvd., Livermore, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-2									
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3									
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	a
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/31/2006	<300	<20	22	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4									
10/7/2002	<400	<200	260	<5.0	<5.0	<5.0	<5.0	<5.0	
5/1/2003	<100	25	86	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	22	<1.0	<1.0	<1.0	<0.50	<0.50	a
04/06/2004	<100	<20	17	<0.50	<0.50	<0.50	<0.50	<0.50	
10/28/2004	<100	<20	4.5	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	22	<0.50	<0.50	<0.50	<0.50	<0.50	
04/12/2006	<300	<20	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/19/2007	<300	<20	<0.50	<0.50	<0.50	0.66	<0.50	<0.50	
MW-6									
10/7/2002	<40	<20	8	<0.50	<0.50	<0.50	<0.50	<0.50	
5/1/2003	<100	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<500	<100	120	<5.0	<5.0	<5.0	<2.5	<2.5	a
04/06/2004	<5,000	<1,000	1,700	<25	<25	<25	<25	<25	
10/28/2004	<5,000	<1,000	3,100	<25	<25	<25	<25	<25	
04/13/2005	<10,000	<2,000	3,900	<50	<50	<50	<50	<50	
10/27/2005	<10,000	<2,000	2,900	<50	<50	<50	<50	<50	b
04/12/2006	<30,000	<2,000	3,400	<50	<50	<50	<50	<50	b
10/31/2006	<15,000	<1,000	3,400	<25	<25	<25	<25	<25	b

**Table 2. Summary of Fuel Additives Analytical Data
Station #6113, 785 East Stanley Blvd., Livermore, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-6 Cont.									
4/19/2007	<15,000	<1,000	2,200	<25	<25	<25	<25	<25	
MW-7									
10/7/2002	<40	<20	41	<0.50	<0.50	<0.50	<0.50	<0.50	
5/1/2003	<100	<20	43	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<200	<40	49	<2.0	<2.0	<2.0	<1.0	<1.0	a
04/06/2004	<100	<20	0.76	<0.50	<0.50	<0.50	<0.50	<0.50	
10/28/2004	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	b
04/12/2006	<300	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
4/19/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-8									
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-9									
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	a
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
MW-10									
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	a
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
MW-11									
10/7/2002	<40	<20	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	
5/1/2003	<100	<20	--	<0.50	<0.50	<0.50	<0.50	<0.50	

**Table 2. Summary of Fuel Additives Analytical Data
Station #6113, 785 East Stanley Blvd., Livermore, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-11 Cont.									
10/03/2003	<100	<20	3:1	<1.0	<1.0	<1.0	<0.50	<0.50	a
04/06/2004	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	
10/28/2004	<100	<20	29	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	3.7	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	21	<0.50	<0.50	<0.50	<0.50	<0.50	
04/12/2006	--	--	--	--	--	--	--	--	Well inaccessible
4/19/2007	<300	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-12									
04/06/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
04/12/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
4/19/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-13									
10/7/2002	<4,000	<2,000	2,800	<50	<50	<50	<50	<50	
5/1/2003	<10,000	<2,000	--	<50	<50	<50	<50	<50	
10/03/2003	<10,000	<2,000	2,400	<100	<100	<100	<50	<50	a
04/06/2004	<5,000	<1,000	1,800	<25	<25	<25	<25	<25	
10/28/2004	<5,000	<1,000	1,800	<25	<25	<25	<25	<25	
04/13/2005	<5,000	<1,000	920	<25	<25	<25	<25	<25	
10/27/2005	<2,000	<400	580	<10	<10	<10	<10	<10	
04/12/2006	<6,000	<400	470	<10	<10	<10	<10	<10	b
10/31/2006	<15,000	<1,000	710	<25	<25	<25	<25	<25	b
4/19/2007	<15,000	<1,000	330	<25	<25	<25	<25	<25	
VW-1									
10/7/2002	<80	<40	--	<1.0	<1.0	<1.0	<1.0	<1.0	
5/1/2003	<100	<20	--	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	12	<1.0	<1.0	<1.0	<0.50	<0.50	a
04/06/2004	<100	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	

**Table 2. Summary of Fuel Additives Analytical Data
Station #6113, 785 East Stanley Blvd., Livermore, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
VW-1 Cont.									
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	9.6	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	
04/12/2006	<300	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
4/19/2007	<300	<20	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	
VW-2									
10/03/2003	--	--	--	--	--	--	--	--	Well inaccessible
VW-4									
10/03/2003	<100,000	<20,000	1,600	<1,000	<1,000	<1,000	<500	<500	a

ABBREVIATIONS & SYMBOLS:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above specified laboratory reporting limit

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

µg/L = Micrograms per Liter

FOOTNOTES:

a = This sample was analyzed 3 days after the EPA recommended holding time. The results may still be useful for their intended purpose.

b = Calibration verification for ethanol was within method limits but outside contract limits.

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 #6113, 785 East Stanley Blvd., Livermore, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
3/23/1995	Northwest	0.035
5/31/1995	North-Northwest	0.028
8/31/1995	North-Northwest	0.03
11/28/1995	North-Northwest	0.025
2/22/1996	North-Northwest	0.031
5/23/1996	North-Northwest	0.025
8/8/1996	North	0.019
11/7/1996	North-Northeast	0.019
3/27/1997	North-Northwest	0.021
5/19/1997	North	0.019
5/18/1998	North	0.02
11/2/1998	North	0.02
6/4/1999	North	0.02
11/11/1999	North	0.03
6/20/2000	North-Northeast	0.014
8/29/2000	North-Northeast	0.013
11/29/2000	North-Northwest	0.026
5/2/2001	Northeast	0.026
8/15/2001	Northeast	0.047
10/5/2001	Northeast	0.031
1/21/2002	Northeast	0.033
4/26/2002	Northeast	0.031
10/7/2002	Northeast	0.017
5/1/2003	North-Northeast	0.011
10/3/2003	North-Northeast	0.016
4/6/2004	North-Northeast	0.013
10/28/2004	North-Northeast	0.014
4/13/2005	North-Northwest	0.02
10/27/2005	North-Northwest	0.01 to 0.03
4/12/2006	Northeast	0.01
10/31/2006	Northeast	0.014
4/19/2007	Northeast	0.013

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. GROUNDWATER SAMPLING DATA PACKAGE
(INCLUDES BILL OF LADING, FIELD DATA SHEETS, AND LABORATORY
REPORT AND CHAIN OF CUSTODY DOCUMENTATION)**



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

May 11, 2007

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

Re: Groundwater Sampling Data Package, BP Service Station No. 6113, located at
785 E. Stanley, Livermore, California (Quarterly Monitoring performed on
April 19, 2007)

General Information

Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson

Phone Number: (530) 676-6000

On-Site Supplier Representatives: Vince Zalutka and David Demello

Date: April 18, 2007

Arrival: 04:00 *Departure:* 11:40

Weather Conditions: Overcast

Unusual Field Conditions: None

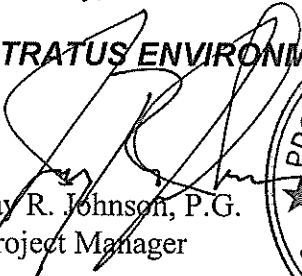
Scope of Work Performed: Quarterly monitoring and sampling

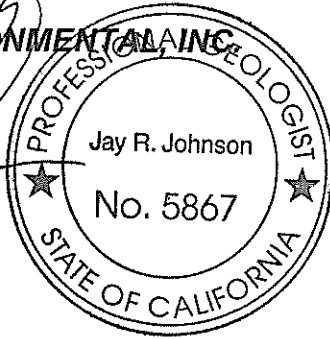
Variations from Work Scope: None noted

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include bill of lading, field data sheets, chain of custody documentation, and certified analytical results. 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:

- Bill of Lading
- Field Data Sheets
- Chain of Custody Documentation
- Certified Analytical Results

CC: Mr. Paul Supple, BP/ARCO

BP GEM OIL COMPANY

TYPE A BILL OF LADING

SOURCE RECORD BILL OF LADING FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGEWATER WHICH HAS BEEN RECOVERED FROM GROUNDWATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY BELSHIRE ENVIRONMENTAL TO SEAPORT ENVIRONMENTAL IN REDWOOD CITY, CALIFORNIA.

The contractors performing this work are Stratus Environmental, Inc. [Stratus, 3330 Cameron Park Drive, Suite 550, Cameron Park, CA 95682, (530) 676-6004], and Dulous Environmental, Inc. [Dulous, PO Box 2559, Orangevale, CA 95662, (916) 990-0333]. Stratus is authorized by BP GEM OIL COMPANY to recover, collect, and apportion into loads the non-hazardous well purgewater that is drawn from wells at BP GEM Oil Company facilities and deliver that purgewater to BP GEM Oil Company facility 5786 located in West Sacramento, California. Dulous also performs these services under subcontract to Stratus. Transport routing of the non-hazardous well purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The non-hazardous well purgewater is and remains the property of BP GEM Oil Company.

This **Source Record BILL OF LADING** was initiated to cover the recovery of non-hazardous well purgewater from wells at the BP GEM Oil Company facility described below:

Station # ARCD 6113

Station Address 785 E. Stanley Bl, Livermore

Total Gallons Collected From Groundwater Monitoring Wells:

247

Added Equipment
Rinse Water _____ Any Other
Adjustments _____

TOTAL GALS.
RECOVERED 247 loaded onto
Stratus vehicle # _____

Stratus Project # _____ time _____ date _____

1140 4/19/07

Signature Vincent Zatlher

RECEIVED AT _____ time _____ date _____

5786 300 4/19/07

Unloaded by
Signature Vincent Zatlher

ORIGINAL



Global ID: T0600100111
 Site Address 785 E. Stanley Blvd.
 City Livermore, CA
 Sampled By: VinceZ

ORIGINAL

Site Number 6113
 Project No EG113-04
 Project PM Jay Johnson
 Date 4-19-07

Signature V. Z. Date: 4-19-07

Water Level Data						Purge Volume Calculations					Well Purge Method				Sample Record			Field Data
Well ID	Time	Depth to water feet	Top of Screen feet	Total Depth of well feet	Qtr. Meas. Depth of Well feet	Casing Water Column (A)	Well Diameter (Inches)	Multiplier Value (B)	Three Casing Volumes (Gallons)	Actual Water Purged (Gallons)	No Purge	Bailer	Pump	Other	DTW At Sample Time	Sample I.D.	Sample time	PPM Dissolved Oxygen (mg/L)
MW-1	0641	23.20	29	}	44.39	—	2	0.5	—	—	X				—	MW-1	—	—
MW-2	0626	23.85	28		38.38	—	2	0.5	—	—	X				—	MW-2	—	—
MW-3	0656	23.07	28.5		38.90	—	4	2	—	—	X				—	MW-3	—	—
MW-4	0708	22.72	21		26.49	—	4	2	—	—	X	X			22.72	MW-4	0730	2.92
MW-6	0745	22.25	48		66.63	44.38	4	2	88.76	89			X		22.34	MW-6	1036	5.54
MW-7	0728	22.11	48		67.40	45.29	4	2	90.58	91			X		22.24	MW-7	0941	4.37
MW-8	0656	22.39	47		66.39	—	4	2	—	—	X				—	MW-8	—	—
MW-9	0659	22.37	48		67.62	—	4	2	—	—	X				—	MW-9	—	—
MW-10	0621	24.00	32		49.89	—	4	2	—	—	X				—	MW-10	—	—
MW-11	0521	22.38	38		44.31	21.93	2	0.5	11	11		X			32.99	MW-11	0604	7.11
MW-12	0530	22.34	18		33.76	—	2	0.5	—	—	X	X			33.76	MW-12	0555	4.66
MW-13	0744	22.21	18		30.12	—	4	2	—	—	X	X			27.21	MW-13	0757	1.44
VW-1	0703	21.09	24		44.13	23.04	4	2	56.08	56			X		21.20	VW-1	1125	1.15
VW-2	0736	22.52	28	49.00	—	4	2	—	—	X				—	VW-2	—	—	
VW-4	0718	20.91	17	24.50	—	4	2	—	—	X				—	VW-4	—	—	
TB																TB	0500	

Multiplier Values
 2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4



Site Address 785 E. Stanley Blvd.
 City Livermore, CA
 Sampled By: VinceZ

Site Number 6113
 Project No _____
 Project PM Jay Johnson
 Date 4-19-07

ORIGINAL

VJ

Well ID MW-1					Well ID MW-2				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				
Well ID MW-3					Well ID MW-4				
purge start time					purge start time <i>Bailer No Odor</i>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time	<i>17.2</i>	<i>7.36</i>	<i>531</i>	<i>Ø</i>
time					time				
time					time				
time					time				
purge stop time					purge stop time				
Well ID MW-6 1036					Well ID MW-7 0823				
Purge start time <i>0954</i>					Purge start time <i>0823 0823 No O</i>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<i>19.2</i>	<i>7.26</i>	<i>784</i>	<i>Ø</i>	time	<i>18.5</i>	<i>7.69</i>	<i>600</i>	<i>Ø</i>
time	<i>19.0</i>	<i>7.34</i>	<i>675</i>	<i>45</i>	time	<i>Tanker @ 0836 - off</i>			
time	<i>19.2</i>	<i>10.52</i>	<i>3602</i>	<i>89</i>	time	<i>18.5</i>	<i>7.66</i>	<i>595</i>	<i>46</i>
time					time	<i>18.8</i>	<i>7.60</i>	<i>607</i>	<i>91</i>
purge stop time <i>1030</i>					purge stop time <i>0929</i>				
Well ID MW-8					Well ID MW-9				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				



Site Address 785 E. Stanley Blvd.
 City Livermore, CA
 Sampled By: VinceZ

Site Number 6113
 Project No _____
 Project PM Jay Johnson
 Date 4-19-07
VJ

Well ID MW-10					Well ID MW-11 0604				
purge start time					purge start time <i>Bailer No Odor</i>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time	18.3	7.87	593	2
time					time	18.4	7.36	629	6
time					time	18.3	7.57	610	11
time					time				
purge stop time					purge stop time				
Well ID MW-12					Well ID MW-13 0757				
purge start time <i>Bailer No Odor</i>					purge start time <i>Bailer No Odor</i>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	15.4	7.28	545	5	time	18.9	7.09	915	5
time	<i>18.1</i>	<i>7.2</i>	<i>610</i>	<i>11</i>	time				
time					time				
time					time				
purge stop time					purge stop time				
Well ID VW-1 1625					Well ID VW-2				
Purge start time <i>1051</i> <i>ODOR</i>					Purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	18.9	8.10	591	8	time				
time	18.8	7.94	585	29	time				
time	18.5	7.66	593	56	time				
time					time				
purge stop time <i>1125</i>					purge stop time				
Well ID VW-4					Well ID 0				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				

Wellhead Observation Form **ORIGINAL**

Account: 6113
 Sampled by: Vince/Dave Date: 4-19-07

Well ID	Box in good condition	Lock Missing (Replaced with new)	Water in Box	Bolts Missing	Bolts Stripped	Bolt-Holes Stripped	Cracked or Broken Lid	Cracked Box and/or Bolt-Holes	Misc.	Add'l -- Notes and Other Stuff
1	X			(2) X						* Replaced w/new bolts
2	X			(2) X						Bolt holes need retapped
3	X									
4	X									
6	X									
7	X									
8	X			X						large bolts missing
9					(1) X					Replaced w/new bolt
10	X									
11	X									
12			X							
13	X									
VW-1	X									
VW-2										
VW 4										

MW-1
 ~~~~~  
 MW-13



bp  
A BP affiliated company

# Chain of Custody Record

Project Name: ARCO 6113  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 6113  
 State or Lead Regulatory Agency: California  
 Requested Due Date (mm/dd/yy): 04/19/07  
STD TAT

|                                           |                   |
|-------------------------------------------|-------------------|
| On-site Time: <del>0400</del> <u>0406</u> | Temp: <u>40°3</u> |
| Off-site Time: <u>1140</u>                | Temp: <u>60°5</u> |
| Sky Conditions: <u>OVERCAST</u>           |                   |
| Meteorological Events:                    |                   |
| Wind Speed:                               | Direction:        |

|                                            |                                                         |                                                    |
|--------------------------------------------|---------------------------------------------------------|----------------------------------------------------|
| Lab Name: TestAmerica                      | BP/AR Facility No.: 6113                                | Consultant/Contractor: Stratus Environmental, Inc. |
| Address: 885 Jarvis Drive                  | BP/AR Facility Address: 785 E. Stanley Blvd., Livermore | Address: 3330 Cameron Park Drive, Suite 550        |
| Morgan Hill, CA 95937                      | Site Lat/Long:                                          | Cameron Park, CA 95682                             |
| Lab PM: Lisa Race                          | California Global ID No.: T0600100111                   | Consultant/Contractor Project No.: E6113-04        |
| Tele/Fax: 408-782-8156 408-782-6308 (fax)  | Enfos Project No.: G0C54-0015                           | Consultant/Contractor PM: Jay Johnson              |
| BP/AR PM Contact: Paul Supple              | Provision or OOC (circle one) Provision                 | Tele/Fax: (530) 676-6000 / (530) 676-6005          |
| Address: 2010 Crow Canyon Place, Suite 150 | Phase/WBS: 04-Monitoring                                | Report Type & QC Level: Level 1 with EDF           |
| San Ramon, CA                              | Sub Phase/Task: 03-Analytical                           | E-mail EDD To: shayes@stratusinc.net               |
| Tele/Fax: 925-275-3506                     | Cost Element: 01-Contractor labor                       | Invoice to: Atlantic Richfield Co.                 |

| Lab Bottle Order No: |                    |      |          | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | 8260 Requested Analysis |         |         |     |     | Sample Point Lat/Long and Comments<br><br>*Oxy=<br>MTBE,TAME,ETBE,DIPE,TBA |
|----------------------|--------------------|------|----------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|-------------------------|---------|---------|-----|-----|----------------------------------------------------------------------------|
| Item No.             | Sample Description | Time | Date     | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GRO/BTEX/Oxy*           | 1,2-DCA | Ethanol | EDB | DRO |                                                                            |
| 1                    | MW-4               | 0730 | 04/19/07 | X          |              |     | 3              |                   |              | X                              |                  | X   | X        | X                       | X       |         |     |     |                                                                            |
| 2                    | MW-6               | 1036 |          |            |              |     | 3              |                   |              |                                |                  | X   | X        | X                       | X       |         |     |     |                                                                            |
| 3                    | MW-7               | 0941 |          |            |              |     | 3              |                   |              |                                |                  | X   | X        | X                       | X       |         |     |     |                                                                            |
| 4                    | MW-11              | 0604 |          |            |              |     | 3              |                   |              |                                |                  | X   | X        | X                       | X       |         |     |     |                                                                            |
| 5                    | MW-12              | 0555 |          |            |              |     | 6              |                   |              |                                |                  | X   | X        | X                       | X       |         |     |     |                                                                            |
| 6                    | MW-13              | 0757 |          |            |              |     | 3              |                   |              |                                |                  | X   | X        | X                       | X       |         |     |     |                                                                            |
| 7                    | VW-1               | 1125 |          |            | X            |     | 3              |                   |              | X                              |                  | X   | X        | X                       | X       |         |     |     |                                                                            |
| 8                    |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                         |         |         |     |     |                                                                            |
| 9                    | TB-6113-04/92007   | 0500 | 04/19/07 | X          |              |     | 2              |                   |              |                                |                  |     |          |                         |         |         |     |     |                                                                            |
| 10                   |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                         |         |         |     |     |                                                                            |

|                                      |                                                     |                       |                   |                                               |                      |                   |
|--------------------------------------|-----------------------------------------------------|-----------------------|-------------------|-----------------------------------------------|----------------------|-------------------|
| Sampler's Name: <u>Vince Zalutka</u> | Relinquished By / Affiliation: <u>Vince Zalutka</u> | Date: <u>04-19-07</u> | Time: <u>1343</u> | Accepted By / Affiliation: <u>[Signature]</u> | Date: <u>4-19-07</u> | Time: <u>1345</u> |
| Sampler's Company: <u>STRATUS</u>    |                                                     |                       |                   |                                               |                      |                   |
| Shipment Date: <u>4-19-07</u>        |                                                     |                       |                   |                                               |                      |                   |
| Shipment Method: <u>STRATUS</u>      |                                                     |                       |                   |                                               |                      |                   |
| Shipment Tracking No:                |                                                     |                       |                   |                                               |                      |                   |

Special Instructions: Please cc results to [rmiller@broadbentinc.com](mailto:rmiller@broadbentinc.com)

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

4 May, 2007

Jay Johnson  
Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park, CA 95682

RE: ARCO #6113, Livermore, CA  
Work Order: MQD0845

Enclosed are the results of analyses for samples received by the laboratory on 04/19/07 19:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race  
Senior Project Manager

CA ELAP Certificate # 1210

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

Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #6113, Livermore, CA  
Project Number: G0C54-0015  
Project Manager: Jay Johnson

MQD0845  
Reported:  
05/04/07 12:58

ANALYTICAL REPORT FOR SAMPLES

| Sample ID        | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|------------------|---------------|--------|----------------|----------------|
| MW-4             | MQD0845-01    | Water  | 04/19/07 07:30 | 04/19/07 19:55 |
| MW-6             | MQD0845-02    | Water  | 04/19/07 10:36 | 04/19/07 19:55 |
| MW-7             | MQD0845-03    | Water  | 04/19/07 09:41 | 04/19/07 19:55 |
| MW-11            | MQD0845-04    | Water  | 04/19/07 06:04 | 04/19/07 19:55 |
| MW-12            | MQD0845-05    | Water  | 04/19/07 05:55 | 04/19/07 19:55 |
| MW-13            | MQD0845-06    | Water  | 04/19/07 07:57 | 04/19/07 19:55 |
| VW-1             | MQD0845-07    | Water  | 04/19/07 11:25 | 04/19/07 19:55 |
| TB-6113-04192007 | MQD0845-08    | Water  | 04/19/07 05:00 | 04/19/07 19:55 |

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

These samples were received with no custody seals.

Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #6113, Livermore, CA  
Project Number: G0C54-0015  
Project Manager: Jay Johnson

MQD0845  
Reported:  
05/04/07 12:58

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

| Analyte                                                                          | Result | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------------------------------------------------------------------|--------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>MW-4 (MQD0845-01) Water</b> Sampled: 04/19/07 07:30 Received: 04/19/07 19:55  |        |                 |        |          |         |          |          |           |       |
| Gasoline Range Organics (C4-C12)                                                 | ND     | 50              | ug/l   | 1        | 7D27035 | 04/27/07 | 04/27/07 | LUFT GCMS |       |
| Surrogate: 1,2-Dichloroethane-d4                                                 |        | 111 %           | 60-125 |          | "       | "        | "        | "         |       |
| <b>MW-6 (MQD0845-02) Water</b> Sampled: 04/19/07 10:36 Received: 04/19/07 19:55  |        |                 |        |          |         |          |          |           |       |
| Gasoline Range Organics (C4-C12)                                                 | 970    | 500             | ug/l   | 10       | 7E01004 | 05/01/07 | 05/01/07 | LUFT GCMS |       |
| Surrogate: 1,2-Dichloroethane-d4                                                 |        | 80 %            | 60-125 |          | "       | "        | "        | "         |       |
| <b>MW-7 (MQD0845-03) Water</b> Sampled: 04/19/07 09:41 Received: 04/19/07 19:55  |        |                 |        |          |         |          |          |           |       |
| Gasoline Range Organics (C4-C12)                                                 | ND     | 50              | ug/l   | 1        | 7D27035 | 04/27/07 | 04/28/07 | LUFT GCMS |       |
| Surrogate: 1,2-Dichloroethane-d4                                                 |        | 109 %           | 60-125 |          | "       | "        | "        | "         |       |
| <b>MW-11 (MQD0845-04) Water</b> Sampled: 04/19/07 06:04 Received: 04/19/07 19:55 |        |                 |        |          |         |          |          |           |       |
| Gasoline Range Organics (C4-C12)                                                 | ND     | 50              | ug/l   | 1        | 7D27035 | 04/27/07 | 04/28/07 | LUFT GCMS |       |
| Surrogate: 1,2-Dichloroethane-d4                                                 |        | 121 %           | 60-125 |          | "       | "        | "        | "         |       |
| <b>MW-12 (MQD0845-05) Water</b> Sampled: 04/19/07 05:55 Received: 04/19/07 19:55 |        |                 |        |          |         |          |          |           |       |
| Gasoline Range Organics (C4-C12)                                                 | ND     | 50              | ug/l   | 1        | 7D27035 | 04/27/07 | 04/27/07 | LUFT GCMS |       |
| Surrogate: 1,2-Dichloroethane-d4                                                 |        | 111 %           | 60-125 |          | "       | "        | "        | "         |       |
| <b>MW-13 (MQD0845-06) Water</b> Sampled: 04/19/07 07:57 Received: 04/19/07 19:55 |        |                 |        |          |         |          |          |           |       |
| Gasoline Range Organics (C4-C12)                                                 | 14000  | 2500            | ug/l   | 50       | 7D27035 | 04/27/07 | 04/28/07 | LUFT GCMS |       |
| Surrogate: 1,2-Dichloroethane-d4                                                 |        | 118 %           | 60-125 |          | "       | "        | "        | "         |       |
| <b>VW-1 (MQD0845-07) Water</b> Sampled: 04/19/07 11:25 Received: 04/19/07 19:55  |        |                 |        |          |         |          |          |           |       |
| Gasoline Range Organics (C4-C12)                                                 | 250    | 50              | ug/l   | 1        | 7D27035 | 04/27/07 | 04/28/07 | LUFT GCMS |       |
| Surrogate: 1,2-Dichloroethane-d4                                                 |        | 112 %           | 60-125 |          | "       | "        | "        | "         |       |



Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #6113, Livermore, CA  
Project Number: G0C54-0015  
Project Manager: Jay Johnson

MQD0845  
Reported:  
05/04/07 12:58

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

| Analyte                                                                                       | Result      | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------------------------------------------------------------------|-------------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>MW-4 (MQD0845-01) Water</b> <b>Sampled: 04/19/07 07:30</b> <b>Received: 04/19/07 19:55</b> |             |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether                                                                        | 0.66        | 0.50            | ug/l   | 1        | 7D27035 | 04/27/07 | 04/27/07 | EPA 8260B |       |
| Benzene                                                                                       | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol                                                                            | ND          | 20              | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether                                                                            | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)                                                                       | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane                                                                            | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethanol                                                                                       | ND          | 300             | "      | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether                                                                        | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                                                                  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Methyl tert-butyl ether                                                                       | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Toluene                                                                                       | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Xylenes (total)                                                                               | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Dibromofluoromethane</i>                                                        |             | 102 %           | 75-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>                                                       |             | 111 %           | 60-125 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Toluene-d8</i>                                                                  |             | 94 %            | 80-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>                                                        |             | 90 %            | 60-135 | "        | "       | "        | "        | "         |       |
| <b>MW-6 (MQD0845-02) Water</b> <b>Sampled: 04/19/07 10:36</b> <b>Received: 04/19/07 19:55</b> |             |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether                                                                        | ND          | 25              | ug/l   | 50       | 7D27035 | 04/27/07 | 04/28/07 | EPA 8260B |       |
| Benzene                                                                                       | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol                                                                            | ND          | 1000            | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether                                                                            | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)                                                                       | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane                                                                            | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| Ethanol                                                                                       | ND          | 15000           | "      | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether                                                                        | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                                                                  | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>                                                                | <b>2200</b> | 25              | "      | "        | "       | "        | "        | "         |       |
| Toluene                                                                                       | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| Xylenes (total)                                                                               | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Dibromofluoromethane</i>                                                        |             | 106 %           | 75-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>                                                       |             | 114 %           | 60-125 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Toluene-d8</i>                                                                  |             | 96 %            | 80-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>                                                        |             | 88 %            | 60-135 | "        | "       | "        | "        | "         |       |

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MQD0845  
Reported:  
05/04/07 12:58

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

| Analyte                                                                                        | Result    | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------------------------------------------------------------------|-----------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>MW-7 (MQD0845-03) Water</b> <b>Sampled: 04/19/07 09:41</b> <b>Received: 04/19/07 19:55</b>  |           |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether                                                                         | ND        | 0.50            | ug/l   | 1        | 7D27035 | 04/27/07 | 04/28/07 | EPA 8260B |       |
| Benzene                                                                                        | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol                                                                             | ND        | 20              | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether                                                                             | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)                                                                        | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane                                                                             | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethanol                                                                                        | ND        | 300             | "      | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether                                                                         | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                                                                   | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Methyl tert-butyl ether                                                                        | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Toluene                                                                                        | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Xylenes (total)                                                                                | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Dibromofluoromethane</i>                                                         |           | 104 %           | 75-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>                                                        |           | 109 %           | 60-125 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Toluene-d8</i>                                                                   |           | 91 %            | 80-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>                                                         |           | 86 %            | 60-135 | "        | "       | "        | "        | "         |       |
| <b>MW-11 (MQD0845-04) Water</b> <b>Sampled: 04/19/07 06:04</b> <b>Received: 04/19/07 19:55</b> |           |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether                                                                         | ND        | 0.50            | ug/l   | 1        | 7D27035 | 04/27/07 | 04/28/07 | EPA 8260B |       |
| Benzene                                                                                        | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol                                                                             | ND        | 20              | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether                                                                             | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)                                                                        | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane                                                                             | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethanol                                                                                        | ND        | 300             | "      | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether                                                                         | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                                                                   | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>                                                                 | <b>12</b> | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Toluene                                                                                        | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Xylenes (total)                                                                                | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Dibromofluoromethane</i>                                                         |           | 108 %           | 75-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>                                                        |           | 121 %           | 60-125 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Toluene-d8</i>                                                                   |           | 92 %            | 80-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>                                                         |           | 88 %            | 60-135 | "        | "       | "        | "        | "         |       |

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MQD0845  
Reported:  
05/04/07 12:58

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

| Analyte                                                                          | Result      | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------------------------------------------------------------------|-------------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>MW-12 (MQD0845-05) Water</b> Sampled: 04/19/07 05:55 Received: 04/19/07 19:55 |             |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether                                                           | ND          | 0.50            | ug/l   | 1        | 7D27035 | 04/27/07 | 04/27/07 | EPA 8260B |       |
| Benzene                                                                          | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol                                                               | ND          | 20              | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether                                                               | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)                                                          | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane                                                               | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethanol                                                                          | ND          | 300             | "      | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether                                                           | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                                                     | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Methyl tert-butyl ether                                                          | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Toluene                                                                          | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Xylenes (total)                                                                  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Dibromofluoromethane</i>                                           |             | 106 %           | 75-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>                                          |             | 111 %           | 60-125 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Toluene-d8</i>                                                     |             | 94 %            | 80-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>                                           |             | 88 %            | 60-135 | "        | "       | "        | "        | "         |       |
| <b>MW-13 (MQD0845-06) Water</b> Sampled: 04/19/07 07:57 Received: 04/19/07 19:55 |             |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether                                                           | ND          | 25              | ug/l   | 50       | 7D27035 | 04/27/07 | 04/28/07 | EPA 8260B |       |
| <b>Benzene</b>                                                                   | <b>60</b>   | 25              | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol                                                               | ND          | 1000            | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether                                                               | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)                                                          | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane                                                               | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| Ethanol                                                                          | ND          | 15000           | "      | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether                                                           | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>                                                              | <b>1800</b> | 25              | "      | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>                                                   | <b>330</b>  | 25              | "      | "        | "       | "        | "        | "         |       |
| Toluene                                                                          | ND          | 25              | "      | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b>                                                           | <b>640</b>  | 25              | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Dibromofluoromethane</i>                                           |             | 106 %           | 75-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>                                          |             | 118 %           | 60-125 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Toluene-d8</i>                                                     |             | 101 %           | 80-120 | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>                                           |             | 95 %            | 60-135 | "        | "       | "        | "        | "         |       |

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Reported:  
05/04/07 12:58

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

| Analyte                                                                                       | Result     | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------------------------------------------------------------------|------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>VW-I (MQD0845-07) Water</b> <b>Sampled: 04/19/07 11:25</b> <b>Received: 04/19/07 19:55</b> |            |                 |       |          |         |          |          |           |       |
| tert-Amyl methyl ether                                                                        | ND         | 0.50            | ug/l  | 1        | 7D27035 | 04/27/07 | 04/28/07 | EPA 8260B |       |
| <b>Benzene</b>                                                                                | <b>1.6</b> | <b>0.50</b>     | "     | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol                                                                            | ND         | 20              | "     | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether                                                                            | ND         | 0.50            | "     | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)                                                                       | ND         | 0.50            | "     | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane                                                                            | ND         | 0.50            | "     | "        | "       | "        | "        | "         |       |
| Ethanol                                                                                       | ND         | 300             | "     | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether                                                                        | ND         | 0.50            | "     | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>                                                                           | <b>4.7</b> | <b>0.50</b>     | "     | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>                                                                | <b>3.0</b> | <b>0.50</b>     | "     | "        | "       | "        | "        | "         |       |
| Toluene                                                                                       | ND         | 0.50            | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b>                                                                        | <b>1.3</b> | <b>0.50</b>     | "     | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Dibromofluoromethane</i>                                                        |            | 102 %           |       | 75-120   | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>                                                       |            | 112 %           |       | 60-125   | "       | "        | "        | "         |       |
| <i>Surrogate: Toluene-d8</i>                                                                  |            | 101 %           |       | 80-120   | "       | "        | "        | "         |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>                                                        |            | 106 %           |       | 60-135   | "       | "        | "        | "         |       |

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MQD0845  
Reported:  
05/04/07 12:58

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 7D27035 - EPA 5030B P/T / LUFT GCMS**

| <b>Blank (7D27035-BLK1)</b>                         |      |    |      |      |  |     |        |    |    |                               |
|-----------------------------------------------------|------|----|------|------|--|-----|--------|----|----|-------------------------------|
|                                                     |      |    |      |      |  |     |        |    |    | Prepared & Analyzed: 04/27/07 |
| Gasoline Range Organics (C4-C12)                    | ND   | 50 | ug/l |      |  |     |        |    |    |                               |
| Surrogate: 1,2-Dichloroethane-d4                    | 2.71 |    | "    | 2.50 |  | 108 | 60-125 |    |    |                               |
| <b>Laboratory Control Sample (7D27035-BS2)</b>      |      |    |      |      |  |     |        |    |    |                               |
|                                                     |      |    |      |      |  |     |        |    |    | Prepared & Analyzed: 04/27/07 |
| Gasoline Range Organics (C4-C12)                    | 530  | 50 | ug/l | 500  |  | 106 | 65-120 |    |    |                               |
| Surrogate: 1,2-Dichloroethane-d4                    | 2.78 |    | "    | 2.50 |  | 111 | 60-125 |    |    |                               |
| <b>Laboratory Control Sample Dup (7D27035-BSD2)</b> |      |    |      |      |  |     |        |    |    |                               |
|                                                     |      |    |      |      |  |     |        |    |    | Prepared & Analyzed: 04/27/07 |
| Gasoline Range Organics (C4-C12)                    | 459  | 50 | ug/l | 500  |  | 92  | 65-120 | 14 | 20 |                               |
| Surrogate: 1,2-Dichloroethane-d4                    | 2.81 |    | "    | 2.50 |  | 112 | 60-125 |    |    |                               |

**Batch 7E01004 - EPA 5030B P/T / LUFT GCMS**

| <b>Blank (7E01004-BLK1)</b>                         |      |    |      |      |  |    |        |     |    |                               |
|-----------------------------------------------------|------|----|------|------|--|----|--------|-----|----|-------------------------------|
|                                                     |      |    |      |      |  |    |        |     |    | Prepared & Analyzed: 05/01/07 |
| Gasoline Range Organics (C4-C12)                    | ND   | 50 | ug/l |      |  |    |        |     |    |                               |
| Surrogate: 1,2-Dichloroethane-d4                    | 2.45 |    | "    | 2.50 |  | 98 | 60-125 |     |    |                               |
| <b>Laboratory Control Sample (7E01004-BS2)</b>      |      |    |      |      |  |    |        |     |    |                               |
|                                                     |      |    |      |      |  |    |        |     |    | Prepared & Analyzed: 05/01/07 |
| Gasoline Range Organics (C4-C12)                    | 475  | 50 | ug/l | 500  |  | 95 | 65-120 |     |    |                               |
| Surrogate: 1,2-Dichloroethane-d4                    | 2.31 |    | "    | 2.50 |  | 92 | 60-125 |     |    |                               |
| <b>Laboratory Control Sample Dup (7E01004-BSD2)</b> |      |    |      |      |  |    |        |     |    |                               |
|                                                     |      |    |      |      |  |    |        |     |    | Prepared & Analyzed: 05/01/07 |
| Gasoline Range Organics (C4-C12)                    | 472  | 50 | ug/l | 500  |  | 94 | 65-120 | 0.6 | 20 |                               |
| Surrogate: 1,2-Dichloroethane-d4                    | 2.39 |    | "    | 2.50 |  | 96 | 60-125 |     |    |                               |

Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #6113, Livermore, CA  
Project Number: G0C54-0015  
Project Manager: Jay Johnson

MQD0845  
Reported:  
05/04/07 12:58

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 7D27035 - EPA 5030B P/T / EPA 8260B**

| Blank (7D27035-BLK1)                    |      |      |      | Prepared & Analyzed: 04/27/07 |  |     |        |  |  |  |
|-----------------------------------------|------|------|------|-------------------------------|--|-----|--------|--|--|--|
| tert-Amyl methyl ether                  | ND   | 0.50 | ug/l |                               |  |     |        |  |  |  |
| Benzene                                 | ND   | 0.50 | "    |                               |  |     |        |  |  |  |
| tert-Butyl alcohol                      | ND   | 20   | "    |                               |  |     |        |  |  |  |
| Di-isopropyl ether                      | ND   | 0.50 | "    |                               |  |     |        |  |  |  |
| 1,2-Dibromoethane (EDB)                 | ND   | 0.50 | "    |                               |  |     |        |  |  |  |
| 1,2-Dichloroethane                      | ND   | 0.50 | "    |                               |  |     |        |  |  |  |
| Ethanol                                 | ND   | 300  | "    |                               |  |     |        |  |  |  |
| Ethyl tert-butyl ether                  | ND   | 0.50 | "    |                               |  |     |        |  |  |  |
| Ethylbenzene                            | ND   | 0.50 | "    |                               |  |     |        |  |  |  |
| Methyl tert-butyl ether                 | ND   | 0.50 | "    |                               |  |     |        |  |  |  |
| Toluene                                 | ND   | 0.50 | "    |                               |  |     |        |  |  |  |
| Xylenes (total)                         | ND   | 0.50 | "    |                               |  |     |        |  |  |  |
| <i>Surrogate: Dibromofluoromethane</i>  | 2.56 |      | "    | 2.50                          |  | 102 | 75-120 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 2.71 |      | "    | 2.50                          |  | 108 | 60-125 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 2.32 |      | "    | 2.50                          |  | 93  | 80-120 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 2.18 |      | "    | 2.50                          |  | 87  | 60-135 |  |  |  |

| Laboratory Control Sample (7D27035-BS1) |      |      |      | Prepared & Analyzed: 04/27/07 |  |     |        |  |  |  |
|-----------------------------------------|------|------|------|-------------------------------|--|-----|--------|--|--|--|
| tert-Amyl methyl ether                  | 11.5 | 0.50 | ug/l | 10.0                          |  | 115 | 65-135 |  |  |  |
| Benzene                                 | 10.6 | 0.50 | "    | 10.0                          |  | 106 | 75-120 |  |  |  |
| tert-Butyl alcohol                      | 220  | 20   | "    | 200                           |  | 110 | 60-135 |  |  |  |
| Di-isopropyl ether                      | 11.4 | 0.50 | "    | 10.0                          |  | 114 | 70-130 |  |  |  |
| 1,2-Dibromoethane (EDB)                 | 12.1 | 0.50 | "    | 10.0                          |  | 121 | 80-135 |  |  |  |
| 1,2-Dichloroethane                      | 12.3 | 0.50 | "    | 10.0                          |  | 123 | 70-125 |  |  |  |
| Ethanol                                 | 217  | 300  | "    | 200                           |  | 108 | 15-150 |  |  |  |
| Ethyl tert-butyl ether                  | 11.7 | 0.50 | "    | 10.0                          |  | 117 | 65-130 |  |  |  |
| Ethylbenzene                            | 11.2 | 0.50 | "    | 10.0                          |  | 112 | 75-120 |  |  |  |
| Methyl tert-butyl ether                 | 12.0 | 0.50 | "    | 10.0                          |  | 120 | 50-140 |  |  |  |
| Toluene                                 | 10.9 | 0.50 | "    | 10.0                          |  | 109 | 75-120 |  |  |  |
| Xylenes (total)                         | 34.1 | 0.50 | "    | 30.0                          |  | 114 | 75-120 |  |  |  |
| <i>Surrogate: Dibromofluoromethane</i>  | 2.66 |      | "    | 2.50                          |  | 106 | 75-120 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 2.82 |      | "    | 2.50                          |  | 113 | 60-125 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 2.46 |      | "    | 2.50                          |  | 98  | 80-120 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 2.48 |      | "    | 2.50                          |  | 99  | 60-135 |  |  |  |

Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #6113, Livermore, CA  
Project Number: G0C54-0015  
Project Manager: Jay Johnson

MQD0845  
Reported:  
05/04/07 12:58

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 7D27035 - EPA 5030B P/T / EPA 8260B**

| Matrix Spike (7D27035-MS1)       | Source: MQD0845-05 |      |      | Prepared & Analyzed: 04/27/07 |    |     |        |  |  |    |
|----------------------------------|--------------------|------|------|-------------------------------|----|-----|--------|--|--|----|
| tert-Amyl methyl ether           | 11.6               | 0.50 | ug/l | 10.0                          | ND | 116 | 65-135 |  |  |    |
| Benzene                          | 11.1               | 0.50 | "    | 10.0                          | ND | 111 | 75-120 |  |  |    |
| tert-Butyl alcohol               | 239                | 20   | "    | 200                           | ND | 120 | 60-135 |  |  |    |
| Di-isopropyl ether               | 11.8               | 0.50 | "    | 10.0                          | ND | 118 | 70-130 |  |  |    |
| 1,2-Dibromoethane (EDB)          | 12.8               | 0.50 | "    | 10.0                          | ND | 128 | 80-135 |  |  |    |
| 1,2-Dichloroethane               | 12.8               | 0.50 | "    | 10.0                          | ND | 128 | 70-125 |  |  | LM |
| Ethanol                          | 258                | 300  | "    | 200                           | ND | 129 | 15-150 |  |  |    |
| Ethyl tert-butyl ether           | 11.9               | 0.50 | "    | 10.0                          | ND | 119 | 65-130 |  |  |    |
| Ethylbenzene                     | 12.0               | 0.50 | "    | 10.0                          | ND | 120 | 75-120 |  |  |    |
| Methyl tert-butyl ether          | 12.2               | 0.50 | "    | 10.0                          | ND | 122 | 50-140 |  |  |    |
| Toluene                          | 11.5               | 0.50 | "    | 10.0                          | ND | 115 | 75-120 |  |  |    |
| Xylenes (total)                  | 37.0               | 0.50 | "    | 30.0                          | ND | 123 | 75-120 |  |  | LM |
| Surrogate: Dibromofluoromethane  | 2.61               |      | "    | 2.50                          |    | 104 | 75-120 |  |  |    |
| Surrogate: 1,2-Dichloroethane-d4 | 2.84               |      | "    | 2.50                          |    | 114 | 60-125 |  |  |    |
| Surrogate: Toluene-d8            | 2.41               |      | "    | 2.50                          |    | 96  | 80-120 |  |  |    |
| Surrogate: 4-Bromofluorobenzene  | 2.61               |      | "    | 2.50                          |    | 104 | 60-135 |  |  |    |

| Matrix Spike Dup (7D27035-MSD1)  | Source: MQD0845-05 |      |      | Prepared & Analyzed: 04/27/07 |    |     |        |     |    |  |
|----------------------------------|--------------------|------|------|-------------------------------|----|-----|--------|-----|----|--|
| tert-Amyl methyl ether           | 11.4               | 0.50 | ug/l | 10.0                          | ND | 114 | 65-135 | 2   | 25 |  |
| Benzene                          | 10.7               | 0.50 | "    | 10.0                          | ND | 107 | 75-120 | 4   | 20 |  |
| tert-Butyl alcohol               | 228                | 20   | "    | 200                           | ND | 114 | 60-135 | 5   | 25 |  |
| Di-isopropyl ether               | 11.4               | 0.50 | "    | 10.0                          | ND | 114 | 70-130 | 3   | 25 |  |
| 1,2-Dibromoethane (EDB)          | 12.1               | 0.50 | "    | 10.0                          | ND | 121 | 80-135 | 6   | 30 |  |
| 1,2-Dichloroethane               | 12.4               | 0.50 | "    | 10.0                          | ND | 124 | 70-125 | 3   | 25 |  |
| Ethanol                          | 238                | 300  | "    | 200                           | ND | 119 | 15-150 | 8   | 25 |  |
| Ethyl tert-butyl ether           | 11.8               | 0.50 | "    | 10.0                          | ND | 118 | 65-130 | 0.8 | 25 |  |
| Ethylbenzene                     | 11.6               | 0.50 | "    | 10.0                          | ND | 116 | 75-120 | 3   | 20 |  |
| Methyl tert-butyl ether          | 12.1               | 0.50 | "    | 10.0                          | ND | 121 | 50-140 | 0.8 | 25 |  |
| Toluene                          | 11.1               | 0.50 | "    | 10.0                          | ND | 111 | 75-120 | 4   | 25 |  |
| Xylenes (total)                  | 35.2               | 0.50 | "    | 30.0                          | ND | 117 | 75-120 | 5   | 20 |  |
| Surrogate: Dibromofluoromethane  | 2.74               |      | "    | 2.50                          |    | 110 | 75-120 |     |    |  |
| Surrogate: 1,2-Dichloroethane-d4 | 2.79               |      | "    | 2.50                          |    | 112 | 60-125 |     |    |  |
| Surrogate: Toluene-d8            | 2.43               |      | "    | 2.50                          |    | 97  | 80-120 |     |    |  |
| Surrogate: 4-Bromofluorobenzene  | 2.57               |      | "    | 2.50                          |    | 103 | 60-135 |     |    |  |

TestAmerica - Morgan Hill, CA

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

Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #6113, Livermore, CA  
Project Number: G0C54-0015  
Project Manager: Jay Johnson

MQD0845  
Reported:  
05/04/07 12:58

**Notes and Definitions**

LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference





# Chain of Custody Record

Project Name: ARCO 6113  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 6113  
 State or Lead Regulatory Agency: \_\_\_\_\_  
 Requested Due Date (mm/dd/yy): 04/19/07

|                                 |                   |
|---------------------------------|-------------------|
| On-site Time: <u>0400</u>       | Temp: <u>40.3</u> |
| Off-site Time: <u>1140</u>      | Temp: <u>60.5</u> |
| Sky Conditions: <u>OVERCAST</u> |                   |
| Meteorological Events: _____    |                   |
| Wind Speed: _____               | Direction: _____  |

|                                                   |                                                                |                                                           |
|---------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------|
| Lab Name: <u>TestAmerica</u>                      | BP/AR Facility No.: <u>6113</u>                                | Consultant/Contractor: <u>Stratus Environmental, Inc.</u> |
| Address: <u>885 Jarvis Drive</u>                  | BP/AR Facility Address: <u>785 E. Stanley Blvd., Livermore</u> | Address: <u>3330 Cameron Park Drive, Suite 550</u>        |
| <u>Morgan Hill, CA 95937</u>                      | Site Lat/Long: _____                                           | <u>Cameron Park, CA 95682</u>                             |
| Lab PM: <u>Lisa Race</u>                          | California Global ID No.: <u>T0600100111</u>                   | Consultant/Contractor Project No.: <u>E6113-04</u>        |
| Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>  | Enfos Project No.: <u>G0C54-0015</u>                           | Consultant/Contractor PM: <u>Jay Johnson</u>              |
| BP/AR PM Contact: <u>Paul Supple</u>              | Provision or OOC (circle one) <u>Provision</u>                 | Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>          |
| Address: <u>2010 Crow Canyon Place, Suite 150</u> | Phase/WBS: <u>04-Monitoring</u>                                | Report Type & QC Level: <u>Level 1 with EDF</u>           |
| <u>San Ramon, CA</u>                              | Sub Phase/Task: <u>03-Analytical</u>                           | E-mail EDD To: <u>shaves@stratusinc.net</u>               |
| Tele/Fax: <u>925-275-3506</u>                     | Cost Element: <u>01-Contractor labor</u>                       | Invoice to: <u>Atlantic Richfield Co.</u>                 |

| Item No. | Sample Description | Time | Date     | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |         |         |     |     | Sample Point Lat/Long and Comments |  |      |
|----------|--------------------|------|----------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|---------|---------|-----|-----|------------------------------------|--|------|
|          |                    |      |          | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GROBTEX/Oxy*       | 1,2-DCA | Ethanol | EDB | DRO |                                    |  |      |
| 1        | MW-4               | 0730 | 04/19/07 | X          |              |     | 01             | 3                 |              |                                |                  |     |          |                    | X       | X       | X   | X   |                                    |  |      |
| 2        | MW-6               | 1036 |          |            |              |     | 02             | 3                 |              |                                |                  |     |          |                    | X       | X       | X   | X   |                                    |  |      |
| 3        | MW-7               | 0944 |          |            |              |     | 03             | 3                 |              |                                |                  |     |          |                    | X       | X       | X   | X   |                                    |  |      |
| 4        | MW-11              | 0604 |          |            |              |     | 04             | 3                 |              |                                |                  |     |          |                    | X       | X       | X   | X   |                                    |  |      |
| 5        | MW-12              | 0935 |          |            |              |     | 05             | 6                 |              |                                |                  |     |          |                    | X       | X       | X   | X   |                                    |  |      |
| 6        | MW-13              | 0757 |          |            |              |     | 06             | 3                 |              |                                |                  |     |          |                    | X       | X       | X   | X   |                                    |  |      |
| 7        | VW-1               | 1125 |          | X          |              |     | 07             | 3                 |              |                                |                  |     |          |                    | X       | X       | X   | X   |                                    |  |      |
| 8        |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                    |         |         |     |     |                                    |  |      |
| 9        | TB-6113-04/92007   | 0500 | 04/19/07 | X          |              |     | 08             | 2                 |              |                                |                  |     |          |                    |         |         |     |     |                                    |  |      |
| 10       |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                    |         |         |     |     |                                    |  | HOLD |

|                                       |                                                      |                       |                   |                                                  |                      |                   |
|---------------------------------------|------------------------------------------------------|-----------------------|-------------------|--------------------------------------------------|----------------------|-------------------|
| Sampler's Name: <u>Vince Zambetta</u> | Relinquished By / Affiliation: <u>Vince Zambetta</u> | Date: <u>04-19-07</u> | Time: <u>1343</u> | Accepted By / Affiliation: <u>Clayton J. ...</u> | Date: <u>4-19-07</u> | Time: <u>1343</u> |
| Sampler's Company: <u>STRATUS</u>     | Relinquished By / Affiliation: <u>Clayton J. ...</u> | Date: <u>4-19-07</u>  | Time: <u>1605</u> | Accepted By / Affiliation: <u>Clayton J. ...</u> | Date: <u>4/19</u>    | Time: <u>1625</u> |
| Shipment Date: <u>4-19-07</u>         | Relinquished By / Affiliation: <u>Clayton J. ...</u> | Date: <u>4/19/07</u>  | Time: <u>1955</u> | Accepted By / Affiliation: <u>JULIEN G.</u>      | Date: <u>4/19</u>    | Time: <u>1955</u> |
| Shipment Method: <u>STRATUS</u>       |                                                      |                       |                   |                                                  |                      |                   |
| Shipment Tracking No: _____           |                                                      |                       |                   |                                                  |                      |                   |

Special Instructions: Please cc results to rmiller@broadbentinc.com

Custody Seals In Place: Yes/(No) | Temp Blank: Yes/No | Cooler Temp on Receipt: 4.8 (F)C | Trip Blank: Yes/No | MS/MSD Sample Submitted: Yes/No

# TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO (6113)  
 REC. BY (PRINT) JULIE NG.  
 WORKORDER: M000845

DATE REC'D AT LAB: 4/19/07  
 TIME REC'D AT LAB: 1955  
 DATE LOGGED IN: 4-23-07

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

| CIRCLE THE APPROPRIATE RESPONSE                                                                                                                                                   |                                            | LAB SAMPLE # | CLIENT ID | CONTAINER DESCRIPTION | PRESERVATIVE | pH | SAMPLE MATRIX | DATE SAMPLED | REMARKS: CONDITION (ETC.)    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------|-----------|-----------------------|--------------|----|---------------|--------------|------------------------------|
| 1. Custody Seal(s)                                                                                                                                                                | Present / Absent<br>Intact / Broken*       |              |           |                       |              |    |               |              | JULIE NG.<br>4/20/07<br>SECT |
| 2. Chain-of-Custody                                                                                                                                                               | Present / Absent*                          |              |           |                       |              |    |               |              |                              |
| 3. Traffic Reports or Packing List:                                                                                                                                               | Present / Absent                           |              |           |                       |              |    |               |              |                              |
| 4. Airbill:                                                                                                                                                                       | Airbill / Sticker<br>Present / Absent      |              |           |                       |              |    |               |              |                              |
| 5. Airbill #:                                                                                                                                                                     |                                            |              |           |                       |              |    |               |              |                              |
| 6. Sample Labels:                                                                                                                                                                 | Present / Absent                           |              |           |                       |              |    |               |              |                              |
| 7. Sample IDs:                                                                                                                                                                    | Listed / Not Listed<br>on Chain-of-Custody |              |           |                       |              |    |               |              |                              |
| 8. Sample Condition:                                                                                                                                                              | Intact / Broken* /<br>Leaking*             |              |           |                       |              |    |               |              |                              |
| 9. Does information on chain-of-custody, traffic reports and sample labels agree?                                                                                                 | Yes / No*                                  |              |           |                       |              |    |               |              |                              |
| 10. Sample received within hold time?                                                                                                                                             | Yes / No*                                  |              |           |                       |              |    |               |              |                              |
| 11. Adequate sample volume received?                                                                                                                                              | Yes / No*                                  |              |           |                       |              |    |               |              |                              |
| 12. Proper preservatives used?                                                                                                                                                    | Yes / No*                                  |              |           |                       |              |    |               |              |                              |
| 13. Trip Blank / Temp Blank Received? (circle which, if yes)                                                                                                                      | Yes / No*                                  |              |           |                       |              |    |               |              |                              |
| 14. Read Temp: <u>4.8°C</u><br>Corrected Temp: <u>↓</u><br>Is corrected temp 4 +/-2°C? <u>Yes</u> / No**<br><small>(Acceptance range for samples requiring thermal pres.)</small> |                                            |              |           |                       |              |    |               |              |                              |

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



### Chain of Custody Record

Project Name: ARCO 6113  
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 6113  
 State or Lead Regulatory Agency: \_\_\_\_\_  
 Requested Due Date (mm/dd/yy): 04/19/07  
STD TAT

|                                            |                   |
|--------------------------------------------|-------------------|
| On-site Time: <del>11:40</del> <u>0400</u> | Temp: <u>40'3</u> |
| Off-site Time: <u>1140</u>                 | Temp: <u>60'5</u> |
| Sky Conditions: <u>OVERCAST</u>            |                   |
| Meteorological Events: _____               |                   |
| Wind Speed: _____                          | Direction: _____  |

|                                                   |                                                                |                                                           |
|---------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------|
| Lab Name: <u>TestAmerica</u>                      | BP/AR Facility No.: <u>6113</u>                                | Consultant/Contractor: <u>Stratus Environmental, Inc.</u> |
| Address: <u>885 Jarvis Drive</u>                  | BP/AR Facility Address: <u>785 E. Stanley Blvd., Livermore</u> | Address: <u>3330 Cameron Park Drive, Suite 550</u>        |
| Morgan Hill, CA 95937                             | Site Lat/Long: _____                                           | <u>Cameron Park, CA 95682</u>                             |
| Lab PM: <u>Lisa Race</u>                          | California Global ID No.: <u>T0600100111</u>                   | Consultant/Contractor Project No.: <u>E6113-04</u>        |
| Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>  | Enfos Project No.: <u>G0C54-0015</u>                           | Consultant/Contractor PM: <u>Jay Johnson</u>              |
| BP/AR PM Contact: <u>Paul Supple</u>              | Provision or OOC (circle one) <u>Provision</u>                 | Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>          |
| Address: <u>2010 Crow Canyon Place, Suite 150</u> | Phase/WBS: <u>04-Monitoring</u>                                | Report Type & QC Level: <u>Level 1 with EDF</u>           |
| <u>San Ramon, CA</u>                              | Sub Phase/Task: <u>03-Analytical</u>                           | E-mail EDD To: <u>shaves@stratusinc.net</u>               |
| Tele/Fax: <u>925-275-3506</u>                     | Cost Element: <u>01-Contractor labor</u>                       | Invoice to: <u>Atlantic Richfield Co.</u>                 |

| Item No. | Sample Description | Time | Date     | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |         |         |     |     | Sample Point Lat/Long and Comments |  |  |  |      |
|----------|--------------------|------|----------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|---------|---------|-----|-----|------------------------------------|--|--|--|------|
|          |                    |      |          | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GROBTEX/Oxy*       | 1,2-DCA | Ethanol | EDB | DRO |                                    |  |  |  |      |
| 1        | MW-4               | 0730 | 04/19/07 | X          |              |     | M000845        | 01                | 3            |                                |                  |     |          |                    |         | X       | X   | X   | X                                  |  |  |  |      |
| 2        | MW-6               | 1036 |          |            |              |     |                | 02                | 3            |                                |                  |     |          |                    |         | X       | X   | X   | X                                  |  |  |  |      |
| 3        | MW-7               | 0944 |          |            |              |     |                | 03                | 3            |                                |                  |     |          |                    |         | X       | X   | X   | X                                  |  |  |  |      |
| 4        | MW-11              | 0604 |          |            |              |     |                | 04                | 3            |                                |                  |     |          |                    |         | X       | X   | X   | X                                  |  |  |  |      |
| 5        | MW-12              | 0555 |          |            |              |     |                | 05                | 6            |                                |                  |     |          |                    |         | X       | X   | X   | X                                  |  |  |  |      |
| 6        | MW-13              | 0257 |          |            |              |     |                | 06                | 3            |                                |                  |     |          |                    |         | X       | X   | X   | X                                  |  |  |  |      |
| 7        | VW-1               | 1128 |          | X          |              |     |                | 07                | 3            |                                |                  |     |          |                    |         | X       | X   | X   | X                                  |  |  |  |      |
| 8        |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                    |         |         |     |     |                                    |  |  |  |      |
| 9        | TB-6113-04#92007   | 0520 | 04/19/07 | X          |              |     |                | 08                | 2            |                                |                  |     |          |                    |         |         |     |     |                                    |  |  |  |      |
| 10       |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                    |         |         |     |     |                                    |  |  |  | HOLD |

|                                                                            |                                                      |                                 |                             |                                                  |                      |                   |
|----------------------------------------------------------------------------|------------------------------------------------------|---------------------------------|-----------------------------|--------------------------------------------------|----------------------|-------------------|
| Sampler's Name: <u>Vince Zambetta</u>                                      | Relinquished By / Affiliation: <u>Vince Zambetta</u> | Date: <u>04/19/07</u>           | Time: <u>1343</u>           | Accepted By / Affiliation: <u>Clayton 91 SAC</u> | Date: <u>4/19/07</u> | Time: <u>1345</u> |
| Sampler's Company: <u>STRATUS</u>                                          | Shipment Date: <u>4-19-07</u>                        | Shipment Method: <u>STRATUS</u> | Shipment Tracking No: _____ | Accepted By / Affiliation: <u>JULIENG.</u>       | Date: <u>4/19</u>    | Time: <u>1625</u> |
| Special Instructions: <u>Please cc results to rmiller@broadbentinc.com</u> |                                                      |                                 |                             |                                                  | Date: <u>4/19</u>    | Time: <u>1950</u> |

Custody Seals In Place: Yes/(No) | Temp Blank: Yes/No | Cooler Temp on Receipt: 4.8 (F) | Trip Blank: Yes/No | MS/MSD Sample Submitted: Yes/No

# TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO (6113)  
 REC. BY (PRINT) JULIE NG.  
 WORKORDER: M000845

DATE REC'D AT LAB: 4/19/07  
 TIME REC'D AT LAB: 1955  
 DATE LOGGED IN: 4-23-07

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

| CIRCLE THE APPROPRIATE RESPONSE                                                                           |                                                   | LAB SAMPLE # | CLIENT ID | CONTAINER DESCRIPTION | PRESERVATIVE | pH | SAMPLE MATRIX | DATE SAMPLED | REMARKS: CONDITION (ETC.) |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------|-----------|-----------------------|--------------|----|---------------|--------------|---------------------------|
| 1. Custody Seal(s)                                                                                        | Present / <u>Absent</u><br>Intact / Broken*       |              |           |                       |              |    |               |              |                           |
| 2. Chain-of-Custody                                                                                       | <u>Present</u> / Absent*                          |              |           |                       |              |    |               |              |                           |
| 3. Traffic Reports or Packing List:                                                                       | Present / <u>Absent</u>                           |              |           |                       |              |    |               |              |                           |
| 4. Airbill:                                                                                               | Airbill / Sticker<br>Present / <u>Absent</u>      |              |           |                       |              |    |               |              |                           |
| 5. Airbill #:                                                                                             |                                                   |              |           |                       |              |    |               |              |                           |
| 6. Sample Labels:                                                                                         | <u>Present</u> / Absent                           |              |           |                       |              |    |               |              |                           |
| 7. Sample IDs:                                                                                            | <u>Listed</u> / Not Listed<br>on Chain-of-Custody |              |           |                       |              |    |               |              |                           |
| 8. Sample Condition:                                                                                      | <u>Intact</u> / Broken* /<br>Leaking*             |              |           |                       |              |    |               |              |                           |
| 9. Does information on chain-of-custody, traffic reports and sample labels agree?                         | <u>Yes</u> / No*                                  |              |           |                       |              |    |               |              |                           |
| 10. Sample received within hold time?                                                                     | <u>Yes</u> / No*                                  |              |           |                       |              |    |               |              |                           |
| 11. Adequate sample volume received?                                                                      | <u>Yes</u> / No*                                  |              |           |                       |              |    |               |              |                           |
| 12. Proper preservatives used?                                                                            | <u>Yes</u> / No*                                  |              |           |                       |              |    |               |              |                           |
| 13. Trip <u>Blank</u> / Temp <u>Blank</u> Received?<br>(circle which, if yes)                             | <u>Yes</u> / No*                                  |              |           |                       |              |    |               |              |                           |
| 14. Read Temp: <u>4.8°C</u><br>Corrected Temp: <u>✓</u><br>Is corrected temp 4 +/- 2°C? <u>Yes</u> / No** |                                                   |              |           |                       |              |    |               |              |                           |

JULIE NG.  
 4/20/07  
 SECUR

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

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

**APPENDIX B**

**GEOTRACKER UPLOAD CONFIRMATION**

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**Confirmation Number:** 7196444630

**Date/Time of Submittal:** 7/11/2007 1:59:17 PM

**Facility Global ID:** T0600100111

**Facility Name:** ARCO #06113

**Submittal Title:** 2Q07 GW Monitoring

**Submittal Type:** GW Monitoring Report

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

|                                                          |                                                                                                                                                                     |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCO #06113</b><br>785 STANLEY<br>LIVERMORE, CA 94550 | <b>Regional Board - Case #: 01-0119</b><br>SAN FRANCISCO BAY RWQCB (REGION 2)<br><b>Local Agency (lead agency) - Case #: RO0000393</b><br>ALAMEDA COUNTY LOP - (SP) |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| <u>CONF #</u>                | <u>TITLE</u>       | <u>QUARTER</u> |
|------------------------------|--------------------|----------------|
| 7196444630                   | 2Q07 GW Monitoring | Q2 2007        |
| <u>SUBMITTED BY</u>          | <u>SUBMIT DATE</u> | <u>STATUS</u>  |
| Broadbent & Associates, Inc. | 7/11/2007          | PENDING REVIEW |

## **SAMPLE DETECTIONS REPORT**

|                                                       |       |
|-------------------------------------------------------|-------|
| # FIELD POINTS SAMPLED                                | 7     |
| # FIELD POINTS WITH DETECTIONS                        | 5     |
| # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL | 3     |
| SAMPLE MATRIX TYPES                                   | WATER |

## **METHOD QA/QC REPORT**

|                               |                |
|-------------------------------|----------------|
| METHODS USED                  | 8260FA,8260TPH |
| TESTED FOR REQUIRED ANALYTES? | Y              |
| LAB NOTE DATA QUALIFIERS      | Y              |

## **QA/QC FOR 8021/8260 SERIES SAMPLES**

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

## **WATER SAMPLES FOR 8021/8260 SERIES**

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

**SOIL SAMPLES FOR 8021/8260 SERIES**

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

---

**FIELD QC SAMPLES**

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

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Your file has been successfully submitted!

|                             |                      |
|-----------------------------|----------------------|
| <b>Submittal Title:</b>     | 2Q07 GEO_WELL 6113   |
| <b>Facility Global ID:</b>  | T0600100111          |
| <b>Facility Name:</b>       | ARCO #06113          |
| <b>Submittal Date/Time:</b> | 7/11/2007 2:01:06 PM |
| <b>Confirmation Number:</b> | <b>7965148031</b>    |

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