

Atlantic Richfield Company (a BP affiliated company)

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Alameda County
Environmental Health

P.O. Box 1257

San Ramon, CA 94583 Phone: (925) 275-3801 Fax: (925) 275-3815

29 January 2008

Re: Fourth Quarter 2007 Ground-Water Monitoring Report

Former BP Station # 11124

3315 High Street
Oakland, California
ACEH Case # RO0000239

"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



Former BP Station #11124 3315 High Street Oakland, California

Fourth Quarter 2007 Ground-Water Monitoring Report

Prepared for

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

Prepared by



1324 Mangrove Avenue, Suite 212 Chico, California 95926 (530) 566-1400 www.broadbentinc.com

29 January 2008

Project No. 06-08-652



29 January 2008

Project No. 06-08-652

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

Attn.: Mr. Paul Supple

Re: Fourth Quarter 2007 Ground-Water Monitoring Report, Former BP Station #11124,

3315 High Street, Oakland, California; ACEH Case # RO0000239

Dear Mr. Supple:

Attached is the *Fourth Quarter 2007 Ground-Water Monitoring Report* for Former BP Station #11124 (herein referred to as Station #11124) located at 3315 High Street, Oakland California (Site). This report presents a summary of results from ground-water monitoring and sampling during Fourth Quarter 2007.

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.

Thomas A. Venus, P.E.

Senior Engineer

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

Principal Hydrogeologist

Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)

Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, California 95818

Electronic copy uploaded to GeoTracker

ARIZONA

CALIFORNIA

NEVADA

TEXAS

ROBERT H. MILLER

No. 4893

STATION #11124 QUARTERLY GROUND-WATER MONITORING REPORT

Facility: #11124 Address: 3315 High Street, Oakland, California

Environmental Business Manager: Mr. Paul Supple

Consulting Co./Contact Persons:

Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus

(530) 566-1400

Primary Agency/Regulatory ID No.: Alameda County Environmental Health (ACEH)

ACEH Case # RO0000239

Consultant Project No.: 06-08-652

Facility Permits/Permitting Agency: None

WORK PERFORMED THIS QUARTER (Fourth Quarter 2007):

1. Submitted Third Quarter 2007 Ground-Water Monitoring Report.

- 2. Submitted Preferential Pathway Survey. Report prepared by BAI, dated 15 October 2007.
- 3. Conducted ground-water monitoring/sampling for Fourth Quarter 2007. Work performed by Stratus Environmental, Inc. (Stratus) on 13 November 2007 and 20 December 2007.

WORK PROPOSED FOR NEXT QUARTER (First Quarter 2008):

- 1. Prepared and submitted Fourth Quarter 2007 Ground-Water Monitoring Report (contained herein).
- 2. Conduct quarterly ground-water monitoring/sampling for First Quarter 2008.

QUARTERLY RESULTS SUMMARY:

Current phase of project: Ground-Water Monitoring/Sampling

Frequency of ground-water Quarterly: Wells MW-1, MW-2, MW-4, MW-5 and MW-6

monitoring:

Frequency of ground-water sampling: Quarterly: Wells MW-1, MW-2, MW-4, MW-5 and MW-6

Is free product (FP) present on-site: No
Current remediation techniques: NA

Depth to ground water (below TOC): 9.28 (MW-4) to 10.52 (MW-1) on 11/13/2007

General ground-water flow direction:

9.28 (MW-4) to 10.52 (MW-1) on 11/2

Southwest

Approximate hydraulic gradient: 0.01 ft/ft

DISCUSSION:

Fourth quarter 2007 ground-water monitoring/sampling was conducted at Former BP Station #11124 on 13 November 2007 and 20 December 2007 by Stratus personnel. No irregularities were noted during water level gauging. Depth-to-water level measurements on 13 November 2007 ranged from 9.28 ft at MW-4 to 10.52 ft at MW-1. Resulting ground-water surface elevations ranged from 146.82 ft above mean sea level (msl) at well MW-1 to 144.88 ft above msl at well MW-6. Water level elevations were within the historic minimum and maximum ranges for each well, as summarized in Table 1. Water level elevations yielded a potentiometric ground-water flow direction and gradient of southwest at 0.01 ft/ft, consistent with historical data (see Table 3). Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground-water and respective ground-water elevations are summarized in Table 1. Potentiometric ground-water elevation contours are presented in Drawing 1.

Consistent with the current ground-water sampling schedule, water samples were collected from wells MW-1, MW-2, MW-4, MW-5, and MW-6. Select analyses were inadvertently not performed on

samples from wells MW-1, MW-2, and MW-4 during the regularly scheduled quarterly monitoring event on 13 November 2007. Therefore, wells MW-1, MW-2, and MW-4 were re-sampled on 20 December 2007 to perform the missing analyses. No other irregularities were reported during sampling. Samples were submitted to Test America Analytical Testing Corporation (Morgan Hill, California) under chain-of-custody protocol for laboratory analysis of Gasoline Range Organics (GRO, C4-C12) by LUFT GC/MS method; Diesel Range Organics (DRO, C10-C36) by EPA Method 8015B; Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and Methyl tert-butyl ether (MTBE), Ethyl tert-butyl ether (ETBE), Ethanol, 1,2-Dichloroethane (1,2-DCA), 1,2-Dibromomethane (EDB), Diisopropyl ether (DIPE), tert-Butyl alcohol (TBA), and tert-Amyl methyl ether (TAME) by EPA Method 8260B. The hydrocarbon result for GRO in samples collected from wells MW-5 and MW-6 were partly due to individual peak(s) in the quantitation range. No other analytical irregularities were reported during laboratory analysis of the samples.

Gasoline Range Organics (GRO) were detected above the laboratory reporting limit in two of the five wells sampled at concentrations up to 950 micrograms per liter (µg/L) in well MW-5. MTBE was detected above the laboratory reporting limit in three of the five wells sampled at concentrations up to 1,400 µg/L in well MW-5. The remaining fuel additives and oxygenates were not detected above their respective laboratory reporting limits in the five wells sampled this quarter. Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well. Historic laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 1. A copy of the laboratory analytical report, including chain-of-custody documentation, is provided in Appendix A. Ground-water monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix B.

As hydrocarbon contaminants have not been detected to date in monitoring well MW-2 and rarely in well MW-4 (MTBE detected in one of ten quarters sampled), BAI proposes modification of the future monitoring and sampling schedule. BAI proposes continued quarterly monitoring of depths to ground-water from the five on-site wells. However BAI proposes discontinuing quarterly collection and analysis of samples from wells MW-2 and MW-4. Furthermore, BAI proposes discontinuing to analyze samples for DRO in the future as DRO has not been detected in onsite wells (with the single exception of 13 March 2007 in well MW-2 just above the reporting limit, and the laboratory noted that the chromatogram profile was inconsistent with the pattern of the fuel standard). At this time, no decision will be made regarding these proposals without discussion and approval from ACEH.

CLOSURE:

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

ATTACHMENTS:

- Drawing 1. Ground-Water Elevation Contours and Analytical Summary Map, 13 November 2007 and 20 December 2007, Former BP Service Station #11124, 3315 High Street, Oakland, California
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11124, 3315 High St., Oakland, CA
- Table 2. Summary of Fuel Additives Analytical Data, Station #11124, 3315 High St., Oakland, CA
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #11124, 3315 High St., Oakland, CA
- Appendix A. Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets and Laboratory Analytical Report with Chain-of-Custody Documentation)
- Appendix B. GeoTracker Upload Confirmations

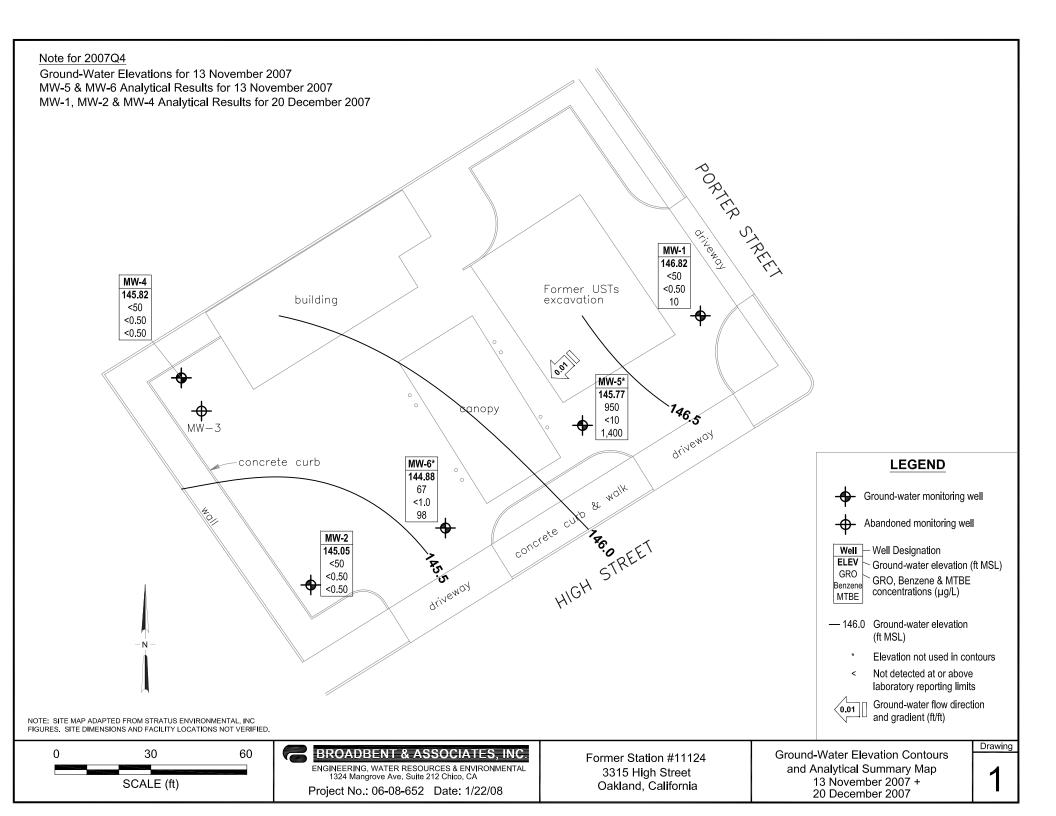


Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11124, 3315 High St., Oakland, CA

			TOC		Product	Water Level		C	oncentratio	ons in (µg/	L)					DRO/	
Well and			Elevation	DTW	Thickness	Elevation	GRO/			Ethyl-	Total		DO			TPHd	TOG
Sample Date	P/NP	Footnote	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MtBE	(mg/L)	Lab	pН	(µg/L)	(μg/L)
MW-1																	
10/19/2004	P		154.99	10.50		144.49	< 50	< 0.50	< 0.50	< 0.50	< 0.50	14	0.96	SEQM	6.9		
01/13/2005	P		154.99	9.00		145.99	< 50	< 0.50	< 0.50	< 0.50	< 0.50	33	2.5	SEQM	6.4		
02/24/2006	P	c	154.99	10.42		144.57	55	< 0.50	< 0.50	< 0.50	< 0.50	51		SEQM	6.8		
5/30/2006	P		154.99	10.94		144.05	50	< 0.50	< 0.50	< 0.50	< 0.50	58		SEQM	6.6		
8/28/2006	P		154.99	10.61		144.38	50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		TAMC	7.0		
11/2/2006	P		154.99	10.83		144.16	< 50	< 0.50	< 0.50	< 0.50	< 0.50	9.8	1.40	TAMC	6.99		
2/6/2007	P	d	157.34	9.88		147.46	< 50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	2.76	TAMC	7.10		
3/13/2007	P		157.34	9.62		147.72							2.63	TAMC	7.30	<48	
5/8/2007	P		157.34	9.62		147.72	< 50	< 0.50	< 0.50	< 0.50	< 0.50	19	2.65	TAMC	7.01	<49	
8/7/2007	P		157.34	10.82		146.52	< 50	< 0.50	< 0.50	< 0.50	< 0.50	5.0	3.15	TAMC	7.33	<49	
11/13/2007			157.34	10.52		146.82							4.79	TAMC	6.58	<48	
12/20/2007	NP	e	157.34	10.47		146.87	< 50	< 0.50	< 0.50	<0.50	<0.50	10	1.14	TAMC	6.97		
MW-2																	
10/19/2004		b	152.02	9.45		142.57											
01/13/2005	P		152.02	6.43		145.59	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.47	SEQM	6.4		
02/24/2006	P		152.02	7.88		144.14	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	6.7		
5/30/2006	P		152.02	7.98		144.04	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	6.7		
8/28/2006	P		152.02	9.38		142.64	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		TAMC	6.7		
11/2/2006			152.02	9.85		142.17											
2/6/2007	P	d	154.35	8.40		145.95	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	5.10	TAMC	7.02		
3/13/2007	P		154.35	7.55		146.80							4.83	TAMC	7.17	52	
5/8/2007	P		154.35	7.70		146.65	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.40	TAMC	7.12	<48	
8/7/2007	P		154.35	9.77		144.58	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.47	TAMC	7.19	<47	
11/13/2007			154.35	9.30		145.05							4.90	TAMC	7.02	<48	
12/20/2007	NP	e	154.35	9.34		145.01	<50	<0.50	< 0.50	<0.50	<0.50	<0.50	1.62	TAMC	7.44		
MW-4																	
10/19/2004	P		152.77	9.55		143.22	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.82	SEQM	7.0		
01/13/2005		a	152.77														
02/24/2006	P		152.77	7.86		144.91	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	7.1		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses Station #11124, 3315 High St., Oakland, CA

			TOC		Product	Water Level		C	oncentratio	ons in (µg/	[.)					DRO/	
Well and Sample Date	P/NP	Footnote	Elevation (feet msl)	DTW (feet bgs)	Thickness (feet)	Elevation (feet msl)	GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MtBE	DO (mg/L)	Lab	pН	TPHd (µg/L)	TOG (µg/L)
MW-4 Cont.																	
5/30/2006	P		152.77	8.04		144.73	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		SEQM	6.9		
8/28/2006	P		152.77	9.36		143.41	< 50	< 0.50	< 0.50	< 0.50	< 0.50	16		TAMC	6.5		
11/2/2006	P		152.77	9.92		142.85	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.23	TAMC	6.79		
2/6/2007	P	d	155.10	8.40		146.70	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.43	TAMC	7.10		
3/13/2007	P		155.10	7.56		147.54							2.53	TAMC	7.18	<49	
5/8/2007	P		155.10	7.68		147.42	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.78	TAMC	7.28	<48	
8/7/2007	P		155.10	9.83		145.27	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.70	TAMC	7.13	<48	
11/13/2007			155.10	9.28		145.82							5.71	TAMC	7.11	<48	
12/20/2007	NP	e	155.10	9.23		145.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.13	TAMC	7.16		
MW-5																	
3/13/2007	P	d	155.45	8.72		146.73	880	< 0.50	< 0.50	< 0.50	< 0.50	1,400	1.84	TAMC	7.36	<48	
5/8/2007	P	c	155.45	8.42		147.03	920	< 5.0	< 5.0	< 5.0	< 5.0	1,300	3.26	TAMC	7.50	<48	
8/7/2007	P	c	155.45	9.88		145.57	1,300	<10	<10	<10	<10	1,600	3.54	TAMC	7.34	<48	
11/13/2007	P	c	155.45	9.68		145.77	950	<10	<10	<10	<10	1,400	4.68	TAMC	6.99	<48	
MW-6																	
3/13/2007	P	d	154.59	7.82		146.77	86	< 0.50	< 0.50	< 0.50	< 0.50	88	1.92	TAMC	7.21	<48	
5/8/2007	P	с	154.59	7.92		146.67	88	< 0.50	< 0.50	< 0.50	< 0.50	120	1.87	TAMC	7.50	<48	
8/7/2007	P	c	154.59	9.85		144.74	67	< 0.50	< 0.50	< 0.50	< 0.50	85	3.60	TAMC	7.25	<47	
11/13/2007	P	c	154.59	9.71		144.88	67	<1.0	<1.0	<1.0	<1.0	98	4.44	TAMC	7.16	<48	

ABBREVIATIONS AND SYMBOLS:

- --- = Not analyzed/measured/applicable
- < = Not detected at or above laboratory reporting limit

DO = Dissolved oxygen

ft bgs = Feet below ground surface

ft MSL = Feet above mean sea level

DTW = Depth to water in ft bgs

GRO = Gasoline range organics

GWE = Groundwater elevation 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 in ft MSL

TPH-g = Total petroleum hydrocarbons as gasoline

 $\mu g/L = Micrograms per liter$

SEQM = Sequoia Analytical Morgan Hill (Laboratory)

FOOTNOTES:

- a = Well inaccessible.
- b = Well is dry.
- c = Hydrocarbon result for GRO partly due to individual peak(s) in quantitative range.
- d = Well survey by Morrow Surveying on 12/27/2006.
- e = Well re-sampled due to insufficient laboratory analysis of previous sampling event on 11/13/2007. The depth to water and resulting water level elevation from 11/13/2007 will be used for reporting purposes for Fourth Quarter 2007.

NOTES:

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.

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 #11124, 3315 High St., Oakland, CA

Well and				Concentration	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-1									
10/19/2004	<100	<20	14	<0.50	<0.50	<0.50	< 0.50	< 0.50	
01/13/2005	<100	<20	33	<0.50	<0.50	<0.50	<0.50	<0.50	
02/24/2006	<300	<20	51	<0.50	<0.50	<0.50	<0.50	<0.50	
5/30/2006	<300	<20	58	<0.50	<0.50	< 0.50	<0.50	<0.50	
8/28/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/2/2006	<300	<20	9.8	<0.50	<0.50	<0.50	<0.50	<0.50	
2/6/2007	<300	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	
5/8/2007	<300	<20	19	<0.50	<0.50	<0.50	<0.50	<0.50	
8/7/2007	<300	<20	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	
12/20/2007	<300	<20	10	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-2									
01/13/2005	<100	<20	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	
02/24/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
5/30/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/28/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2/6/2007	<300	<20	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	
5/8/2007	<300	<20	<0.50	< 0.50	<0.50	<0.50	<0.50	< 0.50	
8/7/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	
12/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4									
10/19/2004	<100	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
02/24/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
5/30/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/28/2006	<300	<20	16	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/2/2006	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2/6/2007	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
5/8/2007	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
8/7/2007	<300	<20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
12/20/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5									

Table 2. Summary of Fuel Additives Analytical Data Station #11124, 3315 High St., Oakland, CA

Well and				Concentration					
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-5 Cont.									
3/13/2007	<3,000	<200	1,400	< 5.0	<5.0	6.5	<5.0	< 5.0	
5/8/2007	<3,000	<200	1,300	< 0.50	< 0.50	7.0	< 0.50	< 0.50	
8/7/2007	<6,000	<400	1,600	<10	<10	<10	<10	<10	
11/13/2007	<6,000	<400	1,400	<10	<10	<10	<10	<10	
MW-6									
3/13/2007	<300	<20	88	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
5/8/2007	<300	<20	120	< 0.50	< 0.50	0.61	< 0.50	< 0.50	
8/7/2007	<300	<20	85	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/13/2007	<600	<40	98	<1.0	<1.0	<1.0	<1.0	<1.0	

ABBREVIATIONS AND SYMBOLS:

TBA = tert-Butyl alcohol

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

TAME = tert-Amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromomethane

 $\mu g/L = micrograms per liter$

< = Not detected at or above laboratory reporting limit

NOTES:

All fuel oxygenate compounds are 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 #11124, 3315 High St., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
11/12/1990		
7/15/1991	Southwest	0.0174
10/15/1991	Southwest	0.0182
1/15/1992	South-Southwest	0.014
4/17/1992	South	0.014
9/30/1992	South-Southwest	0.018
12/17/1992	North	0.01
3/15/1993	South	0.007
10/19/2004	South-Southwest	0.022
1/13/2005		
2/24/2006	Southeast	0.01
5/30/2006	East-Southeast	0.007
8/28/2006	South	0.012
11/2/2006	South	0.013
3/13/2007	Southwest	0.006
5/8/2007	South-Southwest	0.009
8/7/2007	Southwest	0.01
11/13/2007	Southwest	0.01

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 GROUND-WATER SAMPLING DATA PACKAGE (INCLUDES FIELD DATA SHEETS AND LABORATORY ANALYTICAL REPORT WITH CHAIN-OF-CUSTODY DOCUMENTATION)



December 7, 2007

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

Re:

Groundwater Sampling Data Package, BP Service Station No. 11124, located at 3315

High Street, Oakland, California

General Information

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

Phone Number: (530) 676-6000

On-Site Supplier Representative: Jerry Gonzales

Sampling Date: November 16, 2007 Arrival: 09:00 Departure: 11:30

Weather Conditions: Clear

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 field data sheets, non-hazardous waste data form, 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.

Vroject Manager

Vroject Manager

Attachments:

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results

cc: Mr. Paul Supple, BP/ARCO

BP ALAMEDA PORTFOLIO

	OGIC DATA SHEET
Gauge Date: 1/ 13.07	Project Name: Oakland - 3315 High Street
Field Technician:	Project Number: 11124
TOC = Top of Well Casing Elevation DTP = Depth to Free Product (FP or NAPH) Below TOC DTW = Depth to Groundwater Below TOC DTB = Depth to Bottom of Well Casing Below TOC	DIA = Well Casing Diameter ELEV = Groundwater Elevation DUP = Duplicate

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Wellhead Observation Form

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Sampled by: Terry	

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Chain of Custody Record

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State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

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Sampler's Name: Jerey & Onzales Relinquished By / Affiliation Date Time Accepted By / Affiliation Date Time Shipment Date: Shipment Method: Shipment Tracking No: Special Instructions: Please or results to: rmiller@broadbentinc.com This is a revised COC for BP 11124 sampled on 3/13/07, accepted by TestAmerica at 1315 on 3/14/07.	9							Villa Control	2009090	HEROTOPIES.				iii awai in						in the same						en e		
Shipment Date: Shipment Method: Shipment Tracking No: Special Instructions: Please or results to: rmiller@broadbentinc.com This is a revised COC for BP 11124 sampled on 3/13/07, accepted by TestAmerica at 1315 on 3/14/07.	10									Control of the Contro		1		•			***************************************			-		1		ALESANZ POR MESTRA			and the contract of the contra	and the second s
Shipment Date: Shipment Method: Shipment Tracking No: Special Instructions: Please or results to: rmiller@broadbentinc.com This is a revised COC for BP 11124 sampled on 3/13/07, accepted by TestAmerica at 1315 on 3/14/07.	Samj	oler's Name: Jerry Chon	1201-69		America			Reling	<u>uish</u> e	od B	v/AI	filisti	ion.	i .		<u> </u>	a fo	Ti	me	***************************************	TOTAL PROPERTY.		*********	www.man	20070520000	TC10 -1	V = -	Time to the same of
Shipment Date: Shipment Method: Shipment Tracking No: Special Instructions: Please or results to: rmiller@broadbentinc.com This is a revised COC for BP 11124 sampled on 3/13/07, accepted by TestAmerica at 1315 on 3/14/07.	Samj	oler's Company: Douto's	ENU	7	dimension	CORSINANT NA	*************	14-52	The second	***********	enematical desired	Constitution of	distribution of	-	Messagen	Accountance of	TOTAL PROPERTY.	DE STREET VANDAGE		-					of the	Illiation	The state of the s	-
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Special Instructions: Please or results to: rmiller@broadbentinc.com This is a revised COC for @broadbentinc.com Custody Scale in Please Vas (No. 1) Temple of Vas (No. 1) Tem				ACC PARTICULAR TO THE PARTICULAR PARTY.	Red of consecut	therefore the same			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·		**********	····					<u> </u>		-	**********				+		A CALLEGE MAN CONTRACTOR OF THE PARTY OF THE	
This is a revised COC for BP 11124 sampled on 3/13/07, accepted by TestAmerica at 1315 on 3/14/07.	100																											
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	*/>***********************************	Custody Scals In Place: Yes / 1	This is	a revis Temp	ed (Bla	OC nk: Y	for B	P 11124 sampled	on 3 Fem	3/13 p or	/07, 1 Res	acce	pted	by	Test.	Ame								MCA	1.60	D Camula Caba Sa		





5 December, 2007

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

RE: BP Heritage #11124, Oakland ,CA Work Order: MQK0481

Enclosed are the results of analyses for samples received by the laboratory on 11/14/07 20:00. 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.





885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.testamericainc.com

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

Project: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012 Project Manager: Jay Johnson MQK0481 Reported: 12/05/07 16:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQK0481-01	Water	11/13/07 09:40	11/14/07 20:00
MW-2	MQK0481-02	Water	11/13/07 10:55	11/14/07 20:00
MW-4	MQK0481-03	Water	11/13/07 11:15	11/14/07 20:00
MW-5	MQK0481-04	Water	11/13/07 10:00	11/14/07 20:00
MW-6	MQK0481-05	Water	11/13/07 10:25	11/14/07 20:00
TB11124-111307	MQK0481-06	Water	11/13/07 05:30	11/14/07 20:00

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: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012 Project Manager: Jay Johnson MQK0481 Reported: 12/05/07 16:06

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MQK0481-04) Water Sampled:	11/13/07 10:00	Received:	: 11/14/07	20:00					
Gasoline Range Organics (C4-C12)	950	500	ug/l	10	7K20002	11/20/07	11/20/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		101 %	60-1	50	"	"	"	"	
Surrogate: Dibromofluoromethane		90 %	75-1	30	"	"	"	"	
Surrogate: Toluene-d8		87 %	75-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		79 %	55-1	30	"	"	"	и	
MW-6 (MQK0481-05) Water Sampled:	11/13/07 10:25	Received:	11/14/07	20:00					
Gasoline Range Organics (C4-C12)	67	50	ug/l	1	7K20002	11/20/07	11/20/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		93 %	60-1	50	"	"	"	n .	
Surrogate: Dibromofluoromethane		87 %	75-1	30	"	"	"	"	
Surrogate: Toluene-d8		87 %	75-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		77 %	55-1	30	"	"	"	"	





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

Project: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012 Project Manager: Jay Johnson MQK0481 Reported: 12/05/07 16:06

Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQK0481-01) Water Samp	pled: 11/13/07 09:40	Received	: 11/14/0	7 20:00	***				
Diesel Range Organics (C10-C36)	ND	48	ug/l	1	7K16015	11/16/07	11/16/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		51%	40-	-120	11	"	"	"	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
MW-2 (MQK0481-02) Water Samp	pled: 11/13/07 10:55	Received	11/14/0	7 20:00					
Diesel Range Organics (C10-C36)	ND	48	ug/l	1	7K16015	11/16/07	11/16/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		71 %	40-	120	"	"	"	"	
MW-4 (MQK0481-03) Water Samp	oled: 11/13/07 11:15	Received	11/14/0	7 20:00					
Diesel Range Organics (C10-C36)	ND	48	ug/l	1	7K16015	11/16/07	11/16/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		77 %	40-	120	"	"	"	n	
MW-5 (MQK0481-04) Water Samp	oled: 11/13/07 10:00	Received:	11/14/07	7 20:00					
Diesel Range Organics (C10-C36)	ND	48	ug/l	1	7K16015	11/16/07	11/17/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		76 %	40-	120	"	"	"	"	
MW-6 (MQK0481-05) Water Samp	oled: 11/13/07 10:25	Received:	11/14/07	20:00					
Diesel Range Organics (C10-C36)	ND	48	ug/l	1	7K16015	11/16/07	11/17/07	EPA 8015B-SVOA	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Surrogate: n-Octacosane		81 %	40-	120	"	"	11	n	





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

Project: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012 Project Manager: Jay Johnson MQK0481 Reported: 12/05/07 16:06

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note:
MW-5 (MQK0481-04) Water	Sampled: 11/13/07 10:00	Received	: 11/14/07	20:00					
tert-Amyl methyl ether	ND	10	ug/l	20	7K17004	11/16/07	11/17/07	EPA 8260B	
Benzene	ND	10	**	**	II.	n	н	"	
tert-Butyl alcohol	ND	400	п	ŧı	"	**	Ħ	п	
Di-isopropyl ether	ND	10	"	11	11	П	"	H	
1,2-Dibromoethane (EDB)	ND	10	П	**	n	11	н	н	
1,2-Dichloroethane	ND	10	H	n	#	**	н	II .	
Ethanol	ND	6000	"	"	II	II .	**	#	
Ethyl tert-butyl ether	ND	10	II .	11	H	11	П	81	
Ethylbenzene	ND	10	11	п	11	**	"	п	
Methyl tert-butyl ether	1400	10		"	II	11	41	"	
Toluene	ND	10	н	**	H	n	П	#	
Xylenes (total)	ND	10	Ħ	n	"	0		II .	
Surrogate: Dibromofluoromethane		105 %	75-13	80	"	n	"	11	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-15	0	n	"	"	"	
Surrogate: Toluene-d8		94%	75-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90 %	55-13	0	"	"	u .	n.	
MW-6 (MQK0481-05) Water S	Sampled: 11/13/07 10:25	Received:	11/14/07 2	0:00					
tert-Amyl methyl ether	ND	1.0	ug/l	2	7K17004	11/16/07	11/17/07	EPA 8260B	
Benzene	ND	1.0	"	II .	**	и	**	n n	
tert-Butyl alcohol	ND	40	II	"	"	II	п	**	
Di-isopropyl ether	ND	1.0	H	10	**	"	n .	п	
1,2-Dibromoethane (EDB)	ND	1.0	н	"	ii	11	#	u	
1,2-Dichloroethane	ND	1.0	II.	n	W.	"	tt	(I	
Ethanol	ND	600	**	n	II .	Ħ	**	tt	
Ethyl tert-butyl ether	ND	1.0	П	**	#	n	II	u	
Ethylbenzene	ND	1.0	n	н	н	#	n	II .	
Methyl tert-butyl ether	98	1.0	11	"	н	81	10	#	
Toluene	ND	1.0	11	11	"	n	n	"	
Xylenes (total)	ND	1.0	"	n	11	11	н	п	
Surrogate: Dibromofluoromethane		104 %	75-130)	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		111%	60-150)	"	"	"	"	
Surrogate: Toluene-d8		94 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86 %	55-130		"	"	"	"	





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

Project: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012 Project Manager: Jay Johnson

MQK0481 Reported: 12/05/07 16:06

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 7K20002 - EPA 5030B P/T / I	UFT GCMS									
Blank (7K20002-BLK1)				Prepared	& Analyze	ed: 11/20/	 ′07			
Gasoline Range Organics (C4-C12)	ND	50	ug/l	•						
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-150			
Surrogate: Dibromofluoromethane	2.20		"	2.50		88	75-130			
Surrogate: Toluene-d8	2.26		"	2.50		90	75-120			
Surrogate: 4-Bromofluorobenzene	2.12		"	2.50		85	55-130			
Laboratory Control Sample (7K20002-B	S2)			Prepared &	& Analyze	d: 11/20/	07			
Gasoline Range Organics (C4-C12)	500	50	ug/l	500		100	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.54		"	2.50		102	60-150			
Surrogate: Dibromofluoromethane	2.21		"	2.50		88	75-130			
Surrogate: Toluene-d8	2.37		"	2.50		95	75-120			
Surrogate: 4-Bromofluorobenzene	2.31		"	2.50		92	55-130			
Laboratory Control Sample Dup (7K200	02-BSD2)			Prepared &	& Analyze	d: 11/20/0	07			
Gasoline Range Organics (C4-C12)	504	50	ug/l	500		101	55-130	0.9	20	
Surrogate: 1,2-Dichloroethane-d4	2.55		"	2.50		102	60-150			
Surrogate: Dibromofluoromethane	2.22		"	2.50		89	75-130			
Surrogate: Toluene-d8	2.36		"	2.50		94	75-120			
Surrogate: 4-Bromofluorobenzene	2.26		"	2.50		90	55-130			
Matrix Spike (7K20002-MS1)	Source: Mo	QK0544-02		Prepared &	k Analyze	d: 11/20/0)7			
Gasoline Range Organics (C4-C12)	588	50	ug/l	550	ND	107	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.49		"	2.50		100	60-150			
Surrogate: Dibromofluoromethane	2.42		"	2.50		97	75-130			
Surrogate: Toluene-d8	2.34		"	2.50		94	75-120			
Surrogate: 4-Bromofluorobenzene	2.33		"	2.50		93	55-130			
Matrix Spike Dup (7K20002-MSD1)	Source: MQ)K0544-02		Prepared &	Analyzec	i: 11/20/0	17			
Gasoline Range Organics (C4-C12)	652	50	ug/l	550	ND	119	25-150	10	20	
Surrogate: 1,2-Dichloroethane-d4	2.52		"	2.50		101	60-150			
Surrogate: Dibromofluoromethane	2.35		"	2.50		94	75-130			
Surrogate: Toluene-d8	2.35		"	2.50		94	75-120			
Surrogate: 4-Bromofluorobenzene	2.28		"	2.50		91	55-130			





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

Project: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012 Project Manager: Jay Johnson MQK0481 Reported: 12/05/07 16:06

Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B - Quality Control TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7K16015 - EPA 3510C / EP	A 8015B-SVO <i>A</i>									
Blank (7K16015-BLK1)				Prepared	& Analyz	ed: 11/16/	07			
Diesel Range Organics (C10-C36)	ND	50	ug/l							
Surrogate: n-Octacosane	31.8		"	50.0		64	40-120			
Laboratory Control Sample (7K16015	-BS1)			Prepared 6	& Analyze	ed: 11/16/	07			DU
Diesel Range Organics (C10-C36)	371	50	ug/l	500	<u>*</u>	74	40-115		. ,	
Surrogate: n-Octacosane	33.9		"	50.0		68	40-120			
Laboratory Control Sample Dup (7K1	6015-BSD1)			Prepared 6	& Analyze	d: 11/16/0	07			
Diesel Range Organics (C10-C36)	383	50	ug/l	500	······································	77	40-115	3	25	
Surrogate: n-Octacosane	30.8		"	50.0		62	40-120			





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

Project: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012 Project Manager: Jay Johnson MQK0481 Reported: 12/05/07 16:06

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 7K17004 - EPA 5030B P/T	/ EPA 8260B									
Blank (7K17004-BLK1)				Prepared a	& Analyze	ed: 11/17/	07			
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	**							
tert-Butyl alcohol	ND	20	н							
Di-isopropyl ether	ND	0.50	n							
1,2-Dibromoethane (EDB)	ND	0.50	u							
1,2-Dichloroethane	ND	0.50	11							
Ethanol	ND	300	Ħ							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	#							
Methyl tert-butyl ether	ND	0.50	n							
Toluene	ND	0.50	**							
Xylenes (total)	ND	0.50	и							
Surrogate: Dibromofluoromethane	2.48		n	2.50		99	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.63		"	2.50		105	60-150			
Surrogate: Toluene-d8	2.42		"	2.50		97	75-120			
Surrogate: 4-Bromofluorobenzene	2.36		"	2.50		94	55-130			
Laboratory Control Sample (7K17004	4-BS1)			Prepared &	& Analyze	d: 11/17/0)7			
tert-Amyl methyl ether	9.45	0.50	ug/l	10.0		94	75-125			
Benzene	9.76	0.50	11	10.0		98	75-120			
tert-Butyl alcohol	211	20	П	200		106	80-120			
Di-isopropyl ether	9.42	0.50	11	10.0		94	70-130			
1,2-Dibromoethane (EDB)	9.83	0.50	н	10.0		98	75-130			
1,2-Dichloroethane	9.55	0.50	11	10.0		96	65-130			
Ethanol	256	300	н	200		128	50-150			
Ethyl tert-butyl ether	9.40	0.50	11	10.0		94	75-130			
Ethylbenzene	10.7	0.50	H	10.0		107	80-125			
Methyl tert-butyl ether	9.48	0.50	**	10.0		95	80-130			
Toluene	9.87	0.50	II .	10.0		99	80-120			
Kylenes (total)	32.1	0.50	n	30.0		107	80-125			
Surrogate: Dibromofluoromethane	2.43		"	2.50		97	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.36		"	2.50		94	60-150			
Surrogate: Toluene-d8	2.54		"	2.50		102	75-120			
Surrogate: 4-Bromofluorobenzene	2.55		"	2.50		102	55-130			



885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.testamericainc.com

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

Project: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012 Project Manager: Jay Johnson MQK0481 Reported: 12/05/07 16:06

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 7K17004 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (7K17004-MS1)	Source: M	QK0447-03		Prepared	& Analyze	ed: 11/17,	/07			
tert-Amyl methyl ether	10.6	0.50	ug/l	10.0	ND	106	75-140			
Benzene	9.60	0.50	11	10.0	ND	96	80-120			
tert-Butyl alcohol	204	20	n .	200	ND	102	80-125			
Di-isopropyl ether	9.82	0.50	"	10.0	ND	98	75-135			
1,2-Dibromoethane (EDB)	10.8	0.50	11	10.0	ND	108	80-135			
1,2-Dichloroethane	10.0	0.50	0	10.0	ND	100	65-145			
Ethanol	189	300	н	200	ND	94	50-150			
Ethyl tert-butyl ether	10.4	0.50	"	10.0	ND	104	80-135			
Ethylbenzene	9.73	0.50	0	10.0	ND	97	75-130			
Methyl tert-butyl ether	10.5	0.50	11	10.0	ND	105	75-145			
Toluene	9.86	0.50	**	10.0	ND	99	80-125			
Xylenes (total)	28.9	0.50	11	30.0	ND	96	75-125			
Surrogate: Dibromofluoromethane	2.56		"	2.50		102	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.63		"	2.50		105	60-150			
Surrogate: Toluene-d8	2.54		"	2.50		102	75-120			
Surrogate: 4-Bromofluorobenzene	2.62		"	2.50		105	55-130			
Matrix Spike Dup (7K17004-MSD1)	Source: Mo	QK0447-03		Prepared &	k Analyze	d: 11/17/0	07			
tert-Amyl methyl ether	10.6	0.50	ug/l	10.0	ND	106	75-140	0.2	25	
Benzene	10.0	0.50	II .	10.0	ND	100	80-120	4	20	
tert-Butyl alcohol	213	20	n	200	ND	107	80-125	4	25	
Di-isopropyl ether	10.5	0.50	#	10.0	ND	105	75-135	7	25	
1,2-Dibromoethane (EDB)	10.5	0.50	11	10.0	ND	105	80-135	3	30	
1,2-Dichloroethane	10.3	0.50	#	10.0	ND	103	65-145	3	25	
Ethanol	211	300	n	200	ND	105	50-150	11	25	
Ethyl tert-butyl ether	10.6	0.50	н	10.0	ND	106	80-135	2	25	
Ethylbenzene	10.1	0.50	11	10.0	ND	101	75-130	4	20	
Methyl tert-butyl ether	10.4	0.50	Ir .	10.0	ND	104	75-145	1	25	
Toluene	10.0	0.50	н	10.0	ND	100	80-125	2	25	
Xylenes (total)	29.7	0.50	н	30.0	ND	99	75-125	3	20	
Surrogate: Dibromofluoromethane	2.50		"	2.50		100	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.48		"	2.50		99	60-150			
Surrogate: Toluene-d8	2.54		"	2.50		102	75-120			
Surrogate: 4-Bromofluorobenzene	2.51		"	2.50		100	55-130			



885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.testamericainc.com

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

Project: BP Heritage #11124, Oakland, CA

Project Number: G099D-0012 Project Manager: Jay Johnson MQK0481 Reported: 12/05/07 16:06

Notes and Definitions

SG A silica gel cleanup procedure was performed.

PV Hydrocarbon result partly due to individ. peak(s) in quant. range

DU Insufficient sample quantity for matrix spike/dup matrix spike

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

Lisa Race

From:

Sandy Hayes [shayes@stratusinc.net]

Sent:

Friday, November 16, 2007 2:16 PM

To:

Lisa Race

Subject:

RE: Possible problem COC BP#11124 - MQK0481

Attachments: Revised COC 11124.pdf

Hi Lisa,

Yes, looks like it is an old note from the back in March. I've revised and attached.

Thank you!:)

Sandy Hayes Stratus Environmental, Inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682 shayes@stratusinc.net Phone: 530.313.9964

Fax: 530.676.6005

----Original Message----

From: Lisa Race [mailto:lisa.race@testamericainc.com]

Sent: Friday, November 16, 2007 2:05 PM

To: shayes@stratusinc.net

Subject: Possible problem COC BP#11124 - MQK0481

Sandy,

Heft a message regarding this COC. Is the comment about this being a revised COC correct or is this an old note?

See attached. Feel free to contact me with any questions. Please note new e-mail address: <u>Lisa.Race@Testamericainc.com</u>

LISA RACE

Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

885 Jarvis Drive Morgan Hill, CA 95037 Tel 408.782.8156 | Fax 408.782.6308 www.testamericainc.com www.stl-inc.com

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

REVISED

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name:

BP 11124

Requested Due Date (mm/dd/yy):

BP BU/AR Region/Enfos Segment: State or Lead Regulatory Agency:

BP > Americas > West > Retail > CA > Alameda>11124

Page 1 of 1

On-site Time: 9:00 Temp: 6 8

Off-site Time: //:30 Temp: 7 3

Sky Conditions: C/CF

Meteorological Events: NONE

Wind Speed: Direction:

Lab Name: TestAmerica BP/AR Facility No.: 11124 Consultant/Contractor: Address: . 885 Jarvis Drive Stratus Environmental, Inc. BP/AR Facility Address: 3315 High Street, Oakland Address: 3330 Cameron Park Drive, Suite 550 Morgan Hill, CA 95937 Site Lat/Long: Lab PM: Lisa Race Cameron Park, CA 95682 California Global ID#: T06001001919 Tele/Fax: 408-782-8156 408-782-6308 (fax) Consultant/Contractor Project No.: EI1124-04 Enfos Project No.: G099D-0012 Consultant/Contractor PM: BP/AR PM Contact Paul Supple Jay Johnson Provision of RCOP (circle one) Provision Address: 2010 Crow Canyon Place, Suite 150 Tele/Fax: (530) 676-6000 / (530) 676-6005 Phase/WBS: 04-Monitoring San Ramon, CA Report Type & QC Level: Level 1 with EDF Sub Phase/Task: 03-Analytical E-mail EDD To: cjewitt@stratusinc.net Tele/Fax: 925-275-3506 Cost Element: 01-Contractor labor Lab Bottle Order No: Invoice to: Atlantic Richfield Co. Matrix Preservative Requested Analysis REVISED No. of Containers GRO/BTEX/Oxy MQK0481 8260 Item Water/Liquid Simon Lime Sample Point Lat/Long and Unpreserved Sample Description No. Soil/Solid Laboratory No. Ethanol by Comments Methanol ,2 DCA H2504 *Oxy = MTBD, TAME, ETBE, DIPE, HNO, HCI ä TBA 1 MW-1 9:40 1143-01 X 01 X 2 MW-2 10:55 X ħΖ X 3 MW-4 11115 x 03 4 MW-5 10000 X 04 4 x x 5 MW-6 1035 X 92 X X 530 6 TB 11124-///307 X 90 HOLD 8 9 10 Sampler's Name: Jerry A crizcites Relinquished By / Affiliation Sampler's Company: Doulo's ENV Date Time Accepted By / Affiliation Date Time 1410 Shipment Date: 1610 11.14 Shipment Method: 14411620 11-14 4020 Shipment Tracking No: 1114 2000 Special Instructions: Please ce results to: rmiller@broadbentine.com The least sylventeeld, for the 14124 annual are 3/19/07, recepted by Particular are 4/15/07, 14/07, Custody Seals In Place: Yes / No / 1 Temp Blank: Yes No Cooler Temp on Receipt: 4.4 °F/C Trip Blank/Yes / No MS/MSD Sample Submitted: Yes (No)

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name: BP 11124

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > CA > Alameda>11124

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

	1 480 01
On-site Time: 9,00	Temp: 6 8
Off-site Time: //:30	Temp: 73
Sky Conditions: Clear	
Meteorological Events: None	
Wind Speed: 💬	Direction:

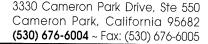
Part		Name: TestAmerica						BP/AR Facility No.	.:	11	124								''	Con	sultar	ıt/Co	ntra	ctor:		Stratus Environme	atal. Inc.			
Site Lat/Long Site Lat/Long Cameron Park, CA 95582	Addr	ess: 885 Jarvis Drive						RP/AR Facility Address: 3315 High Street, Oakland Address: 333											0 Ci	amer	·		***							
PArt List Race California Global ID #: T06001001919 Consultant/Contractor Project No. E11124-04 Part 248-782-8156 408-782-6308 (fax) Enfor Project No. Consultant/Contractor PM. Jay Joinson								Site Lat/Long:																		· · · · · · · · · · · · · · · · · · ·				
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Provision or RCOP (circle one) Provision TeleFax: (530) 676-6000 / (530) 676-6005	Cele/	Pax: 408-782-8156 408-782-6308	8 (fax)					Enfos Project No.:		G0	99D-	0012	,				************	********												
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San Ramon, CA Sub-Piase/Task: 03-Analytical E-mail EDD To: cjewiti@stratusinc.net Invoice vs. Attantic Richited Co.	Addr		e 150					Phase/WBS:		04-	Moni	itorin	g			**********	***************************************	***************************************		Rep	ort Ty				-					
Description	-							Sub Phase/Task:		03-	Analy	ytical	1											-				***************************************		
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MW-1	ab	3ottle Order No:]	Matrix					P	rese	rvati	ve)	Requ	ueste	An	ılysi	S							
MW-1 MW-2 MW-4 MW-5 MW-6 MW-6 MW-6 MW-6 MW-6 MW-6 MW-8 MW-1 MW-9 MW-1 MW-2 MW-1 MW-1 MW-2 MW-1 MW-2 MW-3 MW-4 MW-5 MW-6	Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid Air		' '	No. of Containers	Unpreserved 1LA	H ₂ SO ₄	HNO,	HCI BUDA	Methanol		GRO/BTEX/Oxy*	1,2 DCA	EDB	Sthanol by 8260	ORO						Con *Oxy = MTBD, T				
MW-2	1	MW-1	9:46	11-13-67		χΠ	٦ſ	Ol	4			Ī	ĪΥ												H					
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TB 11124-///307 500 X 070 Z X N N N N N N N N N N N N N N N N N N	5	MW-6	1035]	(05	4	×			\mathbf{x}			x	x	х	x	x							***************************************			
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Custody Seals in Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: 4.4 °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No	Z	Custody Seals In Place: Yes / N	[o]	Temp	Blan	k: Ves	疝	O Cooler 7	Cemi	0 00	Rec	eint.) (CU	4 °F/(C	me							1	N AS	2/1/46	SD Sample Sub!	tod. 37-1	(Na)		

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME:	RP 11/24		DATE REC'D AT LAB:			New York	E CONTRACTOR VENTE							
	Div.		TIME REC'D AT LAB:	1/11/10	1				tory Purposes?					
WORKORDER:	Mar0481	· · · · · · · · · · · · · · · · · · ·	DATE LOGGED IN:	2000	10-7				ING WATER					
_			DATE EGGGED IN:	11/16	107	•		WASTE WATER						
CIRCLE THE APPRO	PRIATE RESPONSE							✓ OTHE	R					
	NATE RESPUNSE	LAB SAMPLE#	CLIENT ID	CONTAINER	PRESER	pН	SAMPLE	DATE	REMARKS:					
Custody Seal(s)	Present (Absent)	OMBIFEE #		DESCRIPTION	VATIVE	pri	MATRIX	SAMPLED	CONDITION (ETC.)					
,	Intact / Broken*													
2. Chain-of-Custody	Present / Absent*					····								
3. Traffic Reports or	V. COCK / / IDGC/R													
Packing List:	Present / Attsent													
4. Airbill:	Airbill / Sticker							/						
	Present / Absent													
5. Airbill #;														
6. Sample Labels:	Cresent / Absent													
7. Sample IDs:	Listed / Not Listed	· · · · · · · · · · · · · · · · · · ·					-/							
	on Chain-of-Custody			l NG		- <u>-</u>	/	<u> </u>						
8. Sample Condition:	(ntact)/ Broken* /			35		-1								
	Leaking*			Se MAN		\leftarrow								
9. Does information on	chain-of-custody,			110	-4									
traffic reports and sa	imple labels		1 1	- C	+									
agree?	Yes / No*													
Sample received withir				-										
hold time?	Yes / No*			-/ 										
 Adequate sample volui 	me O			/										
received?	Yes / No*													
2. Proper preservatives u														
13. Trip Blank / Temp Blan	k Received?	***				-+								
(circle which, if yes)	(Yes / No*													
4. Read Temp:	5.48													
Correction Factor:	<u>-1-0:</u>													
Corrected Temp:	4.4								· · · · · · · · · · · · · · · · · · ·					
Is corrected temp. 0-6°0		/												
*Exception (if any): Metal:	s / Perchlorate													
DFF on ice or Problem	COC	7												
SAMDI EDECEDE OS		*IF CIPCI	ED CONTACT PROJECT			datemper upp								

SAMPLERECEIPTLOG Revision 9 (10/26/07) IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

Page ____ of __





January 17, 2008

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

Re: Re-visit Groundwater Sampling Data Package, BP Service Station No. 11124, located at

3315 High Street, Oakland, California

General Information

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

Phone Number: (530) 676-6000

On-Site Supplier Representative: Jerry Gonzales

Sampling Date: December 20, 2007 Arrival: 13:45 Departure: 14:45

Weather Conditions: Clear

Unusual Field Conditions: None noted

Scope of Work Performed: Quarterly monitoring and sampling-Revisit

Variations from Work Scope: Select analyses were not performed on wells MW-1, MW-2 and MW-4 during the regularly scheduled quarterly monitoring event on November 16, 2007; Therefore, wells MW-1, MW-2 and MW-4 were resampled to include correct lab analyses.

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include 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, J. C. Project Manager



Attachments:

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results

cc: Mr. Paul Supple, BP/ARCO

	BP ALAMEDA PORTI	FOLIO
	WATER SAMPLE FIELD DA	
PROJECT #: 11124 CLIENT NAME: Oakland - 3315 High	PURGED BY: A	WELL I.D.: MW-/ SAMPLE I.D.: MW-/ QA SAMPLES:
DATE PURGED // A DATE SAMPLED // DO O O O SAMPLE TYPE: Groundwater x CASING DIAMETER: 2" X		END (2400hr) NP Creatment Effluent Other
Casing Volume: (gallons per foot) (0.1		(1.02) 6" 8" Other (2.60)
DEPTH TO BOTTOM (feet) = 34, in DEPTH TO WATER (feet) = 10, 14 WATER COLUMN HEIGHT (feet) =	<u>7</u>	ASING VOLUME (gal) = // // // // // // // // // // // // /
	FIELD MEASUREMENTS	
DATE TIME VOLUME (2400hr) (gsl)	TEMP. CONDUCTIVITY (degrees F) (umbos/cm)	y pH COLOR TURBIDITY (units) (visual) (NIU)
SAMPLE DEPTH TO WATER: NO	SAMPLE INFORMATION	SAMPLE TURBIDITY: Clar
80% RECHARGE:YESNO //	ANALYSES: 100	to 2n
	VESSEL/PRESERVATIVE: 13 V	21 ACL
Centrifugal Pump Bailer	(Stainless Steel) Submersit	SAMPLING EQUIPMENT Pump Bailer (Teflon) al Pump Bailer (PVC or disposable) ble Pump Bailer (Stainless Steel)
WELL INTEGRITY:		LOCK#: N.M.
DUMADUO. 6 a 1 1 1	,	DOCKE: 70 3°
IGNATURE:		

	BP ALAMED	A PORTFO	OLIO	. With the second secon	
· ·	WATER SAMPLE	FIELD DATA	SHEET		
PROJECT #: 11124 CLIENT NAME: LOCATION: Oakland - 3315 High S	PURGED BY: SAMPLED BY:	XIA.			W-2_
DATE PURGED // DATE SAMPLED /2-200 SAMPLE TYPE: Groundwater_x	START (2400hr) SAMPLE TIME (240 Surface Water	The second secon	END (2		
CASING DIAMETER: 2" (0.17)	3" <u>(0.38)</u> 4"	(0.67) 5" (1	.02) 6" (1.50)	g" (2.60)	Other
DEPTH TO BOTTOM (feet) = 28.8 DEPTH TO WATER (feet) = 93.4 WATER COLUMN HEIGHT (feet) = 1/	jo	CAL	ING VOLUME (gal) = CULATED PURGE (g UAL PURGE (gal) =	A Company of the Comp	P O
•	FIELD MEA	SUREMENTS			
DATE TIME (2400hr) (gal)	TEMP, (degrees F)	ONDUCTIVITY (umhos/cm) 1420 ORMATION	pH (units)	COLOR (visual)	TURBIDITY (NTU)
SAMPLE DEPTH TO WATER: //	DVIII (TO IIA).	ORMATION	SAMPLE TURBI	DITY: ÆLL	211
CONTROL OF THE PROPERTY OF THE	Analyse: SSEL/preservative	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 4		-
PURGING EQUIPMENT Bladder Pump Centrifugal Pump Bailer (T Submersible Pump Bailer (S Peristalic Pump Other: Pump Depth:	VC) tainless Steel)	Biadder Pun Centrifugal I Submersible Peristalic Pu Other:	Pump Baile	er (Tellon)	
WELL INTEGRITY:			LOCK#: 1	\$45 × 100	
SIGNATURE: 90 M				ĊŢ.	age of

·	BP ALAMEDA P	ORTFOLIO	ANN A CHARLES AN CHARLAGE COME, CHARLES AND AN CHARLAGE AND AN CHARLAGE COME AND AN CHARLAGE AND AN CHARLAGE A
W	ATER SAMPLE FIE	LD DATA SHEET	
PROJECT #: 11124 CLIENT NAME: LOCATION:Oakland - 3315 High St	PURGED BY: N SAMPLED BY: H reet	f SAM	LI.D.: MW-4 PLE I.D.: MW-4 SAMPLES:
DATE PURGED /AJ / DATE SAMPLED /2-2007 SAMPLE TYPE: Groundwater_x		///	(2400hr) (2400hr) Other
CASING DIAMETER: 2" 1 (0.17)	3" 4" (0.67)	5" 6"	8" Other
DEPTH TO BOTTOM (feet) = 30.87 DEPTH TO WATER (feet) = 0, 23 WATER COLUMN HEIGHT (feet) =	1	CASING VOLUME (gal CALCULATED PURGE ACTUAL PURGE (gal)	(gel) = 1/0
•	FIELD MEASURE	MENTS	
DATE TIME (2400hr) (gal) 12-2007 1236 SAMPLE DEPTH TO WATER:	(degrees F) (um)		COLOR (visual) (NTU)
		SAMPLE TURI	BIDITY: 1020
80% RECHARGE: YES NO ODOR: SAMPLE VES PURGING EQUIPMENT		teegen 4 Voa 4CL	
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Chain of Custody Record

Project Name: BP 11124

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > CA > Alameda>11124

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

12/26/2007

On-site Time: 1245	Temp: 6-6
Off-site Time: 1445	Temp: 55
Sky Conditions:	
Meteorological Events:	
Wind Speed: 🔎	Direction: A/A

Lab Name: TestAmerica					1		BP/AR Facility No		1	1124	4	7.00	in and the	and the section was				-	personal con-				-		. Melowaki	and the second second			
Address: 885 Jarvis Drive		CONTRACTOR OF THE PERSON OF TH	****				BP/AR Facility Ad		*****			IV F. k	C		****		*****		·/···	Consu		-	CHICAGORA	MANAGE THE PARTY NAMED IN		Stratus Envi			************************
Morgan Hill, CA 95937								ures:	S);	33	115 1	High !	Stre	ct, U	kla	nd				Address: 3330 Cameron Park Drive, Suite 550								550	-
Lab PM: Lisa Race				-			Site Lat/Long:		COMMON AND A							-			(damasını)	Cameron Park, CA 95682								-	The sales of the s
Tele/Fax: 408-782-8156 408-782-63	302 (fav)						California Global I Enfos Project No.:	U#:		-	************									Consu		_	-	*****		***************************************	E11124-04		
BP/AR PM Contact: Paul Supple	AND (MA))99D	1, 11 1			· Miconity						Consultant/Contractor PM: Jay Johnson									
Address: 2010 Crow Canyon Place, Su	iih 150				\dashv		Provision or RCOF Phase/WBS:	, (cı					ovis	EO41						Tele/Fax: (530) 676-6000 / (530) 676-6005						W-00			
San Ramon, CA	anc 130									-Moi	****		Fireway 1113	O COLUMN TO THE REAL PROPERTY OF	war.					Report							evel I with	EDF	
Tele/Fax: 925-275-3506		·					Sub Phase/Task: Cost Element:			-Ana																dstratusino	:.net		
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Item Sample Description	Time	Date	<	Water/Liquid			Laboratory No.	No. of Containers	Unoreserved			Serva Serva	tonos		* CINDLO COL	Jacob Learnay"	1,2 DCA	EDB	Ethanol by 8260	Sample Point Lat/L Comments *Oxy = MTBD, TAME, TBA					115				
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28 December, 2007

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

RE: BP Heritage #11124, Oakland ,CA Work Order: MQL0732

Enclosed are the results of analyses for samples received by the laboratory on 12/21/07 20:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate # 2682

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.





885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.testamericainc.com

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550	Project: Project Number:	BP Heritage #11124, Oakland ,CA G099D-0012	MQL0732 Reported:
Cameron Park CA, 95682	Project Manager:	Jay Johnson	12/28/07 09:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQL0732-01	Water	12/20/07 14:07	12/21/07 20:00
MW-2	MQL0732-02	Water	12/20/07 14:20	12/21/07 20:00
MW-4	MQL0732-03	Water	12/20/07 14:33	12/21/07 20:00

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: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012 Project Manager: Jay Johnson MQL0732 Reported: 12/28/07 09:20

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQL0732-01) Water S	Sampled: 12/20/07 14:07	Received:	12/21/07 2	0:00					
Gasoline Range Organics (C4-C12	2) ND	50	ug/l	1	7L27009	12/27/07	12/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-15	0	"	"	11	"	
Surrogate: Dibromofluoromethane	2	95 %	75-13	0	"	"	"	"	
Surrogate: Toluene-d8		96 %	75-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	55-13	0	"	"	"	n	
MW-2 (MQL0732-02) Water S	Sampled: 12/20/07 14:20	Received:	12/21/07 2	0:00					
Gasoline Range Organics (C4-C12	!) ND	50	ug/l	1	7L27009	12/27/07	12/27/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		97 %	60-15)	"	"	"	11	11
Surrogate: Dibromofluoromethane	?	95 %	75-13)	"	"	"	"	
Surrogate: Toluene-d8		97 %	75-12	9	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		93 %	55-13)	"	"	"	"	
MW-4 (MQL0732-03) Water S	ampled: 12/20/07 14:33	Received:	12/21/07 20	00:0					
Gasoline Range Organics (C4-C12) ND	50	ug/l	1	7L27009	12/27/07	12/27/07	LUFT GCMS	-
Surrogate: 1,2-Dichloroethane-d4		96 %	60-15)	"	"	"	и	
Surrogate: Dibromofluoromethane		99 %	75-130)	"	"	"	"	
Surrogate: Toluene-d8		97 %	75-120)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	55-130)	"	"	"	11	





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

Project: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012 Project Manager: Jay Johnson MQL0732 Reported: 12/28/07 09:20

Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQL0732-01) Water S	Sampled: 12/20/07 14:07	Received	: 12/21/07	20:00				·	
tert-Amyl methyl ether	ND	0.50	ug/l	1	7L27009	12/27/07	12/27/07	EPA 8260B	
Benzene	ND	0.50	**	III	п	11	и	н	
tert-Butyl alcohol	ND	20	н	"	"	H	11	н	
Di-isopropyl ether	ND	0.50	**	11	II.	11	"	н	
1,2-Dibromoethane (EDB)	ND	0.50	n	11	11	**	II	П	
1,2-Dichloroethane	ND	0.50	II .	и	п	n	ŧ	**	
Ethanol	ND	300	"	11	11	11	н	tt.	
Ethyl tert-butyl ether	ND	0.50	It	"	**	n	п	п	
Ethylbenzene	ND	0.50	#	H	1)	11	H	и	
Methyl tert-butyl ether	10	0.50	Ħ	**	"	"	11	11	
Toluene	ND	0.50	II .	n	H	If	**	**	
Xylenes (total)	ND	0.50	11	11	п	#1	"	D.	
Surrogate: Dibromofluoromethane	?	95 %	75-1.	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-1.	50	"	"	"	"	
Surrogate: Toluene-d8		96 %	75-1.	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	55-1.	30	"	"	"	n	
MW-2 (MQL0732-02) Water S	ampled: 12/20/07 14:20	Received:	12/21/07 2	20:00					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7L27009	12/27/07	12/27/07	EPA 8260B	
Benzene	ND	0.50	**	11	II.	11	"	н	
tert-Butyl alcohol	ND	20	H	**	"	**	D.	П	
Di-isopropyl ether	ND	0.50	11	II	j):	If		11	
1,2-Dibromoethane (EDB)	ND	0.50	II	н	н	**	n	n	
1,2-Dichloroethane	ND	0.50	#	п	Ħ	H	**	**	
Ethanol	ND	300	"	**	#	11	n	tt.	
Ethyl tert-butyl ether	ND	0.50	H	n	н	n	H	н	
Ethylbenzene	ND	0.50	n	#1	**	11	n	n	
Methyl tert-butyl ether	ND	0.50	11	H	"		0	п	
Toluene	ND	0.50	"	H	Ш	п	H	н	
Xylenes (total)	ND	0.50	11	n		"	11	II .	
Surrogate: Dibromofluoromethane		95 %	75-13	30	"	"	n .	"	
Surrogate: 1,2-Dichloroethane-d4		97 %	60-15	50	"	"	"	"	
Surrogate: Toluene-d8		97 %	75-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93 %	55-13	30	"	"	"	"	





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

Project: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012 Project Manager: Jay Johnson MQL0732 Reported: 12/28/07 09:20

Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MQL0732-03) Water	Sampled: 12/20/07 14:33	Received:	12/21/07	20:00					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7L27009	12/27/07	12/27/07	EPA 8260B	
Benzene	ND	0.50	11	11	11	н	II	"	
tert-Butyl alcohol	ND	20	"	"	"	11	н	н	
Di-isopropyl ether	ND	0.50	ш	п	ш	11	11	п	
1,2-Dibromoethane (EDB)	ND	0.50	н	Ħ	Ħ	11	II	и	
1,2-Dichloroethane	ND	0.50	n	n	"	II*	"	II.	
Ethanol	ND	300	11	II .	II	н	II.	#	
Ethyl tert-butyl ether	ND	0.50	u	"	н	n		н	
Ethylbenzene	ND	0.50	II.	n	n	ii	п	и	
Methyl tert-butyl ether	ND	0.50	11	41	II	11	н	н	
Toluene	ND	0.50	"	н	"	n	11	n	
Xylenes (total)	ND	0.50	11	ш	11	11	"	H	
Surrogate: Dibromofluorometha	1e	99 %	75-	130	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d	4	96 %	60-	150	"	"	"	"	
Surrogate: Toluene-d8		97 %	75-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzen	e	94 %	55-	130	n	"	"	n	





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

Project: BP Heritage #11124, Oakland ,CA

Spike

Source

Project Number: G099D-0012 Project Manager: Jay Johnson MQL0732 Reported: 12/28/07 09:20

RPD

%REC

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

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7L27009 - EPA 5030B P/T / I	UFT GCMS									
Blank (7L27009-BLK1)				Prepared	& Analyze	ed: 12/27/	07			
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.46		"	2.50		98	60-150			
Surrogate: Dibromofluoromethane	2.39		"	2.50		96	75-130			
Surrogate: Toluene-d8	2.40		"	2.50		96	75-120			
Surrogate: 4-Bromofluorobenzene	2.33		"	2.50		93	55-130			
Laboratory Control Sample (7L27009-F	BS2)			Prepared 6	& Analyze	d: 12/27/	07			
Gasoline Range Organics (C4-C12)	544	50	ug/l	500		109	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.48		"	2.50		99	60-150			
Surrogate: Dibromofluoromethane	2.47		"	2.50		99	75-130			
Surrogate: Toluene-d8	2.47		"	2.50		99	75-120			
Surrogate: 4-Bromofluorobenzene	2.58		"	2.50		103	55-130			
Laboratory Control Sample Dup (7L270	009-BSD2)			Prepared &	& Analyze	d: 12/27/0)7			
Gasoline Range Organics (C4-C12)	476	50	ug/l	500		95	55-130	13	20	
Surrogate: 1,2-Dichloroethane-d4	2.47		"	2.50		99	60-150			
Surrogate: Dibromofluoromethane	2.35		"	2.50		94	75-130			
Surrogate: Toluene-d8	2.51		"	2.50		100	75-120			
Surrogate: 4-Bromofluorobenzene	2.65		"	2.50		106	55-130			
Matrix Spike (7L27009-MS1)	Source: MQ	L0732-03		Prepared &	& Analyze	d: 12/27/0)7			
Gasoline Range Organics (C4-C12)	730	50	ug/l	550	ND	133	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.47		"	2.50		99	60-150			
Surrogate: Dibromofluoromethane	2.39		"	2.50		96	75-130			
Surrogate: Toluene-d8	2.37		"	2.50		95	75-120			
Surrogate: 4-Bromofluorobenzene	2.44		"	2.50		98	55-130			
Matrix Spike Dup (7L27009-MSD1)	Source: MQ	L0732-03		Prepared &	& Analyze	d: 12/27/0	7			
Gasoline Range Organics (C4-C12)	706	50	ug/l	550	ND	128	25-150	3	20	•
Surrogate: 1,2-Dichloroethane-d4	2.41		"	2.50		96	60-150			
Surrogate: Dibromofluoromethane	2.46		"	2.50		98	75-130			
Surrogate: Toluene-d8	2.39		"	2.50		96	75-120			
Surrogate: 4-Bromofluorobenzene	2.45		"	2.50		98	55-130			





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

Project: BP Heritage #11124, Oakland ,CA

Project Number: G099D-0012
Project Manager: Jay Johnson

MQL0732 Reported: 12/28/07 09:20

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7L27009 - EPA 5030B P/T	/ EPA 8260B									
Blank (7L27009-BLK1)				Prepared	& Analyze	ed: 12/27/	07			
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	11							
tert-Butyl alcohol	ND	20	**							
Di-isopropyl ether	ND	0.50	II							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	n							
Ethanol	ND	300	**							
Ethyl tert-butyl ether	ND	0.50	tt							
Ethylbenzene	ND	0.50	H							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	0							
Xylenes (total)	ND	0.50								
Surrogate: Dibromofluoromethane	2.39		п	2.50		96	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.46		"	2.50		98	60-150			
Surrogate: Toluene-d8	2.40		"	2.50		96	75-120			
Surrogate: 4-Bromofluorobenzene	2.33		"	2.50		93	55-130			
Laboratory Control Sample (7L27009	-BS1)			Prepared &	& Analyze	d: 12/27/0)7			
tert-Amyl methyl ether	11.4	0.50	ug/l	10.0		114	75-125			
Benzene	10.2	0.50	п	10.0		102	75-120			
tert-Butyl alcohol	219	20	"	200		110	80-120			
Di-isopropyl ether	10.5	0.50	ft	10.0		105	70-130			
1,2-Dibromoethane (EDB)	10.5	0.50	tt.	10.0		105	75-130			
1,2-Dichloroethane	10.8	0.50	"	10.0		108	65-130			
Ethanol	225	300	н	200		112	50-150			
Ethyl tert-butyl ether	11.1	0.50	н	10.0		111	75-130			
Ethylbenzene	10.6	0.50	n	10.0		106	80-125			
Methyl tert-butyl ether	10.5	0.50	41	10.0		105	80-130			
Toluene	11.0	0.50	"	10.0		110	80-120			
Xylenes (total)	33.2	0.50	11	30.0		111	80-125			
Surrogate: Dibromofluoromethane	2.55		"	2.50		102	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.38		"	2.50		95	60-150			
Surrogate: Toluene-d8	2.45		n	2.50		98	75-120			
Surrogate: 4-Bromofluorobenzene	2.51		"	2.50		100	55-130			





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

Project: BP Heritage #11124, Oakland ,CA

Spike

Project Number: G099D-0012 Project Manager: Jay Johnson

MQL0732 Reported: 12/28/07 09:20

RPD

%REC

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

Reporting

2.45

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7L27009 - EPA 5030B P/T / I	EPA 8260B									
Matrix Spike (7L27009-MS1)	Source: MQ	QL0732-03		Prepared	& Analyze	ed: 12/27/	07			
tert-Amyl methyl ether	11.7	0.50	ug/l	10.0	ND	117	75-140			
Benzene	10.3	0.50	n	10.0	ND	103	80-120			
tert-Butyl alcohol	218	20	41	200	ND	109	80-125			
Di-isopropyl ether	10.9	0.50	H	10.0	ND	109	75-135			
1,2-Dibromoethane (EDB)	11.3	0.50	**	10.0	ND	113	80-135			
1,2-Dichloroethane	11.2	0.50	n	10.0	ND	112	65-145			
Ethanol	239	300	11	200	ND	119	50-150			
Ethyl tert-butyl ether	11.5	0.50	n	10.0	ND	115	80-135			
Ethylbenzene	10.8	0.50	11	10.0	ND	108	75-130			
Methyl tert-butyl ether	11.2	0.50	n	10.0	ND	112	75-145			
Toluene	11.1	0.50	н	10.0	ND	111	80-125			
Xylenes (total)	33.1	0.50	"	30.0	ND	110	75-125			
Surrogate: Dibromofluoromethane	2.39		"	2.50		96	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.47		"	2.50		99	60-150			
Surrogate: Toluene-d8	2.37		n	2.50		95	75-120			
Surrogate: 4-Bromofluorobenzene	2.44		"	2.50		98	55-130			
Matrix Spike Dup (7L27009-MSD1)	Source: MQ	L0732-03		Prepared &						
ert-Amyl methyl ether	11.5	0.50	ug/l	10.0	ND	115	75-140	2	25	
Benzene	10.0	0.50	H	10.0	ND	100	80-120	3	20	
ert-Butyl alcohol	205	20	II .	200	ND	103	80-125	6	25	
Di-isopropyl ether	10.6	0.50	"	10.0	ND	106	75-135	3	25	
1,2-Dibromoethane (EDB)	11.0	0.50	II .	10.0	ND	110	80-135	3	30	
1,2-Dichloroethane	10.9	0.50	"	10.0	ND	109	65-145	2	25	
Ethanol	247	300	п	200	ND	124	50-150	3	25	
Ethyl tert-butyl ether	11.2	0.50	u	10.0	ND	112	80-135	2	25	
Ethylbenzene	10.4	0.50	ti .	10.0	ND	104	75-130	4	20	
Methyl tert-butyl ether	10.8	0.50	"	10.0	ND	108	75-145	4	25	
Toluene	10.8	0.50	н	10.0	ND	108	80-125	3	25	
(vlenes (total)	32.2	0.50	"	30.0	ND	108	75-125	3	20	
Surrogate: Dibromofluoromethane	2.46		"	2.50		98	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.41		"	2.50		96	60-150			
Surrogate: Toluene-d8	2.39		"	2.50		96	75-120			

2.50

Surrogate: 4-Bromofluorobenzene

55-130

98



885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.testamericainc.com

Stratus Environmental Inc. [Arco] Project: BP Heritage #11124, Oakland ,CA MQL0732
3330 Cameron Park Dr., Suite 550 Project Number: G099D-0012 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 12/28/07 09:20

Notes and Definitions

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

A BP affiliated company

Chain of Custody Record

Project Name:

BP 11124

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > CA > Alameda>11124

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

12/26/2007

	rage_1_01_1	
On-site Time: 13 45	Temp:	
Off-site Time: 1445	Temp: 55	
Sky Conditions: Class		
Meteorological Events:	,	
Wind Speed:	Direction: NA	

Lab	Name: TestAmerica					$\neg \vdash$	Innun a su sa				-													2	-32		****
1	ress: 885 Jarvis Drive				***************************************	╢	BP/AR Facility No			1124									Co	nsulta	ınt/C	ontra	actor	:	Stratus Environmen	ital, Inc.	
1	gan Hill, CA 95937					╢	BP/AR Facility Ad	dres	s:	331	15 H	igh S	treet,	Oal	lan	d			Ad	dress:		33.	30 C	lame	ron Park Drive, Su	ite 550	
-	PM: Lisa Race		********	***************************************		╢	Site Lat/Long:												┦	····		Ca	mer	on Pa	ark, CA 95682		
Tele	/Fax: 408-782-8156 408-782-630	08 (fax)	***************************************			╬	California Global I Enfos Project No.:																		ect No.: E11124	-04	***************************************
	AR PM Contact: Paul Supple					╬	T	***************************************	-		-0012								Con	nsulta	nt/C	ontra	ctor	PM:	Jay Johr	ison	
	ress: 2010 Crow Canyon Place, Sui	te 150	***************************************			╢	Provision or RCOF Phase/WBS:	, (CII					vision						11	e/Fax:					6000 / (530) 676-60	05	
	San Ramon, CA					╫	Sub Phase/Task:				itorir								31:	ort T						with EDF	
Tele	/Fax: 925-275-3506		1 - 11 - 1 - 11 - 1			╢┈	Cost Element;				lytica	u or labo						 ,							@stratusinc.net		
Lab	Bottle Order No:			T	Matr	<u> </u>	Coot Dichem,	T=	1			ervati	·		_			_					ic Ri	chfie	eld Co.		
Item No.		Time	Date	Soil/Solid	Water/Liquid		Laboratory No.	No. of Containers	Unpreserved				Methanol		GRO/BTEX/0xy*	1,2 DCA	EDB	Ethanol by 8260	ORO	d An	alys	is			*Oxy = MTBD, TA	ments	
1	MW-1	1407	1220,	17	X		01	4		Π	T	х	T		X	†	1	x				 	\vdash	+			
2	MW-2	1420			х		07	4	╟	T	1	1	╀╌┼			1	T	1	 			 	-	\vdash			
3	MW-4	1433	17		X	+		1	╟─	\vdash	+-	X	+		X		Ţ	X		-				\perp			
		7780	<u> </u>		<u>^</u>		<u> </u>	4	 	├_	-	X		_	<u>X</u>	X	X	X									
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Sam	pler's Name: Hal Hans	9					Relinqu	uishe	d By	/ Affi	iliatio	11		7	Da	fe	Ti	me			1			<u></u>	SCI.	7	
San	pler's Company: ODU OF E	<u> </u>					gold &L	-		_				十	13			45				recep	Ted I	59 / A	Miliation	Date	Time
-	ment Date:						- M	\mathcal{T}	ZL,	1			········				fr.	20	3	1	1/2	7,	The second	!	<u> </u>	12/2/10	
	ment Method:			·············.			Zet Walk	7	12	25	1		********		8-2	21	20	20	Do i	ho	7			21		144	1640
	ment Tracking No:									/			***			_	<u>- 0.</u>		<u>erce</u>	VW.	LE	OVE		TAG	グ	12/21	2500
opec	ial Instructions:	Please o	c result	s to:	rmille	er@b	roadbentine.com		Z	J								1					·			اـــــال	
	sustody Seals In Place: (Yes)/X	6)	Temp	Blar	ık: Ye	s /A	O Cooler T	emr	on o	Rece	eipt:	0.6	, °P(Ĉ)	1	Tr	ip B	lank	Ye:	s/N	; 7	1	MS	Z/N/S	D Sample Submitte	. d. 37 //	
	06									****							-			- 1			1711	11110	numbre annum	ou. res//	ון עסא

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	BP 11124 Rachei Ciark MQL0732		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	12/21/07 2000 12/27/2	7			DRINK	ntory Purposes? KING WATER E WATER R
	PRIATE RESPONSE	LAB SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION		рН	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
Custody Seal(s)	Present / Absent	01	MW-L	4-10A			W	12/20/01	-
	Intact / Broken*							C-1-21-1	
2. Chain-of-Custody	Present / Absent*								7
3. Traffic Reports or	•								
Packing List:	Present / Absent					***************************************			
4. Airbill;	Airbill / Sticker					·			
	Present / Absent								
5. Airbill #:								•	/
6. Sample Labels:	Present / Absent								
7. Sample IDs:	Listed / Not Listed								
The state but the second se	on Chain-of-Custody							/ 	
8. Sample Condition:	Intact/ Broken*/								
	Leaking*				•				
9. Does information on									
traffic reports and s	ample labels				\overline{a}	//			
agree?	Yes/No*				`\\				
Sample received within				, ,	7/1				
hold time?	Yes/ No*				/				
11. Adequate sample volu	ime			16					
received?	∕ Te₃ / No*			. 1					
12. Proper preservatives ι			1 (> /					
13. Trip Blank / Temp Bla			_ \	//					
(circle which, if yes)	Yes / (No*)		9/	/					
14. Read Temp:	1.600								
Correction Factor:									
Corrected Temp:	0.6°C								
Is corrected temp. 0-6	'C? Yes/ No**								
*Exception (if any): Meta	ils / Perchlorate								
DFF on Ice or Problem									
The second secon		Carried to the second	787387575			COLUMN CONTRACT			

AMPLERECEIPTLOG ion 9 (10/26/07) *IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATIONS

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

UPLOADING A GEO_WELL FILE

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

Submittal Title: 4Q07 GEO_WELL 11124

Facility Global ID: T0600100919
Facility Name: BP #11124

Submittal Date/Time: 12/19/2007 9:10:40 AM

Confirmation Number: 5417941033

Back to Main Menu

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE <u>ADMINISTRATOR</u>.

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

UPLOADING A GEO_WELL FILE

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

4Q07 GEO_WELL 11124 **Submittal Title:**

Revisit

Facility Global ID: T0600100919 BP #11124 **Facility Name:**

Submittal Date/Time: 1/22/2008 1:48:40 PM

Confirmation

4352857828

Number:

Back to Main Menu

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE $\underline{\text{ADMINISTRATOR}}.$

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

Your EDF file has been successfully uploaded!

Confirmation Number: 7768624186

Date/Time of Submittal: 12/19/2007 9:08:05 AM

Facility Global ID: T0600100919
Facility Name: BP #11124

Submittal Title: 4Q07 GW Monitoring **Submittal Type:** GW Monitoring Report

Click here to view the detections report for this upload.

BP #11124 3315 HIGH OAKLAND, CA 94619	Regional Board - Case #: 01-0996 SAN FRANCISCO BAY RWQCB (REG Local Agency (lead agency) - Case #: I ALAMEDA COUNTY LOP - (SP)	
CONF # TITL		ARTER
		4 2007
SUBMITTED BY	SUBMIT DATE STATUS	
Broadbent & Associates, In	c. 12/19/2007 PENDING F	REVIEW
SAMPLE DETECTIONS R	EDORT	
# FIELD POINTS SAMPLED	EFORI	5
# FIELD POINTS SAMFLED # FIELD POINTS WITH DETECT	TIONS	2
	SAMPLE DETECTIONS ABOVE MCL	1
SAMPLE MATRIX TYPES	SATILE BETEGIONS ABOVE THE	WATER
5 · · · · 22 · · · · · · · · · · · · · ·		
METHOD QA/QC REP	<u>ORT</u>	
METHODS USED	8260FA,8260T	PH,SW8015B
TESTED FOR REQUIRED ANALY	TES?	Y
LAB NOTE DATA QUALIFIERS		Υ
04/00 500 0034/03	CO CERTES CAMPIES	
QA/QC FOR 8021/82 TECHNICAL HOLDING TIME VIO		0
		0
METHOD HOLDING TIME VIOLA	/E REPORTING DETECTION LIMIT	0 0
LAB BLANK DETECTIONS ABOVE	VE REPORTING DETECTION LIMIT	0
	021/8260 SERIES INCLUDE THE FOLLOWING	ŭ
- LAB METHOD BLANK	J21/0200 SERIES INCLUDE THE FOLLOWING	γ
- MATRIX SPIKE		N
- MATRIX SPIKE DUPLICATE		N
- BLANK SPIKE		Y
	-STANDARD SURROGATE USED	Y
SOURCE, THE NOW	STATE SOURCOME USED	•
WATER SAMPLES FOR 8	8021/8260 SERIES	
	DUPLICATE(S) % RECOVERY BETWEEN 65-	-135% Y
	E DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOV	` ,	Ϋ́
BLANK SPIKE / BLANK SPIKE D	OUPLICATES % 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> COLLECTED <u>DETECTIONS > REPDL</u> QCTB SAMPLES Ν 0 QCEB SAMPLES Ν 0 QCAB SAMPLES Ν 0

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

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

BP #11124 3315 HIGH OAKLAND, CA 94619	Regional Board - Case # SAN FRANCISCO BAY Local Agency (lead agen ALAMEDA COUNTY L	RWQCB (REGION 2) ncy) - Case #: RO00002	<u> 239</u>
CONF # TITLE 6556847751 4Q07 SUBMITTED BY	E 7 GW Monitoring Revisit SUBMIT DATE	QUARTEF Q4 200° STATUS	_
Broadbent & Associates,	Inc. 1/25/2008	PENDING REVIEW	/
SAMPLE DETECTIONS	REPORT		
# FIELD POINTS SAMPLED	<u>KLI OKI</u>		3
# FIELD POINTS WITH DETE	ECTIONS		1
	ER SAMPLE DETECTIONS ABOV	/E MCL	0
SAMPLE MATRIX TYPES		WA	TER
METHOD QA/QC RE	<u>PORT</u>		
METHODS USED		8260FA,8260	
TESTED FOR REQUIRED ANA			Y
LAB NOTE DATA QUALIFIERS	3		N
TECHNICAL HOLDING TIME VIONE TIME TIME VIONE			0 0 0
	8021/8260 SERIES INCLUDE	THE FOLLOWING?	Ü
- LAB METHOD BLANK	0021, 0200 02		Υ
- MATRIX SPIKE			Υ
- MATRIX SPIKE DUPLICATI	E		Y
- BLANK SPIKE	_		Υ
- SURROGATE SPIKE			Υ
WATER SAMPLES FOR	2 2024/0260 SEDIES		
WATER SAMPLES FOR	<u>K 6021/6260 SERIES</u> IKE DUPLICATE(S) % RECOVEF	OV DETWEEN 65-135%	Υ
	IKE DUPLICATE(S) % RECOVER IKE DUPLICATE(S) RPD LESS T		Υ
SURROGATE SPIKES % RECO		TIAN 50 /0	Ϋ́
	E DUPLICATES % RECOVERY B	FTWFFN 70-130%	Ϋ́
DE 5. INE , 22 2		LIWELIT 70 10070	•
SOIL SAMPLES FOR 80	021/8260 SERIES		
	IKE DUPLICATE(S) % RECOVER	RY BETWEEN 65-135%	n/a
	IKE DUPLICATE(S) RPD LESS T		n/a
SURROGATE SPIKES % RECO	• •		n/a
	E DUPLICATES % RECOVERY B	ETWEEN 70-130%	n/a
CICL D OO CAMDLES			
FIELD QC SAMPLES	0011 50TFD	S STECTIONS	
SAMPLE	COLLECTED	DETECTIONS > R	EPDL
SAMPLE QCTB SAMPLES	N	0	<u>EPDL</u>
SAMPLE			<u>EPDL</u>