



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 1257
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10 April 2007

Re: Soil & Ground-Water Investigation and
First 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

RECEIVED

12:47 pm, Apr 12, 2007

Alameda County
Environmental Health



**SOIL & GROUND-WATER
INVESTIGATION AND
FIRST QUARTER 2007 GROUND-WATER
MONITORING REPORT**
Former BP Station #11124
3315 High Street
Oakland, California

Prepared for:

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

Prepared by:

BROADBENT & ASSOCIATES, INC.
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10 April 2007

Project No. 06-08-652

10 April 2007

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

Attn.: Mr. Paul Supple

Re: Soil & Ground-Water Investigation and First Quarter 2007 Ground-Water Monitoring Report, Former BP Station #11124, 3315 High Street, Oakland, California;
ACEH Case # RO0000239

Dear Mr. Supple:

Broadbent & Associates, Inc. (BAI) is pleased to submit this *Soil & Ground-Water Investigation and First 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 description of field activities conducted and analytical results obtained during installation of two new monitoring wells on the Site. This report also presents a summary of results from ground-water monitoring and sampling conducted during the First Quarter of 2007.

Should you have questions or require additional information, please do not hesitate to contact us at (530) 566-1400.

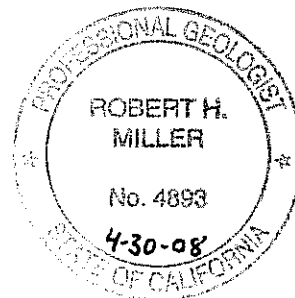
Sincerely,
BROADBENT & ASSOCIATES, INC.



Thomas A. Venus
Senior Engineer, P.E.



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 (Submitted via WebXtender)
Electronic copy uploaded to GeoTracker

1.0 INTRODUCTION

This document presents results of ground-water monitoring well installation activities associated with Station #11124 in Oakland, California. This report also presents a summary of results from ground-water monitoring and sampling conducted during the First Quarter of 2007.

2.0 SOIL & GROUND-WATER INVESTIGATION

Well installation activities were originally proposed in the *Soil and Water Investigation Report, Former BP Service Station 11124* (BAI, 14 April 2006). Additional ground-water characterization activities were conducted as requested by the Alameda County Environmental Health Services (ACEH) in their approval letter dated 8 August 2006. Monitoring well installation activities were conducted to determine the extent of contamination down-gradient and to the south-southeast from the UST complex and dispenser islands. This report presents a summary of the methods of investigation, field activities and observations, results of laboratory analyses, conclusions and recommendations. Activities included the following:

- Completed project set-up activities including: solicitation and contracting with a California-licensed drilling contractor to conduct drilling activities; site clearance of underground utilities prior to initiation of field activities-as required by law; and preparation of a Site Health & Safety Plan to inform project personnel of potential project hazards;
- Obtained permits from the Alameda County Public Works Agency for installation of two ground-water monitoring wells (MW-5 and MW-6).
- Observed drilling and construction of the two wells referenced above;
- On-site storage of soil cuttings in 55 gallon drums for disposal after appropriate characterization;
- Completed well development activities on new wells.
- Coordinated with a California licensed land surveyor to establish well latitude, longitude, and elevations; and
- Prepared this report detailing the above-mentioned activities.

Monitoring well installation activities included installation of monitor wells MW-5 and MW-6 on the Site downgradient (south-southeast) of the UST complex and dispenser islands. Details of the soil and ground-water investigation activities are provided below.

2.1 Soil Borings

Soil borings for monitoring wells MW-5 and MW-6 were drilled by Woodward Drilling, a California-licensed drilling contractor, using a B-57 Mobile Drill rig with eight-inch diameter hollow-stem augers. Soil borings MW-5 and MW-6 were drilled to a total depth of 30 feet below ground surface (ft bgs). During drilling activities, soil borings were described by the on-

site Stratus geologist using the Universal Soil Classification System (USCS). Field notes, lithologic boring logs and well construction logs are provided in Appendix A. Boring logs were uploaded to the GeoTracker AB2886 database. Copies of the upload confirmation reports (GEO_BORE files) are provided in Appendix C.

2.2 Soil Sampling

Soil samples were collected approximately every 10 feet during the drilling associated with the monitoring well installations. Collected soil samples were delivered under standard chain-of-custody protocol to Test America Analytical Testing Corporation (Morgan Hill, California), a State of California-certified analytical laboratory. Samples were analyzed for Gasoline Range Organics (GRO, hydrocarbon chain lengths C4-12) by the LUFT GCMS Method; for Diesel Range Organics (DRO, C10-C36) by EPA Method 8015B; for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX), tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Di-isopropyl ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Ethyl tert-butyl ether (ETBE), and Methyl tert-butyl ether (MTBE) by EPA Method 8260B.

The laboratory analytical report for soil boring samples, including chain-of-custody documentation, is provided in Appendix A. Soil laboratory analytical results are also summarized in tabular format below.

Soil Boring Samples - Laboratory Analytical Results (mg/kg)							
Well ID	GRO	DRO	B	T	E	X	MTBE
MW5-11	<0.10	1.7	<0.005	<0.005	<0.005	<0.005	0.22
MW5-21	<0.10	1.6	<0.005	<0.005	<0.005	<0.005	0.073
MW5-31	<0.10	1.4	<0.005	<0.005	<0.005	<0.005	<0.005
MW6-11	56	9.5	0.41	<0.050	0.92	5.2	<0.025
MW6-21	<0.10	1.3	<0.005	<0.005	<0.005	<0.005	0.012
MW6-28	<0.10	1.4	<0.005	<0.005	<0.005	<0.005	<0.005

Detected hydrocarbon concentrations are represented with bold-typed font. Concentrations of DIPE, EDB, ETBE, TAME, TBA, and 1,2-DCA are not included in the above table as the results for these constituents were below their respective laboratory reporting limits. The laboratory noted that the chromatogram profiles for the detected DRO concentrations were inconsistent with patterns of the referenced fuel standards. No other significant irregularities were reported during laboratory analysis of the soil boring samples. The laboratory results for soil sample analyses were uploaded to the GeoTracker AB2886 database. Copies of the GeoTracker upload confirmation reports (EDF) are provided within Appendix C.

2.3 Monitoring Well Construction

Monitoring wells MW-5 and MW-6 were constructed using flush-threaded, two-inch diameter Schedule 40 PVC pipe. The factory-slotted 0.020-inch screen interval extends from 25 ft bgs to 30 ft bgs in each well. The filter pack surrounding the screen intervals consists of Number 3

silica sand from 23 ft bgs to 30 ft bgs. Each wellhead was secured with a locking well cap, and protected by a traffic-rated well vault set flush with the local ground surface. Additional details of well construction are provided in the field notes, lithologic boring logs and well construction logs provided in Appendix A. Well construction information was uploaded to the GeoTracker AB2886 database. Copies of GeoTracker upload confirmation reports are provided within Appendix C.

2.4 Well Surveying and Development

The site was resurveyed, incorporating new wells MW-5 and MW-6, by Morrow Surveying of Sacramento, California on 27 December 2006. The data package from Morrow Surveying is provided within Appendix A. This well survey information was uploaded to the GeoTracker AB2886 database. Copies of the GeoTracker upload confirmation reports (GEO_MAP, GEO_XY, and GEO_Z files) are provided within Appendix C.

Monitor wells MW-5 and MW-6 were developed on 17 January 2007. Well development activities for MW-5 consisted of surging and bailing the well until relatively silt-free water was removed, while a ground-water pump was used for MW-6. A pump was not utilized for the development activities of MW-5 due to slow recharge into the well casing. Both wells ran dry before the goal of purging 10 wetted casing volumes of water was removed: Well MW-5 ran dry after approximately 11.0 gallons of the targeted 33.5 gallons were purged; Well MW-6 ran dry after approximately 25.0 gallons of the targeted 34.0 gallons were purged. After development, the wells were left to hydraulically equilibrate prior to water level measurement and sampling. When equilibration was complete the depth to water was measured in each well. Monitored ground-water level elevation data is provided within Appendix A.

2.5 Investigation-derived Residuals Management

Down-hole equipment was decontaminated between uses in each well to minimize potential for cross-contamination. Decontamination consisted of cleaning down-hole equipment in a wash solution of Liquinox, rinsing in tap water, followed by a final rinse with distilled water. Drill cuttings were monitored during generation with a photo-ionization detector (PID). Drill cuttings were placed in 55-gallon drums, labeled and accumulated on-site until waste profiling and proper disposal could take place. Belshire Environmental Services Inc. (Lake Forest, California) was responsible for the disposal of these waste drums. The drums containing concrete were transported to Elwes Materials (Irvine, California), those containing liquids were treated at DeMenno Kerdoon (Compton, California), and the drums filled with soil taken to TPST Soil Recyclers (Adelanto, California) for treatment and/or disposal.

3.0 GROUND-WATER MONITORING AND SAMPLING

First quarter 2007 ground-water monitoring and sampling was initially conducted at Station #11124 on 6 February 2007 by Doulos Environmental, Inc. personnel for Stratus. However, field personnel neglected to collect ground-water elevation data or water samples from the new

wells MW-5 or MW-6, (only partially collecting samples and elevation data from wells MW-1, MW-2, and MW-4). Therefore, on 13 March 2007 Doulos field personnel revisited the Site and collected water level data from the five onsite wells. No irregularities were noted during water level gauging, with the following exception: the 13 March 2007 depth-to-bottom measurement in well MW-2 was measured at 28.80 ft below the top of casing. Since 2004, this well had been partially blocked at approximately 10 ft bgs by plant roots.

Depth to water measurements on 13 March 2007 ranged from 7.55 ft at MW-2 to 9.62 ft at MW-1. Resulting ground-water surface elevations ranged from 147.72 ft above mean sea level in up-gradient well MW-1 to 146.73 ft at well MW-5. Depth to water measurements were between historic minimum and maximum ranges for each well, as summarized in Table 1, with the following exceptions: MW-4's measurement of 7.56 ft bgs was the shallowest on recent record for that well. Resulting water level elevations were used to create potentiometric contours, with the exception that elevations from new wells MW-5 and MW-6 were not used due to the construction differences between these two wells and the three others on the Site. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the southwest at approximately 0.006 ft/ft, generally consistent with historical data although it represented a new minimum gradient (see Table 3). Ground-water monitoring field data sheets are provided within Appendix B. Measured depths to ground-water and respective ground-water elevations are summarized in Table 1. Potentiometric ground-water elevation contours are presented in Drawing 2.

As mentioned previously, just wells MW-1, MW-2, and MW-4 were sampled on 6 February 2007. These samples were submitted under standard chain-of-custody protocol to Test America Analytical Testing Corporation (TAMC, Morgan Hill, California), for analysis of GRO by the LUFT GCMS Method; for BTEX, TAME, TBA, DIPE, EDB, 1,2-DCA, Ethanol, ETBE, and MTBE by EPA Method 8260B. During the subsequent monitoring event on 13 March 2007, wells MW-5 and MW-6 were sampled, and the samples submitted to TAMC for the analyses listed above. In addition, samples from the five onsite wells were also collected on 13 March 2007, and the samples submitted to TAMC for analysis of Diesel Range Organics (DRO, C10-C36). No irregularities were reported during sampling, or laboratory analysis of the samples, with the following exceptions:

- The laboratory reported that the GRO concentration of 86 µg/L in MW-6 was partly due to individual peak(s) in the quantitation range;
- The laboratory reported that for the DRO concentration of 52 µg/L in well MW-2, the chromatogram profile was inconsistent with patterns of the referenced fuel standard;

Results of laboratory analyses are summarized in the tables below and reported in historical context within Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 2. Copies of the Laboratory Analytical Reports, including chain-of-custody documentation are provided in Appendix B.

2/6/2007 Well Samples – Laboratory Analytical Results (µg/L)							
Well ID	GRO	DRO	B	T	E	X	MTBE
MW-1	<50	--	<0.50	<0.50	<0.50	<0.50	1.1
MW-2	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50
MW-4	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50
MW-5	--	--	--	--	--	--	--
MW-6	--	--	--	--	--	--	--

3/13/2007 Well Samples – Laboratory Analytical Results (µg/L)							
Well ID	GRO	DRO	B	T	E	X	MTBE
MW-1	--	<48	--	--	--	--	--
MW-2	--	52	--	--	--	--	--
MW-4	--	<49	--	--	--	--	--
MW-5	880	<48	<0.50	<0.50	<0.50	<0.50	1,400
MW-6	86	<48	<0.50	<0.50	<0.50	<0.50	88

In addition, TAME was detected above the laboratory reporting limit in well MW-5 at a concentration of 6.5 micrograms per liter (µg/L). The remaining fuel additives and oxygenates were not detected above their 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. Ground-water monitoring data (GEO_WELL files) and laboratory analytical results (EDFs) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix C.

The following data summarizes the quarterly monitoring information:

WORK PERFORMED THIS QUARTER (First Quarter 2007):

1. Submitted Fourth Quarter 2006 Ground-Water Monitoring Report.
2. Conducted ground-water monitoring/sampling for First Quarter 2007. Work performed by Stratus Environmental, Inc. (Stratus) on 6 February 2007 and 13 March 2007.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2007):

1. Prepared and submitted Soil & Water Investigation and First Quarter 2007 Ground-Water Monitoring Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for Second Quarter 2007.
3. Prepare and submit Initial Site Conceptual Model report.

QUARTERLY RESULTS SUMMARY:

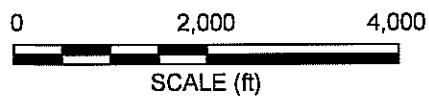
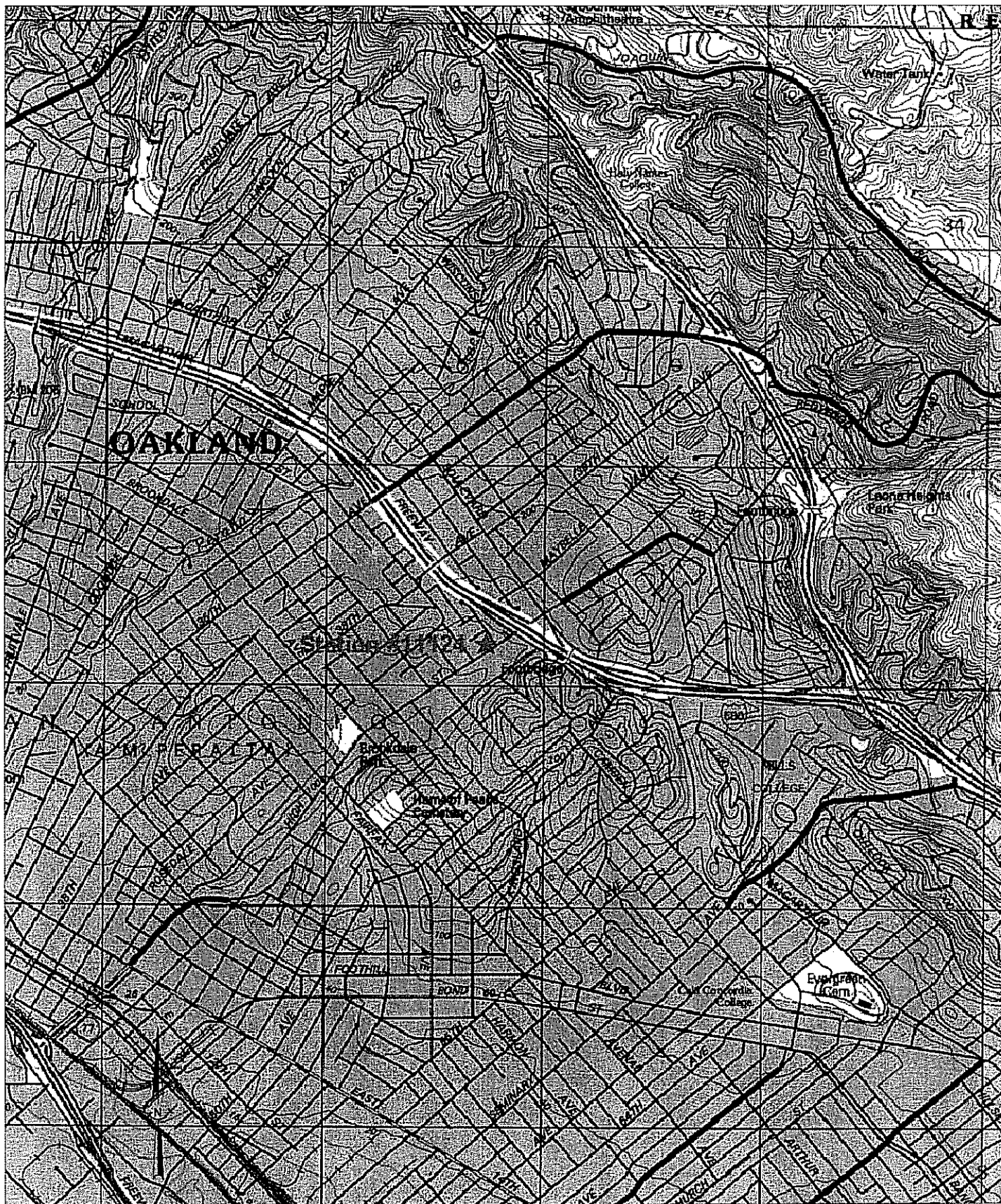
Current phase of project:	Ground-Water Monitoring/Sampling
Frequency of ground-water monitoring:	Quarterly: Wells MW-1, MW-2, MW-4, MW-5, MW-6
Frequency of ground-water sampling:	Quarterly: Wells MW-1, MW-2, MW-4, MW-5, MW-6
Is free product (FP) present on-site:	No
FP recovered this quarter:	None
Cumulative FP recovered:	None
Current remediation techniques:	None
Depth to ground water (below TOC):	7.55 (MW-2) to 9.62 (MW-1)
General ground-water flow direction:	Southwest
Approximate hydraulic gradient:	0.006 ft/ft

4.0 CONCLUSIONS AND RECOMMENDATIONS

BAI concludes that the objectives of the investigation were fulfilled, namely to determine the absence or presence of contamination down-gradient and to the south-southeast from the UST complex and dispenser islands. BAI recommends that monitoring wells MW-5 and MW-6 be incorporated into the quarterly monitoring and sampling schedule for Station #11124 in order to further evaluate the extent and degree of hydrocarbon contamination onsite. Therefore, wells MW-1, MW-2, MW-4, MW-5 and MW-6 should be gauged and sampled on a quarterly basis (normally the second month of each calendar quarter). The same procedures and analyses used for the existing wells onsite should also be performed on samples collected from MW-5 and MW-6. Samples shall be submitted under chain-of-custody protocol to a state-certified environmental laboratory. Samples shall be analyzed for GRO, BTEX, TAME, TBA, DIPE, EDB, 1,2-DCA, Ethanol, ETBE, and MTBE by EPA Method 8260B, and DRO by EPA Method 8015 Modified. Also, an initial Site Conceptual Model (SCM) is under preparation for this Site and will be presented under separate cover, in accordance with correspondence exchanged with Alameda County Environmental Health.

5.0 CLOSURE

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



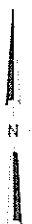
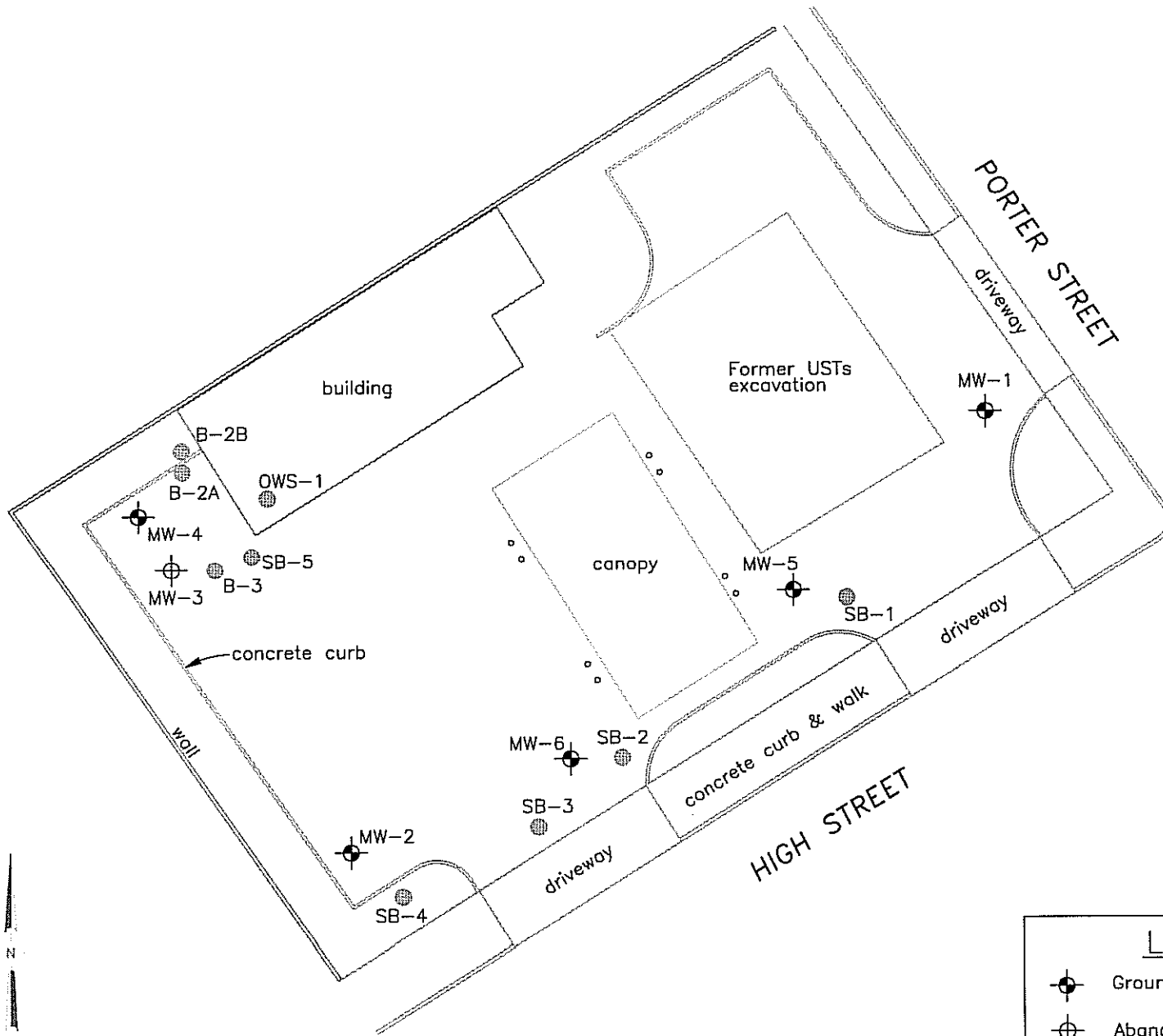
BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave. Suite 212, Chico, California 95926
 Date: 4/10/07 Project No.: 06-08-652

Former BP Service Station #11124
 3315 High Street
 Oakland, California

Site Location Map

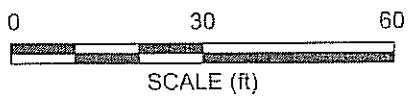
Drawing

1



Legend	
	Groundwater monitoring well
	Abandoned monitoring well
	Soil boring or sample location

NOTE: SITE MAP ADAPTED FROM STRATUS ENVIRONMENTAL, INC FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

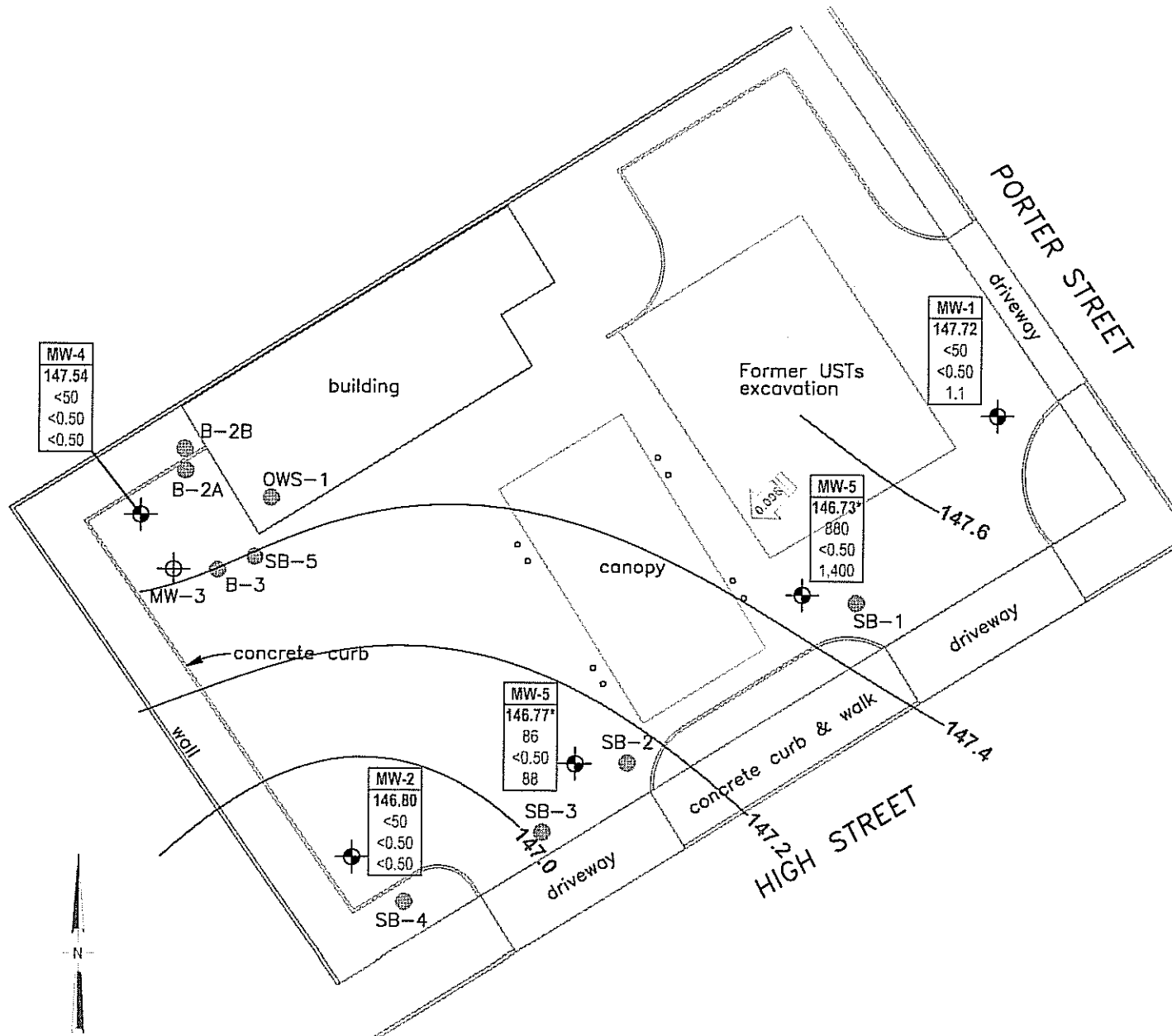


BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave. Suite 212 Chico, CA
 Project No.: 06-08-652 Date: 02/15/07

Former Station #11124
 3315 High Street
 Oakland, California

SITE MAP

Drawing
2



MW-4
147.54
<50
<0.50
<0.50

MW-1
147.72
<50
<0.50
1.1

MW-5
146.73*
880
<0.50
1,400

MW-5
146.77*
86
<0.50
88

MW-2
146.80
<50
<0.50
<0.50

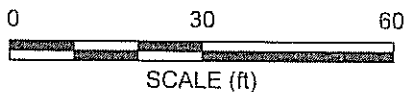
NOTE: SITE MAP ADAPTED FROM STRATUS ENVIRONMENTAL, INC FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

LEGEND

- Ground-water monitoring well
- Abandoned monitoring well
- Soil boring or sample location

Well	Well Designation
ELEV	Ground-water elevation (ft MSL)
GRO	GRO. Benzene & MTBE concentrations (µg/L)
Benzene	
MTBE	

- 147.0 Ground-water elevation (ft MSL)
- Elevation not used in contours
- < Not detected at or above laboratory reporting limits
- Ground-water flow direction and gradient (ft/ft)



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212 Chico, CA
Project No.: 06-08-652 Date: 4/6/07

Former Station #11124
3315 High Street
Oakland, California

Ground-Water Elevation Contours
and Analytical Summary Map
13 March 2007

Drawing
3

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

Station #11124, 3315 High St., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet msl)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE					
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	--
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	--
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	--	--
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	--
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	--

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

Station #11124, 3315 High St., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet msl)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)					DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes						MtBE
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	-

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
µg/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.

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 Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
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	
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	
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	
MW-5									
3/13/2007	<3,000	<200	1,400	<5.0	<5.0	6.5	<5.0	<5.0	
MW-6									
3/13/2007	<300	<20	88	<0.50	<0.50	<0.50	<0.50	<0.50	

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

µg/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 #I1124, 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
1/12/2006	South	0.013
3/13/2007	Southwest	0.006

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 WELL INSTALLATION DATA PACKAGE

(Includes Field Data Sheets, Laboratory Analytical Reports with Chain-of-Custody Documentation, Lithologic Boring Logs and Well Construction Logs)



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

January 26, 2007

RECEIVED
FEB 02 2007
BY: _____

RECEIVED
FEB 05 2007
BY: _____

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

Re: Well Installation Data Package, Former BP Service Station No. 11124, located at 3315 High Street, Oakland, California (utility locating and assessment activities performed between November 20 and January 17, 2007)

General Information

Data Submittal Prepared / Reviewed by: Scott Bittinger / Jay Johnson
Phone Number: (530) 676-2062

Date: November 20, 2006 *Arrival:* 08:55 *Departure:* 09:30
On-Site Supplier Representative: Scott Bittinger
Scope of Work Performed: Meet with utility locating contractor at site to clear boring location, mark for USA.
Variations from Work Scope: None noted
Weather Conditions: Not noted
Unusual Field Conditions: None noted

Date: December 11, 2006 *Arrival:* 07:45 *Departure:* 15:30
On-Site Supplier Representative: Scott Bittinger
Scope of Work Performed: Air knifed holes for drilling event
Variations from Work Scope: None noted
Weather Conditions: Not noted
Unusual Field Conditions: None noted

Date: December 12, 2006 *Arrival:* 07:40 *Departure:* 17:00
On-Site Supplier Representative: Scott Bittinger
Scope of Work Performed: Installed two groundwater monitoring wells to 30 feet bgs.
Variations from Work Scope: None noted
Weather Conditions: Not noted
Unusual Field Conditions: None noted

January 26, 2007

Date: January 17, 2007 *Arrival:* unknown *Departure:* unknown
On-Site Supplier Representative: Greg Wilkins and Vincent Zalutka
Scope of Work Performed: Developed recently completed wells MW-5 and MW-6
Variations from Work Scope: Well MW-5 was developed by surging and bailing only (no groundwater pumping) due to slow recharge into the well casing.
Weather Conditions: Not noted
Unusual Field Conditions: None noted

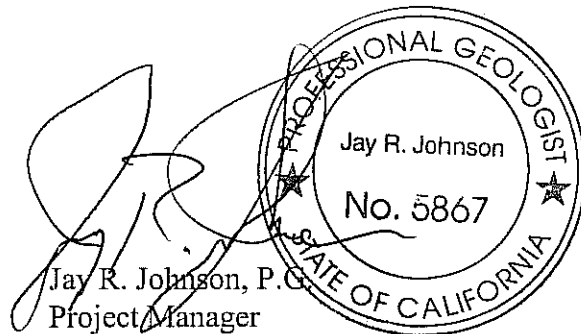
This submittal presents the data collected in association with the installation of two groundwater monitoring wells. The attachments include field data sheets, boring log, well details, well completion reports, and well installation permit. The information is being provided to BP-ARCO's Scoping Supplier 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.



F04 Scott G. Bittinger, P.G.
Project Geologist



Attachments:

- Field Data Sheets
- Boring Logs
- Well Detail Diagrams
- DWR Well Completion Forms
- Drilling Permit
- Site Plan
- Surveyor's Map/Report
- Certified Analytical Reports

ANN

Former BP 11124, Oakland

Onsite 8:55 w/ Chris Funn (JUZ Brothers)

Site is a closed down service station. Property is currently vacant.

A fire station (Engine 17) is directly across the street.

MW-6 is asphalt, MW-5 could be placed on concrete or asphalt. (preferably)

mark bearings for USA.

No Bathroom onsite

Water may not be available

no No visible signs of UST's in ground. Fuel pumps are removed. Hot work permit & fire watch should be needed

Swill Baltzer

offsite 9:30.

Stark Environmental, Inc.

11-20-06.

Former BP 11124, 3315 High St., Oakland

12-11-00

Onsite at 7:45, DM Aircraft crew arrives 8:10 - 8:15.

Display work & HHS issues

Begin vac-cleaning at 9:00 at MW-6. Soil is fine grained, so vac
cleaning is slow, bricks & concrete pieces are mixed in with the dirt

Finish MW-6 cleaning at 11:20

move to MW-5. Begin at 11:45.

Finish MW-5 location at 15:00

Offsite 15:30

Scott G. Atty

Stark's Environmental, Inc.

Former BP # 11124

12-12-06

Onsite 7:40 for well installation.

Drill crew late, arriving at 8:45 (driller's helper) & 9:55.
(driller w/dill rig).

Drill MW-5 between 10:15 & 1:00. Paul Supply from BP Office,
& Rob Miller from Broadhead & Associates onsite during advancement
of boring.

Boring was completed to 30' bgs, after observing water in log of samples,
Starks requested that the drill crew raise the casing up to 26' bgs
to allow for reworking of casing. After measuring about 0.8' recharge
in about 25 min, we decide to screen MW-5 from 25'-30'.

Vicki Hampton from Alameda County observed Grouting of MW-5.
She asked that the original copies of DWIR packet be sent to them
first, & then they will send to state.

Paul & Rob return for drilling of MW-6

Vicki from Alameda County onsite 15:15 - 15:30.

Drill MW-6 between 1:30 & 3:30. Well MW-6 set w/ same
specs as MW-5

4 drums - soil

4 drums - water-soil-debris mixture.

1 drum cement

1 drum cement & water

2 drums insulate water

u

Offsite 17:00

Scott Gilman

J. Frances Evans

SOIL BORING LOG

Boring No. MW-5

Sheet 1 of 2

Client	<u>Former BP Station #11124</u>	Date	<u>12/12/2006</u>
Address	<u>3315 High Street</u> <u>Oakland, California</u>	Drilling Company	<u>Woodward Drilling</u> rig type: <u>Mobile Drill B-57</u>
Project No.	<u>E-11124-01</u>	Driller	<u>Jason/Chris</u>
Logged By:	<u>Scott Bittinger</u>	Method	<u>Hollow Stem Auger</u> hole diam.: <u>8"</u>
Well Pack	<u>sand: 23 ft. to 30 ft.</u> <u>bent.: 20 ft. to 23 ft.</u> <u>grout: 0 ft. to 20 ft.</u>	Well Construction	<u>casing: PVC</u> screen interval: <u>25'-30'</u> <u>casing diam.: 2"</u> screen slot size: <u>0.02"</u>
		Depth to GW:	<input checked="" type="checkbox"/> first encountered groundwater <input type="checkbox"/> static groundwater

Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						1	Asphalt surface		
						2			
						3	fine grained fill soil with construction debris (bricks, rocks, concrete)		
						4			
						5			
		3				6			
S	MW5-6	8	10:26	90		6	SC CLAYEY SAND, strong brown, 65% fine to coarse grained sand, 35% clayey fines, moist	1	
						7			
						8			
						9			
						10			
		4				11	SC CLAYEY SAND, strong brown, 55% fine to coarse grained sand, 45% clayey fines, moist (10'-11')	2	
S	MW5-11	11	10:36	100		11			
						12	CL SANDY CLAY, light olive brown, 85% clayey fines, 15% predominately fine grained sand, trace coarse grained sand, dry (11'-11.5')		
						13			
						14			
						15			
		5				16			
		9				16			
S	MW5-16	13	10:53	100		16	CL CLAY with SAND, dark yellowish brown, 85-90% clay, trace silt, 10-15% fine to coarse grained sand, dry	2	
						17			
						18			
						19			
						20	SC		

Comments: Sampled to 31.5' bgs, drilled to 30' bgs to complete well.



SOIL BORING LOG

Boring No. MW-5

Sheet 2 of 2

Client Former BP Station #11124 Date 12/12/2006
 Address 3315 High Street Drilling Company Woodward Drilling rig type: Mobile Drill B-57
Oakland, California Driller Jason/Chris
 Project No. E-11124-01 Method Hollow Stem Auger hole diam.: 8"
 Logged By: Scott Bittinger

Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
		4 9			▽	2 1	SC CLAYEY SAND 20'-20.4', dark yellowish brown, 65% fine to coarse grained sand, 35% clayey fines, moist		
S	MW5-21	20	11:00	100		2 2	CL CLAY, light olive brown with iron oxide stains, <4% fine to coarse grained sand, trace silt, moist (20.4'-21.5')	2	
						2 3			
						2 4			
						2 5			
		7 10				2 6	CL CLAY, dark yellowish brown, trace silt, <2% fine to coarse grained sand, moist	0	
S	MW5-26	13	11:10	100		2 7			
						2 8			
						2 9			
						3 0			
		8 8			3 1	CL CLAY, dark yellowish brown, trace silt, <2% fine to coarse grained sand, moist	0		
S	MW5-31	12	11:35	100					

Comments: Groundwater first observed between 25' and 30' bgs. Prior to selecting screening interval, the augers used to advance the borehole were retracted from 30' to 26' bgs. Approximately 0.8' of groundwater recharge into the borehole was measured within approximately 2 minutes; Stratus subsequently selected a screening interval of 25' to 30' bgs for the well.

SOIL BORING LOG

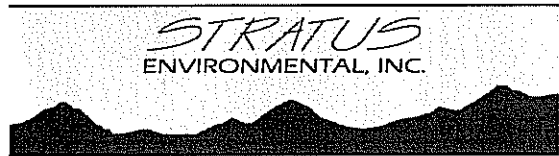
Boring No. MW-6

Sheet 1 of 2

Client	<u>Former BP Station #11124</u>	Date	<u>12/12/2006</u>
Address	<u>3315 High Street</u> <u>Oakland, California</u>	Drilling Company	<u>Woodward Drilling</u> rig type: <u>Mobile Drill B-57</u>
Project No.	<u>E-11124-01</u>	Driller	<u>Jason/Chris</u>
Logged By:	<u>Scott Bittinger</u>	Method	<u>Hollow Stem Auger</u> hole diam.: <u>8"</u>
Well Pack	<u>sand: 23 ft. to 30 ft.</u> <u>bent.: 20 ft. to 23 ft.</u> <u>grout: 0 ft. to 20 ft.</u>	Well Construction	<u>casing: PVC</u> screen interval: <u>25'-30'</u> <u>casing diam.: 2"</u> screen slot size: <u>0.02"</u>
		Depth to GW:	<input checked="" type="checkbox"/> first encountered groundwater <input type="checkbox"/> static groundwater

Sample Type	Sample No.	Blow Count	Sample		Well Constr. ct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	Asphalt surface		
						2			
						3	fine grained fill soil with construction debris (bricks, rocks, concrete)		
						4			
						5			
S	MW6-6	9 19 20	13:47	90		6	SC CLAYEY SAND with GRAVEL, dark gray, 40% clayey fines, 50% fine to coarse grained sand, 10% gravel (pieces exceed 2" in diameter), moist	3	
						7			
						8			
						9			
						10			
S	MW6-11	7 11 13	13:55	100		11	SC CLAYEY SAND 10'-11.3', dark yellowish brown, 65-70% fine to coarse grained sand, 30-35% clayey fines, moist	174	
						12	CL CLAY with SAND 11.3'-11.5', dark yellowish brown, 90-95% clayey fines, 5-10% fine to coarse grained sand, dry		
						13			
						14			
						15			
S	MW6-16	12 12 14	14:00	70		16	CL SANDY CLAY, dark yellowish brown, 85% clayey fines, 15% fine to coarse grained sand, moist	1	
						17			
						18			
						19			
						20			

Comments: Sampled to 29' bgs, drilled to 30' bgs to complete well.



SOIL BORING LOG

Boring No. MW-6

Sheet 2 of 2

Client Former BP Station #11124
 Address 3315 High Street
Oakland, California
 Project No. E-11124-01
 Logged By: Scott Bittinger

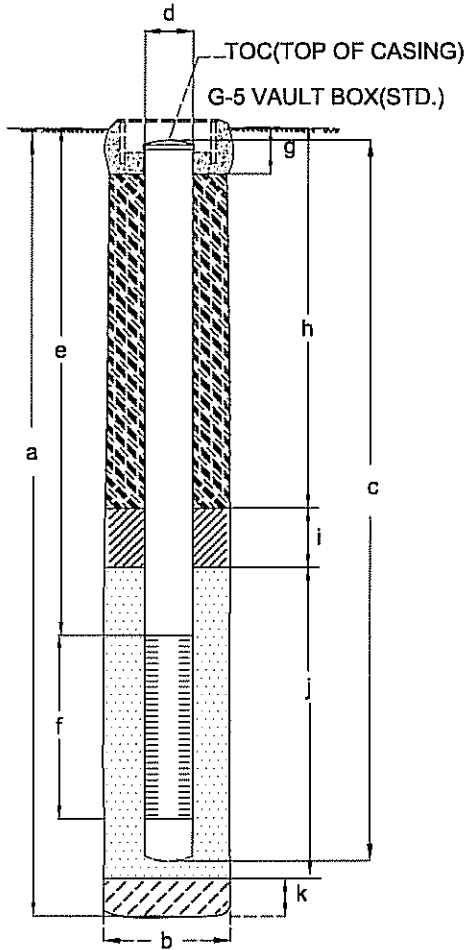
Date 12/12/2006
 Drilling Company Woodward Drilling rig type: Mobile Drill B-57
 Driller Jason/Chris
 Method Hollow Stem Auger hole diam.: 8"






Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
		5							
		6				2 1	CL	CLAY with SAND, dark yellowish brown, 5-8% fine to medium grained sand, trace silt, trace manganese oxide staining, moist	0
S	MW6-21	10	14:10	100		2 2			
						2 3			
						2 4			
						2 5			
		4					CL	SANDY CLAY, dark yellowish brown, 15-20% fine to coarse grained sand, trace fine gravel, moist	0
S	MW6-26	15	14:20	100		2 6			
						2 7			
		3			▽	2 8	SC	CLAYEY SAND 27.5'-28.6', 77% fine grained sand, 3% coarse grained sand, 20% clayey fines, damp	0
S	MW6-28	6	14:30	100		2 9			
						2 9	CL	CLAY 28.6'-29', dark yellowish brown, 3-5% fine to coarse grained sand, moist	0
						3 0			
						3 1			

WELL DETAILS

PROJECT NUMBER: U11124
 PROJECT NAME: Former BP Station no. 11124
 LOCATION: 3315 High Street, Oakland, California
 WELL PERMIT NO.: W2006-1009

BORING/WELL NO.: MW-5
 TOP OF CASING ELEV.: _____
 GROUND SURFACE ELEV.: _____
 DATUM: _____
 INSTALLATION DATE: December 12, 2006



- | | |
|---|---|
|  BENTONITE |  CONCRETE |
|  CEMENT |  SAND |
| |  PERFORATION |

NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 30 ft.
 b. DIAMETER 8 in.
 DRILLING METHOD Hollow stem auger

WELL CONSTRUCTION

c. TOTAL CASING LENGTH 30 ft.
 MATERIAL Schedule 40 PVC
 d. DIAMETER 2 in.
 e. DEPTH TO TOP PERFORATIONS 25 ft.
 f. PERFORATED
 INTERVAL FROM 25 TO 30 ft.
 PERFORATION TYPE Slotted Screen
 PERFORATION SIZE 0.02 in.
 g. SURFACE SEAL 0 to 1 ft.
 SEAL MATERIAL Concrete
 h. BACKFILL 1 to 20 ft.
 BACKFILL MATERIAL Neat Cement
 i. SEAL 20 to 23 ft.
 SEAL MATERIAL Bentonite
 j. FILTER PACK 23 to 30 ft.
 FILTER PACK MATERIAL #3 Sand
 k. BOTTOM SEAL _____ ft.
 SEAL MATERIAL NA

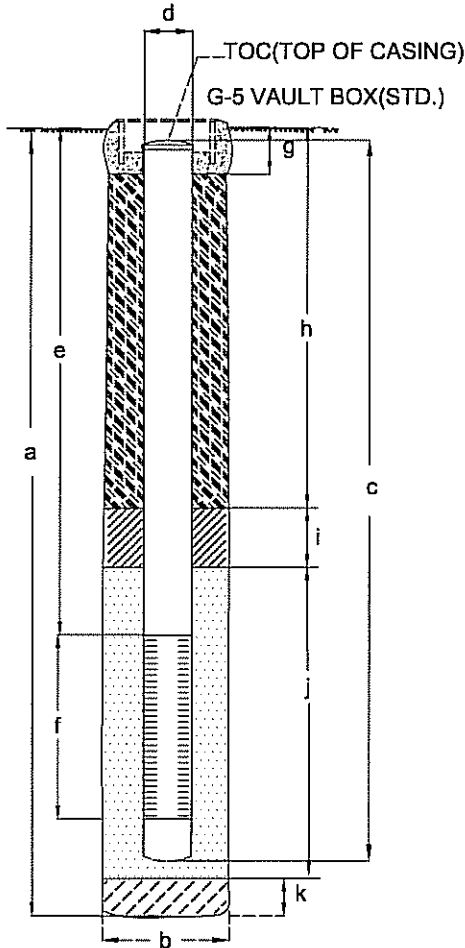
PREPARED BY _____ DATE _____






REVIEWED BY _____ DATE _____

WELL DETAILS

PROJECT NUMBER: U11124
 PROJECT NAME: Former BP Station no. 11124
 LOCATION: 3315 High Street, Oakland, California
 WELL PERMIT NO.: W2006-1010

BORING/WELL NO.: MW-6
 TOP OF CASING ELEV.: _____
 GROUND SURFACE ELEV.: _____
 DATUM: _____
 INSTALLATION DATE: December 12, 2006



- | | |
|---|---|
|  BENTONITE |  CONCRETE |
|  CEMENT |  SAND |
| |  PERFORATION |

NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 30 ft.
 b. DIAMETER 8 in.
 DRILLING METHOD Hollow stem auger

WELL CONSTRUCTION

c. TOTAL CASING LENGTH 30 ft.
 MATERIAL Schedule 40 PVC
 d. DIAMETER 2 in.
 e. DEPTH TO TOP PERFORATIONS 25 ft.
 f. PERFORATED
 INTERVAL FROM 25 TO 30 ft.
 PERFORATION TYPE Slotted Screen
 PERFORATION SIZE 0.02 in.
 g. SURFACE SEAL 0 to 1 ft.
 SEAL MATERIAL Concrete
 h. BACKFILL 1 to 20 ft.
 BACKFILL MATERIAL Neat Cement
 i. SEAL 20 to 23 ft.
 SEAL MATERIAL Bentonite
 j. FILTER PACK 23 to 30 ft.
 FILTER PACK MATERIAL #3 Sand
 k. BOTTOM SEAL _____ ft.
 SEAL MATERIAL NA

PREPARED BY _____ DATE _____

REVIEWED BY _____ DATE _____

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 12/01/2006 By jamesy

**Permit Numbers: W2006-1009 to W2006-1010
Permits Valid from 12/12/2006 to 12/13/2006**

Application Id: 1164931003388
Site Location: 3315 High St. Oakland, CA 94619
Project Start Date: 12/12/2006
Extension Start Date: 12/12/2006
Extension Count: 1

City of Project Site: Oakland
Completion Date: 12/13/2006
Extension End Date: 12/13/2006
Extended By: vickyh1

Applicant: Stratus Environmental - Scott Bittinger
3330 Cameron Park Dr #550, Cameron Park, CA 95682
Property Owner: BP ARCO
4 Centerpointe Dr., La Palma, CA 90623
Client: ** same as Property Owner **

Phone: 530-676-2062
Phone: 925-946-1085

	Total Due:	\$600.00
Receipt Number: WR2006-0531	Total Amount Paid:	\$600.00
Payer Name : Stratus Environmental	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 2 Wells

Driller: Woodward Drilling - Lic #: 710079 - Method: auger

Work Total: \$600.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2006-1009	12/01/2006	03/18/2007	MW-5	8.00 in.	2.00 in.	25.00 ft	40.00 ft
W2006-1010	12/01/2006	03/18/2007	MW-6	8.00 in.	2.00 in.	25.00 ft	40.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter

Alameda County Public Works Agency - Water Resources Well Permit

10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

6. Minimum surface seal thickness is two inches of cement grout placed by tremie

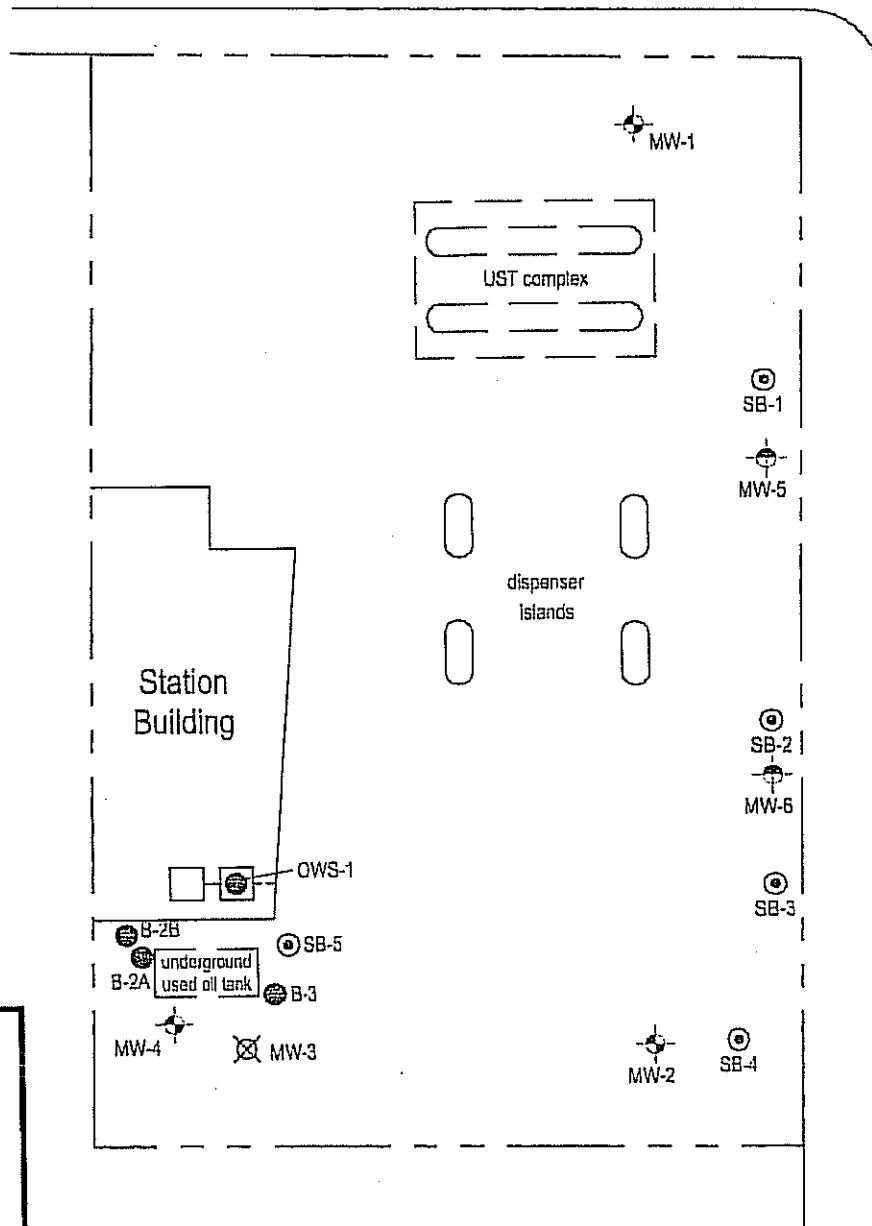
7. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

9. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

PORTER STREET

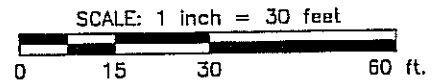
HIGH STREET



LEGEND

- Groundwater monitoring well
- Proposed monitoring well
- Abandoned monitoring well
- Soil boring location (2006)
- Soil boring or sample location

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



Proposed Well Locations
Former BP Service Station #11124
Oakland, California

Project No. 06-08-655

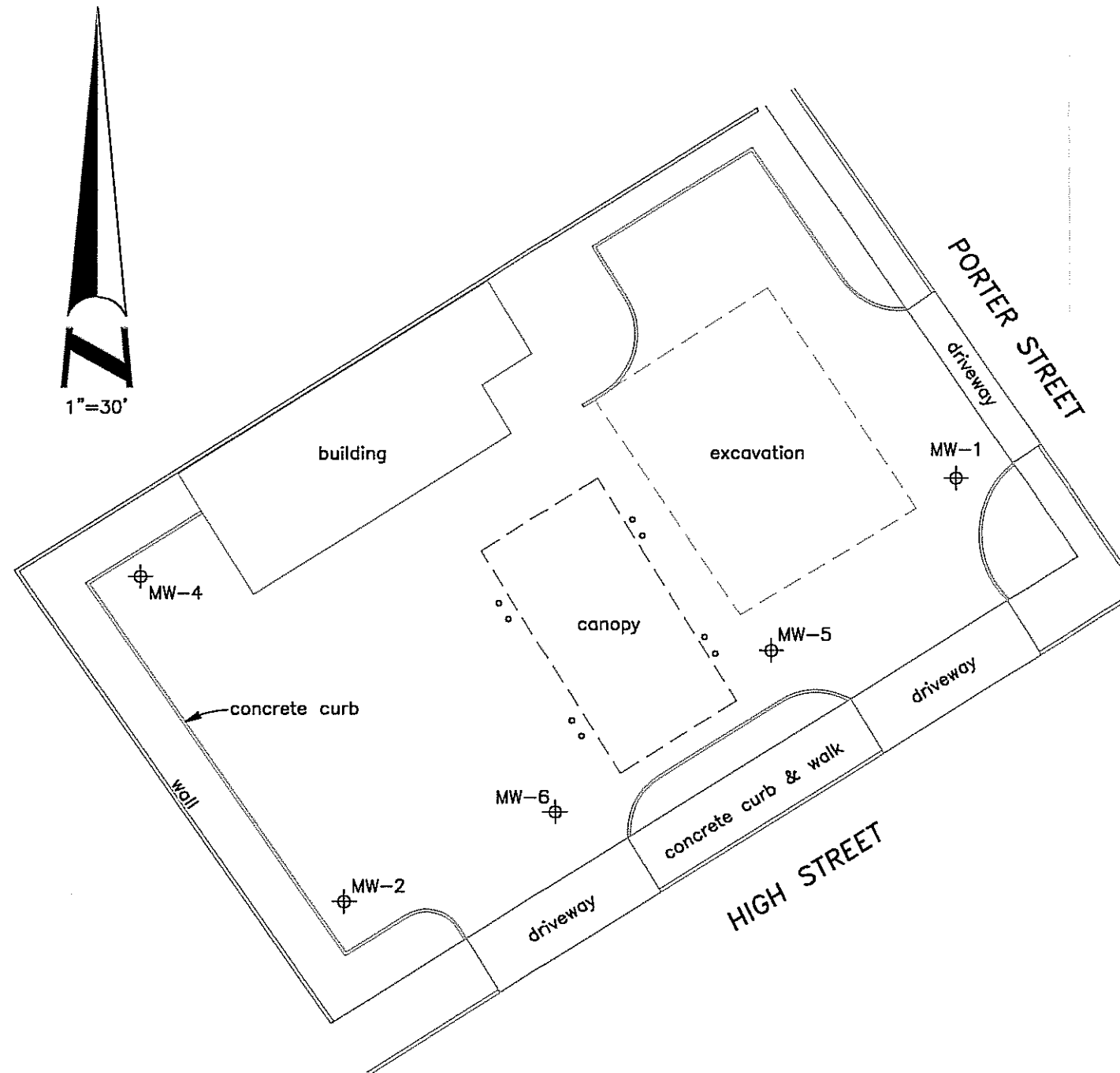
Drawing No. 1

Prepared by: JTG Approved by: TAV Date: 11/03/2006

File Name: Proposed Monitor Well Locations.dwg

Monitoring Well Exhibit

Prepared For:
Stratus Environmental, Inc.



DESCRIPTION	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV (PVC)	ELEV (BOX)
MW-1	2113175.1	6071161.0	37.7862485	-122.1963957	157.34	157.62
MW-2	2113091.0	6071039.3	37.7860114	-122.1968115	154.35	154.60
MW-4	2113155.7	6070998.9	37.7861871	-122.1969555	155.10	155.55
MW-5	2113140.8	6071124.2	37.7861526	-122.1965210	155.45	155.77
MW-6	2113108.8	6071081.4	37.7860624	-122.1966672	154.59	154.86

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.35.

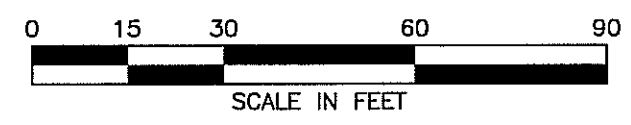
COORDINATE DATUM IS NAD 83(1986).

DATUM ELLIPSOID IS GRS80.

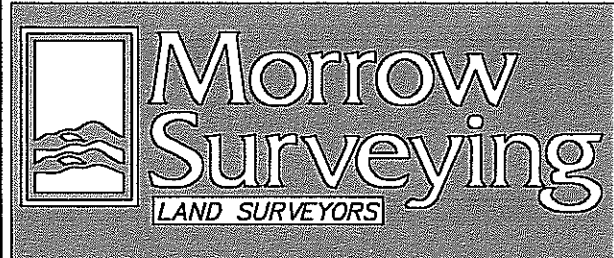
REFERENCE GEOID IS NGS99.

CORS STATIONS USED WERE MONB AND UCD1.

VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.



Service Station
 3315 High Street
 Oakland
 Alameda County
 California



1450 Harbor Blvd. Ste. D
 West Sacramento
 California 95691
 (916) 372-8124
 jeff@morrrowsurveying.com

Date: 12-27-06
 Scale: 1" = 30'
 Sheet 1 of 1
 Revised:
 Field Book:
 Dwg. No. 7502-044 CT

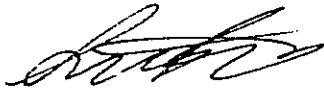
2 January, 2007

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

RE: BP Heritage #11124, Oakland ,CA
Work Order: MPL0517

Enclosed are the results of analyses for samples received by the laboratory on 12/14/06 11:00. 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.

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

Project: BP Heritage #11124, Oakland ,CA
Project Number: G099D-0014
Project Manager: Jay Johnson

MPL0517
Reported:
01/02/07 16:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW5-11	MPL0517-01	Soil	12/12/06 10:36	12/14/06 11:00
MW5-21	MPL0517-02	Soil	12/12/06 11:00	12/14/06 11:00
MW5-31	MPL0517-03	Soil	12/12/06 11:35	12/14/06 11:00
MW6-11	MPL0517-04	Soil	12/12/06 13:55	12/14/06 11:00
MW6-21	MPL0517-05	Soil	12/12/06 14:10	12/14/06 11:00
MW6-28	MPL0517-06	Soil	12/12/06 14:30	12/14/06 11:00

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-0014
Project Manager: Jay Johnson

MPL0517
Reported:
01/02/07 16:13

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW5-11 (MPL0517-01) Soil Sampled: 12/12/06 10:36 Received: 12/14/06 11:00									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	6L20025	12/20/06	12/20/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		94 %	55-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	45-130		"	"	"	"	
Surrogate: Toluene-d8		98 %	70-120		"	"	"	"	
MW5-21 (MPL0517-02) Soil Sampled: 12/12/06 11:00 Received: 12/14/06 11:00									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	6L20025	12/20/06	12/20/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		98 %	55-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		99 %	45-130		"	"	"	"	
Surrogate: Toluene-d8		98 %	70-120		"	"	"	"	
MW5-31 (MPL0517-03) Soil Sampled: 12/12/06 11:35 Received: 12/14/06 11:00									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	6L20025	12/20/06	12/20/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		94 %	55-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	45-130		"	"	"	"	
Surrogate: Toluene-d8		96 %	70-120		"	"	"	"	
MW6-11 (MPL0517-04) Soil Sampled: 12/12/06 13:55 Received: 12/14/06 11:00									
Gasoline Range Organics (C4-C12)	56	2.5	mg/kg	1	6L21016	12/14/06	12/22/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	55-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	45-130		"	"	"	"	
Surrogate: Toluene-d8		102 %	70-120		"	"	"	"	

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

Project: BP Heritage #11124, Oakland, CA
Project Number: G099D-0014
Project Manager: Jay Johnson

MPL0517
Reported:
01/02/07 16:13

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW6-21 (MPL0517-05) Soil Sampled: 12/12/06 14:10 Received: 12/14/06 11:00									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	6L20025	12/20/06	12/20/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		96 %	55-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	45-130		"	"	"	"	
Surrogate: Toluene-d8		97 %	70-120		"	"	"	"	
MW6-28 (MPL0517-06) Soil Sampled: 12/12/06 14:30 Received: 12/14/06 11:00									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	6L20025	12/20/06	12/20/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		96 %	55-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	45-130		"	"	"	"	
Surrogate: Toluene-d8		98 %	70-120		"	"	"	"	

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

Project: BP Heritage #11124, Oakland ,CA
Project Number: G099D-0014
Project Manager: Jay Johnson

MPL0517
Reported:
01/02/07 16:13

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW5-11 (MPL0517-01) Soil Sampled: 12/12/06 10:36 Received: 12/14/06 11:00									
Diesel Range Organics (C10-C36)	1.7	1.0	mg/kg	1	6L19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: <i>n</i> -Octacosane		103 %	40-120		"	"	"	"	
MW5-21 (MPL0517-02) Soil Sampled: 12/12/06 11:00 Received: 12/14/06 11:00									
Diesel Range Organics (C10-C36)	1.6	1.0	mg/kg	1	6L19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: <i>n</i> -Octacosane		96 %	40-120		"	"	"	"	
MW5-31 (MPL0517-03) Soil Sampled: 12/12/06 11:35 Received: 12/14/06 11:00									
Diesel Range Organics (C10-C36)	1.4	1.0	mg/kg	1	6L19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: <i>n</i> -Octacosane		102 %	40-120		"	"	"	"	
MW6-11 (MPL0517-04) Soil Sampled: 12/12/06 13:55 Received: 12/14/06 11:00									
Diesel Range Organics (C10-C36)	9.5	1.0	mg/kg	1	6L19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: <i>n</i> -Octacosane		101 %	40-120		"	"	"	"	
MW6-21 (MPL0517-05) Soil Sampled: 12/12/06 14:10 Received: 12/14/06 11:00									
Diesel Range Organics (C10-C36)	1.3	1.0	mg/kg	1	6L19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: <i>n</i> -Octacosane		98 %	40-120		"	"	"	"	
MW6-28 (MPL0517-06) Soil Sampled: 12/12/06 14:30 Received: 12/14/06 11:00									
Diesel Range Organics (C10-C36)	1.4	1.0	mg/kg	1	6L19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: <i>n</i> -Octacosane		94 %	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-0014
Project Manager: Jay Johnson

MPL0517
Reported:
01/02/07 16:13

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW5-11 (MPL0517-01) Soil Sampled: 12/12/06 10:36 Received: 12/14/06 11:00									
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	6L20025	12/20/06	12/20/06	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	0.22	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96 %	45-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %	55-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %	60-120		"	"	"	"	
MW5-21 (MPL0517-02) Soil Sampled: 12/12/06 11:00 Received: 12/14/06 11:00									
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	6L20025	12/20/06	12/20/06	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	0.073	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99 %	45-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98 %	55-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %	60-120		"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11124, Oakland, CA Project Number: G099D-0014 Project Manager: Jay Johnson	MPL0517 Reported: 01/02/07 16:13
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW5-31 (MPL0517-03) Soil **Sampled: 12/12/06 11:35** **Received: 12/14/06 11:00**

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	6L20025	12/20/06	12/20/06	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		96 %	45-130	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %	55-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96 %	70-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97 %	60-120	"	"	"	"	"	

MW6-11 (MPL0517-04) Soil **Sampled: 12/12/06 13:55** **Received: 12/14/06 11:00**

tert-Amyl methyl ether	ND	0.025	mg/kg	1	6L21016	12/14/06	12/22/06	EPA 8260B	
Benzene	0.41	0.050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.025	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.025	"	"	"	"	"	"	
Ethylbenzene	0.92	0.050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.025	"	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	"	
Xylenes (total)	5.2	0.050	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		98 %	45-130	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	55-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	70-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	60-120	"	"	"	"	"	

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

Project: BP Heritage #11124, Oakland, CA
Project Number: G099D-0014
Project Manager: Jay Johnson

MPL0517
Reported:
01/02/07 16:13

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW6-21 (MPL0517-05) Soil Sampled: 12/12/06 14:10 Received: 12/14/06 11:00									
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	6L20025	12/20/06	12/20/06	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	0.012	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		95 %	45-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96 %	55-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97 %	60-120		"	"	"	"	
MW6-28 (MPL0517-06) Soil Sampled: 12/12/06 14:30 Received: 12/14/06 11:00									
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	6L20025	12/20/06	12/20/06	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		95 %	45-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96 %	55-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	70-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %	60-120		"	"	"	"	

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

Project: BP Heritage #11124, Oakland ,CA
Project Number: G099D-0014
Project Manager: Jay Johnson

MPL0517
Reported:
01/02/07 16:13

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
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Batch 6L20025 - EPA 5030 (pres 48h)/5035 / LUFT GCMS

Blank (6L20025-BLK1)

Prepared & Analyzed: 12/20/06

Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg						
Surrogate: 1,2-Dichloroethane-d4	0.00474		"	0.00500		95	55-135		
Surrogate: 4-Bromofluorobenzene	0.00488		"	0.00500		98	60-120		
Surrogate: Dibromofluoromethane	0.00480		"	0.00500		96	45-130		
Surrogate: Toluene-d8	0.00488		"	0.00500		98	70-120		

Laboratory Control Sample (6L20025-BS2)

Prepared & Analyzed: 12/20/06

Gasoline Range Organics (C4-C12)	0.797	0.10	mg/kg	1.00		80	75-140		
Surrogate: 1,2-Dichloroethane-d4	0.00478		"	0.00500		96	55-135		
Surrogate: 4-Bromofluorobenzene	0.00512		"	0.00500		102	60-120		
Surrogate: Dibromofluoromethane	0.00480		"	0.00500		96	45-130		
Surrogate: Toluene-d8	0.00496		"	0.00500		99	70-120		

Laboratory Control Sample Dup (6L20025-BSD2)

Prepared & Analyzed: 12/20/06

Gasoline Range Organics (C4-C12)	0.814	0.10	mg/kg	1.00		81	75-140	2	35
Surrogate: 1,2-Dichloroethane-d4	0.00500		"	0.00500		100	55-135		
Surrogate: 4-Bromofluorobenzene	0.00522		"	0.00500		104	60-120		
Surrogate: Dibromofluoromethane	0.00484		"	0.00500		97	45-130		
Surrogate: Toluene-d8	0.00498		"	0.00500		100	70-120		

Batch 6L21016 - EPA 5030B/5035A MeOH / LUFT GCMS

Blank (6L21016-BLK1)

Prepared & Analyzed: 12/21/06

Gasoline Range Organics (C4-C12)	ND	2.5	mg/kg						
Surrogate: 1,2-Dichloroethane-d4	0.00241		"	0.00250		96	55-135		
Surrogate: 4-Bromofluorobenzene	0.00254		"	0.00250		102	60-120		
Surrogate: Dibromofluoromethane	0.00243		"	0.00250		97	45-130		
Surrogate: Toluene-d8	0.00253		"	0.00250		101	70-120		

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

Project: BP Heritage #11124, Oakland, CA
Project Number: G099D-0014
Project Manager: Jay Johnson

MPL0517
Reported:
01/02/07 16:13

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
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Batch 6L21016 - EPA 5030B/5035A MeOH / LUFT GCMS

Laboratory Control Sample (6L21016-BS2)

Prepared & Analyzed: 12/21/06

Gasoline Range Organics (C4-C12)	18.1	2.5	mg/kg	20.0		90	75-140			
Surrogate: 1,2-Dichloroethane-d4	0.00234		"	0.00250		94	55-135			
Surrogate: 4-Bromofluorobenzene	0.00260		"	0.00250		104	60-120			
Surrogate: Dibromofluoromethane	0.00238		"	0.00250		95	45-130			
Surrogate: Toluene-d8	0.00254		"	0.00250		102	70-120			

Laboratory Control Sample Dup (6L21016-BSD2)

Prepared & Analyzed: 12/21/06

Gasoline Range Organics (C4-C12)	18.4	2.5	mg/kg	20.0		92	75-140	2	35	
Surrogate: 1,2-Dichloroethane-d4	0.00241		"	0.00250		96	55-135			
Surrogate: 4-Bromofluorobenzene	0.00264		"	0.00250		106	60-120			
Surrogate: Dibromofluoromethane	0.00241		"	0.00250		96	45-130			
Surrogate: Toluene-d8	0.00253		"	0.00250		101	70-120			

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11124, Oakland ,CA Project Number: G099D-0014 Project Manager: Jay Johnson	MPL0517 Reported: 01/02/07 16:13
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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
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Batch 6L19012 - EPA 3550B / EPA 8015B-SVOA

Blank (6L19012-BLK1)		Prepared: 12/19/06 Analyzed: 12/20/06								
Diesel Range Organics (C10-C36)	ND	1.0	mg/kg							
<i>Surrogate: n-Octacosane</i>	1.52		"	1.67		91	40-120			
Laboratory Control Sample (6L19012-BS1)		Prepared: 12/19/06 Analyzed: 12/20/06								
Diesel Range Organics (C10-C36)	17.1	1.0	mg/kg	16.7		102	60-115			
<i>Surrogate: n-Octacosane</i>	1.60		"	1.67		96	40-120			
Matrix Spike (6L19012-MS1)		Source: MPL0582-06		Prepared: 12/19/06 Analyzed: 12/20/06						
Diesel Range Organics (C10-C36)	325	10	mg/kg	16.7	290	210	60-115			LM,AY
<i>Surrogate: n-Octacosane</i>	3.11		"	1.67		186	40-120			LH,AY
Matrix Spike Dup (6L19012-MSD1)		Source: MPL0582-06		Prepared: 12/19/06 Analyzed: 12/20/06						
Diesel Range Organics (C10-C36)	321	10	mg/kg	16.7	290	186	60-115	1	40	LM,AY
<i>Surrogate: n-Octacosane</i>	2.85		"	1.67		171	40-120			LH,AY

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

Project: BP Heritage #11124, Oakland ,CA
Project Number: G099D-0014
Project Manager: Jay Johnson

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Reported:
01/02/07 16:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6L20025 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Blank (6L20025-BLK1)

Prepared & Analyzed: 12/20/06

tert-Amyl methyl ether	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
tert-Butyl alcohol	ND	0.020	"							
Di-isopropyl ether	ND	0.0050	"							
Ethyl tert-butyl ether	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00480</i>		"	<i>0.00500</i>		<i>96</i>	<i>45-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00474</i>		"	<i>0.00500</i>		<i>95</i>	<i>55-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00488</i>		"	<i>0.00500</i>		<i>98</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00488</i>		"	<i>0.00500</i>		<i>98</i>	<i>60-120</i>			

Laboratory Control Sample (6L20025-BS1)

Prepared & Analyzed: 12/20/06

tert-Amyl methyl ether	0.0241	0.0050	mg/kg	0.0200		120	65-140			
Benzene	0.0229	0.0050	"	0.0200		114	70-130			
tert-Butyl alcohol	0.413	0.020	"	0.400		103	75-130			
Di-isopropyl ether	0.0220	0.0050	"	0.0200		110	70-130			
Ethyl tert-butyl ether	0.0224	0.0050	"	0.0200		112	70-125			
Ethylbenzene	0.0220	0.0050	"	0.0200		110	75-130			
Methyl tert-butyl ether	0.0231	0.0050	"	0.0200		116	75-130			
Toluene	0.0235	0.0050	"	0.0200		118	75-130			
Xylenes (total)	0.0678	0.0050	"	0.0600		113	75-135			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00496</i>		"	<i>0.00500</i>		<i>99</i>	<i>45-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00492</i>		"	<i>0.00500</i>		<i>98</i>	<i>55-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00494</i>		"	<i>0.00500</i>		<i>99</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00466</i>		"	<i>0.00500</i>		<i>93</i>	<i>60-120</i>			

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

Project: BP Heritage #11124, Oakland, CA
Project Number: G099D-0014
Project Manager: Jay Johnson

MPL0517
Reported:
01/02/07 16:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6L20025 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Matrix Spike (6L20025-MS1)	Source: MPL0463-01RE1			Prepared & Analyzed: 12/20/06						
tert-Amyl methyl ether	0.0249	0.0050	mg/kg	0.0200	ND	124	65-140			
Benzene	0.0246	0.0050	"	0.0200	ND	123	70-130			
tert-Butyl alcohol	0.390	0.020	"	0.400	ND	97	75-130			
Di-isopropyl ether	0.0228	0.0050	"	0.0200	ND	114	70-130			
Ethyl tert-butyl ether	0.0231	0.0050	"	0.0200	ND	116	70-125			
Ethylbenzene	0.0218	0.0050	"	0.0200	ND	109	75-130			
Methyl tert-butyl ether	0.0232	0.0050	"	0.0200	ND	116	75-130			
Toluene	0.0250	0.0050	"	0.0200	0.00022	124	75-130			
Xylenes (total)	0.0670	0.0050	"	0.0600	ND	112	75-135			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00518</i>		"	<i>0.00500</i>		<i>104</i>	<i>45-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00494</i>		"	<i>0.00500</i>		<i>99</i>	<i>55-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00530</i>		"	<i>0.00500</i>		<i>106</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00482</i>		"	<i>0.00500</i>		<i>96</i>	<i>60-120</i>			

Matrix Spike Dup (6L20025-MSD1)	Source: MPL0463-01RE1			Prepared & Analyzed: 12/20/06						
tert-Amyl methyl ether	0.0239	0.0050	mg/kg	0.0200	ND	120	65-140	4	25	
Benzene	0.0240	0.0050	"	0.0200	ND	120	70-130	2	25	
tert-Butyl alcohol	0.371	0.020	"	0.400	ND	93	75-130	5	25	
Di-isopropyl ether	0.0224	0.0050	"	0.0200	ND	112	70-130	2	40	
Ethyl tert-butyl ether	0.0226	0.0050	"	0.0200	ND	113	70-125	2	30	
Ethylbenzene	0.0212	0.0050	"	0.0200	ND	106	75-130	3	30	
Methyl tert-butyl ether	0.0222	0.0050	"	0.0200	ND	111	75-130	4	25	
Toluene	0.0244	0.0050	"	0.0200	0.00022	121	75-130	2	20	
Xylenes (total)	0.0651	0.0050	"	0.0600	ND	108	75-135	3	25	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00516</i>		"	<i>0.00500</i>		<i>103</i>	<i>45-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00472</i>		"	<i>0.00500</i>		<i>94</i>	<i>55-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00526</i>		"	<i>0.00500</i>		<i>105</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00474</i>		"	<i>0.00500</i>		<i>95</i>	<i>60-120</i>			

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

Project: BP Heritage #11124, Oakland, CA
Project Number: G099D-0014
Project Manager: Jay Johnson

MPL0517
Reported:
01/02/07 16:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6L21016 - EPA 5030B/5035A MeOH / EPA 8260B

Blank (6L21016-BLK1)

Prepared & Analyzed: 12/21/06

tert-Amyl methyl ether	ND	0.025	mg/kg							
Benzene	ND	0.050	"							
tert-Butyl alcohol	ND	5.0	"							
Di-isopropyl ether	ND	0.025	"							
Ethyl tert-butyl ether	ND	0.025	"							
Ethylbenzene	ND	0.050	"							
Methyl tert-butyl ether	ND	0.025	"							
Toluene	ND	0.050	"							
Xylenes (total)	ND	0.050	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00243</i>		<i>"</i>	<i>0.00250</i>		<i>97</i>	<i>45-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00241</i>		<i>"</i>	<i>0.00250</i>		<i>96</i>	<i>55-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00253</i>		<i>"</i>	<i>0.00250</i>		<i>101</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00254</i>		<i>"</i>	<i>0.00250</i>		<i>102</i>	<i>60-120</i>			

Laboratory Control Sample (6L21016-BS1)

Prepared & Analyzed: 12/21/06

tert-Amyl methyl ether	0.620	0.025	mg/kg	0.500		124	65-140			
Benzene	0.568	0.050	"	0.500		114	70-130			
tert-Butyl alcohol	9.68	5.0	"	10.0		97	75-130			
Di-isopropyl ether	0.521	0.025	"	0.500		104	70-130			
Ethyl tert-butyl ether	0.562	0.025	"	0.500		112	70-125			
Ethylbenzene	0.547	0.050	"	0.500		109	75-130			
Methyl tert-butyl ether	0.578	0.025	"	0.500		116	75-130			
Toluene	0.589	0.050	"	0.500		118	75-130			
Xylenes (total)	1.69	0.050	"	1.50		113	75-135			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00250</i>		<i>"</i>	<i>0.00250</i>		<i>100</i>	<i>45-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00247</i>		<i>"</i>	<i>0.00250</i>		<i>99</i>	<i>55-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00254</i>		<i>"</i>	<i>0.00250</i>		<i>102</i>	<i>70-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00240</i>		<i>"</i>	<i>0.00250</i>		<i>96</i>	<i>60-120</i>			

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11124, Oakland, CA Project Number: G099D-0014 Project Manager: Jay Johnson	MPL0517 Reported: 01/02/07 16:13
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6L21016 - EPA 5030B/5035A MeOH / EPA 8260B

Laboratory Control Sample Dup (6L21016-BSD1)				Prepared & Analyzed: 12/21/06						
tert-Amyl methyl ether	0.562	0.025	mg/kg	0.500	112	65-140	10	25		
Benzene	0.541	0.050	"	0.500	108	70-130	5	25		
tert-Butyl alcohol	9.35	5.0	"	10.0	94	75-130	3	25		
Di-isopropyl ether	0.486	0.025	"	0.500	97	70-130	7	40		
Ethyl tert-butyl ether	0.519	0.025	"	0.500	104	70-125	8	30		
Ethylbenzene	0.535	0.050	"	0.500	107	75-130	2	30		
Methyl tert-butyl ether	0.514	0.025	"	0.500	103	75-130	12	25		
Toluene	0.556	0.050	"	0.500	111	75-130	6	20		
Xylenes (total)	1.63	0.050	"	1.50	109	75-135	4	25		
Surrogate: Dibromofluoromethane	0.00240		"	0.00250	96	45-130				
Surrogate: 1,2-Dichloroethane-d4	0.00234		"	0.00250	94	55-135				
Surrogate: Toluene-d8	0.00251		"	0.00250	100	70-120				
Surrogate: 4-Bromofluorobenzene	0.00239		"	0.00250	96	60-120				

Stratus Environmental Inc. [Arco]
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Project: BP Heritage #11124, Oakland ,CA
Project Number: G099D-0014
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Reported:
01/02/07 16:13

Notes and Definitions

SG A silica gel cleanup procedure was performed.

LM,AY MS and/or MSD above acceptance limits. See Blank Spike(LCS). Matrix interference suspected.

LH,AY Surrogate recovery above the acceptance limits. Matrix interference suspected.

HD Chromat. profile inconsistent with pattern(s) of ref. fuel stnds.

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

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name: Former BP 11124 Assessment
 BP BU/AR Region/Enfos Segment: Alameda > 11124
 State or Lead Regulatory Agency: Alameda County Env. Health
 Requested Due Date (mm/dd/yy): Std. TAT

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>Test America</u>	BP/AR Facility No.: <u>11124</u>	Consultant/Contractor: <u>Stratus Env.</u>
Address: <u>885 Jarvis Dr. Morgan Hill CA 95031</u>	BP/AR Facility Address: <u>3315 High St, Oakland</u>	Address: <u>3330 Cameron Park Dr. #550 Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	Site Lat/Long:	Consultant/Contractor Project No.: <u>B-11124</u>
Tele/Fax: <u>408-782-8156</u>	California Global ID No.: <u>T0600100919</u>	Consultant/Contractor PM: <u>J. Johnson</u>
BP/AR EBM: <u>P. Supple</u>	Enfos Project No.: <u>6099D-0014</u>	Tele/Fax: <u>530-676-6000</u>
Address: <u>2010 Cow Canyon Pl. #150 San Ramon, CA</u>	Provision or OOC (circle one)	Report Type & QC Level: <u>Per 1 w/EDF</u>
Tele/Fax: <u>925-275-3506</u>	Printer/WBS: <u>01 - assessment</u>	E-mail EDD To:
Lab Bottle Order No:	Sub Phase/Task: <u>03 - analytical</u>	Invoice to: Consultant or BP of Atlantic Richfield Co. (circle one)
	Cost Element: <u>01 - contractor labor</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 ₂ SO ₄	HNO ₃	HCl	Methanol	GRD	TPH	BTEX	MHP	ET&E	TIME	
1	MWS-11	10:36	12-12	✓			01												MPL 0517	
2	MWS-21	11:00					02													
3	MWS-31	11:35					03													
4	MWB-11	13:53					04													
5	MWB-21	14:10					05													
6	MWB-73	14:30					06													
7																				
8																				
9																				
10																				

Sampler's Name: <u>Scott Billinger</u>	Relinquished By / Affiliation: <u>Stratus Env. Inc.</u>	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>Stratus Env. Inc.</u>					<u>12-14-06</u>	<u>11:00</u>
Shipment Date: <u>12-12-06</u>						
Shipment Method: <u>FedEx</u>						
Shipment Tracking No:						
Instructions: <u>CC: Rob Miller, Broadbent & Associates</u>						

Seals In Place: Yes No | Temp Blank: Yes No | Cooler Temp on Receipt: 5.2 °F | Trip Blank: Yes No | MS/MSD Sample Submitted: 12/14/06

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: Arcob
 REC. BY (PRINT) LP
 WORKORDER: NPL 0517

DATE REC'D AT LAB: 12-14-06
 TIME REC'D AT LAB: 11:00
 DATE LOGGED IN: 12-15-06

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 <input checked="" type="checkbox"/> / Absent <input type="checkbox"/> Intact <input checked="" type="checkbox"/> / Broken* <input type="checkbox"/>			Core					<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> Yes 12-14-06 </div>
2. Chain-of-Custody Present <input checked="" type="checkbox"/> / Absent* <input type="checkbox"/>								
3. Traffic Reports or Packing List: Present <input checked="" type="checkbox"/> / Absent <input type="checkbox"/>								
4. Airbill: <input checked="" type="checkbox"/> Airbill / Sticker <input type="checkbox"/> Present <input checked="" type="checkbox"/> / Absent <input type="checkbox"/>								
5. Airbill #: <u>FedEx # 385 15254713</u>								
6. Sample Labels: Present <input checked="" type="checkbox"/> / Absent <input type="checkbox"/>								
7. Sample IDs: Listed <input checked="" type="checkbox"/> / Not Listed <input type="checkbox"/> on Chain-of-Custody <input type="checkbox"/>								
8. Sample Condition: Intact <input checked="" type="checkbox"/> / Broken* <input type="checkbox"/> / Leaking* <input type="checkbox"/>								
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes <input checked="" type="checkbox"/> / No* <input type="checkbox"/>								
10. Sample received within hold time? Yes <input checked="" type="checkbox"/> / No* <input type="checkbox"/>								
11. Adequate sample volume received? Yes <input checked="" type="checkbox"/> / No* <input type="checkbox"/>								
12. Proper preservatives used? Yes <input checked="" type="checkbox"/> / No* <input type="checkbox"/>								
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes <input type="checkbox"/> No* <input checked="" type="checkbox"/>								
14. Read Temp: <u>4.2C</u> Corrected Temp: <u>5.2C</u> Is corrected temp 4 +/-2°C? Yes <input checked="" type="checkbox"/> No** <input type="checkbox"/> <small>(Acceptance range for samples requiring thermal pres.)</small>								
**Exception (if any): METALS / DFF ON ICE or Problem COC								

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

APPENDIX B

STRATUS GROUND-WATER SAMPLING DATA PACKAGE
(Includes Field Data Sheets and Laboratory Analytical Report with Chain-of-Custody
Documentation)



INCOMPLETE -
SENT BACK TO
RESAMPLE 3/6.

TV

06-08-652

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

March 6, 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 (Quarterly Monitoring performed on February 6, 2007)

General Information

Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson
Phone Number: (530) 676-6000
On-Site Supplier Representative: Jerry Gonzales
Date: February 6, 2007
Arrival: 16:00 *Departure:* 017:40
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 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 Doulos Environmental, Inc. [Doulos, 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. Doulos 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:

11124

Station #

Oakland - 3315 High Street

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

26

Added Equipment

Rinse Water 5

Any Other

Adjustments 0

TOTAL GALS.

RECOVERED 31

loaded onto

Doulos vehicle # _____

Stratus Project # _____

time

date

1730

21 6 / 07

Signature

Jerry G

RECEIVED AT

time

date

BP 5786

9:05

21 19 / 07

Unloaded by

Signature

[Signature]

dated 7/19/07

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: JG WELL I.D.: MW-1
 CLIENT NAME: _____ SAMPLED BY: JG SAMPLE I.D.: MW-1
 LOCATION: Oakland - 3315 High Street QA SAMPLES: _____

DATE PURGED 2/6/07 START (2400hr) 17:09 END (2400hr) 17:19
 DATE SAMPLED 2/6/07 SAMPLE TIME (2400hr) 17:20
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

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

DEPTH TO BOTTOM (feet) = 34.47 CASING VOLUME (gal) = 4.2
 DEPTH TO WATER (feet) = 93.8 CALCULATED PURGE (gal) = 12.7
 WATER COLUMN HEIGHT (feet) = 25.0 ACTUAL PURGE (gal) = 13

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>2/6/07</u>	<u>17:11</u>	<u>4.5</u>	<u>18.8</u>	<u>312.5</u>	<u>7.22</u>	<u>Clear</u>	_____
<u>1</u>	<u>17:12</u>	<u>8.0</u>	<u>18.6</u>	<u>300.7</u>	<u>7.16</u>	<u>1</u>	_____
_____	<u>17:14</u>	<u>13.0</u>	<u>18.8</u>	<u>295.4</u>	<u>7.10</u>	<u>1</u>	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

SAMPLE DEPTH TO WATER: 10.43 SAMPLE INFORMATION SAMPLE TURBIDITY: Clear

80% RECHARGE: YES NO ANALYSES: See wwf odort
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: VOA-HCL

PURGING EQUIPMENT

Bladder Pump _____ Bailer (Teflon) _____
 Centrifugal Pump _____ Bailer (PVC) _____
 Submersible Pump _____ Bailer (Stainless Steel) _____
 Peristaltic Pump _____ Dedicated _____
 Other: _____
 Pump Depth: 25

SAMPLING EQUIPMENT

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

WELL INTEGRITY: good LOCK#: Mester
 REMARKS: D.O 2.76

SIGNATURE: [Signature] Page _____ of _____

BP ALAMEDA PORTFOLIO
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: [Signature] WELL I.D.: NW-2
 CLIENT NAME: _____ SAMPLED BY: [Signature] SAMPLE I.D.: NW-2
 LOCATION: Oakland - 3315 High Street QA SAMPLES: _____

DATE PURGED 2/6/07 START (2400hr) 16:40 END (2400hr) 16:43
 DATE SAMPLED 2/6/07 SAMPLE TIME (2400hr) 16:47
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

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

DEPTH TO BOTTOM (feet) = 10.12 CASING VOLUME (gal) = 0.2
 DEPTH TO WATER (feet) = 8.40 CALCULATED PURGE (gal) = 0.8
 WATER COLUMN HEIGHT (feet) = 1.7 ACTUAL PURGE (gal) = 1.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>2-6-07</u>	<u>16:41</u>	<u>0.3</u>	<u>18.0</u>	<u>591</u>	<u>7.06</u>	<u>Rust</u>	_____
<u>1</u>	<u>16:42</u>	<u>0.6</u>	<u>19.9</u>	<u>588</u>	<u>7.03</u>	<u>1</u>	_____
<u>1</u>	<u>16:43</u>	<u>1.0</u>	<u>18.5</u>	<u>587</u>	<u>7.02</u>	<u>1</u>	_____

SAMPLE DEPTH TO WATER: 8.75 SAMPLE INFORMATION SAMPLE TURBIDITY: Rust in color

80% RECHARGE: YES _____ NO ANALYSES: See work order
 ODOR: no SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: 10.00

SAMPLING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (_____ PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____

WELL INTEGRITY: good LOCK#: Number
 REMARKS: DO 5.10

SIGNATURE: [Signature] Page _____ of _____

BP ALAMEDA PORTFOLIO

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: JG WELL I.D.: MU-4
 CLIENT NAME: _____ SAMPLED BY: JG SAMPLE I.D.: _____
 LOCATION: Oakland - 3315 High Street QA SAMPLES: _____

DATE PURGED 2/6/09 START (2400hr) 16:20 END (2400hr) 16:23
 DATE SAMPLED 2/6/09 SAMPLE TIME (2400hr) 16:25
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

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

DEPTH TO BOTTOM (feet) = 30.18 CASING VOLUME (gal) = 3.7
 DEPTH TO WATER (feet) = 8.40 CALCULATED PURGE (gal) = 11.1
 WATER COLUMN HEIGHT (feet) = 21.7 ACTUAL PURGE (gal) = 11.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>2/6/09</u>	<u>16:21</u>	<u>3.7</u>	<u>17.5</u>	<u>436.7</u>	<u>7.12</u>	<u>cloud</u>	_____
_____	<u>16:22</u>	<u>7.5</u>	<u>17.7</u>	<u>449.7</u>	<u>7.12</u>	<u>clear</u>	_____
_____	<u>16:23</u>	<u>11.5</u>	<u>18.0</u>	<u>460.5</u>	<u>7.10</u>	<u>clear</u>	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

SAMPLE DEPTH TO WATER: 9.25 SAMPLE INFORMATION SAMPLE TURBIDITY: clear

80% RECHARGE: YES NO ANALYSES: See work order
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: NOA-HCL

PURGING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____
 Pump Depth: 25

Bailer (Teflon)
 Bailer (PVC)
 Bailer (Stainless Steel)
 Dedicated _____

SAMPLING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____

Bailer (Teflon)
 Bailer (PVC or disposable)
 Bailer (Stainless Steel)
 Dedicated _____

WELL INTEGRITY: good LOCK#: MASTER
 REMARKS: DO 143

SIGNATURE: [Signature] Page _____ of _____



bp
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): _____

On-site Time: <u>1600</u>	Temp: <u>cool</u>
Off-site Time: <u>1740</u>	Temp: <u>cool</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: <u>None</u>	
Wind Speed: <u>0</u>	Direction: <u>N/A</u>

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11124</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3315 High Street, Oakland</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 #: <u>T06001001919</u>	Consultant/Contractor Project No.: <u>E11124-04</u>
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G099D-0012</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or RCOP (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>cjewitt@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 *Oxy = MTBD, TAME, ETBE, DIPE, TBA
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO/BTEX/Oxy*	1,2 DCA	EDB	
1	MW-1	1720	2/6/07	X			6			X			X	X	X	X	
2	MW-2	1647		X			3			X			X	X	X	X	
3	MW-4	1625		X			3			X			X	X	X	X	
4	TB 11124 020607	500		X			2			X			X	X	X	X	HOLD
5																	
6																	
7																	
8																	
9																	
10																	

Sampler's Name: <u>Jerry Gonzalez</u>	Relinquished By / Affiliation: <u>Op my samples</u>	Date: <u>2/9/07</u>	Time: <u>1655</u>	Accepted By / Affiliation: <u>[Signature] TA-SDR</u>	Date: <u>2/9/07</u>	Time: <u>1655</u>
Sampler's Company: <u>Douglas</u>						
Shipment Date:						
Shipment Method:						
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: °F/C	Trip Blank: Yes / No	MS/MSD Sample Submitted: Yes / No
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26 February, 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: MQB0414

Enclosed are the results of analyses for samples received by the laboratory on 02/13/07 07:55. 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: BP Heritage #11124, Oakland ,CA
Project Number: G099D-0012
Project Manager: Jay Johnson

MQB0414
Reported:
02/26/07 15:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQB0414-01	Water	02/06/07 17:20	02/13/07 07:55
MW-2	MQB0414-02	Water	02/06/07 16:47	02/13/07 07:55
MW-4	MQB0414-03	Water	02/06/07 16:25	02/13/07 07:55
TB11124020607	MQB0414-04	Water	02/06/07 05:00	02/13/07 07:55

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 intact 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

MQB0414
Reported:
02/26/07 15:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQB0414-01) Water Sampled: 02/06/07 17:20 Received: 02/13/07 07:55									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7B17006	02/17/07	02/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		97 %	60-145		"	"	"	"	
MW-2 (MQB0414-02) Water Sampled: 02/06/07 16:47 Received: 02/13/07 07:55									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7B17001	02/17/07	02/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	60-145		"	"	"	"	
MW-4 (MQB0414-03) Water Sampled: 02/06/07 16:25 Received: 02/13/07 07:55									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7B17001	02/17/07	02/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		91 %	60-145		"	"	"	"	

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

MQB0414
Reported:
02/26/07 15:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-1 (MQB0414-01) Water Sampled: 02/06/07 17:20 Received: 02/13/07 07:55

tert-Amyl methyl ether	ND	0.50	ug/l	1	7B17006	02/17/07	02/17/07	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	1.1	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

102 % 75-130

" " " "

Surrogate: 1,2-Dichloroethane-d4

97 % 60-145

" " " "

Surrogate: Toluene-d8

98 % 70-130

" " " "

Surrogate: 4-Bromofluorobenzene

87 % 60-120

" " " "

MW-2 (MQB0414-02) Water Sampled: 02/06/07 16:47 Received: 02/13/07 07:55

tert-Amyl methyl ether	ND	0.50	ug/l	1	7B17001	02/17/07	02/17/07	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	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

101 % 75-130

" " " "

Surrogate: 1,2-Dichloroethane-d4

100 % 60-145

" " " "

Surrogate: Toluene-d8

95 % 70-130

" " " "

Surrogate: 4-Bromofluorobenzene

92 % 60-120

" " " "

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

MQB0414
Reported:
02/26/07 15:46

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MQB0414-03) Water Sampled: 02/06/07 16:25 Received: 02/13/07 07:55									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7B17001	02/17/07	02/17/07	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 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91 %		60-145	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %		70-130	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86 %		60-120	"	"	"	"	

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

MQB0414
Reported:
02/26/07 15:46

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
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Batch 7B17001 - EPA 5030B P/T / LUFT GCMS

Blank (7B17001-BLK1)

Prepared & Analyzed: 02/17/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.54		"	2.50		102	60-145			

Laboratory Control Sample (7B17001-BS2)

Prepared & Analyzed: 02/17/07

Gasoline Range Organics (C4-C12)	536	50	ug/l	500		107	75-140			
Surrogate: 1,2-Dichloroethane-d4	2.70		"	2.50		108	60-145			

Laboratory Control Sample Dup (7B17001-BSD2)

Prepared & Analyzed: 02/17/07

Gasoline Range Organics (C4-C12)	503	50	ug/l	500		101	75-140	6	20	
Surrogate: 1,2-Dichloroethane-d4	2.68		"	2.50		107	60-145			

Batch 7B17006 - EPA 5030B P/T / LUFT GCMS

Blank (7B17006-BLK1)

Prepared & Analyzed: 02/17/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.33		"	2.50		93	60-145			

Laboratory Control Sample (7B17006-BS2)

Prepared & Analyzed: 02/17/07

Gasoline Range Organics (C4-C12)	496	50	ug/l	500		99	75-140			
Surrogate: 1,2-Dichloroethane-d4	2.39		"	2.50		96	60-145			

Laboratory Control Sample Dup (7B17006-BSD2)

Prepared & Analyzed: 02/17/07

Gasoline Range Organics (C4-C12)	507	50	ug/l	500		101	75-140	2	20	
Surrogate: 1,2-Dichloroethane-d4	2.47		"	2.50		99	60-145			

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

MQB0414
Reported:
02/26/07 15:46

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7B17001 - EPA 5030B P/T / EPA 8260B

Blank (7B17001-BLK1)

Prepared & Analyzed: 02/17/07

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>	<i>2.50</i>		<i>"</i>	<i>2.50</i>		<i>100</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.54</i>		<i>"</i>	<i>2.50</i>		<i>102</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.40</i>		<i>"</i>	<i>2.50</i>		<i>96</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.31</i>		<i>"</i>	<i>2.50</i>		<i>92</i>	<i>60-120</i>			

Laboratory Control Sample (7B17001-BS1)

Prepared & Analyzed: 02/17/07

tert-Amyl methyl ether	9.03	0.50	ug/l	10.0		90	65-135			
Benzene	8.99	0.50	"	10.0		90	70-125			
tert-Butyl alcohol	163	20	"	200		82	60-135			
Di-isopropyl ether	7.56	0.50	"	10.0		76	70-130			
1,2-Dibromoethane (EDB)	9.43	0.50	"	10.0		94	80-125			
1,2-Dichloroethane	9.36	0.50	"	10.0		94	75-125			
Ethanol	176	300	"	200		88	15-150			
Ethyl tert-butyl ether	8.23	0.50	"	10.0		82	65-130			
Ethylbenzene	9.07	0.50	"	10.0		91	70-130			
Methyl tert-butyl ether	8.19	0.50	"	10.0		82	50-140			
Toluene	8.51	0.50	"	10.0		85	70-120			
Xylenes (total)	26.3	0.50	"	30.0		88	80-125			
<i>Surrogate: Dibromofluoromethane</i>	<i>2.58</i>		<i>"</i>	<i>2.50</i>		<i>103</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.52</i>		<i>"</i>	<i>2.50</i>		<i>101</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.48</i>		<i>"</i>	<i>2.50</i>		<i>99</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.49</i>		<i>"</i>	<i>2.50</i>		<i>100</i>	<i>60-120</i>			

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

MQB0414
Reported:
02/26/07 15:46

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7B17001 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7B17001-MS1)		Source: MQB0412-01			Prepared & Analyzed: 02/17/07					
tert-Amyl methyl ether	19.8	1.0	ug/l	20.0	ND	99	65-135			
Benzene	19.8	1.0	"	20.0	0.28	98	70-125			
tert-Butyl alcohol	392	40	"	400	45	87	60-135			
Di-isopropyl ether	15.7	1.0	"	20.0	ND	78	70-130			
1,2-Dibromoethane (EDB)	22.8	1.0	"	20.0	ND	114	80-125			
1,2-Dichloroethane	18.5	1.0	"	20.0	ND	92	75-125			
Ethanol	329	600	"	400	ND	82	15-150			
Ethyl tert-butyl ether	17.2	1.0	"	20.0	ND	86	65-130			
Ethylbenzene	24.0	1.0	"	20.0	5.2	94	70-130			
Methyl tert-butyl ether	29.4	1.0	"	20.0	13	82	50-140			
Toluene	19.9	1.0	"	20.0	0.88	95	70-120			
Xylenes (total)	59.0	1.0	"	60.0	1.3	96	80-125			
<i>Surrogate: Dibromofluoromethane</i>	<i>2.48</i>		<i>"</i>	<i>2.50</i>		<i>99</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.35</i>		<i>"</i>	<i>2.50</i>		<i>94</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.52</i>		<i>"</i>	<i>2.50</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.61</i>		<i>"</i>	<i>2.50</i>		<i>104</i>	<i>60-120</i>			

Matrix Spike Dup (7B17001-MSD1)		Source: MQB0412-01			Prepared & Analyzed: 02/17/07					
tert-Amyl methyl ether	20.1	1.0	ug/l	20.0	ND	100	65-135	2	25	
Benzene	20.3	1.0	"	20.0	0.28	100	70-125	2	15	
tert-Butyl alcohol	396	40	"	400	45	88	60-135	1	35	
Di-isopropyl ether	16.0	1.0	"	20.0	ND	80	70-130	2	35	
1,2-Dibromoethane (EDB)	22.8	1.0	"	20.0	ND	114	80-125	0	15	
1,2-Dichloroethane	18.6	1.0	"	20.0	ND	93	75-125	0.5	10	
Ethanol	342	600	"	400	ND	86	15-150	4	35	
Ethyl tert-butyl ether	18.3	1.0	"	20.0	ND	92	65-130	6	35	
Ethylbenzene	24.1	1.0	"	20.0	5.2	94	70-130	0.4	15	
Methyl tert-butyl ether	29.6	1.0	"	20.0	13	83	50-140	0.7	25	
Toluene	20.5	1.0	"	20.0	0.88	98	70-120	3	15	
Xylenes (total)	59.7	1.0	"	60.0	1.3	97	80-125	1	15	
<i>Surrogate: Dibromofluoromethane</i>	<i>2.47</i>		<i>"</i>	<i>2.50</i>		<i>99</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.31</i>		<i>"</i>	<i>2.50</i>		<i>92</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.54</i>		<i>"</i>	<i>2.50</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.58</i>		<i>"</i>	<i>2.50</i>		<i>103</i>	<i>60-120</i>			

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: BP Heritage #11124, Oakland, CA
Project Number: G099D-0012
Project Manager: Jay Johnson

MQB0414
Reported:
02/26/07 15:46

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7B17006 - EPA 5030B P/T / EPA 8260B

Blank (7B17006-BLK1)

Prepared & Analyzed: 02/17/07

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>	2.29		"	2.50		92	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.33		"	2.50		93	60-145			
<i>Surrogate: Toluene-d8</i>	2.38		"	2.50		95	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.13		"	2.50		85	60-120			

Laboratory Control Sample (7B17006-BS1)

Prepared & Analyzed: 02/17/07

tert-Amyl methyl ether	8.89	0.50	ug/l	10.0		89	65-135			
Benzene	8.48	0.50	"	10.0		85	70-125			
tert-Butyl alcohol	181	20	"	200		90	60-135			
Di-isopropyl ether	8.34	0.50	"	10.0		83	70-130			
1,2-Dibromoethane (EDB)	9.70	0.50	"	10.0		97	80-125			
1,2-Dichloroethane	9.35	0.50	"	10.0		94	75-125			
Ethanol	221	300	"	200		110	15-150			
Ethyl tert-butyl ether	8.55	0.50	"	10.0		86	65-130			
Ethylbenzene	9.04	0.50	"	10.0		90	70-130			
Methyl tert-butyl ether	8.96	0.50	"	10.0		90	50-140			
Toluene	9.15	0.50	"	10.0		92	70-120			
Xylenes (total)	27.4	0.50	"	30.0		91	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.33		"	2.50		93	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.35		"	2.50		94	60-145			
<i>Surrogate: Toluene-d8</i>	2.24		"	2.50		90	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.24		"	2.50		90	60-120			

TestAmerica - Morgan Hill, CA

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3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: BP Heritage #11124, Oakland ,CA
Project Number: G099D-0012
Project Manager: Jay Johnson

MQB0414
Reported:
02/26/07 15:46

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7B17006 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7B17006-MS1)		Source: MQB0414-01		Prepared & Analyzed: 02/17/07						
tert-Amyl methyl ether	9.34	0.50	ug/l	10.0	ND	93	65-135			
Benzene	9.42	0.50	"	10.0	ND	94	70-125			
tert-Butyl alcohol	204	20	"	200	ND	102	60-135			
Di-isopropyl ether	9.17	0.50	"	10.0	ND	92	70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	"	10.0	ND	104	80-125			
1,2-Dichloroethane	10.2	0.50	"	10.0	ND	102	75-125			
Ethanol	224	300	"	200	ND	112	15-150			
Ethyl tert-butyl ether	9.42	0.50	"	10.0	ND	94	65-130			
Ethylbenzene	10.0	0.50	"	10.0	ND	100	70-130			
Methyl tert-butyl ether	10.7	0.50	"	10.0	1.1	96	50-140			
Toluene	9.70	0.50	"	10.0	ND	97	70-120			
Xylenes (total)	30.2	0.50	"	30.0	ND	101	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.36		"	2.50		94	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.17		"	2.50		87	60-145			
<i>Surrogate: Toluene-d8</i>	2.26		"	2.50		90	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.24		"	2.50		90	60-120			

Matrix Spike Dup (7B17006-MSD1)		Source: MQB0414-01		Prepared & Analyzed: 02/17/07						
tert-Amyl methyl ether	10.0	0.50	ug/l	10.0	ND	100	65-135	7	25	
Benzene	9.27	0.50	"	10.0	ND	93	70-125	2	15	
tert-Butyl alcohol	199	20	"	200	ND	100	60-135	2	35	
Di-isopropyl ether	9.23	0.50	"	10.0	ND	92	70-130	0.7	35	
1,2-Dibromoethane (EDB)	11.1	0.50	"	10.0	ND	111	80-125	7	15	
1,2-Dichloroethane	10.2	0.50	"	10.0	ND	102	75-125	0	10	
Ethanol	198	300	"	200	ND	99	15-150	12	35	
Ethyl tert-butyl ether	9.63	0.50	"	10.0	ND	96	65-130	2	35	
Ethylbenzene	9.66	0.50	"	10.0	ND	97	70-130	3	15	
Methyl tert-butyl ether	11.1	0.50	"	10.0	1.1	100	50-140	4	25	
Toluene	9.75	0.50	"	10.0	ND	98	70-120	0.5	15	
Xylenes (total)	30.3	0.50	"	30.0	ND	101	80-125	0.3	15	
<i>Surrogate: Dibromofluoromethane</i>	2.38		"	2.50		95	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.42		"	2.50		97	60-145			
<i>Surrogate: Toluene-d8</i>	2.34		"	2.50		94	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.21		"	2.50		88	60-120			

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

MQB0414
Reported:
02/26/07 15:46

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



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): _____

On-site Time: <u>1600</u>	Temp: <u>cool</u>
Off-site Time: <u>1740</u>	Temp: <u>cool</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: <u>None</u>	
Wind Speed: <u>0</u>	Direction: <u>N/A</u>

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11124</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3315 High Street, Oakland</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 #: <u>T06001001919</u>	Consultant/Contractor Project No.: <u>E11124-04</u>
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G099D-0012</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or RCOP (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>cjewitt@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 *Oxy = MTBD, TAME, ETBE, DIPE, TBA	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	CRO/BTEX/Oxy*	1,2 DCA	EDB	Ethanol by 8260		
1	MW-1	1720	2/16/01	X			01	6				X	X	X	X				
2	MW-2	1647	1	X			02	3				X	X	X	X				
3	MW-4	1625	1	X			03	3				X	X	X	X				
4	IB 11124 020607	500	1	X			04	2				X	X	X	X				HOLD
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Jerry Gonzalez</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>2/9/01</u>	Time: <u>1655</u>	Accepted By / Affiliation: <u>[Signature] HA-SPR</u>	Date: <u>2/9/01</u>	Time: <u>1655</u>
Sampler's Company: <u>Dallas</u>						
Shipment Date:						
Shipment Method:						
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: 0 °F(C) | Trip Blank: (Yes) No | MS/MSD Sample Submitted: (Yes) No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: BP
 REC. BY (PRINT) A.M.
 WORKORDER: MRB044

DATE REC'D AT LAB: 2-13-07
 TIME REC'D AT LAB: 7:55
 DATE LOGGED IN: 9-21-07 2/13/07

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

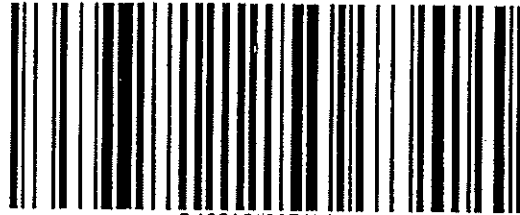
CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <input checked="" type="radio"/> Present / <input type="radio"/> Absent <input type="radio"/> Intact / <input checked="" type="radio"/>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

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

California Overnight Shipping Label



1-800-334-5000 / www.calover.com



D10010120563667

Date Printed 2/12/2007

Tracking#D10010120563667

Shipped From:

TEST AMERICA - SACRAMENTO
819 STRIKER AVENUE 8
SACRAMENTO, CA 95834

Sent By: TIM ALBRIGHT

Phone#: (916)921-9600

wgt(lbs): 60

Reference:

Decl. Value: \$0.00

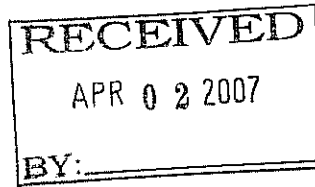
Ship To Company:

TESTAMERICA - MORGAN HILL
885 JARVIS DR
MORGAN HILL, CA 95037
SAMPLE CONTROL (408)776-9600

Service: **S**

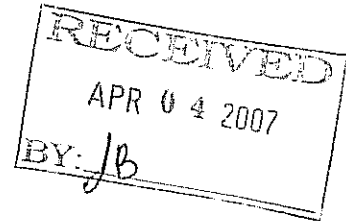
Sort Code: **SJC**

Special Services:



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

March 30, 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 (Quarterly Monitoring performed on March 15, 2007)

General Information

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

Phone Number: (530) 676-6000

On-Site Supplier Representative: Jerry Gonzales

Date: February 6, 2007 - 3/13/2007 (TV)

Arrival: 16:00 *Departure:* 017:40

Weather Conditions: Clear

Unusual Field Conditions: None

Scope of Work Performed: Quarterly monitoring and sampling

Variations from Work Scope: Site was re-visited to collect samples from the two new monitoring wells MW-5 and MW-6.

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 Doulos Environmental, Inc. [Doulos, 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. Doulos 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:

11124

Station #

Oakland - 3315 High Street

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

59

Added Equipment
Rinse Water 5

Any Other
Adjustments 0

**TOTAL GALS.
RECOVERED** 64

loaded onto
Doulos vehicle # _____

Stratus Project # _____

time date
1100 3/13/07

Signature Jerry G

RECEIVED AT _____ time date

BP 5786 2100 3/15/07

Unloaded by
Signature Jerry G

Filed 3/19/07

BP ALAMEDA PORTFOLIO
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: Jc WELL I.D.: MW-1
 CLIENT NAME: _____ SAMPLED BY: S SAMPLE I.D.: MW-1
 LOCATION: Oakland - 3315 High Street QA SAMPLES: _____

DATE PURGED 3-13-07 START (2400hr) 9:12 END (2400hr) 9:15
 DATE SAMPLED 3-13-07 SAMPLE TIME (2400hr) 9:20
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

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

DEPTH TO BOTTOM (feet) = 34.45 CASING VOLUME (gal) = 4.2
 DEPTH TO WATER (feet) = 9.62 CALCULATED PURGE (gal) = 12.6
 WATER COLUMN HEIGHT (feet) = 24.8 ACTUAL PURGE (gal) = 13.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3-13-07</u>	<u>9:13</u>	<u>4.3</u>	<u>19.9</u>	<u>317.1</u>	<u>7.26</u>	<u>clear</u>	
<u>1</u>	<u>9:14</u>	<u>8.7</u>	<u>20.0</u>	<u>501.2</u>	<u>7.32</u>	<u> </u>	
	<u>9:15</u>	<u>13.0</u>	<u>20.5</u>	<u>289.4</u>	<u>7.30</u>	<u> </u>	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 12.6' SAMPLE TURBIDITY: clear

80% RECHARGE: YES NO ANALYSES: see work order
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 1 LT. Amber NP

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: 25

SAMPLING EQUIPMENT

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

WELL INTEGRITY: good LOCK#: None

REMARKS: DO 2.63

SIGNATURE: [Signature] Page of

BP ALAMEDA PORTFOLIO
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: JC WELL I.D.: MW-2
 CLIENT NAME: _____ SAMPLED BY: J SAMPLE I.D.: MW-2
 LOCATION: Oakland - 3315 High Street QA SAMPLES: _____

DATE PURGED 3-13-09 START (2400hr) 9:36 END (2400hr) 9:39
 DATE SAMPLED 3-13-09 SAMPLE TIME (2400hr) 9:45
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 1 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 28.80 CASING VOLUME (gal) = 3.6
 DEPTH TO WATER (feet) = 9.55 CALCULATED PURGE (gal) = 10.8
 WATER COLUMN HEIGHT (feet) = 21.2 ACTUAL PURGE (gal) = 12.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3-13-09</u>	<u>9:39</u>	<u>3.6</u>	<u>19.9</u>	<u>522</u>	<u>7.19</u>	<u>clear</u>	_____
<u>/</u>	<u>9:38</u>	<u>2.3</u>	<u>20.5</u>	<u>533</u>	<u>7.16</u>	<u>/</u>	_____
<u>/</u>	<u>9:38</u>	<u>11</u>	<u>21.9</u>	<u>523</u>	<u>7.17</u>	<u>cloudy</u>	_____

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 8.14 SAMPLE TURBIDITY: cloudy
 80% RECHARGE: YES NO ANALYSES: see work order
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 1 LT Amber NP

PURGING EQUIPMENT

Bladder Pump _____ Bailer (Teflon) _____
 Centrifugal Pump _____ Bailer (PVC) _____
 Submersible Pump _____ Bailer (Stainless Steel) _____
 Peristaltic Pump _____ Dedicated _____
 Other: _____
 Pump Depth: 25

SAMPLING EQUIPMENT

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

WELL INTEGRITY: good LOCK#: MOT For
 REMARKS: DO 4.83

SIGNATURE: [Signature] Page _____ of _____

BP ALAMEDA PORTFOLIO
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: [Signature] WELL I.D.: WV-4
 CLIENT NAME: _____ SAMPLED BY: [Signature] SAMPLE I.D.: WV-4
 LOCATION: Oakland - 3315 High Street QA SAMPLES: _____

DATE PURGED 3-13-07 START (2400hr) 9:25 END (2400hr) 9:28
 DATE SAMPLED 3-13-07 SAMPLE TIME (2400hr) 9:32
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

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

DEPTH TO BOTTOM (feet) = 30.18 CASING VOLUME (gal) = 3.8
 DEPTH TO WATER (feet) = 7.55 CALCULATED PURGE (gal) = 11.5
 WATER COLUMN HEIGHT (feet) = 22.6 ACTUAL PURGE (gal) = 12.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3-13-07</u>	<u>9:26</u>	<u>4</u>	<u>18.7</u>	<u>4436</u>	<u>7.10</u>	<u>clear</u>	
<u>/</u>	<u>9:27</u>	<u>8</u>	<u>18.7</u>	<u>455.6</u>	<u>7.17</u>	<u>1</u>	
<u>/</u>	<u>9:28</u>	<u>12</u>	<u>18.7</u>	<u>4657</u>	<u>7.18</u>		

SAMPLE DEPTH TO WATER: 7.83 SAMPLE INFORMATION SAMPLE TURBIDITY: clear

80% RECHARGE: YES NO ANALYSES: See work order
 ODOR: N SAMPLE VESSEL / PRESERVATIVE: 1 LT Amber NP

PURGING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: 25

SAMPLING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____

WELL INTEGRITY: good LOCK#: MUST

REMARKS: Do 2.53

SIGNATURE: [Signature] Page ___ of ___

BP ALAMEDA PORTFOLIO
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: Jo WELL I.D.: MV-5
 CLIENT NAME: _____ SAMPLED BY: Jo SAMPLE I.D.: MV5
 LOCATION: Oakland - 3315 High Street QA SAMPLES: 1

DATE PURGED 3-13-07 START (2400hr) 10:16 END (2400hr) 10:19
 DATE SAMPLED 3-13-07 SAMPLE TIME (2400hr) 10:42
 SAMPLE TYPE: Groundwater x Surface Water _____ Treatment Effluent _____ Other _____

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

DEPTH TO BOTTOM (feet) = 29.82 CASING VOLUME (gal) = 3.5
 DEPTH TO WATER (feet) = 8.72 CALCULATED PURGE (gal) = 10.7
 WATER COLUMN HEIGHT (feet) = 21.1 ACTUAL PURGE (gal) = 11.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3-13-07</u>	<u>10:17</u>	<u>3.5</u>	<u>23.8</u>	<u>599</u>	<u>7.38</u>	<u>Cloudy</u>	
<u>/</u>	<u>10:18</u>	<u>20.0</u>	<u>22.4</u>	<u>561</u>	<u>7.03</u>	<u>1</u>	
<u>/</u>	<u>10:19</u>	<u>11.0</u>	<u>22.1</u>	<u>605</u>	<u>7.36</u>	<u>clear</u>	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 13.78 SAMPLE TURBIDITY: clear

80% RECHARGE: X YES NO ANALYSES: See work order
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 3 Via-HCC 1.0 L TAMBER NP

PURGING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
 ____ Centrifugal Pump ____ Bailer (PVC)
 ____ Submersible Pump ____ Bailer (Stainless Steel)
 ____ Peristaltic Pump ____ Dedicated _____
 Other: _____
 Pump Depth: 25

SAMPLING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
 ____ Centrifugal Pump X Bailer (____ PVC or X disposable)
 ____ Submersible Pump ____ Bailer (Stainless Steel)
 ____ Peristaltic Pump ____ Dedicated _____
 Other: _____

WELL INTEGRITY: Good LOCK#: D01P100

REMARKS: DO 1.84

SIGNATURE: [Signature] Page of

BP ALAMEDA PORTFOLIO
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 11124 PURGED BY: Jo WELL I.D.: MW-6
 CLIENT NAME: _____ SAMPLED BY: Jo SAMPLE I.D.: MW-6
 LOCATION: Oakland - 3315 High Street QA SAMPLES: _____

DATE PURGED 3-13-07 START (2400hr) 9:55 END (2400hr) 9:58
 DATE SAMPLED 3-13-07 SAMPLE TIME (2400hr) 10:08
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

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

DEPTH TO BOTTOM (feet) = 29.55 CASING VOLUME (gal) = 3.6
 DEPTH TO WATER (feet) = 7.82 CALCULATED PURGE (gal) = 11.0
 WATER COLUMN HEIGHT (feet) = 21.7 ACTUAL PURGE (gal) = 11.6

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3-13-07</u>	<u>9:56</u>	<u>2.6</u>	<u>22.3</u>	<u>627</u>	<u>7.19</u>	<u>cloudy</u>	
	<u>9:57</u>	<u>7.5</u>	<u>22.7</u>	<u>623</u>	<u>7.22</u>	<u>/</u>	
	<u>9:58</u>	<u>11.6</u>	<u>22.9</u>	<u>685</u>	<u>7.21</u>	<u>/</u>	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 9.03 SAMPLE TURBIDITY: clean

80% RECHARGE: YES NO ANALYSES: see work order
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 3.0ea-Hcl - 1LT Amber NP

PURGING EQUIPMENT

Bladder Pump _____ Bailer (Teflon) _____
 Centrifugal Pump _____ Bailer (PVC) _____
 Submersible Pump _____ Bailer (Stainless Steel) _____
 Peristaltic Pump _____ Dedicated _____
 Other: _____
 Pump Depth: 25

SAMPLING EQUIPMENT

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

WELL INTEGRITY: good LOCK#: DoiPaw

REMARKS: DO 1.92

SIGNATURE: [Signature] Page of


23 March, 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: MQC0512

Enclosed are the results of analyses for samples received by the laboratory on 03/15/07 08:30. 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: BP Heritage #11124, Oakland ,CA
Project Number: G099D-0012
Project Manager: Jay Johnson

MQC0512
Reported:
03/23/07 11:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQC0512-01	Water	03/13/07 09:20	03/15/07 08:30
MW-2	MQC0512-02	Water	03/13/07 09:45	03/15/07 08:30
MW-4	MQC0512-03	Water	03/13/07 09:32	03/15/07 08:30
MW-5	MQC0512-04	Water	03/13/07 10:42	03/15/07 08:30
MW-6	MQC0512-05	Water	03/13/07 10:08	03/15/07 08:30
TB 11124	MQC0512-06	Water	03/13/07 06:00	03/15/07 08:30

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

MQC0512
Reported:
03/23/07 11:13

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 (MQC0512-04) Water Sampled: 03/13/07 10:42 Received: 03/15/07 08:30									
Gasoline Range Organics (C4-C12)	880	250	ug/l	5	7C21023	03/21/07	03/22/07	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %	60-145		"	"	"	"	
MW-6 (MQC0512-05) Water Sampled: 03/13/07 10:08 Received: 03/15/07 08:30									
Gasoline Range Organics (C4-C12)	86	50	ug/l	1	7C20015	03/20/07	03/21/07	LUFT GCMS	PV
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	60-145		"	"	"	"	

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

MQC0512
Reported:
03/23/07 11:13

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 (MQC0512-01) Water Sampled: 03/13/07 09:20 Received: 03/15/07 08:30									
Diesel Range Organics (C10-C36)	ND	48	ug/l	1	7C19016	03/19/07	03/21/07	EPA 8015B-SVOA	
<i>Surrogate: n-Octacosane</i>		77 %	30-115		"	"	"	"	
MW-2 (MQC0512-02) Water Sampled: 03/13/07 09:45 Received: 03/15/07 08:30									
Diesel Range Organics (C10-C36)	52	48	ug/l	1	7C19016	03/19/07	03/21/07	EPA 8015B-SVOA	HD
<i>Surrogate: n-Octacosane</i>		83 %	30-115		"	"	"	"	
MW-4 (MQC0512-03) Water Sampled: 03/13/07 09:32 Received: 03/15/07 08:30									
Diesel Range Organics (C10-C36)	ND	49	ug/l	1	7C19033	03/19/07	03/20/07	EPA 8015B-SVOA	
<i>Surrogate: n-Octacosane</i>		96 %	30-115		"	"	"	"	
MW-5 (MQC0512-04) Water Sampled: 03/13/07 10:42 Received: 03/15/07 08:30									
Diesel Range Organics (C10-C36)	ND	48	ug/l	1	7C19033	03/19/07	03/20/07	EPA 8015B-SVOA	
<i>Surrogate: n-Octacosane</i>		95 %	30-115		"	"	"	"	
MW-6 (MQC0512-05) Water Sampled: 03/13/07 10:08 Received: 03/15/07 08:30									
Diesel Range Organics (C10-C36)	ND	48	ug/l	1	7C19033	03/19/07	03/20/07	EPA 8015B-SVOA	
<i>Surrogate: n-Octacosane</i>		90 %	30-115		"	"	"	"	

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

MQC0512
Reported:
03/23/07 11:13

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

MW-5 (MQC0512-04) Water Sampled: 03/13/07 10:42 Received: 03/15/07 08:30

tert-Amyl methyl ether	6.5	5.0	ug/l	10	7C20015	03/20/07	03/21/07	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	3000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1400	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

100 % 75-130

" " " "

Surrogate: 1,2-Dichloroethane-d4

104 % 60-145

" " " "

Surrogate: Toluene-d8

96 % 70-130

" " " "

Surrogate: 4-Bromofluorobenzene

90 % 60-120

" " " "

MW-6 (MQC0512-05) Water Sampled: 03/13/07 10:08 Received: 03/15/07 08:30

tert-Amyl methyl ether	ND	0.50	ug/l	1	7C19015	03/19/07	03/20/07	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	88	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

92 % 75-130

" " " "

Surrogate: 1,2-Dichloroethane-d4

88 % 60-145

" " " "

Surrogate: Toluene-d8

94 % 70-130

" " " "

Surrogate: 4-Bromofluorobenzene

86 % 60-120

" " " "

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

MQC0512
Reported:
03/23/07 11:13

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
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Batch 7C20015 - EPA 5030B P/T / LUFT GCMS

Blank (7C20015-BLK1)

Prepared: 03/20/07 Analyzed: 03/21/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.47		"	2.50		99	60-145			

Laboratory Control Sample (7C20015-BS2)

Prepared & Analyzed: 03/20/07

Gasoline Range Organics (C4-C12)	494	50	ug/l	500		99	75-140			
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-145			

Laboratory Control Sample Dup (7C20015-BSD2)

Prepared & Analyzed: 03/20/07

Gasoline Range Organics (C4-C12)	488	50	ug/l	500		98	75-140	1	20	
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-145			

Batch 7C21023 - EPA 5030B P/T / LUFT GCMS

Blank (7C21023-BLK1)

Prepared: 03/21/07 Analyzed: 03/22/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.57		"	2.50		103	60-145			

Laboratory Control Sample (7C21023-BS2)

Prepared & Analyzed: 03/21/07

Gasoline Range Organics (C4-C12)	449	50	ug/l	500		90	75-140			
Surrogate: 1,2-Dichloroethane-d4	2.41		"	2.50		96	60-145			

Laboratory Control Sample Dup (7C21023-BSD2)

Prepared & Analyzed: 03/21/07

Gasoline Range Organics (C4-C12)	445	50	ug/l	500		89	75-140	0.9	20	
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-145			

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

MQC0512
Reported:
03/23/07 11:13

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
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Batch 7C19016 - EPA 3510C / EPA 8015B-SVOA

Blank (7C19016-BLK1)										
					Prepared: 03/19/07 Analyzed: 03/20/07					
Diesel Range Organics (C10-C36)	ND	50	ug/l							
Surrogate: n-Octacosane	46.2		"	50.0		92	30-115			
Laboratory Control Sample (7C19016-BS1)										
					Prepared: 03/19/07 Analyzed: 03/20/07					
Diesel Range Organics (C10-C36)	361	50	ug/l	500		72	40-140			
Surrogate: n-Octacosane	39.7		"	50.0		79	30-115			
Laboratory Control Sample Dup (7C19016-BSD1)										
					Prepared: 03/19/07 Analyzed: 03/20/07					
Diesel Range Organics (C10-C36)	358	50	ug/l	500		72	40-140	0.8	35	
Surrogate: n-Octacosane	42.0		"	50.0		84	30-115			

Batch 7C19033 - EPA 3510C / EPA 8015B-SVOA

Blank (7C19033-BLK1)										
					Prepared: 03/19/07 Analyzed: 03/20/07					
Diesel Range Organics (C10-C36)	ND	50	ug/l							
Surrogate: n-Octacosane	38.7		"	50.0		77	30-115			
Laboratory Control Sample (7C19033-BS1)										
					Prepared: 03/19/07 Analyzed: 03/20/07					
Diesel Range Organics (C10-C36)	319	50	ug/l	500		64	40-140			
Surrogate: n-Octacosane	39.6		"	50.0		79	30-115			
Laboratory Control Sample Dup (7C19033-BSD1)										
					Prepared: 03/19/07 Analyzed: 03/20/07					
Diesel Range Organics (C10-C36)	318	50	ug/l	500		64	40-140	0.3	35	
Surrogate: n-Octacosane	38.7		"	50.0		77	30-115			

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

MQC0512
Reported:
03/23/07 11:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7C19015 - EPA 5030B P/T / EPA 8260B

Blank (7C19015-BLK1)

Prepared: 03/19/07 Analyzed: 03/20/07

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>	2.57		"	2.50		103	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.41		"	2.50		96	60-145			
<i>Surrogate: Toluene-d8</i>	2.40		"	2.50		96	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.37		"	2.50		95	60-120			

Laboratory Control Sample (7C19015-BS1)

Prepared & Analyzed: 03/19/07

tert-Amyl methyl ether	8.42	0.50	ug/l	10.0		84	65-135			
Benzene	9.65	0.50	"	10.0		96	70-125			
tert-Butyl alcohol	193	20	"	200		96	60-135			
Di-isopropyl ether	8.25	0.50	"	10.0		82	70-130			
1,2-Dibromoethane (EDB)	9.51	0.50	"	10.0		95	75-140			
1,2-Dichloroethane	9.60	0.50	"	10.0		96	75-125			
Ethanol	234	300	"	200		117	15-150			
Ethyl tert-butyl ether	8.80	0.50	"	10.0		88	65-130			
Ethylbenzene	11.2	0.50	"	10.0		112	70-130			
Methyl tert-butyl ether	8.94	0.50	"	10.0		89	50-140			
Toluene	10.3	0.50	"	10.0		103	70-120			
Xylenes (total)	32.6	0.50	"	30.0		109	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.25		"	2.50		90	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.23		"	2.50		89	60-145			
<i>Surrogate: Toluene-d8</i>	2.32		"	2.50		93	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.23		"	2.50		89	60-120			

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

MQC0512
Reported:
03/23/07 11:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7C19015 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7C19015-MS1)	Source: MQC0475-09			Prepared: 03/19/07		Analyzed: 03/20/07				
tert-Amyl methyl ether	9.46	0.50	ug/l	10.0	ND	95	65-135			
Benzene	8.92	0.50	"	10.0	ND	89	70-125			
tert-Butyl alcohol	178	20	"	200	ND	89	60-135			
Di-isopropyl ether	8.58	0.50	"	10.0	ND	86	70-130			
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0	ND	107	75-140			
1,2-Dichloroethane	10.2	0.50	"	10.0	ND	102	75-125			
Ethanol	188	300	"	200	ND	94	15-150			
Ethyl tert-butyl ether	9.85	0.50	"	10.0	ND	98	65-130			
Ethylbenzene	9.55	0.50	"	10.0	ND	96	70-130			
Methyl tert-butyl ether	31.6	0.50	"	10.0	23	86	50-140			
Toluene	9.59	0.50	"	10.0	ND	96	70-120			
Xylenes (total)	28.5	0.50	"	30.0	ND	95	80-125			
<i>Surrogate: Dibromofluoromethane</i>	<i>2.39</i>		<i>"</i>	<i>2.50</i>		<i>96</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.47</i>		<i>"</i>	<i>2.50</i>		<i>99</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.39</i>		<i>"</i>	<i>2.50</i>		<i>96</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.42</i>		<i>"</i>	<i>2.50</i>		<i>97</i>	<i>60-120</i>			

Matrix Spike Dup (7C19015-MSD1)	Source: MQC0475-09			Prepared: 03/19/07		Analyzed: 03/20/07				
tert-Amyl methyl ether	7.82	0.50	ug/l	10.0	ND	78	65-135	19	25	
Benzene	9.44	0.50	"	10.0	ND	94	70-125	6	15	
tert-Butyl alcohol	196	20	"	200	ND	98	60-135	10	35	
Di-isopropyl ether	7.69	0.50	"	10.0	ND	77	70-130	11	35	
1,2-Dibromoethane (EDB)	9.65	0.50	"	10.0	ND	96	75-140	10	15	
1,2-Dichloroethane	9.39	0.50	"	10.0	ND	94	75-125	8	20	
Ethanol	245	300	"	200	ND	122	15-150	26	35	
Ethyl tert-butyl ether	8.39	0.50	"	10.0	ND	84	65-130	16	35	
Ethylbenzene	11.2	0.50	"	10.0	ND	112	70-130	16	15	BA
Methyl tert-butyl ether	25.2	0.50	"	10.0	23	22	50-140	23	25	LN
Toluene	9.98	0.50	"	10.0	ND	100	70-120	4	15	
Xylenes (total)	33.0	0.50	"	30.0	ND	110	80-125	15	15	
<i>Surrogate: Dibromofluoromethane</i>	<i>2.20</i>		<i>"</i>	<i>2.50</i>		<i>88</i>	<i>75-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.15</i>		<i>"</i>	<i>2.50</i>		<i>86</i>	<i>60-145</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.35</i>		<i>"</i>	<i>2.50</i>		<i>94</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.19</i>		<i>"</i>	<i>2.50</i>		<i>88</i>	<i>60-120</i>			

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: BP Heritage #11124, Oakland, CA
Project Number: G099D-0012
Project Manager: Jay Johnson

MQC0512
Reported:
03/23/07 11:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7C20015 - EPA 5030B P/T / EPA 8260B

Blank (7C20015-BLK1)

Prepared: 03/20/07 Analyzed: 03/21/07

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>	2.49		"	2.50		100	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.47		"	2.50		99	60-145			
<i>Surrogate: Toluene-d8</i>	2.41		"	2.50		96	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.25		"	2.50		90	60-120			

Laboratory Control Sample (7C20015-BS1)

Prepared & Analyzed: 03/20/07

tert-Amyl methyl ether	9.88	0.50	ug/l	10.0		99	65-135			
Benzene	9.66	0.50	"	10.0		97	70-125			
tert-Butyl alcohol	195	20	"	200		98	60-135			
Di-isopropyl ether	9.07	0.50	"	10.0		91	70-130			
1,2-Dibromoethane (EDB)	11.1	0.50	"	10.0		111	75-140			
1,2-Dichloroethane	11.0	0.50	"	10.0		110	75-125			
Ethanol	230	300	"	200		115	15-150			
Ethyl tert-butyl ether	10.3	0.50	"	10.0		103	65-130			
Ethylbenzene	10.2	0.50	"	10.0		102	70-130			
Methyl tert-butyl ether	10.4	0.50	"	10.0		104	50-140			
Toluene	10.4	0.50	"	10.0		104	70-120			
Xylenes (total)	31.2	0.50	"	30.0		104	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.38		"	2.50		95	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.55		"	2.50		102	60-145			
<i>Surrogate: Toluene-d8</i>	2.34		"	2.50		94	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.43		"	2.50		97	60-120			

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

MQC0512
Reported:
03/23/07 11:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7C20015 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7C20015-MS1)	Source: MQC0510-09			Prepared: 03/20/07		Analyzed: 03/21/07	
tert-Amyl methyl ether	9.74	0.50	ug/l	10.0	ND	97	65-135
Benzene	9.33	0.50	"	10.0	ND	93	70-125
tert-Butyl alcohol	184	20	"	200	ND	92	60-135
Di-isopropyl ether	9.09	0.50	"	10.0	ND	91	70-130
1,2-Dibromoethane (EDB)	11.1	0.50	"	10.0	ND	111	75-140
1,2-Dichloroethane	10.9	0.50	"	10.0	ND	109	75-125
Ethanol	184	300	"	200	ND	92	15-150
Ethyl tert-butyl ether	10.4	0.50	"	10.0	ND	104	65-130
Ethylbenzene	9.49	0.50	"	10.0	ND	95	70-130
Methyl tert-butyl ether	11.5	0.50	"	10.0	0.79	107	50-140
Toluene	9.84	0.50	"	10.0	ND	98	70-120
Xylenes (total)	28.3	0.50	"	30.0	ND	94	80-125
<i>Surrogate: Dibromofluoromethane</i>	2.50		"	2.50		100	75-130
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.60		"	2.50		104	60-145
<i>Surrogate: Toluene-d8</i>	2.45		"	2.50		98	70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	2.40		"	2.50		96	60-120

Matrix Spike Dup (7C20015-MSD1)	Source: MQC0510-09			Prepared: 03/20/07		Analyzed: 03/21/07			
tert-Amyl methyl ether	10.7	0.50	ug/l	10.0	ND	107	65-135	9	25
Benzene	9.96	0.50	"	10.0	ND	100	70-125	7	15
tert-Butyl alcohol	196	20	"	200	ND	98	60-135	6	35
Di-isopropyl ether	9.86	0.50	"	10.0	ND	99	70-130	8	35
1,2-Dibromoethane (EDB)	12.3	0.50	"	10.0	ND	123	75-140	10	15
1,2-Dichloroethane	12.1	0.50	"	10.0	ND	121	75-125	10	20
Ethanol	189	300	"	200	ND	94	15-150	3	35
Ethyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	65-130	7	35
Ethylbenzene	10.2	0.50	"	10.0	ND	102	70-130	7	15
Methyl tert-butyl ether	12.6	0.50	"	10.0	0.79	118	50-140	9	25
Toluene	10.4	0.50	"	10.0	ND	104	70-120	6	15
Xylenes (total)	31.6	0.50	"	30.0	ND	105	80-125	11	15
<i>Surrogate: Dibromofluoromethane</i>	2.61		"	2.50		104	75-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.56		"	2.50		102	60-145		
<i>Surrogate: Toluene-d8</i>	2.44		"	2.50		98	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	2.48		"	2.50		99	60-120		

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

MQC0512
Reported:
03/23/07 11:13

Notes and Definitions

SG A silica gel cleanup procedure was performed.

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

LN MS and/or MSD below acceptance limits. See Blank Spike(LCS).

HD Chromat. profile inconsistent with pattern(s) of ref. fuel stnds.

BA Relative percent difference out of control

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



Telephone: (916) 990-0333

FAX: (916) 990-0332

P.O. Box 2559, Orangevale, CA 95662

e-mail: doulosenv@comcast.net

FAX

To: Lisa Race
Test America

From: Monika Stover

Fax: (408) 782-6308

Pages 2

Phone (408) 782-8158

Date: 3/19/07

RE: BP 1124

Comments:

M200512

Hi Lisa,

Following, please find a Revised COC for the Arco site BP1124. Please note date the results are needed is 3/23/07.

Please call us if you have any questions.

Monika

Mar 19 2007 9:50AM Douglas Environmental 916-990-0332 p.2



** Revised COC **

Page 1 of 1

Chain of Custody Record

REVISED

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): 3/23/2007

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11124</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3315 High Street, Oakland</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 #: <u>T06001001919</u>	Consultant/Contractor Project No.: <u>E11124-04</u>
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G099D-0012</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or RCOP (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 I with BDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>clewit@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	Preservative					Requested Analysis					MOC0512 Sample Point Lat/Long and Comments *Oxy = MTRD, TAME, ETBE, DIPE, TBA
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air		No. of Containers	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO/BTEX/Oxy*	1,2 DCA	EDB	Edimol by 8260	
1	MW-1			X							X							X
2	MW-2			X							X							X
3	MW-4			X							X							X
4	MW-5			X							X		X	X	X	X	X	X
5	MW-6			X							X		X	X	X	X	X	X
6	TB 11124			X							X							X
7																		
8																		
9																		
10																		

Sampler's Name:	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Please cc results to: miller@broadbentinc.com
This is a revised COC for BP 11124 sampled on 3/13/07, accepted by TestAmerica at 1315 on 3/14/07.
 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

PROBLEM CHAIN-OF-CUSTODY

MQC0512

DATE/TIME 3-15-07 955

DATE RECEIVED 3-15-07

CLIENT BP

TURN AROUND TIME Std.

CLIENT SERVICES REP LISA

ANALYST AM

PROBLEM

TB11124 had 1 of 2 samples received broken.

RESOLUTION

Client Instruction* _____

Telephone Number of Client: _____

Client Contact for Instruction: _____

Date and Time of Instruction: _____

Date & Time Form Given to Sample Control: _____

CLIENT SERVICES REP. SIGNATURE: _____

DATE/TIME: _____

*If client does not return call within 24 hours, please route this form to the Laboratory Director.

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: BP
 REC. BY (PRINT) A.M.
 WORKORDER: MQ0512

DATE REC'D AT LAB: 3-15-07
 TIME REC'D AT LAB: 8:30
 DATE LOGGED IN: 3-16-07

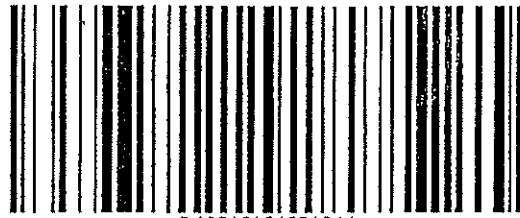
For Regulatory Purposes?
 DRINKING WATER YES NO
 WASTE WATER YES NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent Intact / Broken*	01	MW-1	1(G) Amber	HCl	7	L	3-13-07	
	02	MW-2	↓	↓	7	↓	↓	
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*	03	MW-4	↓	↓	7	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent	04	MW-5	↓	↓	7	↓	↓	
	↓	↓	3 VOA	↓	-	↓	↓	
4. Airbill: <input checked="" type="radio"/> Airbill / Sticker Present / Absent	05	MW-6	1(G) Amber	↓	7	↓	↓	
	↓	↓	3 VOA	↓	-	↓	↓	
5. Airbill #: <u>See Attached</u>	06	TB 11124	2 VOA	↓	-	↓	↓	lot 2 arrived broken
6. Sample Labels: <input checked="" type="radio"/> Present / Absent								
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: Intact / <input checked="" type="radio"/> Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*								
10. Sample received within hold time? <input checked="" type="radio"/> Yes / No*								
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / No*								
12. Proper preservatives used? <input checked="" type="radio"/> Yes / No*								
13. <input checked="" type="radio"/> Trip Blank / <input checked="" type="radio"/> Temp Blank Received? (circle which, if yes) <input checked="" type="radio"/> Yes / No*								
14. Read Temp: <u>5.2°C</u> Corrected Temp: <u>5.2°C</u> Is corrected temp 4 +/-2°C? <input checked="" type="radio"/> Yes / No**								
<p>(Acceptance range for samples requiring thermal pres.)</p> <p>**Exception (if any): METALS / DFF ON ICE or Problem COC</p>								

3-15-07 A.M.

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

California Overnight Shipping Label



D10010124091044

Date Printed 3/14/2007

Tracking#D10010124091044

Shipped From:
 TEST AMERICA - SACRAMENTO
 819 STRIKER AVENUE 8
 SACRAMENTO, CA 95834

Sent By: TIM ALBRIGHT
Phone#: (916)921-9600
wgt(lbs): 58
Reference:
Decl. Value: \$0.00

<p><i>Ship To Company:</i> TESTAMERICA - MORGAN HILL 885 JARVIS DR MORGAN HILL, CA 95037 SAMPLE CONTROL (408)776-9600</p>	<p><i>Service:</i> G <i>Sort Code:</i> SJC <i>Special Services:</i></p>
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APPENDIX C

GeoTracker Upload Confirmation Reports

Electronic Submittal Information

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UPLOADING A GEO_BORE FILE

YOUR IMAGE UPLOAD WAS SUCCESSFUL!

<u>Facility Name:</u>	BP #11124
<u>Global ID:</u>	T0600100919
<u>Field Pt Name:</u>	MW-5
<u>Submittal Type:</u>	GEO_BORE
<u>Submittal Date/Time:</u>	4/5/2007 10:29:52 AM
<u>Confirmation Number:</u>	5561079263

Click [here](#) to view the image.

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UPLOADING A GEO_BORE FILE

YOUR IMAGE UPLOAD WAS SUCCESSFUL!

<u>Facility Name:</u>	BP #11124
<u>Global ID:</u>	T0600100919
<u>Field Pt Name:</u>	MW-6
<u>Submittal Type:</u>	GEO_BORE
<u>Submittal Date/Time:</u>	4/5/2007 10:30:18 AM
<u>Confirmation Number:</u>	1470265269

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UPLOADING A GEO_MAP FILE

YOUR IMAGE UPLOAD WAS SUCCESSFUL!

<u>Facility Name:</u>	BP #11124
<u>Global ID:</u>	T0600100919
<u>Submittal Type:</u>	GEO_MAP
<u>Submittal Date/Time:</u>	4/5/2007 10:35:56 AM
<u>Confirmation Number:</u>	7296584904

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UPLOADING A GEO_XY FILE

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

Submittal Title: GEO_XY 11124
Submittal Date/Time: 4/5/2007 10:21:20 AM
Confirmation Number: 2010395646

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UPLOADING A GEO_Z FILE

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

Submittal Title: GEO_Z 11124
Submittal Date/Time: 4/5/2007 10:29:07 AM
Confirmation Number: 3952071964

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Your EDF file has been successfully uploaded!

Confirmation Number: 6450427889

Date/Time of Submittal: 4/5/2007 11:02:50 AM

Facility Global ID: T0600100919

Facility Name: BP #11124

Submittal Title: 0206 Soil Monitoring

Submittal Type: Miscellaneous Sample Results

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 (REGION 2) - (CM) Local Agency (lead agency) - Case #: RO0000239 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
6450427889	0206 Soil Monitoring	Q4 2006
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	4/5/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	6
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	SOIL

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH,SW8015B
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
- SW8015B REQUIRES DCA12 TO BE TESTED	
- SW8015B REQUIRES EDB TO BE TESTED	
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 - NON-STANDARD SURROGATE USED	Y

WATER 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 85-115%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

SOIL 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
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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BP #11124 3315 HIGH OAKLAND, CA 94619	Regional Board - Case #: 01-0996 SAN FRANCISCO BAY RWQCB (REGION 2) - (CM) Local Agency (lead agency) - Case #: RO0000239 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
4434284329	1Q07 GW Monitoring 2-2007	Q1 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	4/5/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

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

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
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPDL</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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BP #11124 3315 HIGH OAKLAND, CA 94619	Regional Board - Case #: 01-0996 SAN FRANCISCO BAY RWQCB (REGION 2) - (CM) Local Agency (lead agency) - Case #: RO0000239 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
2365539968	1Q07 GW Monitoring 3-2007	Q1 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	4/5/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH,SW8015B
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 - NON-STANDARD SURROGATE USED	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
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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BP #11124 3315 HIGH OAKLAND, CA 94619	Regional Board - Case #: 01-0996 SAN FRANCISCO BAY RWQCB (REGION 2) - (CM) Local Agency (lead agency) - Case #: RO0000239 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u> 4300723731	<u>TITLE</u> 4Q06 Soil Monitoring	<u>QUARTER</u> Q4 2006
<u>SUBMITTED BY</u> Broadbent & Associates, Inc.	<u>SUBMIT DATE</u> 1/26/2007	<u>STATUS</u> PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	1
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	SOIL

METHOD QA/QC REPORT

METHODS USED 8260TPH,SW6010B,SW8260B

TESTED FOR REQUIRED ANALYTES? N

MISSING PARAMETERS NOT TESTED:

- SW8260B REQUIRES MTBE TO BE TESTED
- SW8260B REQUIRES ETBE TO BE TESTED
- SW8260B REQUIRES TAME TO BE TESTED
- SW8260B REQUIRES DIPE TO BE TESTED
- SW8260B REQUIRES TBA TO BE TESTED
- SW8260B REQUIRES DCA12 TO BE TESTED
- SW8260B REQUIRES EDB TO BE TESTED

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%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

SOIL 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
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0