



Atlantic Richfield Company
(a BP affiliated company)

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2:41 pm, Feb 14, 2008

Alameda County
Environmental Health

8 February 2008

Re: Fourth Quarter 2007 Ground-Water Monitoring and Interim Remedial Measures Report
Former BP Station # 11132
3201 35th Avenue
Oakland, California
ACEH Case #RO0000014

“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



A BP affiliated company

**Fourth Quarter 2007 Ground-Water Monitoring
and
Interim Remedial Measures Report**
Former BP Station #11132
3201 35th Avenue
Oakland, California

Prepared for

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

Prepared by



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Chico, California 95926
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8 February 2008

Project No. 06-08-655

8 February 2008

Project No. 06-08-655

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

Attn.: Mr. Paul Supple

Re: Fourth Quarter 2007 Ground-Water Monitoring and Interim Remedial Measures Report,
Former BP Station #11132, 3201 35th Avenue, Oakland, Alameda County, California;
ACEH Case #RO0000014

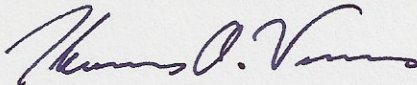
Dear Mr. Supple:

Provided herein is the *Fourth Quarter 2007 Ground-Water Monitoring and Interim Remedial Measures Report* for Former BP Station #11132 (herein referred to as Station #11132) located at 3201 35th Avenue, Oakland, California (Site). This report presents a description of field activities conducted and analytical results obtained during a recent mobile dual-phase extraction event, and results of the regularly-scheduled ground-water monitoring and sampling event conducted at Station #11132 during the Fourth Quarter of 2007.

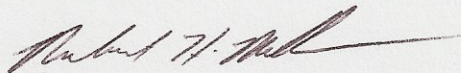
Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

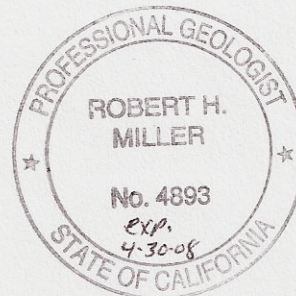
BROADBENT & ASSOCIATES, INC.



Thomas A. Venus, P.E.
Senior Engineer



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



Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, California 95818
Electronic copy uploaded to GeoTracker

**FOURTH QUARTER 2007 GROUND-WATER MONITORING AND
INTERIM REMEDIAL MEASURES REPORT
Former BP Station #11132
3315 High Street, Oakland, California**

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**FOURTH QUARTER 2007 GROUND-WATER MONITORING AND
INTERIM REMEDIAL MEASURES REPORT
Former BP Station #11132
3315 High Street, Oakland, California**

1.0 INTRODUCTION

Broadbent & Associates, Inc. (BAI) has prepared this report, on behalf of Atlantic Richfield Company (ARCO – a BP affiliated company), combining the routine Ground-Water Monitoring Report for monitoring/sampling conducted during the Fourth Quarter 2007 with a summary of interim remedial measures conducted during the same period at Former BP Service Station #11132 located in Oakland, California (Site). Mobile Dual-Phase Extraction (DPE) activities were conducted between November 26-28, 2007 as an Interim Remedial Measure (IRM).

2.0 GROUND-WATER MONITORING AND SAMPLING

The following section contains information that would normally be presented within the routine quarterly ground-water monitoring and sampling report for the Fourth Quarter 2007.

2.1 Site Identification Summary

Facility: #11132	Address:	3201 35 th Avenue, Oakland, California
Environmental Business Manager:		Mr. Paul Supple
Consulting Co./Contact Persons:		Broadbent & Associates, Inc.(BAI) / (530) 566-1400 Rob Miller, P.G./C.HG & Tom Venus, P.E.
Consultant Project No.:		06-08-655
Primary Agency/Regulatory ID No.:		Alameda County Environmental Health (ACEH) ACEH Case # RO0000014

2.2 Work Performed This Quarter (Fourth Quarter 2007):

1. Prepared and submitted Third Quarter 2007 Ground-Water Monitoring Report.
2. Conducted ground-water monitoring/sampling for Fourth Quarter 2007. Work performed by Stratus Environmental, Inc. (Stratus) on 8 November 2007.
3. Performed monthly free product (FP) gauging and bailing.
4. Conducted a mobile DPE event onsite. Work performed by Stratus November 26-28, 2007.

2.3 Work Proposed for Next Quarter (First Quarter 2008):

1. Prepared and submitted this Fourth Quarter 2007 Ground-Water Monitoring and Interim Remedial Measures Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for First Quarter 2008.
3. Perform monthly FP gauging and bailing.

2.4 Quarterly Results Summary

Current phase of project:	Ground-Water Monitoring/Sampling/FP Bailing
Frequency of ground-water monitoring:	Quarterly: MW-1 through MW-10 and RW-1
Frequency of ground-water sampling:	Quarterly: MW-1, MW-2, MW-5, MW-8, MW-9, MW-10, and RW-1
	Annually (1Q): MW-3, MW-4, MW-6, and MW-7
Is free product (FP) present on-site:	Yes (MW-1, RW-1)
FP recovered this quarter:	17.5 gallons
Cumulative FP recovered since 1990:	78.274 gallons
Current remediation techniques:	Interim FP Bailing / Mobile DPE Event
Depth to ground water (below TOC):	17.79 ft (MW-6) to 21.86 ft (MW-4)
General ground-water flow direction:	Southwest
Approximate hydraulic gradient:	0.006 ft/ft

2.5 Discussion

Fourth quarter ground-water monitoring was conducted at Former BP Station #11132 by Stratus on 8 November 2007. Water levels were gauged in the 11 wells at the Site. Sheen was noted in wells MW-5, MW-8 and MW-10. Separate phase hydrocarbons (SPH, or Free Product – FP) were observed in wells MW-1 and RW-1. No other irregularities were noted during water level gauging. Depth to water measurements across the Site ranged from 17.79 ft at MW-6 to 21.86 ft at MW-4. Resulting ground-water surface elevations ranged from 148.50 ft above mean sea level at upgradient well MW-4 to 146.59 ft at downgradient well MW-5. Fourth quarter 2007 ground-water elevations were within the historic minimum and maximum ranges for each well. These ground-water level elevations yielded a potentiometric ground-water flow direction and gradient of approximately 0.006 ft/ft to the southwest, which is consistent with historical data (see Table 3). Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground-water and respective ground-water elevations are summarized in Table 1. Potentiometric ground-water elevation contours are presented in Drawing 1.

Ground-water samples were collected from wells MW-2, MW-5, MW-8, MW-9, and MW-10. Wells MW-1 and RW-1 were not sampled as FP was present (See discussion below). No other irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to Test America Analytical Testing Corporation (Morgan Hill, California), for analysis of Gasoline Range Organics (GRO, C4-12) by the LUFT GCMS Method; for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Di-isopropyl ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Ethanol, Ethyl tert-butyl ether (ETBE), and Methyl tert-butyl ether (MTBE) by EPA Method 8260B. No significant irregularities were encountered during laboratory analysis of the samples. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

Concentrations of GRO were detected above the laboratory reporting limit in each of the five wells sampled at concentrations up to 24,000 micrograms per liter ($\mu\text{g/L}$) in well MW-8. Benzene was detected above the laboratory reporting limit in each of the five wells sampled at concentrations up to 7,400 $\mu\text{g/L}$ in well MW-2. Toluene was detected above the laboratory reporting limit in three of the five wells sampled at concentrations up to 420 $\mu\text{g/L}$ in well MW-2. Ethylbenzene was detected above the laboratory reporting limit in each of the five wells sampled at concentrations up to 1,100 $\mu\text{g/L}$ in well

MW-8. Total Xylenes were detected above the laboratory reporting limit in each of the five wells sampled at concentrations up to 3,200 µg/L in well MW-8. TBA was detected above the laboratory reporting limit in two of the five wells sampled at concentrations up to 2,800 µg/L in well MW-2. MTBE was detected above the laboratory reporting limit in each of the five wells sampled at concentrations up to 270 µg/L in well MW-5. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the wells sampled this quarter.

Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well with the following exception: MTBE reached a historic minimum concentration of 6.0 µg/L in well MW-10. Historic laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 1. A copy of the laboratory analytical report, including chain-of-custody documentation, is provided in Appendix A. Ground-water monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix B.

Separate phase hydrocarbons (SPH, or Free Product – FP) were monitored and removed during each month of Fourth Quarter 2007. On 17 October 2007, FP thickness was measured in wells MW-1 (0.01 ft), RW-1 (0.01 ft), MW-8 (no sheen/FP), MW-9 (no sheen/FP), and MW-10 (no sheen/FP). Approximately four gallons of FP/water mixture was removed from each well MW-1 and RW-1 during this visit. On 8 November 2007, FP thickness was measured in wells MW-1 (0.01 ft), RW-1 (0.01 ft), MW-5 (Sheen), MW-8 (Sheen), MW-9 (no sheen/FP), and MW-10 (Sheen). Approximately 3.0 gallons of FP/water mixture was removed from MW-1 and 2.5 gallons of FP/water mixture was removed from RW-1 during this site visit. On 12 December 2007, FP thickness was measured in wells MW-1 (0.01 ft), RW-1 (0.01 ft), MW-8 (no sheen/FP), and MW-10 (no sheen/FP). MW-9 was not monitored as it was found filled with sand on this date. Well MW-9 has since been cleaned out and the issue should now be resolved. Approximately 1.5 gallons of FP/water mixture was removed from MW-1 and 2.5 gallons was removed from RW-1 during this site visit. Approximately 8.5 gallons of FP/water mixture was removed from MW-1 and nine gallons of FP/water mixture was removed from RW-1 during Fourth Quarter 2007, totaling 17.5 gallons of FP/water mixture removed from the Site during Fourth Quarter 2007. Stratus will investigate the use of passive oil skimmers in wells MW-1 and RW-1. Passive oil skimmers will enable quantification of the volume of FP removed, as well as remove FP full-time. Total cumulative FP removed to date at the Site is approximately 78.274 gallons, but this does not include the unknown volume absorbed within the socks that were removed and replaced each month during Second Quarter 2007. Table 4 contains a summary of FP removal data. Copies of the field data sheets for site visits conducted this quarter are included within Appendix A.

3.0 MOBILE DUAL-PHASE EXTRACTION INTERIM REMEDIAL MEASURES

Stratus performed the field activities associated with the Mobile DPE event conducted during November 26-28, 2007. Existing onsite wells MW-1, MW-2, and RW-1 were used as individual extraction wells for the Mobile DPE events. Selection of these wells for extraction was based on construction, quarterly ground-water monitoring levels, laboratory analytical results, and locations on the Site. The remaining onsite and offsite wells, with the exception of wells MW-5 and MW-6, were used as observation points to monitor for observable influence. Drawing 1 depicts the Site with associated well locations. Details of Mobile DPE event activities and results are provided below.

3.1 Mobile DPE Equipment and Procedures

A trailer-mounted DPE unit with liquid-ring blower rated to approximately 250 standard cubic feet per minute (scfm) was mobilized to the Site to conduct the Mobile DPE event. The Mobile DPE unit was used to simultaneously extract ground water and soil vapor from a single, targeted well using a “stinger” pipe placed down the center of the well. The stinger end was placed below the static groundwater surface table to draw down a cone of depression to the inlet of the stinger, at which point, both soil vapor and ground water were extracted/drawn into the system. The combined process stream was then directed into a water knockout system which separated the liquid and air streams. The process air was then driven through the liquid-ring blower and a thermal oxidizer which destroyed hydrocarbon vapors before they were discharged to the atmosphere. Extracted water was accumulated on-site until receipt of laboratory analytical results allowed for offsite transportation and treatment.

Prior to initiating each mobile DPE episode, background depth-to-water level measurements were recorded for the applicable wells, and the initial hour-meter reading on the mobile DPE equipment was recorded. Field personnel then recorded on an hourly basis during each mobile DPE episode the hour meter reading, applied vacuum in inches of mercury (“ Hg) using magnehelic gauges, air flow (scfm), liquid flow totalizer reading (gallons), and photo-ionization detector (PID) reading of recovered vapors. Copies of recorded field data sheets are provided in Appendix C.

During the testing periods, air and water was extracted from each extraction well with the stinger set between approximately 19-30 feet below the top of the screen interval (ranging from approximately 30-40 feet below ground surface – bgs). Extracted air and water samples were collected after the first hour and at two- to three-hour intervals. Not all collected samples were submitted for analysis. Representative samples collected at one hour, the approximate mid-point, and the approximate end-point of each individual well extraction were submitted for certified laboratory analyses. The duration of each well extraction episode lasted approximately 11-12 hours.

Stratus’ staff observed and recorded data hourly during each mobile DPE event. Recorded field observations for the extraction wells are provided in Table 5 with observation well data provided in Table 6. Appendix C contains copies of field notes.

3.2 Discussion of the Mobile DPE Event

The mobile DPE event began at 7:00 am on 26 November 2007. Each well extraction event continued for approximately 11 to 12 hours. The mobile DPE event ran for a combined total of 34 hours. The test was terminated at approximately 6:00 pm on 28 November 2007.

With the stingers set at approximately 0.5 to 1.5 feet above the bottom of each well (30-40 feet bgs), the extraction rate during each DPE averaged approximately 48.27 scfm with an average observed vacuum of 25.0” Hg. The induced vacuum remained consistent throughout each extraction event in the individual wells.

Influent air and liquid samples were collected during testing activities to monitor mass removal. Collected samples were delivered to Test America Analytical Testing Corporation (Morgan Hill, California). Samples were analyzed for gasoline range organics (GRO), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) using EPA Method 8260B for liquids and EPA Method 8015B/8021B for air. Liquid samples were also analyzed for tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), and tertiary amyl methyl ether (TAME) using EPA Method 8260B. Analytical results are provided in Table 7 for vapor samples and

Table 8 for water samples. Estimated mass removal from ground-water extraction is provided in Table 9. Water generated during mobile DPE activities was transported by Belshire Environmental Services (Lake Forest, California) for treatment at Seaport Environmental (Redwood City, California). Laboratory analytical reports with chain-of-custody documentation are provided in Appendix C.

4.0 DPE EVENT OBSERVATIONS AND RESULTS

4.1 Mobile DPE Event Observations

Observations recorded during each well's mobile DPE event are described below including: date and duration of extraction; approximate stinger depth; soil vapor and ground water recovery; and observed extraction influences. Field data recorded for the extraction and observation wells is provided in Tables 5 and 6. Laboratory analytical results of collected samples are provided in Tables 7 and 8.

4.1.1 MW-1 Extraction Event

The MW-1 extraction event was conducted on 26 November 2007 for approximately 12 hours with the bottom of the stinger set at approximately 40 feet bgs. The initial depth-to-water measurement prior to commencement of extraction was 21.43 feet bgs. Wells MW-2, MW-3, MW-4, MW-7 through MW-10, and RW-1 were used as observation wells during this event. Results of the MW-1 mobile DPE event are summarized below:

- The average influent soil vapor flow rate was approximately 46.27 scfm at an average applied vacuum of 25.0" Hg.
- Approximately 860 gallons of water were extracted from MW-1 during the mobile DPE event at an average flow rate of 1.10 gpm.
- Induced vacuums were measured at observation wells MW-4, MW-9, and MW-10. Vacuum measurements were not obtained during MW-1 extraction from observation wells MW-2, MW-3, and RW-1 reportedly because the wellheads could not be modified to provide an adequate seal for measuring induced vacuum. The highest vacuum recorded was 3.50 inches of water (" WC) in well MW-4, located approximately 90 feet from MW-1. No induced vacuum was observed in the remaining observation wells.
- Decreases in ground-water elevations (ranging from 0.78 to 1.91 feet) were observed in most of the observation wells, with the highest decrease in ground-water elevation observed at well RW-1, located approximately 59 feet from test well MW-1. Decreases in ground-water elevations were not observed in MW-7.
- PID readings in the influent vapor stream ranged from 150 to 917 parts per million volume (ppmv).
- Maximum concentrations from laboratory analysis of influent vapor-stream samples collected during this event were 1,000 ppmv GRO, 2.4 ppmv benzene, and 1.2 ppmv MTBE (Table 7).
- Maximum concentrations from laboratory analysis of influent water samples collected during this event were 2,600 micrograms per liter ($\mu\text{g}/\text{l}$) GRO, 110 $\mu\text{g}/\text{l}$ benzene, and 6.4 $\mu\text{g}/\text{l}$ MTBE (Table 8).

- Based on influent concentrations in the vapor stream and average flow rates, approximately 2.94 pounds (lbs) of GRO and 0.0085 lbs of benzene were extracted in soil vapor (Table 7). Based on the volume of ground water extracted during this event and petroleum hydrocarbon concentrations in the influent water samples, approximately 0.0042 lbs of GRO and 0.00014 lbs of benzene were extracted from the ground water (Table 9).

4.1.2 RW-1 Extraction Event

The RW-1 extraction was conducted on 27 November 2007 for approximately 11 hours with the bottom of the stinger set at approximately 39 feet bgs. The initial depth-to-water measurement prior to commencement of the event was 20.59 feet bgs. Wells MW-1 through MW-4 and MW-7 through MW-10 were used as observation wells during this event. Results of the RW-1 mobile DPE event are summarized below:

- The average influent soil vapor flow rate was approximately 50.39 scfm at an average applied vacuum of 25.0" Hg.
- Approximately 530 gallons of water were extracted from RW-1 during the mobile DPE event at an average flow rate of 0.74 gpm.
- Induced vacuums were measured at each of the observation wells, with the exception of MW-3 which was not monitored for induced vacuum during the event. The highest vacuum recorded was 0.60" WC in MW-10, located approximately 81 feet from well RW-1.
- Decreases in ground-water elevations (ranging from 0.14 to 1.15 feet) were observed in each of the observation wells with the highest decrease observed at well MW-2, located approximately 25 feet from well RW-1. Final drawdown could not be recorded in observation wells MW-8 and MW-10 due to traffic concerns. However, a decrease in ground-water elevation was observed in wells MW-8 and MW-10 through the eighth hour of the mobile DPE event.
- PID readings in the influent vapor stream ranged from 60 to 225 ppmv.
- Maximum concentrations from laboratory analysis of influent vapor-stream samples collected during this event were 200 ppmv GRO, 0.36 ppmv benzene, and 0.58 ppmv MTBE (Table 7).
- Maximum concentrations from laboratory analysis of influent water samples collected during this event were 3,000 µg/l GRO, 15 µg/l benzene, and 100 µg/l MTBE (Table 8).
- Based on influent concentrations in the vapor stream and average flow rates, approximately 1.10 lbs of GRO and 0.0019 lbs of benzene were extracted in soil vapor (Table 7). Based on the volume of ground water extracted during this event and petroleum hydrocarbon concentrations in the influent water samples, approximately 0.002 lbs of GRO and 0.00002 lbs of benzene were extracted from the ground water (Table 9).

4.1.3 MW-2 Extraction Event

The MW-2 extraction event was conducted on 28 November 2007 for approximately 11 hours with the bottom of the stinger set at approximately 30 feet bgs. The initial depth-to-water measurement

made prior to commencement of extraction was 20.61 feet bgs. Wells MW-1, MW-3, MW-7 through MW-10 and RW-1 were used as observation wells during this event. Results of the MW-2 mobile DPE event are summarized below:

- The average influent soil vapor flow rate was approximately 48.3 scfm at an average applied vacuum of 25.0" Hg.
- Approximately 700 gallons of water were extracted from MW-2 during the mobile DPE event at a flow rate of 0.97 gpm.
- Induced vacuums were measured at observation wells MW-4 and MW-7 through MW-10. Induced vacuum was not measured in wells MW-1, MW-3 and RW-1 during the extraction event. The highest vacuum recorded was 2.30" WC in MW-8, located approximately 103 feet from the test well MW-2.
- Decreases in ground-water elevations (ranging from 0.19 to 1.22 feet) were observed in each of the observation wells, with the largest decrease observed at well MW-10, located approximately 59 feet from test well MW-2. Final drawdown could not be recorded in observation well MW-8 due to traffic concerns. However, a decrease in ground-water elevation was observed in well MW-8 through the sixth hour of the extraction event.
- PID readings in the influent vapor stream ranged from 150 to 398 ppmv.
- Maximum concentrations from laboratory analysis of influent vapor-stream samples collected during this event were 1,500 ppmv GRO, 3.9 ppmv benzene, and 1.2 ppmv MTBE (Table 7).
- Maximum concentrations from laboratory analysis of influent water samples collected during this event were 520 µg/l GRO, 84 µg/l benzene, and 110 µg/l MTBE (Table 4).
- Based on influent concentrations in the vapor stream and average flow rates, approximately 9.95 lbs of GRO and 0.019 lbs of benzene were extracted in soil vapor (Table 7). Based on the volume of ground water extracted during this event and petroleum hydrocarbon concentrations in the influent water samples, approximately 0.0029 lbs of GRO and 0.00009 lbs of benzene were extracted from the ground water (Table 9).

4.2 Mobile DPE Event Results

Stratus conducted three individual mobile DPE events utilizing wells MW-1, RW-1, and MW-2 to reduce the concentration of hydrocarbons at the Site. The extraction events on each well varied from approximately 11 to 12 hours. During the mobile DPE events, the average soil vapor extraction rate was approximately 48.3 scfm and the average applied system vacuum was approximately 25.0" Hg. Laboratory analytical results reported relatively high GRO concentrations in soil vapor extracted from well MW-2 (maximum of 1,500 ppmv GRO). Initial concentrations of hydrocarbons in the extracted ground water during the event were relatively high for samples collected from wells MW-1 and RW-1 (maximum of 3,000 µg/l GRO). The concentration of hydrocarbons in soil vapor decreased over time during extraction from wells MW-1 and RW-1, while concentrations increased over time during extraction from well MW-2. The concentration of hydrocarbons in ground water decreased over time during extraction from wells MW-1 and RW-1, while concentrations of GRO and MTBE increased over time during extraction from well MW-2.

Approximately 2,090 gallons of ground water was extracted as a result of this mobile DPE event. Approximately 0.0091 lbs of GRO and 0.0003 lbs of benzene in ground water and 14.0 lbs of GRO and 0.029 lbs of benzene in soil vapor were removed from the subsurface during extraction activities.

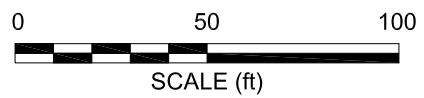
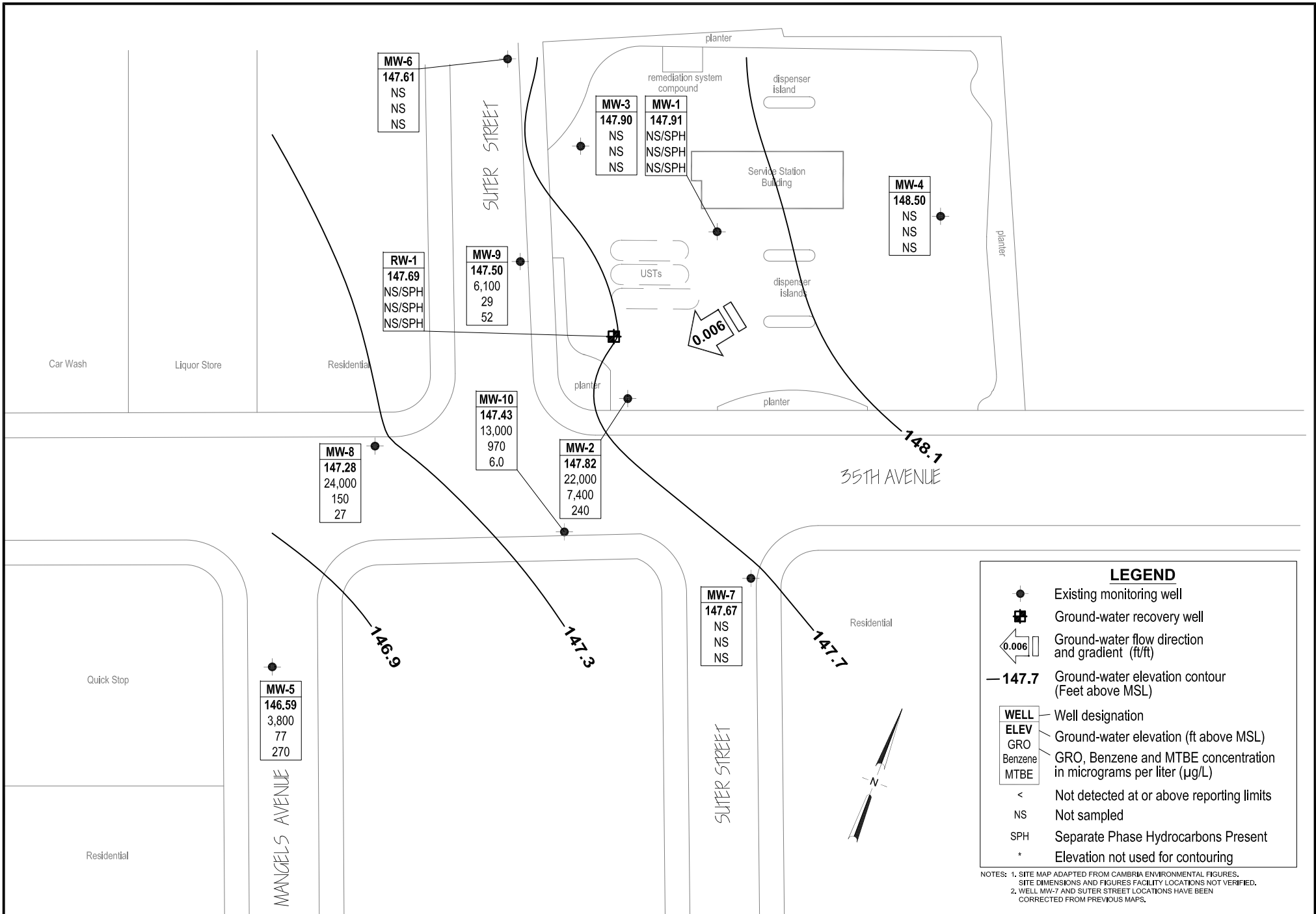
5.0 CONCLUSIONS AND RECOMMENDATIONS

Review of available data indicates that hydrocarbons were removed during this mobile DPE event. However, based on the low contaminant mass recovery, the feasibility of continued DPE requires additional evaluation of its effectiveness. Accordingly, BAI recommends evaluating the remedial effectiveness of this recent mobile DPE event through review of quarterly ground-water sampling results. Review of quarterly ground-water sampling data will provide information which will indicate if the overall mass of contaminants remaining on the Site was reduced as a direct result of this extraction event.

It is proposed to evaluate groundwater concentrations on a quarterly basis through First Quarter 2008. After receipt of First Quarter 2008 ground-water sampling results, the benefit of proceeding with another Mobile DPE event will be evaluated.

6.0 CLOSURE

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



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No.: 06-08-655 Date: 1/9/08

Former BP Service Station #11132
3201 35th Avenue
Oakland, California

Ground-Water Elevation Contours
and Analytical Summary Map
8 November 2007

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-1															
7/9/1990	--	169.75	--	0.22	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	169.75	--	0.58	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--	169.75	20.59	0	149.16	--	--	--	--	--	--	--	--	--	
4/1/1991	--	169.75	16.51	0.15	153.09	--	--	--	--	--	--	--	--	--	
6/27/1991	--	169.75	--	0.18	--	--	--	--	--	--	--	--	--	--	
9/27/1991	--	169.75	--	0.27	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--	169.75	--	0.28	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--	169.75	22.30	0.27	147.18	--	--	--	--	--	--	--	--	--	
10/5/1992	--	169.75	23.98	0.24	145.53	--	--	--	--	--	--	--	--	--	
1/13/1993	--	169.75	17.03	0.24	152.48	--	--	--	--	--	--	--	--	--	
4/23/1993	--	169.75	18.10	0.42	151.23	--	--	--	--	--	--	--	--	--	
7/12/1993	--	169.75	22.02	0.49	147.24	--	--	--	--	--	--	--	--	--	
10/21/1993	--	169.75	25.12	1.09	143.54	--	--	--	--	--	--	--	--	--	
1/21/1994	--	169.75	23.02	0.76	145.97	--	--	--	--	--	--	--	--	--	
4/20/1994	--	169.75	24.54	1.8	143.41	--	--	--	--	--	--	--	--	--	
8/1/1994	--	169.75	24.11	0.35	145.29	--	--	--	--	--	--	--	--	--	
12/23/1994	--	169.75	18.19	--	151.56	--	--	--	--	--	--	--	--	--	
1/26/1995	--	169.75	16.25	1.1	152.40	--	--	--	--	--	--	--	--	--	
6/8/1995	--	169.75	22.92	--	146.83	--	--	--	--	--	--	--	--	--	
6/8/95-6/28/95	--	169.75	--	1.25	145.63	--	--	--	--	--	--	--	--	--	
8/22/1995	--	169.75	24.45	0.85	144.45	--	--	--	--	--	--	--	--	--	
10/27/1995	--	169.75	25.41	--	143.65	--	--	--	--	--	--	--	--	--	
10/30/95-12/23/95	--	169.75	--	0.69	--	--	--	--	--	--	--	--	--	--	
1/25/96-2/16/96	--	169.75	--	1.40	150.15	--	--	--	--	--	--	--	--	--	
1/25/1996	--	169.75	18.20	--	151.55	--	--	--	--	--	--	--	--	--	
4/19/1996	--	169.75	19.06	1.22	149.47	--	--	--	--	--	--	--	--	--	
7/23/1996	--	169.75	22.98	0.89	145.88	--	--	--	--	--	--	--	--	--	
11/11/1996	--	169.75	23.99	0.89	144.78	--	--	--	--	--	--	--	--	--	
1/21/1997	--	169.75	16.80	0.9	152.05	--	--	--	--	--	--	--	--	--	
4/29/1997	--	169.75	21.90	0.85	147.00	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-1 Cont.															
4/30/1997	--	169.75	--	--	--	92,000	3,500	8,100	4,400	23,800	6,900	--	--	--	c
4/30/1997	--	169.75	--	--	--	100,000	3,600	8,000	4,000	21,300	7,700	5.2	--	--	
8/21/1997	--	169.75	23.40	--	146.35	140,000	3,000	8,500	3,900	22,100	5,700	5.3	--	--	
8/21/1997	--	169.75	--	--	--	120,000	3,200	8,100	3,800	19,600	5,200	--	--	--	c
11/2/97-12/9/97	--	169.75	--	0.87	--	--	--	--	--	--	--	--	--	--	
11/5/1997	--	169.75	23.70	--	145.51	68,000	6,200	4,400	3,300	14,300	8,000	4.7	--	--	
11/5/1997	--	169.75	--	--	--	88,000	7,300	4,800	3,600	16,900	8,200	--	--	--	c
2/3/1998	--	169.75	13.63	0.32	155.80	--	--	--	--	--	--	--	--	--	
2/4/1998	--	169.75	--	--	--	190,000	2,200	10,000	5,600	32,000	<10000	5.3	--	--	
2/4/1998	--	169.75	--	--	--	160,000	2,300	8,400	5,000	29,400	<10000	--	--	--	c
5/28/1998	--	169.75	18.03	0.17	151.55	87,000	980	3,900	3,600	19,000	2,900	3.8	--	--	
12/30/1998	--	169.75	19.50	0.08	150.17	70,000	530	3,200	2,900	16,000	3,600	--	--	--	
2/2/1999	--	169.75	18.93	0.03	150.79	79,000	480	3,100	3,500	21,000	3,500	--	--	--	
5/10/1999	--	169.75	18.28	0.03	151.44	110,000	160	1,900	3,700	24,000	3,000	--	--	--	
8/24/1999	--	169.75	20.13	0.06	149.56	110,000	850	1,300	1,900	19,000	<50	--	--	--	
11/3/1999	--	169.75	22.27	0.36	147.12	65,000	6,300	1,100	3,300	9,500	8,900	--	--	--	
3/1/2000	--	169.75	14.79	0.23	154.73	--	--	--	--	--	--	--	--	--	h
4/21/2000	--	169.75	18.10	0.33	151.32	61,000	330	780	2,700	17,000	1,300	--	--	--	
7/31/2000	--	169.75	21.60	0.53	147.62	1,500,000	340	2,100	24,000	120,000	2,700	--	--	--	
11/20/2000	--	169.75	21.69	0.37	147.69	1,700,000	1,800	2,300	19,000	93,000	3,900	--	--	--	
2/18/2001	--	169.75	16.70	0.13	152.92	--	--	--	--	--	--	--	--	--	
2/26/2001	--	169.75	14.38	0.15	155.22	100,000	658	466	4,210	15,000	1,890	--	--	--	
6/7/2001	--	169.75	20.78	0	148.97	70,000	705	440	3,870	12,200	2,720	--	--	--	
9/5/2001	--	169.75	23.36	0.35	146.04	--	--	--	--	--	--	--	--	--	j
11/30/2001	--	169.75	20.85	0.41	148.49	--	--	--	--	--	--	--	--	--	k
12/6/2001	--	169.75	18.72	0.27	150.76	39,000	3,500	237	2,150	4,500	5,400	--	--	--	
2/20/2002	--	169.75	17.43	0.15	152.17	52,000	465	271	1,600	11,400	106	--	--	--	
6/20/2002	--	169.75	21.18	0.34	148.23	--	--	--	--	--	--	--	--	--	j
9/11/2002	--	169.75	22.86	0.4	146.49	--	--	--	--	--	--	--	--	--	j
11/12/2002	--	169.75	22.65	0.37	146.73	--	--	--	--	--	--	--	--	--	j

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-1 Cont.															
1/29/2003	--	169.75	18.15	0.3	151.30	--	--	--	--	--	--	--	--	--	j,n
5/22/2003	--	169.75	18.49	0.2	151.06	--	--	--	--	--	--	--	--	--	j
6/24/2003	--	169.75	21.44	0.35	147.96	--	--	--	--	--	--	--	--	--	o
7/28/2003	--	169.75	22.72	0.35	146.68	--	--	--	--	--	--	--	--	--	j
8/12/2003	--	169.75	22.64	0.23	146.88	--	--	--	--	--	--	--	--	--	o
9/12/2003	--	169.75	20.70	0.24	148.81	--	--	--	--	--	--	--	--	--	o
10/3/2003	--	169.75	--	0.23	--	--	--	--	--	--	--	--	--	--	
11/18/2003	NP	169.75	21.70	0.25	148.25	--	--	--	--	--	--	--	--	--	
12/31/2003	--	169.75	--	0.15	--	--	--	--	--	--	--	--	--	--	
2/2/2004	--	169.75	--	0.15	--	--	--	--	--	--	--	--	--	--	
02/23/2004	NP	169.75	16.34	0.09	153.48	--	--	--	--	--	--	--	--	--	
3/18/2004	--	169.75	--	0.09	--	--	--	--	--	--	--	--	--	--	
4/13/2004	--	169.75	--	0.24	--	--	--	--	--	--	--	--	--	--	
05/04/2004	NP	169.75	21.28	0.16	148.60	--	--	--	--	--	--	--	--	--	
6/2/2004	--	169.75	--	0.08	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	169.75	--	0.28	--	--	--	--	--	--	--	--	--	--	
08/04/2004	--	169.75	22.54	0.10	147.29	--	--	--	--	--	--	--	--	--	
09/22/2004	NP	169.75	22.76	0.20	147.15	--	--	--	--	--	--	--	--	--	
10/26/2004	--	169.75	--	0.12	--	--	--	--	--	--	--	--	--	--	
11/10/2004	--	169.75	20.19	0.14	149.67	--	--	--	--	--	--	--	--	--	
12/27/2004	--	169.75	--	0.08	--	--	--	--	--	--	--	--	--	--	
01/13/2005	--	169.75	14.58	0.03	155.19	--	--	--	--	--	--	--	--	--	
02/15/2005	--	169.75	16.13	0.04	153.65	--	--	--	--	--	--	--	--	--	
03/07/2005	--	169.75	13.31	0.01	156.45	--	--	--	--	--	--	--	--	--	
4/29/2005	--	169.75	--	0.01	--	--	--	--	--	--	--	--	--	--	
05/16/2005	--	169.75	15.74	0.02	154.03	--	--	--	--	--	--	--	--	--	j
6/21/2005	--	169.75	--	0.01	--	--	--	--	--	--	--	--	--	--	
7/7/2005	--	169.75	--	0.18	--	--	--	--	--	--	--	--	--	--	
08/17/2005	--	169.75	21.15	0.08	148.66	--	--	--	--	--	--	--	--	--	j
9/6/2005	--	169.75	--	0.02	--	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-1 Cont.															
10/4/2005	--	169.75	--	0.12	--	--	--	--	--	--	--	--	--	--	
11/18/2005	--	169.75	20.15	--	149.60	--	--	--	--	--	--	--	--	--	j
12/30/2005	--	169.75	--	0.03	--	--	--	--	--	--	--	--	--	--	
1/24/2006	--	169.75	--	0.00	--	--	--	--	--	--	--	--	--	--	
02/07/2006	--	169.75	15.19	0.01	154.57	--	--	--	--	--	--	--	--	--	j
3/30/2006	--	169.75	--	0.00	--	--	--	--	--	--	--	--	--	--	
5/19/2006	P	169.75	17.42	--	152.33	44,000	73	510	3,300	5,300	86	--	SEQM	6.9	u, t
8/23/2006	--	169.75	22.01	0.14	147.74	--	--	--	--	--	--	--	--	--	b, j
11/15/2006	--	169.75	21.98	0.18	147.91	--	--	--	--	--	--	--	--	--	b, j
2/14/2007	--	169.75	17.12	0.17	152.76	--	--	--	--	--	--	--	--	--	b, j
5/22/2007	--	169.75	19.49	0.01	150.26	--	--	--	--	--	--	--	--	--	b, j
8/15/2007	--	169.75	22.24	0.01	147.52	--	--	--	--	--	--	--	--	--	b, j
11/8/2007	--	169.75	21.84	0.01	147.92	--	--	--	--	--	--	--	--	--	b, j
MW-2															
7/9/1990	--	168.14	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	168.14	--	--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--	168.14	19.18	--	148.96	--	--	--	--	--	--	--	--	--	
4/1/1991	--	168.14	15.21	--	152.93	--	--	--	--	--	--	--	--	--	
6/27/1991	--	168.14	--	--	--	--	--	--	--	--	--	--	--	--	
9/27/1991	--	168.14	--	--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--	168.14	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--	168.14	20.93	--	147.21	--	--	--	--	--	--	--	--	--	
10/5/1992	--	168.14	22.74	--	145.40	--	--	--	--	--	--	--	--	--	
1/13/1993	--	168.14	15.55	--	152.59	--	--	--	--	--	--	--	--	--	
4/23/1993	--	168.14	16.54	--	151.60	--	--	--	--	--	--	--	--	--	
7/12/1993	--	168.14	20.46	--	147.68	--	--	--	--	--	--	--	--	--	
10/21/1993	--	168.14	24.91	--	143.23	--	--	--	--	--	--	--	--	--	
1/21/1994	--	168.14	21.20	--	146.94	--	--	--	--	--	--	--	--	--	
4/20/1994	--	168.14	22.44	--	145.70	1,800	140	370	54	290	24	1.7	--	--	i
8/1/1994	--	168.14	22.24	--	145.90	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-2 Cont.															
12/23/1994	--	168.14	16.25	--	151.89	--	--	--	--	--	--	--	--	--	
1/26/1995	--	168.14	14.55	--	153.59	--	--	--	--	--	--	--	--	--	
6/8/1995	--	168.14	21.18	--	146.96	--	--	--	--	--	--	--	--	--	
8/22/1995	--	168.14	22.76	--	145.38	--	--	--	--	--	--	--	--	--	
10/27/1995	--	168.14	23.61	--	144.53	--	--	--	--	--	--	--	--	--	
1/25/1996	--	168.14	15.95	--	152.19	--	--	--	--	--	--	--	--	--	
4/19/1996	--	168.14	17.33	--	150.81	--	--	--	--	--	--	--	--	--	
7/23/1996	--	168.14	21.25	--	146.89	--	--	--	--	--	--	--	--	--	
11/11/1996	--	168.14	22.27	--	145.87	--	--	--	--	--	--	--	--	--	
1/21/1997	--	168.14	15.19	--	152.95	--	--	--	--	--	--	--	--	--	
4/29/1997	--	168.14	20.22	--	147.92	--	--	--	--	--	--	--	--	--	
4/30/1997	--	168.14	--	--	--	130,000	4,600	15,000	6,000	37,000	<5000	5	--	--	
8/21/1997	--	168.14	21.74	--	146.40	110,000	6,000	16,000	4,700	28,000	<500	4.6	--	--	
11/5/1997	--	168.14	21.61	--	146.53	120,000	7,800	18,000	4,900	28,100	<2500	4.6	--	--	
2/3/1998	--	168.14	11.51	--	156.63	75,000	590	1,500	1,800	12,800	<2500	4.5	--	--	
5/28/1998	--	168.14	16.51	--	151.63	79,000	3,900	3,100	3,100	18,000	900	4.3	--	--	
12/30/1998	--	168.14	17.70	--	150.44	95,000	4,700	3,500	3,700	21,000	<250	--	--	--	
2/2/1999	--	168.14	15.46	--	152.68	170,000	3,500	1,500	5,200	34,000	<500	--	--	--	
5/10/1999	--	168.14	16.52	--	151.62	84,000	3,200	3,200	3,700	20,000	75	--	--	--	
8/24/1999	--	168.14	20.73	--	147.41	130,000	9,100	9,200	4,700	27,000	<250	--	--	--	
11/3/1999	--	168.14	20.93	--	147.21	120,000	10,000	21,000	4,700	30,200	2,200	--	--	--	
3/1/2000	--	168.14	13.37	--	154.77	39,000	1,400	1,500	1,700	8,100	44	--	--	--	
4/21/2000	--	168.14	16.59	--	151.55	68,000	3,300	2,500	3,100	20,000	260	--	--	--	
7/31/2000	--	168.14	16.37	--	151.77	99,000	5,600	1,400	4,300	22,000	490	--	--	--	
11/20/2000	--	168.14	19.71	--	148.43	37,000	5,100	1,500	1,300	4,800	2,800	--	--	--	
2/18/2001	--	168.14	15.29	--	152.85	54,000	5,020	3,880	2,850	15,400	1,010	--	--	--	
6/7/2001	--	168.14	19.43	--	148.71	110,000	7,240	4,380	4,160	22,100	567	--	--	--	
9/5/2001	--	168.14	22.44	--	145.70	69,000	5,750	5,790	2,770	14,200	1,510	--	--	--	
11/30/2001	--	168.14	19.58	--	148.56	120,000	7,270	6,540	4,590	23,000	794	--	--	--	
2/20/2002	--	168.14	16.39	--	151.75	56,000	2,410	2,270	2,910	14,300	160	--	--	--	

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

Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-2 Cont.															
6/20/2002	--	168.14	19.77	--	148.37	86,000	7,310	6,490	3,080	14,600	659	--	--	--	
9/11/2002	--	168.14	21.60	--	146.54	130,000	7,600	13,000	5,400	30,000	<5000	--	--	--	
11/12/2002	--	168.14	21.34	--	146.80	46,000	4,100	4,300	1,900	10,000	1,900	--	--	--	t
1/29/2003	--	168.14	16.80	--	151.34	77,000	4,700	2,600	2,800	13,000	820	--	--	--	n,t
5/22/2003	--	168.14	17.15	--	150.99	52,000	6,400	2,600	1,800	7,400	1,000	--	--	--	t
7/28/2003	--	168.14	21.47	--	146.67	31,000	6,900	5,500	2,200	12,000	1,700	--	--	--	p
11/18/2003	P	168.14	20.50	--	147.64	23,000	3,300	800	500	2,000	500	--	SEQM	6.6	
02/23/2004	P	168.14	14.77	--	153.37	84,000	14,000	6,200	3,100	14,000	790	--	SEQM	6.6	t
05/04/2004	P	168.14	20.09	--	148.05	120,000	15,000	17,000	4,900	24,000	780	--	SEQM	6.6	t
08/04/2004	P	168.14	21.39	--	146.75	38,000	9,100	3,300	1,900	5,800	430	--	SEQM	6.69	t
11/10/2004	P	168.14	18.98	--	149.16	22,000	4,400	2,000	940	3,600	310	--	SEQM	7.5	
02/15/2005	P	168.14	15.62	--	152.52	67,000	11,000	4,200	3,000	11,000	690	--	SEQM	7.1	t
05/16/2005	P	168.14	14.71	--	153.43	94,000	11,000	7,600	4,100	17,000	560	--	SEQM	6.5	
08/17/2005	P	168.14	20.00	--	148.14	110,000	13,000	8,000	4,300	18,000	480	--	SEQM	6.6	
11/18/2005	P	168.14	20.89	--	147.25	37,000	11,000	2,400	1,500	4,600	340	--	SEQM	6.6	
02/07/2006	P	168.14	13.31	--	154.83	74,000	8,900	5,800	3,600	14,000	440	--	SEQM	6.7	
5/19/2006	P	168.14	16.30	--	151.84	78,000	11,000	3,700	4,500	14,000	430	--	SEQM	6.6	t
8/23/2006	P	168.14	20.83	--	147.31	100,000	12,000	9,100	5,800	25,000	480	--	TAMC	6.6	
11/15/2006	--	168.14	20.80	--	147.34	46,000	8,800	3,600	2,300	8,500	400	0.70	TAMC	6.73	
2/14/2007	P	168.14	15.96	SHEEN	152.18	100,000	13,000	3,600	6,200	26,000	810	1.43	TAMC	6.97	t
5/22/2007	P	168.14	18.20	--	149.94	91,000	15,000	8,700	4,700	20,000	1,000	0.08	TAMC	6.90	
8/15/2007	P	168.14	21.23	SHEEN	146.91	14,000	7,300	130	280	600	260	4.24	TAMC	6.78	
11/8/2007	P	168.14	20.32	--	147.82	22,000	7,400	420	640	1,700	240	1.21	TAMC	7.03	
MW-3															
7/9/1990	--	167.17	--	--	--	140	5.3	4.6	2	3.8	--	--	--	--	
12/21/1990	--	167.17	--	--	--	0.19	100	6	0.9	27	--	--	--	--	
3/7/1991	--	167.17	17.40	--	149.77	0.4	69	22	6.1	57	--	--	--	--	
4/1/1991	--	167.17	13.69	--	153.48	--	--	--	--	--	--	--	--	--	
6/27/1991	--	167.17	--	--	--	380	28	26	13	46	--	--	--	--	
9/27/1991	--	167.17	--	--	--	0.07	7.9	--	0.4	1.1	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-3 Cont.															
12/18/1991	--	167.17	--	--	--	0.26	34	24	0.8	28	--	--	--	--	
7/3/1992	--	167.17	19.59	--	147.58	71	9.4	0.9	5	13	--	--	--	--	
10/5/1992	--	167.17	--	--	--	<50	2.2	<0.5	1.5	2.8	--	--	--	--	c
10/5/1992	--	167.17	21.22	--	145.95	67	5.1	1.1	6.1	8.1	--	--	--	--	
1/13/1993	--	167.17	13.63	--	153.54	830	50	34	42	89	--	--	--	--	i
4/23/1993	--	167.17	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	c,i
4/23/1993	--	167.17	15.02	--	152.15	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
7/12/1993	--	167.17	19.16	--	148.01	250	12	4.2	12	16	<5.0	--	--	--	i
10/21/1993	--	167.17	21.81	--	145.36	52	4.4	1.4	4.7	3.3	<5.0	--	--	--	i
10/21/1993	--	167.17	--	--	--	65	7.4	1	6.9	4.2	--	--	--	--	c
1/21/1994	--	167.17	19.94	--	147.23	57	3	3.4	3.6	9	<5.0	--	--	--	i
4/20/1994	--	167.17	20.24	--	146.93	600	26	23	33	88	28.7	1.8	--	--	i
8/1/1994	--	167.17	20.74	--	146.43	99	6.2	1.1	4.5	5.2	<5.0	1.4	--	--	i
8/1/1994	--	167.17	--	--	--	120	7.7	1.6	5.9	6.7	5.43	--	--	--	c,i
12/23/1994	--	167.17	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	c
12/23/1994	--	167.17	14.70	--	152.47	<50	<0.5	0.78	<0.5	<0.5	9.8	1.7	--	--	i
1/26/1995	--	167.17	12.89	--	154.28	190	16	0.5	35	24	--	6.6	--	--	d
6/8/1995	--	167.17	19.95	--	147.22	330	21	4	34	32	--	7	--	--	
8/22/1995	--	167.17	21.41	--	145.76	150	14	<0.50	<0.50	1.6	<5.0	6.6	--	--	d
10/27/1995	--	167.17	22.43	--	144.74	--	--	--	--	--	--	--	--	--	
10/30/1995	--	167.17	--	--	--	51	2.4	<0.50	<0.50	<1.0	<5.0	6.9	--	--	
1/25/1996	--	167.17	14.03	--	153.14	<50	<0.50	<0.50	<0.50	<1.0	5.1	--	--	--	
4/19/1996	--	167.17	15.26	--	151.91	460	55	4	33	63	<10	9.4	--	--	
7/23/1996	--	167.17	19.19	--	147.98	<50	<0.5	<0.5	<0.5	<0.5	<10	9.2	--	--	
11/11/1996	--	167.17	20.24	--	146.93	<250	<2.5	<5.0	<5.0	<5.0	<50	8.4	--	--	
1/21/1997	--	167.17	13.09	--	154.08	<50	<0.5	<1.0	<1.0	<1.0	<10	5.4	--	--	
4/29/1997	--	167.17	18.14	--	149.03	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	--	--	
8/21/1997	--	167.17	19.64	--	147.53	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	--	--	
11/5/1997	--	167.17	19.95	--	147.22	<250	<2.5	<5.0	<5.0	<5.0	<50	4.5	--	--	
2/3/1998	--	167.17	10.57	--	156.60	<50	<0.50	<1.0	<1.0	<1.0	<10	4.7	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-3 Cont.															
5/28/1998	--	167.17	14.65	--	152.52	330	<2.5	<5.0	<5.0	<5.0	<50	4.2	--	--	
12/30/1998	--	167.17	16.63	--	150.54	--	--	--	--	--	--	--	--	--	
2/2/1999	--	167.17	13.12	--	154.05	<250	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	
5/10/1999	--	167.17	14.21	--	152.96	--	--	--	--	--	--	--	--	--	
8/24/1999	--	167.17	14.36	--	152.81	--	--	--	--	--	--	--	--	--	
11/3/1999	--	167.17	19.21	--	147.96	--	--	--	--	--	--	--	--	--	
3/1/2000	--	167.17	15.17	--	152.00	<50	<0.5	0.57	<0.5	0.62	<0.5	--	--	--	
4/21/2000	--	167.17	14.88	--	152.29	--	--	--	--	--	--	--	--	--	
7/31/2000	--	167.17	15.29	--	151.88	--	--	--	--	--	--	--	--	--	
11/20/2000	--	167.17	17.31	--	149.86	--	--	--	--	--	--	--	--	--	
2/18/2001	--	167.17	12.85	--	154.32	160	1.95	1.31	10.2	9.09	1	--	--	--	
6/7/2001	--	167.17	18.00	--	149.17	--	--	--	--	--	--	--	--	--	
9/5/2001	--	167.17	20.32	--	146.85	--	--	--	--	--	--	--	--	--	
11/30/2001	--	167.17	16.94	--	150.23	--	--	--	--	--	--	--	--	--	
2/20/2002	--	167.17	14.84	--	152.33	86	<0.5	0.845	6.58	5.75	<0.5	--	--	--	
6/20/2002	--	167.17	18.40	--	148.77	--	--	--	--	--	--	--	--	--	
9/11/2002	--	167.17	20.06	--	147.11	--	--	--	--	--	--	--	--	--	
11/12/2002	--	167.17	19.84	--	147.33	--	--	--	--	--	--	--	--	--	
1/27/2003	--	167.17	14.83	--	152.34	850	20	9.7	24	45	0.76	--	--	--	n
5/22/2003	--	167.17	15.60	--	151.57	--	--	--	--	--	--	--	--	--	
7/28/2003	--	167.17	20.12	--	147.05	--	--	--	--	--	--	--	--	--	p
11/18/2003	--	167.17	19.15	--	148.02	--	--	--	--	--	--	--	--	--	
02/23/2004	--	167.17	13.53	--	153.64	160	<0.50	1.1	9.6	12	<0.50	--	SEQM	6.7	
05/04/2004	--	167.17	18.61	--	148.56	--	--	--	--	--	--	--	--	--	
08/04/2004	--	167.17	19.21	--	147.96	--	--	--	--	--	--	--	--	--	
11/10/2004	--	167.17	17.48	--	149.69	--	--	--	--	--	--	--	--	--	
02/15/2005	P	167.17	14.31	--	152.86	500	7.8	1.8	9.2	9.6	1.7	--	SEQM	7.5	
05/16/2005	--	167.17	13.11	--	154.06	--	--	--	--	--	--	--	--	--	
08/17/2005	--	167.17	18.53	--	148.64	--	--	--	--	--	--	--	--	--	
11/18/2005	--	167.17	19.34	--	147.83	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-3 Cont.															
02/07/2006	P	167.17	11.64	--	155.53	65	<0.50	<0.50	1.4	2.3	<0.50	--	SEQM	7.1	
5/19/2006	--	167.17	14.88	--	152.29	--	--	--	--	--	--	--	--	--	
8/23/2006	--	167.17	19.43	--	147.74	--	--	--	--	--	--	--	--	--	
11/15/2006	--	167.17	19.22	--	147.95	--	--	--	--	--	--	--	--	--	
2/14/2007	P	167.17	13.80	--	153.37	200	1.1	<0.50	5.9	3.2	3.8	0.68	TAMC	7.52	
5/22/2007	--	167.17	16.80	--	150.37	--	--	--	--	--	--	--	--	--	
8/15/2007	--	167.17	19.87	--	147.30	--	--	--	--	--	--	--	--	--	
11/8/2007	--	167.17	19.27	--	147.90	--	--	--	--	--	--	--	--	--	
MW-4															
7/9/1990	--	170.36	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	170.36	--	--	--	--	--	--	--	0.8	--	--	--	--	
3/7/1991	--	170.36	20.72	--	149.64	--	2.2	3.8	1.5	2.8	--	--	--	--	
4/1/1991	--	170.36	17.49	--	152.87	--	--	--	--	--	--	--	--	--	
6/27/1991	--	170.36	--	--	--	--	6.3	1.8	0.4	1	--	--	--	--	
9/27/1991	--	170.36	--	--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--	170.36	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--	170.36	22.16	--	148.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
10/5/1992	--	170.36	23.38	--	146.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
1/13/1993	--	170.36	17.58	--	152.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
4/23/1993	--	170.36	15.72	--	154.64	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
7/12/1993	--	170.36	21.74	--	148.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	i
10/21/1993	--	170.36	23.84	--	146.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	i
1/21/1994	--	170.36	22.42	--	147.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	i
4/20/1994	--	170.36	22.66	--	147.70	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.2	--	--	i
8/1/1994	--	170.36	23.01	--	147.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.9	--	--	i
12/23/1994	--	170.36	17.03	--	153.33	--	--	--	--	--	--	--	--	--	
1/26/1995	--	170.36	17.42	--	152.94	<50	<0.5	<0.5	<0.5	<1	--	7.5	--	--	
6/8/1995	--	170.36	21.55	--	148.81	--	--	--	--	--	--	--	--	--	
8/22/1995	--	170.36	23.47	--	146.89	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.4	--	--	d
10/27/1995	--	170.36	24.50	--	145.86	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-4 Cont.															
1/25/1996	--	170.36	18.74	--	151.62	<50	<0.50	<0.50	<0.50	<1.0	58	--	--	--	
4/19/1996	--	170.36	18.63	--	151.73	--	--	--	--	--	--	--	--	--	
7/23/1996	--	170.36	22.56	--	147.80	--	--	--	--	--	--	--	--	--	
11/11/1996	--	170.36	23.63	--	146.73	<50	<1.0	<1.0	<1.0	<1.0	34	8.2	--	--	
1/21/1997	--	170.36	16.59	--	153.77	--	--	--	--	--	--	--	--	--	
4/29/1997	--	170.36	21.43	--	148.93	<50	<0.5	<1.0	<1.0	<1.0	<10	4.7	--	--	
8/21/1997	--	170.36	22.91	--	147.45	--	--	--	--	--	--	--	--	--	
11/5/1997	--	170.36	22.34	--	148.02	60	<0.5	<1.0	<1.0	<1.0	76	4.9	--	--	
2/3/1998	--	170.36	12.26	--	158.10	--	--	--	--	--	--	--	--	--	
5/28/1998	--	170.36	18.50	--	151.86	70	<0.5	<1.0	<1.0	<1.0	160	4.2	--	--	
12/30/1998	--	170.36	19.69	--	150.67	--	--	--	--	--	--	--	--	--	
2/2/1999	--	170.36	18.26	--	152.10	70	<1.0	<1.0	<1.0	<1.0	130	--	--	--	
5/10/1999	--	170.36	17.86	--	152.50	--	--	--	--	--	--	--	--	--	
8/24/1999	--	170.36	17.93	--	152.43	--	--	--	--	--	--	--	--	--	
11/3/1999	--	170.36	22.78	--	147.58	--	--	--	--	--	--	--	--	--	
3/1/2000	--	170.36	18.04	--	152.32	<50	<0.5	0.67	<0.5	0.7	110	--	--	--	
4/21/2000	--	170.36	17.36	--	153.00	--	--	--	--	--	--	--	--	--	
7/31/2000	--	170.36	17.83	--	152.53	--	--	--	--	--	--	--	--	--	
11/20/2000	--	170.36	18.91	--	151.45	--	--	--	--	--	--	--	--	--	
2/18/2001	--	170.36	17.72	--	152.64	88	<0.5	<0.5	<0.5	<0.5	97.3	--	--	--	
6/7/2001	--	170.36	20.23	--	150.13	--	--	--	--	--	--	--	--	--	
9/5/2001	--	170.36	22.76	--	147.60	--	--	--	--	--	--	--	--	--	
11/30/2001	--	170.36	21.30	--	149.06	--	--	--	--	--	--	--	--	--	
2/20/2002	--	170.36	19.32	--	151.04	76	<0.5	<0.5	<0.5	<1.0	81	--	--	--	
6/20/2002	--	170.36	20.71	--	149.65	--	--	--	--	--	--	--	--	--	
9/11/2002	--	170.36	22.22	--	148.14	--	--	--	--	--	--	--	--	--	
11/12/2002	--	170.36	22.22	--	148.14	--	--	--	--	--	--	--	--	--	
1/29/2003	--	170.36	19.80	--	150.56	100	<0.5	<0.5	<0.5	<0.5	66	--	--	--	n
5/22/2003	--	170.36	19.35	--	151.01	--	--	--	--	--	--	--	--	--	
7/28/2003	--	170.36	22.18	--	148.18	--	--	--	--	--	--	--	--	--	p

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Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-4 Cont.															
11/18/2003	--	170.36	21.65	--	148.71	--	--	--	--	--	--	--	--	--	--
02/23/2004	P	170.36	17.53	--	152.83	75	<0.50	<0.50	<0.50	<0.50	65	--	SEQM	6.8	
05/04/2004	--	170.36	20.62	--	149.74	--	--	--	--	--	--	--	--	--	--
08/04/2004	--	170.36	21.30	--	149.06	--	--	--	--	--	--	--	--	--	--
11/10/2004	--	170.36	20.65	--	149.71	--	--	--	--	--	--	--	--	--	--
02/15/2005	P	170.36	18.91	--	151.45	<50	<0.50	<0.50	<0.50	<0.50	62	--	SEQM	7.6	
05/16/2005	--	170.36	17.34	--	153.02	--	--	--	--	--	--	--	--	--	--
08/17/2005	--	170.36	21.31	--	149.05	--	--	--	--	--	--	--	--	--	--
11/18/2005	--	170.36	21.67	--	148.69	--	--	--	--	--	--	--	--	--	--
02/07/2006	P	170.36	16.74	--	153.62	100	<0.50	<0.50	1.0	3.0	29	--	SEQM	6.8	
5/19/2006	--	170.36	18.22	--	152.14	--	--	--	--	--	--	--	--	--	--
8/23/2006	--	170.36	20.95	--	149.41	--	--	--	--	--	--	--	--	--	--
11/15/2006	--	170.36	22.21	--	148.15	--	--	--	--	--	--	--	--	--	--
2/14/2007	P	170.36	18.25	--	152.11	<50	<0.50	<0.50	<0.50	<0.50	61	0.95	TAMC	7.34	
5/22/2007	--	170.36	20.16	--	150.20	--	--	--	--	--	--	--	--	--	--
8/15/2007	--	170.36	22.34	--	148.02	--	--	--	--	--	--	--	--	--	--
11/8/2007	--	170.36	21.86	--	148.50	--	--	--	--	--	--	--	--	--	--
MW-5															
7/9/1990	--	165.14	--	--	--	280	200	210	46	290	--	--	--	--	--
12/21/1990	--	165.14	--	--	--	0.69	300	34	8.4	39	--	--	--	--	--
3/7/1991	--	165.14	16.60	--	148.54	--	17	0.9	0.7	1.6	--	--	--	--	--
4/1/1991	--	165.14	11.99	--	153.15	800	250	54	11	60	--	--	--	--	--
6/27/1991	--	165.14	--	--	--	330	120	10	12	8	--	--	--	--	--
9/27/1991	--	165.14	--	--	--	0.73	230	16	20	22	--	--	--	--	--
12/18/1991	--	165.14	--	--	--	--	--	--	--	--	--	--	--	--	--
7/3/1992	--	165.14	18.65	--	146.49	150	36	<0.5	<0.5	1.1	--	--	--	--	--
10/5/1992	--	165.14	20.32	--	144.82	270	79	4	1.7	2.9	--	--	--	--	--
1/13/1993	--	165.14	13.03	--	152.11	180	59	6	1.8	7.6	--	--	--	--	i
4/23/1993	--	165.14	13.51	--	151.63	8,700	440	96	35	136	--	--	--	--	i
7/12/1993	--	165.14	18.06	--	147.08	250	57	2.9	2.1	6	<5.0	--	--	--	i

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-5 Cont.															
10/21/1993	--	165.14	20.41	--	144.73	210	82	1.5	<0.5	1.4	--	--	--	--	i
1/21/1994	--	165.14	18.86	--	146.28	110	36	1.2	<0.5	0.7	<5.0	--	--	--	i
4/20/1994	--	165.14	17.30	--	147.84	690	230	4.5	1.6	11	21.2	1.3	--	--	i
8/1/1994	--	165.14	17.53	--	147.61	170	44	1.6	0.9	2.7	<5.0	0.9	--	--	i
12/23/1994	--	165.14	11.63	--	153.51	630	180	1.9	0.66	1.9	7.81	1.4	--	--	i
1/26/1995	--	165.14	11.25	--	153.89	160	68	<0.5	<0.5	22	--	5.9	--	--	
6/8/1995	--	165.14	--	--	--	1,700	560	51	55	170	--	--	--	--	c
6/8/1995	--	165.14	16.80	--	148.34	2,000	630	58	61	180	--	6.5	--	--	
8/22/1995	--	165.14	19.02	--	146.12	3,700	1,100	18	27	59	<130	7.3	--	--	d
10/27/1995	--	165.14	20.94	--	144.20	--	--	--	--	--	--	--	--	--	
10/30/1995	--	165.14	--	--	--	6,500	2,200	55	180	270	<250	7.5	--	--	
1/25/1996	--	165.14	--	--	--	540	37	0.66	<0.50	<1.0	<5.0	--	--	--	c
1/25/1996	--	165.14	13.30	--	151.84	590	37	0.7	<0.50	<1.0	<5.0	--	--	--	
4/19/1996	--	165.14	13.63	--	151.51	1,500	470	38	49	210	<50	8.1	--	--	
7/23/1996	--	165.14	17.61	--	147.53	140	4.6	<0.5	<0.5	<0.5	<10	8	--	--	
11/11/1996	--	165.14	18.70	--	146.44	140	40	<1.0	<1.0	<1.0	<10	7.9	--	--	
1/21/1997	--	165.14	11.63	--	153.51	730	300	<5.0	7.8	26	<50	5	--	--	
4/29/1997	--	165.14	16.74	--	148.40	340	530	<5.0	<5.0	<5.0	<50	4.8	--	--	
8/21/1997	--	165.14	18.26	--	146.88	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	--	--	
11/5/1997	--	165.14	18.84	--	146.30	120	13	<1.0	<1.0	<1.0	<10	4.4	--	--	
2/3/1998	--	165.14	9.49	--	155.65	<50	<0.50	<1.0	<1.0	<1.0	<10	4.3	--	--	
5/28/1998	--	165.14	13.57	--	151.57	4,900	1,500	34	180	311	<10	4.1	--	--	
12/30/1998	--	165.14	14.65	--	150.49	--	--	--	--	--	--	--	--	--	
2/2/1999	--	165.14	12.56	--	152.58	100	<1.0	<1.0	<1.0	<1.0	9.1	--	--	--	
5/10/1999	--	165.14	13.36	--	151.78	--	--	--	--	--	--	--	--	--	
8/24/1999	--	165.14	13.50	--	151.64	--	--	--	--	--	--	--	--	--	
11/3/1999	--	165.14	18.48	--	146.66	--	--	--	--	--	--	--	--	--	
3/1/2000	--	165.14	9.59	--	155.55	<50	<0.5	0.58	<0.5	0.54	2.9	--	--	--	
4/21/2000	--	165.14	13.52	--	151.62	--	--	--	--	--	--	--	--	--	
7/31/2000	--	165.14	14.04	--	151.10	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-5 Cont.															
11/20/2000	--	165.14	15.89	--	149.25	--	--	--	--	--	--	--	--	--	
2/18/2001	--	165.14	11.88	--	153.26	560	161	2.38	6.11	13	5.67	--	--	--	
6/7/2001	--	165.14	15.30	--	149.84	--	--	--	--	--	--	--	--	--	
9/5/2001	--	165.14	19.32	--	145.82	--	--	--	--	--	--	--	--	--	
11/30/2001	--	165.14	17.44	--	147.70	--	--	--	--	--	--	--	--	--	
2/20/2002	--	165.14	13.88	--	151.26	4,200	940	18.7	98.2	176	55.6	--	--	--	
6/20/2002	--	165.14	16.20	--	148.94	--	--	--	--	--	--	--	--	--	
9/11/2002	--	165.14	19.15	--	145.99	--	--	--	--	--	--	--	--	--	
11/12/2002	--	165.14	19.01	--	146.13	390	55	0.89	3.4	3.5	210	--	--	--	
1/29/2003	--	165.14	16.33	--	148.81	7,900	1,400	34	220	350	82	--	--	--	n
5/22/2003	--	165.14	14.35	--	150.79	9,900	2,300	91	400	690	<50	--	--	--	
7/28/2003	--	165.14	18.90	--	146.24	3,200	690	14	81	100	120	--	--	--	p
11/18/2003	--	165.14	--	--	--	--	--	--	--	--	--	--	--	--	Well inaccessible e, q
02/23/2004	P	165.14	12.21	--	152.93	7,500	1,500	100	190	350	100	--	SEQM	6.7	
05/04/2004	P	165.14	17.12	--	148.02	5,900	1,500	57	200	280	42	--	SEQM	6.6	
08/04/2004	P	165.14	19.05	--	146.09	<2,500	<25	<25	<25	<25	390	--	SEQM	6.69	
11/10/2004	P	165.14	16.95	--	148.19	870	80	<5.0	<5.0	<5.0	530	--	SEQM	7.5	
02/15/2005	P	165.14	12.75	--	152.39	1,600	330	8.0	37	67	260	--	SEQM	7.2	
05/16/2005	P	165.14	15.46	--	149.68	<500	<5.0	<5.0	<5.0	<5.0	370	--	SEQM	6.7	
08/17/2005	P	165.14	17.00	--	148.14	7,000	1,000	17	110	130	51	--	SEQM	6.6	
11/18/2005	P	165.14	18.33	--	146.81	1,900	91	<5.0	33	29	340	--	SEQM	7.3	
02/07/2006	P	165.14	10.27	--	154.87	2,100	590	9.6	86	110	200	--	SEQM	6.7	
5/19/2006	P	165.14	13.08	--	152.06	3,200	720	9.7	150	170	44	--	SEQM	6.8	
8/23/2006	P	165.14	17.02	--	148.12	1,400	69	<5.0	20	24	230	--	TAMC	7.11	
11/15/2006	P	165.14	18.30	--	146.84	1,100	24	<2.5	10	8.6	490	0.85	TAMC	6.82	
2/14/2007	P	165.14	13.16	--	151.98	680	110	<2.5	16	11	420	2.54	TAMC	7.24	
5/22/2007	P	165.14	15.42	--	149.72	2,800	660	8.8	74	100	26	1.41	TAMC	7.03	
8/15/2007	P	165.14	18.80	--	146.34	2,800	50	<10	26	29	280	3.81	TAMC	7.14	
11/8/2007	P	165.14	18.55	SHEEN	146.59	3,800	77	<2.5	46	35	270	1.08	TAMC	7.23	t
MW-6															

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-6 Cont.															
7/9/1990	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	165.40	--	--	--	0.17	2.6	7	4.9	26	--	--	--	--	
3/7/1991	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e
4/1/1991	--	165.40	11.79	--	153.61	--	--	--	--	--	--	--	--	--	
6/27/1991	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e
9/27/1991	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e
12/18/1991	--	165.40	--	--	--	--	1.3	22	--	2.7	--	--	--	--	
7/3/1992	--	165.40	17.77	--	147.63	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
10/5/1992	--	165.40	19.46	--	145.94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
1/13/1993	--	165.40	11.34	--	154.06	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
4/23/1993	--	165.40	12.92	--	152.48	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
7/12/1993	--	165.40	17.36	--	148.04	<50	<0.5	<0.5	<0.5	0.7	<5.0	--	--	--	i
10/21/1993	--	165.40	19.98	--	145.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
1/21/1994	--	165.40	18.10	--	147.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	i
4/20/1994	--	165.40	18.68	--	146.72	<50	<0.5	<0.5	<0.5	<0.5	17.4	2	--	--	i
8/1/1994	--	165.40	18.90	--	146.50	<50	<0.5	<0.5	<0.5	<0.5	8.66	1.5	--	--	i
12/23/1994	--	165.40	12.94	--	152.46	--	--	--	--	--	--	--	--	--	
1/26/1995	--	165.40	10.46	--	154.94	<50	<0.5	<0.5	<0.5	<1	--	7.3	--	--	
6/8/1995	--	165.40	16.84	--	148.56	--	--	--	--	--	--	--	--	--	
8/22/1995	--	165.40	19.48	--	145.92	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.7	--	--	d
10/27/1995	--	165.40	20.39	--	145.01	--	--	--	--	--	--	--	--	--	
1/25/1996	--	165.40	12.24	--	153.16	<50	<0.50	<0.50	<0.50	<1.0	9.9	--	--	--	
4/19/1996	--	165.40	13.90	--	151.50	--	--	--	--	--	--	--	--	--	
7/23/1996	--	165.40	17.83	--	147.57	--	--	--	--	--	--	--	--	--	
11/11/1996	--	165.40	18.90	--	146.50	<50	<0.5	<1.0	<1.0	<1.0	<10	7.7	--	--	
1/21/1997	--	165.40	11.97	--	153.43	--	--	--	--	--	--	--	--	--	
4/29/1997	--	165.40	17.04	--	148.36	<50	<0.5	<1.0	<1.0	<1.0	<10	4.5	--	--	
8/21/1997	--	165.40	18.58	--	146.82	--	--	--	--	--	--	--	--	--	
11/5/1997	--	165.40	19.17	--	146.23	70	<0.5	<1.0	<1.0	<1.0	85	4.3	--	--	
2/3/1998	--	165.40	9.87	--	155.53	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-6 Cont.															
5/28/1998	--	165.40	13.38	--	152.02	<50	<0.5	<1.0	<1.0	<1.0	<10	3.7	--	--	
12/30/1998	--	165.40	14.45	--	150.95	--	--	--	--	--	--	--	--	--	
2/2/1999	--	165.40	18.29	--	147.11	--	--	--	--	--	--	--	--	--	
5/10/1999	--	165.40	17.49	--	147.91	--	--	--	--	--	--	--	--	--	
8/24/1999	--	165.40	17.61	--	147.79	--	--	--	--	--	--	--	--	--	
11/3/1999	--	165.40	16.26	--	149.14	--	--	--	--	--	--	--	--	--	
3/1/2000	--	165.40	17.43	--	147.97	--	--	--	--	--	--	--	--	--	
4/21/2000	--	165.40	13.32	--	152.08	--	--	--	--	--	--	--	--	--	
7/31/2000	--	165.40	13.46	--	151.94	--	--	--	--	--	--	--	--	--	
11/20/2000	--	165.40	14.78	--	150.62	--	--	--	--	--	--	--	--	--	
2/18/2001	--	165.40	11.33	--	154.07	--	--	--	--	--	--	--	--	--	
6/7/2001	--	165.40	16.36	--	149.04	--	--	--	--	--	--	--	--	--	
9/5/2001	--	165.40	18.61	--	146.79	--	--	--	--	--	--	--	--	--	
11/30/2001	--	165.40	15.20	--	150.20	--	--	--	--	--	--	--	--	--	
2/20/2002	--	165.40	12.74	--	152.66	--	--	--	--	--	--	--	--	--	
6/20/2002	--	165.40	16.68	--	148.72	--	--	--	--	--	--	--	--	--	
9/11/2002	--	165.40	18.38	--	147.02	--	--	--	--	--	--	--	--	--	
11/12/2002	--	165.40	18.78	--	146.62	--	--	--	--	--	--	--	--	--	
1/29/2003	--	165.40	14.45	--	150.95	--	--	--	--	--	--	--	--	--	n
5/22/2003	--	165.40	14.36	--	151.04	--	--	--	--	--	--	--	--	--	
7/28/2003	--	165.40	18.43	--	146.97	--	--	--	--	--	--	--	--	--	p
11/18/2003	--	165.40	17.48	--	147.92	--	--	--	--	--	--	--	--	--	
02/23/2004	--	165.40	11.54	--	153.86	--	--	--	--	--	--	--	--	--	
05/04/2004	--	165.40	16.58	--	148.82	--	--	--	--	--	--	--	--	--	
08/04/2004	--	165.40	18.12	--	147.28	--	--	--	--	--	--	--	--	--	
11/10/2004	--	165.40	15.75	--	149.65	--	--	--	--	--	--	--	--	--	
02/15/2005	--	165.40	12.50	--	152.90	--	--	--	--	--	--	--	--	--	
05/16/2005	P	165.40	11.51	--	153.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.0	
08/17/2005	--	165.40	16.85	--	148.55	--	--	--	--	--	--	--	--	--	
11/18/2005	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-6 Cont.															
02/07/2006	P	165.40	9.93	--	155.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.1	
5/19/2006	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e
8/23/2006	--	165.40	16.35	--	149.05	--	--	--	--	--	--	--	--	--	
11/15/2006	--	165.40	17.42	--	147.98	--	--	--	--	--	--	--	--	--	
2/14/2007	P	165.40	12.03	--	153.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.07	TAMC	7.73	
5/22/2007	--	165.40	15.11	--	150.29	--	--	--	--	--	--	--	--	--	
8/15/2007	--	165.40	18.08	--	147.32	--	--	--	--	--	--	--	--	--	
11/8/2007	--	165.40	17.79	--	147.61	--	--	--	--	--	--	--	--	--	
MW-7															
7/9/1990	--	167.61	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	167.61	--	--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--	167.61	19.04	--	148.57	--	--	0.4	0.3	2.4	--	--	--	--	
4/1/1991	--	167.61	15.18	--	152.43	--	--	--	--	--	--	--	--	--	
6/27/1991	--	167.61	--	--	--	70	17	4	0.8	2.2	--	--	--	--	
9/27/1991	--	167.61	--	--	--	--	0.4	--	--	0.4	--	--	--	--	
12/18/1991	--	167.61	--	--	--	--	0.7	2.9	0.8	3.3	--	--	--	--	
7/3/1992	--	167.61	20.28	--	147.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
10/5/1992	--	167.61	21.56	--	146.05	<50	<0.5	<0.5	<0.5	1.5	--	--	--	--	
1/13/1993	--	167.61	15.41	--	152.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
4/23/1993	--	167.61	15.84	--	151.77	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
7/12/1993	--	167.61	19.84	--	147.77	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	i
10/21/1993	--	167.61	21.61	--	146.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
1/21/1994	--	167.61	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	c
1/21/1994	--	167.61	20.49	--	147.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	i
4/20/1994	--	167.61	20.54	--	147.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.5	--	--	i
8/1/1994	--	167.61	20.99	--	146.62	<50	0.7	<0.5	<0.5	<0.5	<5.0	1.9	--	--	i
12/23/1994	--	167.61	15.00	--	152.61	--	--	--	--	--	--	--	--	--	
1/26/1995	--	167.61	14.69	--	152.92	<50	<0.5	<0.5	<0.5	<1	--	7	--	--	
6/8/1995	--	167.61	19.87	--	147.74	--	--	--	--	--	--	--	--	--	
8/22/1995	--	167.61	21.49	--	146.12	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.4	--	--	d

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-7 Cont.															
10/27/1995	--	167.61	22.53	--	145.08	--	--	--	--	--	--	--	--	--	
1/25/1996	--	167.61	17.21	--	150.40	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	
4/19/1996	--	167.61	17.09	--	150.52	--	--	--	--	--	--	--	--	--	
7/23/1996	--	167.61	21.02	--	146.59	--	--	--	--	--	--	--	--	--	
11/11/1996	--	167.61	22.03	--	145.58	<50	<0.5	<1.0	<1.0	<1.0	<10	7.8	--	--	
1/21/1997	--	167.61	15.06	--	152.55	--	--	--	--	--	--	--	--	--	
4/29/1997	--	167.61	20.11	--	147.50	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	--	--	
8/21/1997	--	167.61	21.59	--	146.02	--	--	--	--	--	--	--	--	--	
11/5/1997	--	167.61	20.05	--	147.56	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	--	--	
2/3/1998	--	167.61	9.97	--	157.64	--	--	--	--	--	--	--	--	--	
5/28/1998	--	167.61	13.52	--	154.09	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	--	--	
12/30/1998	--	167.61	18.33	--	149.28	--	--	--	--	--	--	--	--	--	
2/2/1999	--	167.61	12.33	--	155.28	--	--	--	--	--	--	--	--	--	
5/10/1999	--	167.61	13.52	--	154.09	--	--	--	--	--	--	--	--	--	
8/24/1999	--	167.61	14.01	--	153.60	--	--	--	--	--	--	--	--	--	
11/3/1999	--	167.61	19.91	--	147.70	--	--	--	--	--	--	--	--	--	
3/1/2000	--	167.61	19.89	--	147.72	--	--	--	--	--	--	--	--	--	
4/21/2000	--	167.61	17.94	--	149.67	--	--	--	--	--	--	--	--	--	
7/31/2000	--	167.61	17.33	--	150.28	--	--	--	--	--	--	--	--	--	
11/20/2000	--	167.61	18.41	--	149.20	--	--	--	--	--	--	--	--	--	
2/18/2001	--	167.61	15.13	--	152.48	--	--	--	--	--	--	--	--	--	
6/7/2001	--	167.61	18.75	--	148.86	--	--	--	--	--	--	--	--	--	
9/5/2001	--	167.61	20.48	--	147.13	--	--	--	--	--	--	--	--	--	
11/30/2001	--	167.61	20.11	--	147.50	--	--	--	--	--	--	--	--	--	
2/20/2002	--	167.61	18.40	--	149.21	--	--	--	--	--	--	--	--	--	
6/20/2002	--	167.61	18.62	--	148.99	--	--	--	--	--	--	--	--	--	
9/11/2002	--	167.61	20.05	--	147.56	--	--	--	--	--	--	--	--	--	
11/12/2002	--	167.61	21.13	--	146.48	--	--	--	--	--	--	--	--	--	n
1/29/2003	--	167.61	19.10	--	148.51	--	--	--	--	--	--	--	--	--	
5/22/2003	--	167.61	18.83	--	148.78	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-7 Cont.															
7/28/2003	--	167.61	19.88	--	147.73	--	--	--	--	--	--	--	--	--	p
11/18/2003	--	167.61	20.50	--	147.11	--	--	--	--	--	--	--	--	--	s
11/18/2003	--	168.08	20.50	--	147.58	--	--	--	--	--	--	--	--	--	
02/23/2004	--	168.08	15.92	--	152.16	--	--	--	--	--	--	--	--	--	
05/04/2004	--	168.08	18.86	--	149.22	--	--	--	--	--	--	--	--	--	
08/04/2004	--	168.08	19.10	--	148.98	--	--	--	--	--	--	--	--	--	
11/10/2004	--	168.08	20.25	--	147.83	--	--	--	--	--	--	--	--	--	
02/15/2005	--	168.08	16.37	--	151.71	--	--	--	--	--	--	--	--	--	
05/16/2005	--	168.08	--	--	--	--	--	--	--	--	--	--	--	--	e
08/17/2005	--	168.08	19.74	--	148.34	--	--	--	--	--	--	--	--	--	
11/18/2005	--	168.08	20.82	--	147.26	--	--	--	--	--	--	--	--	--	
02/07/2006	P	168.08	14.26	--	153.82	<500	<5.0	<5.0	<5.0	<5.0	270	--	SEQM	7.3	
5/19/2006	--	168.08	16.51	--	151.57	--	--	--	--	--	--	--	--	--	
8/23/2006	--	168.08	20.30	--	147.78	--	--	--	--	--	--	--	--	--	
11/15/2006	--	168.08	20.85	--	147.23	--	--	--	--	--	--	--	--	--	
2/14/2007	P	168.08	16.57	--	151.51	520	<5.0	<5.0	<5.0	<5.0	740	3.08	TAMC	7.30	v
5/22/2007	--	168.08	18.40	--	149.68	--	--	--	--	--	--	--	--	--	
8/15/2007	--	168.08	20.85	--	147.23	--	--	--	--	--	--	--	--	--	
11/8/2007	--	168.08	20.41	--	147.67	--	--	--	--	--	--	--	--	--	
MW-8															
3/7/1991	--	165.74	16.72	--	149.02	2.7	780	450	64	310	--	--	--	--	
4/1/1991	--	165.74	12.54	--	153.20	15,000	3,600	2,600	410	1,900	--	--	--	--	
6/27/1991	--	165.74	--	--	--	12,000	3,400	1,100	240	750	--	--	--	--	
9/27/1991	--	165.74	--	--	--	41	5,700	5,200	1,100	4,300	--	--	--	--	
12/18/1991	--	165.74	--	--	--	3.2	990	150	120	250	--	--	--	--	
7/3/1992	--	165.74	18.78	--	146.96	72,000	19,000	32,000	3,000	15,000	--	--	--	--	
10/5/1992	--	165.74	20.48	--	145.26	--	--	--	--	--	--	--	--	--	
1/13/1993	--	165.74	12.87	--	152.87	--	--	--	--	--	--	--	--	--	
4/23/1993	--	165.74	13.90	--	151.84	--	--	--	--	--	--	--	--	--	t
7/12/1993	--	165.74	18.30	--	147.44	--	--	--	--	--	--	--	--	--	t

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-8 Cont.															
10/21/1993	--	165.74	21.91	--	142.88	--	--	--	--	--	--	--	--	--	
10/2/93-12/9/98	--	165.74	--	0.12	--	--	--	--	--	--	--	--	--	--	
1/21/1994	--	165.74	19.12	--	146.62	--	--	--	--	--	--	--	--	--	
4/20/1994	--	165.74	19.28	--	146.46	26,000	1,700	4,100	960	4,000	632	1.1	--	--	i
8/1/1994	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	
12/23/1994	--	165.74	13.81	--	151.93	--	--	--	--	--	--	--	--	--	
1/26/1995	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	
6/8/1995	--	165.74	17.82	--	147.92	--	--	--	--	--	--	--	--	--	
8/22/1995	--	165.74	19.41	--	146.33	--	--	--	--	--	--	--	--	--	
10/27/1995	--	165.74	20.47	--	145.27	--	--	--	--	--	--	--	--	--	
1/25/1996	--	165.74	13.35	--	152.39	--	--	--	--	--	--	--	--	--	
4/19/1996	--	165.74	14.40	--	151.34	--	--	--	--	--	--	--	--	--	
7/23/1996	--	165.74	18.35	--	147.39	--	--	--	--	--	--	--	--	--	
11/11/1996	--	165.74	19.41	--	146.33	--	--	--	--	--	--	--	--	--	
1/21/1997	--	165.74	12.29	--	153.45	--	--	--	--	--	--	--	--	--	
4/29/1997	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
8/21/1997	--	165.74	19.61	--	146.13	240,000	1,100	9,300	4,100	31,100	<1000	5.2	--	--	
11/5/1997	--	165.74	19.45	--	146.29	57,000	790	2,700	2,300	15,200	<1000	5	--	--	
2/3/1998	--	165.74	9.33	--	156.41	--	--	--	--	--	--	--	--	--	
2/4/1998	--	165.74	--	--	--	94,000	570	1,500	2,100	15,200	<2500	5.5	--	--	
5/28/1998	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
12/30/1998	--	165.74	15.48	--	150.26	120,000	460	2,300	2,200	15,000	150	--	--	--	
2/2/1999	--	165.74	18.29	--	147.45	82,000	450	2,200	3,700	26,000	<500	--	--	--	
5/10/1999	--	165.74	15.62	--	150.12	28,000	740	1,800	1,100	5,800	<25	--	--	--	
8/24/1999	--	165.74	18.41	--	147.33	75,000	530	1,400	3,300	21,000	150	--	--	--	
11/3/1999	--	165.74	18.71	--	147.03	70,000	600	1,300	3,600	20,500	750	--	--	--	
3/1/2000	--	165.74	19.37	--	146.37	27,000	1,600	1,200	2,600	6,600	120	--	--	--	
4/21/2000	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
7/31/2000	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
11/20/2000	--	165.74	17.42	--	148.32	1,300,000	1,400	1,700	20,000	16,000	5,700	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-8 Cont.															
2/18/2001	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
6/7/2001	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
9/5/2001	--	165.74	21.45	0.04	144.25	--	--	--	--	--	--	--	--	--	j
11/30/2001	--	165.74	18.31	--	147.43	--	--	--	--	--	--	--	--	--	h
12/6/2001	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
2/20/2002	--	165.74	14.02	--	151.72	20,000	163	114	403	3,810	80.4	--	--	--	
6/20/2002	--	165.74	17.56	--	148.18	28,000	466	141	962	5,850	2,520	--	--	--	
9/11/2002	--	165.74	19.45	--	146.29	190,000	1,500	670	4,500	23,000	1,200	--	--	--	
11/12/2002	--	165.74	19.15	--	146.59	420	6.4	2.9	16	110	31	--	--	--	t
1/29/2003	--	165.74	15.02	--	150.72	200,000	810	<500	2,000	11,000	<500	--	--	--	n
5/22/2003	--	165.74	15.07	--	150.67	--	--	--	--	--	--	--	--	--	t
6/24/2003	--	165.74	17.95	--	147.79	43,000	860	300	2,100	9,600	46	--	--	--	
7/28/2003	--	165.74	19.45	--	146.29	62,000	690	230	1,800	15,000	2,100	--	--	--	
8/12/2003	--	165.74	19.40	<0.01	146.34	--	--	--	--	--	--	--	--	--	o,t
9/12/2003	--	165.74	19.34	--	146.40	--	--	--	--	--	--	--	--	--	o
10/3/2003	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
11/18/2003	P	165.74	18.80	<0.01	146.94	8,800	500	37	530	930	1,700	--	SEQM	--	o,p
12/31/2003	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
2/2/2004	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
02/23/2004	P	165.74	12.82	<0.01	152.92	32,000	840	360	1,000	7,100	110	--	SEQM	6.6	t
3/18/2004	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
4/13/2004	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
05/04/2004	P	165.74	18.87	<0.01	146.87	42,000	570	230	1,700	8,400	2,000	--	SEQM	7.0	t
6/2/2004	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
08/04/2004	--	165.74	19.37	0.05	146.41	--	--	--	--	--	--	--	--	--	
09/22/2004	NP	165.74	19.60	--	146.14	--	--	--	--	--	--	--	--	--	
11/10/2004	P	165.74	16.58	--	149.16	11,000	790	61	1,000	830	74	--	SEQM	7.3	t
02/15/2005	P	165.74	12.85	--	152.89	38,000	1,300	390	2,300	7,900	<50	--	SEQM	7.2	
05/16/2005	P	165.74	12.22	--	153.52	31,000	1,000	360	2,500	7,500	<50	--	SEQM	6.5	
08/17/2005	P	165.74	17.80	--	147.94	60,000	540	240	2,500	8,600	<50	--	SEQM	6.7	

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

Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-8 Cont.															
11/18/2005	P	165.74	21.02	--	144.72	33,000	340	120	1,400	4,900	140	--	SEQM	6.9	
02/07/2006	P	165.74	10.73	--	155.01	5,700	94	27	260	820	7.5	--	SEQM	6.6	
5/19/2006	P	165.74	13.89	--	151.85	40,000	1,100	320	2,900	6,000	<25	--	SEQM	6.6	t
8/23/2006	P	165.74	18.85	--	146.89	21,000	520	150	1,800	6,300	82	--	TAMC	7.35	
11/15/2006	P	165.74	18.75	--	146.99	3,300	81	<25	130	430	110	0.81	TAMC	6.91	
2/14/2007	P	165.74	13.45	SHEEN	152.29	9,300	320	<25	360	710	82	1.89	TAMC	7.13	t
5/22/2007	P	165.74	15.92	SHEEN	149.82	17,000	370	51	760	1,600	11	1.05	TAMC	6.99	t
8/15/2007	P	165.74	19.11	SHEEN	146.63	17,000	170	44	1,000	2,700	28	3.93	TAMC	7.08	
11/8/2007	P	165.74	18.46	SHEEN	147.28	24,000	150	43	1,100	3,200	27	1.29	TAMC	7.14	t
MW-9															
3/7/1991	--	166.20	16.79	--	149.41	7.1	220	4	2.4	2,400	--	--	--	--	
4/1/1991	--	166.20	12.89	--	153.31	12,000	2,000	2,600	360	1,600	--	--	--	--	
6/27/1991	--	166.20	--	--	--	3,600	520	400	85	310	--	--	--	--	
9/27/1991	--	166.20	--	--	--	3.2	720	150	50	180	--	--	--	--	
12/18/1991	--	166.20	--	--	--	--	2.5	1.1	0.3	5.8	--	--	--	--	
7/3/1992	--	166.20	18.89	--	147.31	5,700	17,000	840	230	800	--	--	--	--	
10/5/1992	--	166.20	20.52	--	145.68	1,400	440	17	14	100	--	--	--	--	
1/13/1993	--	166.20	12.92	--	153.28	11,000	1,200	1,700	340	1,400	--	--	--	--	i
1/13/1993	--	166.20	--	--	--	11,000	1,200	1,600	330	1,300	--	--	--	--	c,i
4/23/1993	--	166.20	14.08	--	152.12	24,000	2,800	4,500	730	3,400	--	--	--	--	i
7/12/1993	--	166.20	--	--	--	10,000	1,200	900	310	1,200	--	--	--	--	c
7/12/1993	--	166.20	18.44	--	147.76	13,000	1,400	1,100	360	1,400	20.8	--	--	--	i
10/21/1993	--	166.20	21.81	--	143.50	--	--	--	--	--	--	--	--	--	
11/2/93-4/29/97	--	166.20	--	0.10	--	--	--	--	--	--	--	--	--	--	
1/21/1994	--	166.20	19.28	--	146.92	--	--	--	--	--	--	--	--	--	
4/20/1994	--	166.20	19.72	--	146.48	43,000	2,800	6,800	1,300	7,900	768	1.7	--	--	i
4/20/1994	--	166.20	--	--	--	45,000	2,700	6,800	1,200	8,200	740	--	--	--	c,d
8/1/1994	--	166.20	20.18	--	146.02	--	--	--	--	--	--	--	--	--	
12/23/1994	--	166.20	14.22	--	151.98	--	--	--	--	--	--	--	--	--	
1/26/1995	--	166.20	11.85	--	154.35	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-9 Cont.															
6/8/1995	--	166.20	18.33	--	147.87	--	--	--	--	--	--	--	--	--	
8/22/1995	--	166.20	19.95	--	146.25	--	--	--	--	--	--	--	--	--	
10/27/1995	--	166.20	20.88	--	145.32	--	--	--	--	--	--	--	--	--	
1/25/1996	--	166.20	13.84	--	152.36	--	--	--	--	--	--	--	--	--	
4/19/1996	--	166.20	--	--	--	--	--	--	--	--	--	--	--	--	e
7/23/1996	--	166.20	18.84	--	147.36	--	--	--	--	--	--	--	--	--	
11/11/1996	--	166.20	19.91	--	146.29	--	--	--	--	--	--	--	--	--	
1/21/1997	--	166.20	12.93	--	153.27	--	--	--	--	--	--	--	--	--	
4/29/1997	--	166.20	18.03	0.1	148.17	--	--	--	--	--	--	--	--	--	t
4/30/1997	--	166.20	--	--	--	78,000	1,900	3,600	3,100	20,600	<5000	5.5	--	--	
8/21/1997	--	166.20	19.56	--	146.64	110,000	2,100	3,400	2,300	18,800	<500	5.1	--	--	
11/5/1997	--	166.20	20.59	0.01	145.60	59,000	1,400	1,700	2,200	17,000	<500	4.5	--	--	
2/3/1998	--	166.20	10.56	--	155.64	55,000	490	1,200	1,400	10,200	<1000	4.9	--	--	
5/28/1998	--	166.20	14.21	--	151.99	41,000	250	1,200	1,500	11,400	<250	3.8	--	--	
5/28/1998	--	166.20	--	--	--	53,000	290	830	1,400	10,500	<500	--	--	--	c
12/30/1998	--	166.20	15.61	--	150.59	83,000	860	1,300	2,400	21,000	180	--	--	--	
2/2/1999	--	166.20	12.33	--	153.87	75,000	530	960	1,900	17,000	<50	--	--	--	
5/10/1999	--	166.20	15.67	--	150.53	22,000	600	1,500	1,100	4,400	72	--	--	--	
8/24/1999	--	166.20	19.10	--	147.10	85,000	850	1,300	1,700	20,000	<250	--	--	--	
11/3/1999	--	166.20	19.58	--	146.62	72,000	700	780	1,900	19,000	<5.0	--	--	--	
3/1/2000	--	166.20	13.19	--	153.01	34,000	78	490	1,100	8,200	63	--	--	--	
4/21/2000	--	166.20	14.29	--	151.91	55,000	260	920	1,500	16,000	<5.0	--	--	--	
7/31/2000	--	166.20	15.01	--	151.19	1,200,000	1,500	6,300	15,000	120,000	1,600	--	--	--	
11/20/2000	--	166.20	18.23	--	147.97	320,000	3,500	19,000	5,000	40,000	3,900	--	--	--	
2/18/2001	--	166.20	13.14	--	153.06	32,000	290	417	1,180	10,400	121	--	--	--	
6/7/2001	--	166.20	17.41	--	148.79	96,000	421	704	2,330	17,300	223	--	--	--	
9/5/2001	--	166.20	20.56	--	145.64	39,000	445	323	1,240	8,940	310	--	--	--	
11/30/2001	--	166.20	17.42	--	148.78	60,000	310	586	1,890	14,200	285	--	--	--	
2/20/2002	--	166.20	13.87	--	152.33	14,000	64	122	897	2,650	293	--	--	--	
6/20/2002	--	166.20	18.22	--	147.98	29,000	307	168	1,100	5,670	208	--	--	--	

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

Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-9 Cont.															
9/11/2002	--	166.20	20.27	--	145.93	230,000	1,400	680	3,600	23,000	<2500	--	--	--	
11/12/2002	--	166.20	19.40	--	146.80	840	5.8	3.6	28	160	21	--	--	--	t
1/29/2003	--	166.20	14.30	0.1	151.80	--	--	--	--	--	--	--	--	--	j,n
5/22/2003	--	166.20	15.16	--	151.04	23,000	260	<50	1,000	2,900	<50	--	--	--	t
6/24/2003	--	166.20	--	--	--	--	--	--	--	--	--	--	--	--	e
7/28/2003	--	166.20	19.55	<0.01	146.65	1,500,000	<500	<500	9,800	79,000	<500	--	--	--	
8/12/2003	--	166.20	19.60	<0.01	146.60	--	--	--	--	--	--	--	--	--	o,t
9/12/2003	--	166.20	19.60	<0.01	146.60	--	--	--	--	--	--	--	--	--	o,t
11/18/2003	P	166.20	18.98	<0.01	147.22	19,000	250	18	690	2,400	45	--	SEQM	6.8	o,p
12/31/2003	--	166.20	--	<0.01	--	--	--	--	--	--	--	--	--	--	
2/2/2004	--	166.20	--	<0.01	--	--	--	--	--	--	--	--	--	--	
02/23/2004	P	166.20	13.91	<0.01	152.29	91,000	<250	440	2,200	13,000	<250	--	SEQM	6.8	t
3/18/2004	--	166.20	--	<0.01	--	--	--	--	--	--	--	--	--	--	
4/13/2004	--	166.20	--	<0.01	--	--	--	--	--	--	--	--	--	--	
05/04/2004	P	166.20	18.11	<0.01	148.09	39,000	230	44	1,100	4,200	<25	--	SEQM	6.9	t
6/2/2004	--	166.20	--	<0.01	--	--	--	--	--	--	--	--	--	--	
08/04/2004	--	166.20	18.90	0.03	147.32	--	--	--	--	--	--	--	--	--	
09/22/2004	NP	166.20	19.69	--	146.51	--	--	--	--	--	--	--	--	--	
11/10/2004	NP	166.20	16.95	--	149.25	31,000	300	<50	1,100	3,800	<50	--	SEQM	7.3	t
02/15/2005	P	166.20	12.95	--	153.25	19,000	200	<50	720	2,000	<50	--	SEQM	7.3	t
05/16/2005	P	166.20	12.53	--	153.67	17,000	99	15	770	2,500	<10	--	SEQM	6.7	
08/17/2005	P	166.20	18.03	--	148.17	28,000	160	26	1,000	2,700	<12	--	SEQM	6.8	
11/18/2005	P	166.20	19.04	--	147.16	12,000	98	<5.0	410	510	19	--	SEQM	7.1	
02/07/2006	P	166.20	10.95	SHEEN	155.25	18,000	110	8.7	770	1,500	<5.0	--	SEQM	6.9	t
5/19/2006	--	166.20	--	--	--	--	--	--	--	--	--	--	--	--	e
8/23/2006	P	166.20	18.91	--	147.29	28,000	84	<50	1,600	6,200	<50	--	TAMC	7.3	
11/15/2006	P	166.20	18.60	--	147.60	8,200	44	<25	190	370	26	0.92	TAMC	6.88	
2/14/2007	P	166.20	13.30	--	152.90	20,000	64	<25	720	2,000	<25	0.87	TAMC	7.17	t
5/22/2007	P	166.20	16.14	SHEEN	150.06	16,000	80	<25	460	1,200	<25	0.81	TAMC	7.08	t
8/15/2007	P	166.20	19.31	SHEEN	146.89	5,900	27	<2.5	59	170	27	2.57	TAMC	6.98	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-9 Cont.															
11/8/2007	P	166.20	18.70	--	147.50	6,100	29	<5.0	98	250	52	1.24	TAMC	7.47	
MW-10															
3/7/1991	--	167.01	18.09	--	148.92	1.6	120	190	32	230	--	--	--	--	
4/1/1991	--	167.01	13.92	--	153.09	--	--	--	--	--	--	--	--	--	
6/27/1991	--	167.01	--	--	--	12,000	7,300	500	150	300	--	--	--	--	
9/27/1991	--	167.01	--	--	--	57	12,000	7,200	1,400	4,600	--	--	--	--	
12/18/1991	--	167.01	--	--	--	5.3	2,500	120	36	79	--	--	--	--	
7/3/1992	--	167.01	19.92	--	147.09	8,600	5,100	1,300	180	690	--	--	--	--	
10/5/1992	--	167.01	21.92	--	145.09	--	--	--	--	--	--	--	--	--	
1/13/1993	--	167.01	14.43	--	152.58	--	--	--	--	--	--	--	--	--	
4/23/1993	--	167.01	15.26	--	151.75	--	--	--	--	--	--	--	--	--	
7/12/1993	--	167.01	19.78	--	147.23	--	--	--	--	--	--	--	--	--	
10/21/1993	--	167.01	22.90	--	144.11	--	--	--	--	--	--	--	--	--	
1/21/1994	--	167.01	20.25	--	146.76	--	--	--	--	--	--	--	--	--	
4/20/1994	--	167.01	20.74	--	146.27	100,000	12,000	24,000	2,400	14,000	1,577	1	--	--	d.i
8/1/1994	--	167.01	22.00	--	145.01	--	--	--	--	--	--	--	--	--	
12/23/1994	--	167.01	16.08	--	150.93	--	--	--	--	--	--	--	--	--	
1/26/1995	--	167.01	13.68	--	153.33	--	--	--	--	--	--	--	--	--	
6/8/1995	--	167.01	19.08	--	147.93	--	--	--	--	--	--	--	--	--	
8/22/1995	--	167.01	20.73	--	146.28	--	--	--	--	--	--	--	--	--	
10/27/1995	--	167.01	21.69	--	145.32	--	--	--	--	--	--	--	--	--	
1/25/1996	--	167.01	15.05	--	151.96	--	--	--	--	--	--	--	--	--	
4/19/1996	--	167.01	16.26	--	150.75	--	--	--	--	--	--	--	--	--	
7/23/1996	--	167.01	20.18	--	146.83	--	--	--	--	--	--	--	--	--	
9/4/1996	--	167.01	--	0.76	--	--	--	--	--	--	--	--	--	--	
11/11/1996	--	167.01	21.20	--	145.81	--	--	--	--	--	--	--	--	--	
1/21/1997	--	167.01	13.66	--	153.35	--	--	--	--	--	--	--	--	--	
4/29/1997	--	167.01	18.71	--	148.30	--	--	--	--	--	--	--	--	--	
4/30/1997	--	167.01	--	--	--	170,000	9,700	38,000	4,700	30,500	<5000	5.6	--	--	
8/21/1997	--	167.01	20.19	--	146.82	170,000	9,500	35,000	4,300	27,100	<5000	5.3	--	--	

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

Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-10 Cont.															
11/5/1997	--	167.01	20.52	--	146.49	80,000	3,800	12,000	2,700	15,700	<500	4.4	--	--	
12/2/1997	--	167.01	--	0.03	--	--	--	--	--	--	--	--	--	--	
2/3/1998	--	167.01	10.62	--	156.39	--	--	--	--	--	--	--	--	--	
2/4/1998	--	167.01	--	--	--	72,000	500	1,300	1,700	12,000	<1000	5.1	--	--	
5/28/1998	--	167.01	15.46	--	151.55	220,000	3,200	24,000	5,200	43,000	<1000	4.8	--	--	
12/30/1998	--	167.01	16.65	--	150.36	110,000	3,500	14,000	5,800	50,000	<50	--	--	--	
2/2/1999	--	167.01	14.58	--	152.43	74,000	1,000	2,800	1,000	26,000	860	--	--	--	
5/10/1999	--	167.01	15.72	--	151.29	81,000	2,800	2,800	3,000	17,000	220	--	--	--	
8/24/1999	--	167.01	19.85	--	147.16	54,000	3,500	3,800	1,500	9,100	<250	--	--	--	
11/3/1999	--	167.01	20.00	--	147.01	30,000	3,000	3,500	1,200	5,000	31	--	--	--	
3/1/2000	--	167.01	14.62	--	152.39	62,000	320	1,200	1,100	26,000	4,400	--	--	--	
4/21/2000	--	167.01	15.46	--	151.55	88,000	2,700	7,400	3,700	35,000	2,400	--	--	--	
7/31/2000	--	167.01	--	--	--	--	--	--	--	--	--	--	--	--	e
11/20/2000	--	167.01	18.74	--	148.27	78,000	3,800	5,500	2,800	13,000	450	--	--	--	
2/18/2001	--	167.01	14.10	--	152.91	39,000	1,050	1,160	1,550	14,700	4,180	--	--	--	
6/7/2001	--	167.01	18.78	--	148.23	76,000	2,460	2,840	3,330	20,700	635	--	--	--	
9/5/2001	--	167.01	21.40	0.01	145.60	25,000	2,510	2,070	1,090	4,540	189	--	--	--	
11/30/2001	--	167.01	18.50	--	148.51	100,000	2,480	5,720	3,890	22,800	325	--	--	--	
2/20/2002	--	167.01	14.39	--	152.62	49,000	2,170	3,070	1,960	12,300	1,090	--	--	--	
6/20/2002	--	167.01	18.80	--	148.21	44,000	2,040	3,050	1,690	8,430	224	--	--	--	
9/11/2002	--	167.01	20.52	--	146.49	28,000	1,200	2,700	1,400	6,800	<250	--	--	--	
11/12/2002	--	167.01	20.37	0.07	146.57	--	--	--	--	--	--	--	--	--	j
1/29/2003	--	167.01	16.33	0.03	150.65	--	--	--	--	--	--	--	--	--	j,n
5/22/2003	--	167.01	16.32	--	150.69	13,000	2,100	850	630	1,600	300	--	--	--	t
6/24/2003	--	167.01	18.73	0.04	148.24	--	--	--	--	--	--	--	--	--	o
7/28/2003	--	167.01	20.39	0.04	146.58	--	--	--	--	--	--	--	--	--	j
8/12/2003	--	167.01	20.43	<0.01	146.58	--	--	--	--	--	--	--	--	--	o,t
9/12/2003	--	167.01	20.41	--	146.60	--	--	--	--	--	--	--	--	--	o
10/3/2003	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
11/18/2003	P	167.01	19.55	<0.01	147.46	9,900	2,200	530	320	860	<50	--	SEQM	6.8	o,p

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-10 Cont.															
12/31/2003	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
2/2/2004	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
02/23/2004	P	167.01	15.45	<0.01	151.56	46,000	1,900	2,000	1,800	9,000	180	--	SEQM	6.7	t
3/18/2004	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
4/13/2004	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
05/04/2004	P	167.01	18.81	<0.01	148.20	35,000	3,100	3,600	1,400	5,600	<25	--	SEQM	7.1	t
6/2/2004	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
08/04/2004	--	167.01	18.90	--	148.11	--	--	--	--	--	--	--	--	--	
09/22/2004	NP	167.01	20.60	--	146.41	--	--	--	--	--	--	--	--	--	
11/10/2004	P	167.01	17.95	--	149.06	9,800	470	91	450	1,700	230	--	SEQM	7.3	t
01/13/2005	--	167.01	12.21	--	154.80	--	--	--	--	--	--	--	--	--	
02/15/2005	P	167.01	14.19	--	152.82	30,000	510	330	1,800	7,200	77	--	SEQM	7.2	
05/16/2005	P	167.01	13.85	--	153.16	37,000	540	730	2,100	9,200	<50	--	SEQM	6.7	
08/17/2005	P	167.01	19.01	--	148.00	15,000	1,100	420	1,200	4,100	<50	--	SEQM	6.7	
11/18/2005	P	167.01	19.95	--	147.06	12,000	1,200	240	550	1,300	16	--	SEQM	6.8	
02/07/2006	P	167.01	12.28	SHEEN	154.73	22,000	340	580	1,300	4,500	73	--	SEQM	6.8	t
5/19/2006	P	167.01	15.12	--	151.89	40,000	690	430	2,600	4,900	<25	--	SEQM	6.9	t
8/23/2006	P	167.01	20.00	--	147.01	13,000	1,500	540	1,200	3,000	<10	--	TAMC	6.97	
11/15/2006	P	167.01	19.84	--	147.17	3,800	700	22	67	160	54	0.65	TAMC	6.78	
2/14/2007	P	167.01	14.94	SHEEN	152.07	37,000	350	120	2,400	8,100	120	2.12	TAMC	7.05	t
5/22/2007	P	167.01	17.17	SHEEN	149.84	13,000	810	130	750	2,200	15	0.06	TAMC	7.10	t
8/15/2007	P	167.01	20.30	SHEEN	146.71	4,400	550	38	160	310	<10	3.09	TAMC	7.09	
11/8/2007	P	167.01	19.58	SHEEN	147.43	13,000	970	130	480	1,600	6.0	1.47	TAMC	7.95	t
QC-2															
10/5/1992	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f
1/13/1993	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f,i
4/23/1993	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f,i
7/12/1993	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f
10/21/1993	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
QC-2 Cont.															
1/21/1994	--	168.01	--	--	--	<50	<0.5	2.1	<0.5	2.1	--	--	--	--	f
4/20/1994	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f
12/23/1994	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f
1/26/1995	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	f
6/8/1995	--	168.01	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	f
8/22/1995	--	168.01	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	d,f
10/30/1995	--	168.01	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	f
1/25/1996	--	168.01	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	f
4/19/1996	--	168.01	--	--	--	<50	<0.5	<1	<1	<1	<10	--	--	--	f
RW-1															
7/9/1990	--	168.01	--	--	--	--	--	--	--	--	--	--	--	--	--
12/21/1990	--	168.01	--	--	--	--	--	--	--	--	--	--	--	--	--
3/7/1991	--	168.01	17.62	--	150.39	--	--	--	--	--	--	--	--	--	t
4/1/1991	--	168.01	14.40	--	153.61	--	--	--	--	--	--	--	--	--	--
6/27/1991	--	168.01	--	--	--	--	--	--	--	--	--	--	--	--	--
9/27/1991	--	168.01	--	--	--	--	--	--	--	--	--	--	--	--	--
12/18/1991	--	168.01	--	--	--	--	--	--	--	--	--	--	--	--	--
7/3/1992	--	168.01	20.66	--	147.35	--	--	--	--	--	--	--	--	--	t
10/5/1992	--	168.01	23.34	--	144.67	--	--	--	--	--	--	--	--	--	--
1/13/1993	--	168.01	16.59	--	151.42	--	--	--	--	--	--	--	--	--	--
4/23/1993	--	168.01	16.17	--	151.84	--	--	--	--	--	--	--	--	--	--
7/12/1993	--	168.01	20.18	--	147.83	--	--	--	--	--	--	--	--	--	--
10/21/1993	--	168.01	25.70	--	142.31	--	--	--	--	--	--	--	--	--	--
1/21/1994	--	168.01	21.24	--	146.77	--	--	--	--	--	--	--	--	--	--
4/20/1994	--	168.01	32.20	--	135.81	--	--	--	--	--	--	--	--	--	--
8/1/1994	--	168.01	21.70	--	146.31	29,000	580	950	300	7,800	1,200	1.1	--	--	d
12/23/1994	--	168.01	16.02	--	151.99	1,300	25	8.6	1.4	69	616	1.8	--	--	i
1/26/1995	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	c
1/26/1995	--	168.01	13.78	--	154.23	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--
6/8/1995	--	168.01	20.05	--	147.96	1,300	130	<1.0	<1.0	36	--	--	--	--	--

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

Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
RW-1 Cont.															
8/22/1995	--	168.01	--	--	--	2,800	210	9.3	4.3	250	<25	--	--	--	c
8/22/1995	--	168.01	21.74	--	146.27	3,300	230	13	4.9	280	<25	6.6	--	--	d
10/27/1995	--	168.01	32.00	--	136.01	--	--	--	--	--	--	--	--	--	
10/30/1995	--	168.01	--	--	--	230	1.4	<1.0	<1.0	<2.0	650	6.9	--	--	
10/30/1995	--	168.01	--	--	--	240	1.6	<1.0	<1.0	<2.0	630	--	--	--	c
1/25/1996	--	168.01	15.41	--	152.60	15,000	3,400	930	330	2,500	5,300	--	--	--	
4/19/1996	--	168.01	--	--	--	33,000	5,600	3,200	1,700	8,800	15,000	--	--	--	c
4/19/1996	--	168.01	16.83	--	151.18	35,000	5,500	3,300	1,700	9,400	14,000	7.6	--	--	
7/23/1996	--	168.01	20.76	--	147.25	46,000	3,600	2,300	900	5,100	36,000	7.4	--	--	
7/23/1996	--	168.01	--	--	--	47,000	3,700	2,500	930	5,300	35,000	--	--	--	c
11/11/1996	--	168.01	21.73	--	146.28	34,000	3,000	1,200	880	4,600	22,000	8.3	--	--	
11/11/1996	--	168.01	--	--	--	31,000	2,900	1,000	860	4,600	22,000	--	--	--	c
1/21/1997	--	168.01	--	--	--	270	42	17	2.7	36	1,500	--	--	--	c
1/21/1997	--	168.01	14.20	--	153.81	260	40	16	2.7	34	1,500	6.1	--	--	
4/29/1997	--	168.01	19.15	--	148.86	32,000	3,100	590	1,300	6,000	46,000	5.3	--	--	
8/21/1997	--	168.01	20.67	--	147.34	7,600	730	58	370	1,780	9,500	4.7	--	--	
11/5/1997	--	168.01	21.01	--	147.00	39,000	2,300	86	1,300	3,840	56,000	4.5	--	--	
2/3/1998	--	168.01	10.68	--	157.33	3,400	31	11	29	161	3,200	5.1	--	--	
5/28/1998	--	168.01	15.55	--	152.46	2,000	90	15	60	305	2,700	4.3	--	--	
12/30/1998	--	168.01	17.35	--	150.66	--	--	--	--	--	--	--	--	--	
2/2/1999	--	168.01	14.58	--	153.43	82,000	2,300	120	2,000	3,200	51000/78000	--	--	--	g
5/10/1999	--	168.01	16.00	--	152.01	15,000	620	88	340	660	61,000	--	--	--	
8/24/1999	--	168.01	20.00	--	148.01	52,000	1,400	170	2,200	2,900	37,000	--	--	--	
11/3/1999	--	168.01	20.39	--	147.62	17,000	2,500	86	1,500	970	54,000	--	--	--	
3/1/2000	--	168.01	12.97	--	155.04	17,000	580	78	790	1,100	13,000	--	--	--	
4/21/2000	--	168.01	16.02	--	151.99	31,000	2,100	100	1,400	1,100	39,000	--	--	--	
7/31/2000	--	168.01	21.89	--	146.12	47,000	1,300	170	2,700	2,300	30,000	--	--	--	
11/20/2000	--	168.01	19.15	--	148.86	--	--	--	--	--	--	--	--	--	h
2/18/2001	--	168.01	15.35	--	152.66	14,000	589	89	600	712	13,000	--	--	--	
6/7/2001	--	168.01	19.09	--	148.92	28,000	1,140	68.2	504	530	19,100	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
RW-1 Cont.															
9/5/2001	--	168.01	22.06	0.02	145.93	--	--	--	--	--	--	--	--	--	j
11/30/2001	--	168.01	19.53	--	148.48	20,000	405	39.4	545	740	8,260	--	--	--	
2/20/2002	--	168.01	15.99	--	152.02	13,000	469	29	434	655	7,240	--	--	--	
6/20/2002	--	168.01	19.31	--	148.70	--	--	--	--	--	--	--	--	--	j,l
9/11/2002	--	168.01	21.07	0.03	146.91	--	--	--	--	--	--	--	--	--	j
11/12/2002	--	168.01	20.92	0.02	147.07	--	--	--	--	--	--	--	--	--	j
1/29/2003	--	168.01	16.31	0.04	151.66	--	--	--	--	--	--	--	--	--	j,n
5/22/2003	--	168.01	16.68	--	151.33	--	--	--	--	--	--	--	--	--	j,t
6/24/2003	--	168.01	19.76	0.07	148.18	--	--	--	--	--	--	--	--	--	o
7/28/2003	--	168.01	21.04	0.04	146.93	--	--	--	--	--	--	--	--	--	j
8/12/2003	--	168.01	21.41	<0.01	146.60	--	--	--	--	--	--	--	--	--	o,t
9/12/2003	--	168.01	21.10	0.07	146.84	--	--	--	--	--	--	--	--	--	o
10/3/2003	--	168.01	--	0.03	--	--	--	--	--	--	--	--	--	--	
11/18/2003	P	168.01	20.10	<0.01	147.91	12,000	770	<50	320	250	6,100	--	SEQM	6.6	o,p
12/31/2003	--	168.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
02/23/2004	--	168.01	14.35	0.01	153.67	--	--	--	--	--	--	--	--	--	
3/18/2004	--	168.01	--	0.09	--	--	--	--	--	--	--	--	--	--	
4/13/2004	--	168.01	--	0.02	--	--	--	--	--	--	--	--	--	--	
05/04/2004	--	168.01	19.58	0.02	148.45	--	--	--	--	--	--	--	--	--	
6/2/2004	--	168.01	--	0.05	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	168.01	--	0.11	--	--	--	--	--	--	--	--	--	--	
08/04/2004	--	168.01	22.05	0.05	146.00	--	--	--	--	--	--	--	--	--	
09/22/2004	NP	168.01	21.28	0.06	146.78	--	--	--	--	--	--	--	--	--	
10/26/2004	--	168.01	--	0.01	--	--	--	--	--	--	--	--	--	--	
11/10/2004	--	168.01	18.56	0.02	149.47	--	--	--	--	--	--	--	--	--	
12/27/2004	--	168.01	--	0.03	--	--	--	--	--	--	--	--	--	--	
01/13/2005	--	168.01	12.51	0.01	155.51	--	--	--	--	--	--	--	--	--	
02/15/2005	--	168.01	15.24	0.03	152.79	--	--	--	--	--	--	--	--	--	
03/07/2005	--	168.01	11.90	0.02	156.13	--	--	--	--	--	--	--	--	--	
4/29/2005	--	168.01	--	0.03	--	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
RW-1 Cont.															
05/16/2005	--	168.01	14.39	0.02	153.64	--	--	--	--	--	--	--	--	--	j
6/21/2005	--	168.01	--	0.03	--	--	--	--	--	--	--	--	--	--	
7/7/2005	--	168.01	--	0.06	--	--	--	--	--	--	--	--	--	--	
08/17/2005	--	168.01	19.91	0.03	148.12	--	--	--	--	--	--	--	--	--	j
9/6/2005	--	168.01	--	0.03	--	--	--	--	--	--	--	--	--	--	
10/4/2005	--	168.01	--	0.07	--	--	--	--	--	--	--	--	--	--	
11/18/2005	--	168.01	20.36	0.07	147.71	--	--	--	--	--	--	--	--	--	b, j
12/30/2005	--	168.01	--	0.04	--	--	--	--	--	--	--	--	--	--	
1/24/2006	--	168.01	--	0.01	--	--	--	--	--	--	--	--	--	--	
02/07/2006	--	168.01	12.87	0.01	155.15	--	--	--	--	--	--	--	--	--	j
3/30/2006	--	168.01	--	0.02	--	--	--	--	--	--	--	--	--	--	
5/19/2006	--	168.01	15.87	0.04	152.17	--	--	--	--	--	--	--	--	--	b
8/23/2006	--	168.01	20.50	0.07	147.56	--	--	--	--	--	--	--	--	--	b, j
11/15/2006	--	168.01	20.52	0.07	147.54	--	--	--	--	--	--	--	--	--	b, j
2/14/2007	--	168.01	15.44	0.04	152.60	--	--	--	--	--	--	--	--	--	b, j
5/22/2007	--	168.01	17.78	SHEEN	150.23	--	--	--	--	--	--	--	--	--	j, l
8/15/2007	--	168.01	20.80	0.02	147.23	--	--	--	--	--	--	--	--	--	b, j
11/8/2007	--	168.01	20.32	0.01	147.70	--	--	--	--	--	--	--	--	--	b, j

SYMBOLS AND ABBREVIATIONS:

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

FOOTNOTES:

a = Casing elevations surveyed to the nearest 0.01 ft MSL.
b = GWE adjusted assuming a specific gravity of 0.75 for free product (FP).
c = Blind duplicate.
d = A copy of the documentation for this data is included in Alisto report 10-024-10-001.
e = Well inaccessible.
f = Travel blank.
g = EPA Methods 8020/8260 used.
h = Unable to sample.
i = A copy of the documentation for this data can be found in Blaine Tech Services report 010607-M-3. MTBE data for the January 13, 1993 and April 23, 1993 sampling events has been destroyed. No chromatograms could be located for MTBE data from wells MW-5, MW-6, and MW-7, sampled on October 21, 1993.
j = Well not sampled due to presence of SPH and nature of the product.
k = Could not purge and sample; waste drum full.
l = Value represents the depth to product. Unable to determine depth to water, product disabled the interface probe.
m = Discrete p[ak @ C6-7.
n = TPH-g, BTEX, and MTBE analyzed by EPA method 8260 B beginning on 1st quarter 2003 sampling event (1/29/03).
o = Groundwater samples are not collected during FP bailing event.
p = Well not included in the monthly FP bailing program.
q = Well not sampled in November 2003 due to the presence of a pile of gravel dumped over the well box.
r = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
s = MW-7 TOC elevation raised +0.47 ft during well repair on January 20, 2004.
t = Sheen in well.
u = Calib. verif. is within method limits but outside contract limits.
v = GRO result partly due to individual peak(s) in quantitation range.

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 #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
5/19/2006	<6,000	<400	86	<10	<10	<10	<10	<10	
MW-2									
1/29/2003	<4000	<2000	820	<50	<50	<50	<50	<50	
5/22/2003	<10000	<2000	1,000	<50	<50	<50	--	--	
7/28/2003	<20000	<4000	1,700	<100	<100	<100	<100	<100	a
11/18/2003	<5,000	<1,000	500	<25	<25	<25	--	--	
02/23/2004	<25,000	<5,000	790	<120	<120	<120	<120	<120	
05/04/2004	<50,000	<10,000	780	<250	<250	<250	<250	<250	
08/04/2004	<50,000	<10,000	430	<250	<250	<250	<250	<250	
11/10/2004	<5,000	<1,000	310	<25	<25	<25	<25	<25	
02/15/2005	<20,000	<4,000	690	<100	<100	<100	<100	<100	
05/16/2005	<50,000	<10,000	560	<250	<250	<250	<250	<250	
08/17/2005	<20,000	<4,000	480	<100	<100	<100	<100	<100	
11/18/2005	<20,000	<4,000	340	<100	<100	<100	<100	<100	b
02/07/2006	<60,000	<4,000	440	<100	<100	<100	160	<100	
5/19/2006	<60,000	<4,000	430	<100	<100	<100	<100	<100	b
8/23/2006	<60,000	<4,000	480	<100	<100	<100	<100	<100	
11/15/2006	<60,000	<4,000	400	<100	<100	<100	<100	<100	
2/14/2007	<60,000	<4,000	810	<100	<100	<100	<100	<100	
5/22/2007	<150,000	<10,000	1,000	<250	<250	<250	<250	<250	
8/15/2007	<30,000	2,400	260	<50	<50	<50	<50	<50	b
11/8/2007	<30,000	2,800	240	<50	<50	<50	<50	<50	
MW-3									
1/29/2003	<40	<20	0.76	<50	<50	<50	<50	<50	
02/23/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/15/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	u
MW-4									
1/29/2003	<40	<20	66	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
02/23/2004	<100	<20	65	<0.50	<0.50	<0.50	<0.50	<0.50	
02/15/2005	<100	<20	62	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	29	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	61	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5									
1/29/2003	<400	<200	82	<5.0	<5.0	<5.0	<5.0	<5.0	
5/22/2003	<10000	<2000	<50	<50	<50	<50	--	--	
7/28/2003	<2000	<400	120	<10	<10	<10	<10	<10	
11/18/2003	--	--	--	--	--	--	--	--	Well inaccessible
02/23/2004	<5,000	<1,000	100	<25	<25	<25	38	<25	
05/04/2004	<5,000	<1,000	42	<25	<25	<25	<25	<25	
08/04/2004	<5,000	<1,000	390	<25	<25	<25	<25	<25	
11/10/2004	<1,000	<200	530	<5.0	<5.0	5.5	<5.0	<5.0	
02/15/2005	<1,000	<200	260	<5.0	<5.0	<5.0	<5.0	<5.0	
05/16/2005	<1,000	<200	370	<5.0	<5.0	<5.0	<5.0	<5.0	
08/17/2005	<1,000	<200	51	<5.0	<5.0	<5.0	<5.0	<5.0	
11/18/2005	<1,000	<200	340	<5.0	<5.0	<5.0	<5.0	<5.0	b
02/07/2006	<3,000	<200	200	<5.0	<5.0	<5.0	<5.0	<5.0	
5/19/2006	<3,000	<200	44	<5.0	<5.0	<5.0	<5.0	<5.0	b
8/23/2006	<3,000	<200	230	<5.0	<5.0	<5.0	<5.0	<5.0	
11/15/2006	<1,500	<100	490	<2.5	<2.5	4.2	<2.5	<2.5	
2/14/2007	<1,500	<100	420	<2.5	<2.5	3.6	<2.5	<2.5	
5/22/2007	<1,500	<100	26	<2.5	<2.5	<2.5	<2.5	<2.5	
8/15/2007	<6,000	<400	280	<10	<10	<10	<10	<10	
11/8/2007	<1,500	310	270	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-6									
05/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7									

Table 2. Summary of Fuel Additives Analytical Data
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7 Cont.									
02/07/2006	<3,000	<200	270	<5.0	<5.0	<5.0	<5.0	<5.0	
2/14/2007	<3,000	<200	740	<5.0	<5.0	9.6	<5.0	<5.0	
MW-8									
1/29/2003	<4000	<2000	<500	<50	<50	<50	<50	<50	
5/22/2003	<5000	<1000	--	<25	<25	<25	--	--	
7/28/2003	<20000	<4000	2,100	<100	<100	<100	<100	<100	
11/18/2003	<2,000	<400	1,700	<10	<10	20	--	--	a,b
02/23/2004	<10,000	<2,000	110	<50	<50	<50	<50	<50	
05/04/2004	<5,000	<1,000	2,000	<25	<25	33	<25	<25	
11/10/2004	<5,000	<1,000	74	<25	<25	<25	<25	<25	
02/15/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
05/16/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
08/17/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
11/18/2005	<10,000	<2,000	140	<50	<50	<50	<50	<50	b
02/07/2006	<3,000	<200	7.5	<5.0	<5.0	<5.0	<5.0	<5.0	
5/19/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	b
8/23/2006	<15,000	<1,000	82	<25	<25	<25	<25	<25	
11/15/2006	<15,000	<1,000	110	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	82	<25	<25	<25	<25	<25	
5/22/2007	<6,000	<400	11	<10	<10	<10	<10	<10	
8/15/2007	<6,000	<400	28	<10	<10	<10	<10	<10	
11/8/2007	<15,000	<1,000	27	<25	<25	<25	<25	<25	
MW-9									
5/22/2003	<10000	<2000	<50	<50	<50	<50	--	--	
7/28/2003	<100000	<20000	<500	<500	<500	<500	<500	<500	
11/18/2003	<2,000	<400	45	<10	<10	<10	--	--	a,b
02/23/2004	<50,000	<10,000	<250	<250	<250	<250	<250	<250	
05/04/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/10/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
02/15/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	

Table 2. Summary of Fuel Additives Analytical Data
Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
05/16/2005	<2,000	<400	<10	<10	<10	<10	<10	<10	
08/17/2005	<2,500	<500	<12	<12	<12	<12	<12	<12	
11/18/2005	<1,000	<200	19	<5.0	<5.0	<5.0	<5.0	<5.0	b
02/07/2006	<3,000	<200	<5.0	<5.0	<5.0	5.4	<5.0	<5.0	
8/23/2006	<30,000	<2,000	<50	<50	<50	<50	<50	<50	
11/15/2006	<15,000	<1,000	26	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
5/22/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
8/15/2007	<1,500	<100	27	<2.5	<2.5	<2.5	<2.5	<2.5	b
11/8/2007	<3,000	<200	52	<5.0	<5.0	<5.0	<5.0	<5.0	
MW-10									
5/22/2003	<10000	<2000	300	<50	<50	<50	--	--	
11/18/2003	<10,000	<2,000	<50	<50	<50	<50	--	--	b
02/23/2004	<20,000	<4,000	180	<100	<100	<100	<100	<100	
05/04/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/10/2004	<5,000	<1,000	230	<25	<25	<25	<25	<25	b
02/15/2005	<10,000	<2,000	77	<50	<50	<50	<50	<50	
05/16/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
08/17/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
11/18/2005	<2,500	<500	16	<12	<12	<12	<12	<12	b
02/07/2006	<15,000	<1,000	73	<25	<25	<25	<25	<25	
5/19/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	b
8/23/2006	<6,000	<400	<10	<10	<10	<10	<10	<10	
11/15/2006	<6,000	<400	54	<10	<10	<10	<10	<10	
2/14/2007	<6,000	<400	120	<10	<10	<10	<10	<25	
5/22/2007	<6,000	<400	15	<10	<10	<10	<10	<10	
8/15/2007	<6,000	<400	<10	<10	<10	<10	<10	<10	
11/8/2007	<3,000	<200	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	
RW-1									
11/18/2003	<10,000	11,000	6,100	<50	<50	160	--	--	a,b

SYMBOLS AND ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above specified laboratory reporting limit

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

µg/L = Micrograms per Liter

FOOTNOTES:

a = The result for TBA was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria

b = The continuing calibration verification for ethanol was outside of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be useful for its intended purpose.

NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

**Table 3. Historical Ground-Water Flow Direction and Gradient
Station #11132, 3201 35th Ave, Oakland, CA**

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
5/19/2006	South	0.003 to 0.005
8/23/2006	Southwest	0.01
11/15/2006	South	0.004
2/14/2007	Southeast	0.01
5/22/2007	South	0.005
8/15/2007	South-Southwest	0.008
11/8/2007	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.

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
MW-1	7/9/1990	0.22	2.000	2.000
MW-1	12/21/1990	0.58	2.000	4.000
MW-1	3/7/1991	0.00	--	4.000
MW-1	6/27/1991	0.18	2.000	6.000
MW-1	9/27/1991	0.27	2.000	8.000
MW-1	12/18/1991	0.28	2.000	10.000
MW-1	4/1/1991	0.15	2.000	12.000
MW-1	7/3/1992	0.27	2.000	14.000
MW-1	10/5/1992	0.24	2.000	16.000
MW-1	1/13/1993	0.24	2.000	18.000
MW-1	4/23/1993	0.42	2.000	20.000
MW-1	7/12/1993	0.49	--	20.000
MW-1	10/21/1993	1.09	2.000	22.000
MW-1	1/21/1994	0.76	--	22.000
MW-1	4/20/1994	1.80	2.000	24.000
MW-1	8/1/1994	0.35	--	24.000
MW-1	1/26/1995	1.10	3.000	27.000
MW-1	6/8/95-6/28/95	1.25	0.700	27.700
MW-1	8/22/1995	0.85	0.150	27.850
MW-1	10/30/95-12/23/95	0.69	0.110	27.960
MW-1	1/25/96-2/16/95	1.40	1.080	29.040
MW-1	4/19/1996	1.22	0.750	29.790
MW-1	7/23/1996	0.89	0.000	29.790
MW-1	9/4/1996	--	0.350	30.140
MW-1	11/11/1996	0.89	0.980	31.120
MW-1	1/21/1997	0.90	0.200	31.320
MW-1	4/29/1997	0.85	0.250	31.570
MW-1	8/21/1997	--	0.150	31.720
MW-1	11/2/97-12/9/97	0.87	2.030	33.750
MW-1	2/3/1998	0.32	0.250	34.000
MW-1	2/4/1998	--	--	34.000
MW-1	5/28/1998	0.17	--	34.000
MW-1	12/30/1998	0.08	0.020	34.020
MW-1	2/2/1999	0.03	0.010	34.030
MW-1	5/10/1999	0.03	0.010	34.040
MW-1	8/24/1999	0.06	0.010	34.050
MW-1	11/3/1999	0.36	0.050	34.100
MW-1	3/1/2000	0.23	*	34.100
MW-1	4/21/2000	0.33	0.070	34.170
MW-1	7/31/2000	0.53	0.130	34.300
MW-1	11/20/2000	0.37	0.500	34.800
MW-1	2/18/2001	0.13	0.050	34.850
MW-1	2/26/2001	0.15	0.150	35.000
MW-1	6/7/2001	0.00	--	35.000
MW-1	9/5/2001	0.35	--	35.000
MW-1	11/30/2001	0.41	0.260	35.260
MW-1	12/6/2001	0.27	0.040	35.300
MW-1	2/20/2002	0.15	0.020	35.320
MW-1	6/20/2002	0.34	0.070	35.390
MW-1	9/11/2002	0.40	0.060	35.450
MW-1	11/12/2002	0.37	0.060	35.510
MW-1	1/29/2003	0.30	0.320	35.830

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
MW-1	5/22/2003	0.20	0.140	35.970
MW-1	6/24/2003	0.35	0.070	36.040
MW-1	7/28/2003	0.35	0.080	36.050
MW-1	8/12/2003	0.23	0.040	36.090
MW-1	9/12/2003	0.24	0.040	36.130
MW-1	10/3/2003	0.23	0.040	36.170
MW-1	11/18/2003	0.25	0.040	36.210
MW-1	12/31/2003	0.15	0.020	36.230
MW-1	2/2/2004	0.15	0.020	36.250
MW-1	2/23/2004	0.09	0.030	36.280
MW-1	3/18/2004	0.09	0.010	36.290
MW-1	4/13/2004	0.24	0.040	36.330
MW-1	5/4/2004	0.16	0.030	36.360
MW-1	6/2/2004	0.08	0.010	36.370
MW-1	7/2/2004	0.28	0.040	36.410
MW-1	8/4/2004	0.10	0.080	36.490
MW-1	9/22/2004	0.20	0.030	36.520
MW-1	10/26/2004	0.12	0.020	36.540
MW-1	11/10/2004	0.14	0.020	36.560
MW-1	12/27/2004	0.08	0.010	36.570
MW-1	1/13/2005	0.03	0.005	36.575
MW-1	2/15/2005	0.04	0.006	36.581
MW-1	3/7/2005	0.01	0.007	36.588
MW-1	4/29/2005	0.01	0.002	36.589
MW-1	5/16/2005	0.02	0.003	36.592
MW-1	6/21/2005	0.01	0.002	36.594
MW-1	7/7/2005	0.18	0.029	36.623
MW-1	8/17/2005	0.08	0.013	36.636
MW-1	9/6/2005	0.02	0.003	36.639
MW-1	10/4/2005	0.12	0.020	36.659
MW-1	9/6/2005	0.06	0.010	36.669
MW-1	12/30/2005	0.03	0.005	36.674
MW-1	1/24/2006	0.00	0.000	36.674
MW-1	2/7/2006	0.01	0.002	36.676
MW-1	3/30/2006	0.00	0.000	36.676
MW-1	4/21/2006	0.00	0.000	36.676
MW-1	5/19/2006	<0.01 (SHEEN)	0.000	36.676
MW-1	6/22/2006	0.04	0.006	36.682
MW-1	7/31/2006	0.04	0.006	36.688
MW-1	8/23/2006	0.14	0.022	36.710
MW-1	9/28/2006	0.35	0.056	36.766
MW-1	11/15/2006	0.18	--	36.766
MW-1	2/14/2007	0.17	*	36.766
MW-1	3/14/2007	0.04	****	36.766
MW-1	4/10/2007	0.15	****	36.766
MW-1	5/22/2007	0.01	****	36.766
MW-1	6/26/2007	0.05	****	36.766
MW-1	7/19/2007	0.00	--	36.766
MW-1	8/15/2007	0.01	2.0	38.766
MW-1	9/18/2007	0.10	2.0	40.766
MW-1	10/17/2007	0.01	4.0	44.766
MW-1	11/8/2007	0.01	3.0	47.766

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
MW-1	12/12/2007	0.01	1.5	49.266
MW-8	11/02/93-12/09/98	0.12	1.620	1.620
MW-8	9/5/2001	0.04	--	1.660
MW-8	8/12/2003	<0.01 (SHEEN)	--	1.660
MW-8	10/3/2003	<0.01 (SHEEN)	--	1.660
MW-8	11/18/2003	<0.01 (SHEEN)	--	1.660
MW-8	12/31/2003	<0.01 (SHEEN)	--	1.660
MW-8	2/2/2004	<0.01 (SHEEN)	--	1.660
MW-8	2/23/2004	<0.01 (SHEEN)	--	1.660
MW-8	3/18/2004	<0.01 (SHEEN)	--	1.660
MW-8	4/13/2004	<0.01 (SHEEN)	--	1.660
MW-8	5/4/2004	<0.01 (SHEEN)	--	1.660
MW-8	6/2/2004	<0.01 (SHEEN)	--	1.660
MW-8	7/2/2004	--	--	1.660
MW-8	8/4/2004	0.05	0.110	1.770
MW-8	9/22/2004	--	--	1.770
MW-8	10/26/2004	--	--	1.770
MW-8	11/10/2004	--	--	1.770
MW-8	12/26/2004	--	--	1.770
MW-8	1/13/2005	--	--	1.770
MW-8	2/15/2005	--	--	1.770
MW-8	3/7/2005	--	--	1.770
MW-8	4/29/2005	--	--	1.770
MW-8	5/16/2005	--	--	1.770
MW-8	6/21/2005	--	--	1.770
MW-8	7/7/2005	--	--	1.770
MW-8	8/17/2005	--	--	1.770
MW-8	9/6/2005	--	--	1.770
MW-8	1/24/2006	--	--	1.770
MW-8	2/7/2006	--	--	1.770
MW-8	3/30/2006	--	--	1.770
MW-8	4/21/2006	--	--	1.770
MW-8	5/19/2006	<0.01 (Sheen)	--	1.770
MW-8	6/22/2006	--	--	1.770
MW-8	7/31/2006	--	--	1.770
MW-8	8/23/2006	--	--	1.770
MW-8	9/28/2006	--	--	1.770
MW-8	11/15/2006	<0.01 (Sheen)	--	1.770
MW-8	2/14/2007	<0.01 (Sheen)	--	1.770
MW-8	5/22/2007	<0.01 (Sheen)	--	1.770
MW-8	6/26/2007	--	--	1.770
MW-8	7/19/2007	--	--	1.770
MW-8	8/15/2007	<0.01 (Sheen)	--	1.770
MW-8	9/18/2007	--	--	1.770
MW-8	10/17/2007	--	--	1.770
MW-8	11/8/2007	--	--	1.770
MW-8	12/12/2007	--	--	1.770
MW-9	11/2/93-4/29/97	0.10	<0.1	0.880
MW-9	11/5/1997	0.01	<0.1	0.880
MW-9	1/29/2003	0.10	0.190	1.070
MW-9	6/24/2003	NM	NM	1.070

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
MW-9	7/28/2003	<0.01 (SHEEN)	--	1.070
MW-9	8/12/2003	<0.01 (SHEEN)	--	1.070
MW-9	9/12/2003	<0.01 (SHEEN)	--	1.070
MW-9	10/3/2003	0.01	0.002	1.072
MW-9	11/18/2003	<0.01 (SHEEN)	--	1.072
MW-9	12/31/2003	<0.01 (SHEEN)	--	1.072
MW-9	2/2/2004	<0.01 (SHEEN)	--	1.072
MW-9	2/23/2004	<0.01 (SHEEN)	--	1.072
MW-9	3/18/2004	<0.01 (SHEEN)	--	1.072
MW-9	4/13/2004	<0.01 (SHEEN)	--	1.072
MW-9	5/4/2004	<0.01 (SHEEN)	--	1.072
MW-9	6/2/2004	<0.01 (SHEEN)	--	1.072
MW-9	7/2/2004	--	--	1.072
MW-9	8/4/2004	0.03	0.053	1.125
MW-9	9/22/2004	--	--	1.125
MW-9	10/26/2004	--	--	1.125
MW-9	11/10/2004	--	--	1.125
MW-9	12/27/2004	--	--	1.125
MW-9	1/13/2005	--	--	1.125
MW-9	2/15/2005	--	--	1.125
MW-9	3/7/2005	--	--	1.125
MW-9	4/29/2005	--	--	1.125
MW-9	5/16/2005	--	--	1.125
MW-9	6/21/2005	--	--	1.125
MW-9	7/7/2005	--	--	1.125
MW-9	8/17/2005	--	--	1.125
MW-9	9/6/2005	--	--	1.125
MW-9	1/24/2006	--	--	1.125
MW-9	2/7/2006	SHEEN	--	1.125
MW-9	3/30/2006	--	--	1.125
MW-9	4/21/2006	--	--	1.125
MW-9	5/19/2006	NM	--	1.125
MW-9	6/22/2006	--	--	1.125
MW-9	7/31/2006	--	--	1.120
MW-9	8/23/2006	--	--	1.120
MW-9	9/28/2006	--	--	1.120
MW-9	11/15/2006	<0.01 (Sheen)	--	1.120
MW-9	2/14/2007	<0.01 (Sheen)	--	1.120
MW-9	5/22/2007	<0.01 (Sheen)	--	1.120
MW-9	6/26/2007	--	--	1.120
MW-9	7/19/2007	--	--	1.120
MW-9	8/15/2007	<0.01 (Sheen)	--	1.120
MW-9	9/18/2007	--	--	1.120
MW-9	10/17/2007	--	--	1.120
MW-9	11/8/2007	--	--	1.120
MW-9	12/12/2007	--	--	1.120
MW-10	9/7/93-7/23/96	--	10.520	10.520
MW-10	9/4/1996	0.76	0.100	10.620
MW-10	11/11/1996	--	0.200	10.820
MW-10	1/21/1997	--	<0.03	10.850
MW-10	4/29/1997	--	0.040	10.890
MW-10	4/29/1997	--	0.040	10.930

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
MW-10	12/2/1997	0.03	<0.1	10.930
MW-10	2/3/1998	--	<0.1	10.930
MW-10	9/5/2001	0.01	--	10.930
MW-10	11/12/2002	0.07	0.010	10.940
MW-10	1/29/2003	0.03	0.030	10.970
MW-10	6/24/2003	0.04	0.010	10.980
MW-10	7/28/2003	0.04	0.020	11.000
MW-10	8/12/2003	<0.01 (SHEEN)	--	11.000
MW-10	10/3/2003	<0.01 (SHEEN)	--	11.000
MW-10	11/18/2003	<0.01 (SHEEN)	--	11.000
MW-10	12/31/2003	<0.01 (SHEEN)	--	11.000
MW-10	2/2/2004	<0.01 (SHEEN)	--	11.000
MW-10	2/23/2004	<0.01 (SHEEN)	--	11.000
MW-10	3/18/2004	<0.01 (SHEEN)	--	11.000
MW-10	4/13/2004	<0.01 (SHEEN)	--	11.000
MW-10	5/4/2004	<0.01 (SHEEN)	--	11.000
MW-10	6/2/2004	<0.01 (SHEEN)	--	11.000
MW-10	7/2/2004	<0.01 (SHEEN)	--	11.000
MW-10	8/4/2004	0.08	0.110	11.110
MW-10	9/22/2004	--	--	11.110
MW-10	10/26/2004	--	--	11.110
MW-10	11/10/2004	--	--	11.110
MW-10	12/27/2004	--	--	11.110
MW-10	1/13/2005	<0.01 (SHEEN)	--	11.110
MW-10	2/15/2005	--	--	11.110
MW-10	3/7/2005	--	--	11.110
MW-10	4/29/2005	--	--	11.110
MW-10	5/16/2005	--	--	11.110
MW-10	6/21/2005	--	--	11.110
MW-10	7/7/2005	--	--	11.110
MW-10	8/17/2005	--	--	11.110
MW-10	9/6/2005	--	--	11.110
MW-10	1/24/2006	--	--	11.110
MW-10	2/7/2006	SHEEN	--	11.110
MW-10	3/30/2006	--	--	11.110
MW-10	4/21/2006	--	--	11.110
MW-10	5/19/2006	<0.01 (SHEEN)	--	11.110
MW-10	6/22/2006	--	--	11.110
MW-10	7/31/2006	--	--	11.110
MW-10	8/23/2006	--	--	11.110
MW-10	9/28/2006	--	--	11.110
MW-10	11/15/2006	<0.01 (Sheen)	--	11.110
MW-10	2/14/2007	<0.01 (Sheen)	--	11.110
MW-10	5/22/2007	<0.01 (Sheen)	--	11.110
MW-10	6/26/2007	<0.01 (Sheen)	--	11.110
MW-10	7/19/2007	--	--	11.110
MW-10	8/15/2007	<0.01 (Sheen)	--	11.110
MW-10	9/18/2007	--	--	11.110
MW-10	10/17/2007	--	--	11.110
MW-10	11/8/2007	--	--	11.110
MW-10	12/12/2007	--	--	11.110
RW-1	9/5/2001	0.02	--	0.000

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
RW-1	6/20/2002	**	--	0.000
RW-1	9/11/2002	0.03	0.040	0.040
RW-1	11/12/2002	0.02	0.030	0.070
RW-1	1/29/2003	0.04	0.070	0.140
RW-1	6/24/2003	0.07	0.040	0.180
RW-1	7/28/2003	0.04	0.020	0.200
RW-1	8/12/2003	<0.01 (SHEEN)	--	0.200
RW-1	9/12/2003	0.07	0.100	0.300
RW-1	10/3/2003	0.03	0.040	0.340
RW-1	11/18/2003	<0.01 (SHEEN)	--	0.340
RW-1	12/31/2003	<0.01 (SHEEN)	--	0.340
RW-1	2/23/2004	0.01	0.005	0.345
RW-1	3/18/2004	0.09	0.120	0.465
RW-1	4/13/2004	0.02	0.030	0.495
RW-1	5/4/2004	0.02	0.030	0.525
RW-1	6/2/2004	0.05	0.020	0.545
RW-1	7/2/2004	0.11	0.162	0.707
RW-1	8/4/2004	0.05	0.159	0.865
RW-1	9/22/2004	0.06	0.088	0.953
RW-1	10/26/2004	0.01	0.010	0.963
RW-1	11/10/2004	0.02	0.030	0.993
RW-1	12/27/2004	0.03	0.010	1.003
RW-1	1/13/2005	0.01	0.004	1.007
RW-1	2/15/2005	0.03	0.044	1.051
RW-1	3/7/2005	0.02	0.029	1.080
RW-1	4/29/2005	0.03	0.044	1.124
RW-1	5/16/2005	0.02	0.029	1.154
RW-1	6/21/2005	0.03	0.013	1.167
RW-1	7/7/2005	0.06	0.092	1.259
RW-1	8/17/2005	0.03	0.044	1.304
RW-1	9/6/2005	0.03	0.044	1.348
RW-1	10/4/2005	0.07	0.100	1.448
RW-1	11/18/2005	0.07	0.010	1.458
RW-1	12/30/2005	0.04	0.006	1.464
RW-1	1/24/2006	0.01	0.015	1.479
RW-1	2/7/2006	0.01	0.015	1.494
RW-1	3/30/2006	0.02	0.030	1.524
RW-1	4/21/2006	0.00	0.000	1.524
RW-1	5/19/2006	0.04	0.058	1.582
RW-1	6/22/2006	0.03	0.044	1.626
RW-1	7/31/2006	0.12	0.176	1.802
RW-1	8/23/2006	0.07	0.103	1.905
RW-1	9/28/2006	0.07	0.103	2.008
RW-1	11/15/2006	0.07	--	2.008
RW-1	2/14/2007	0.04	*	2.008
RW-1	3/14/2007	0.05	****	2.008
RW-1	4/10/2007	0.10	****	2.008
RW-1	5/22/2007	**	****	2.008
RW-1	6/26/2007	0.05	****	2.008
RW-1	7/19/2007	<0.01 (Sheen)	--	2.008
RW-1	8/15/2007	0.02	2.0	4.008
RW-1	9/18/2007	0.03	2.0	6.008

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
RW-1	10/17/2007	0.01	4.0	10.008
RW-1	11/8/2007	0.01	2.5	12.508
RW-1	12/12/2007	0.01	2.5	15.008
Free Product Removed this Quarter =				17.500
Total Free Product =				78.274

NM = Unable to gauge free product thickness or remove product because the well was inaccessible.

* No hazardous waste drum on-site or drum was full, therefore no product was removed.

** Indeterminate thickness of product. The nature of product is unknown, very viscous.

*** Data prior to 1998 is incomplete, and amounts removed are estimates based on quarter reports from the previous consultants.

**** Absorbent socks used to collect product. Unknown amount of product recovered.

The data within this table collected prior to June 2006 was provided to BAI by RM and their previous consultants. BAI has not verified the accuracy of this information.

Table 5. Mobile DPE Event Extraction Well Data
Former BP Service Station #11132, 3201 35th Avenue, Oakland, California

Extraction Well	Cumulative Testing Time	Depth to Water	Drawdown	Applied System Vacuum	Air Flow Rate	Volume of Water Pumped		Photo-Ionization Detector Readings	
						(cumulative gal)	(gpm)*	Influent (ppm)	Effluent (ppm)
MW-1 Screen Interval 10-45 ft bgs Stinger set at 40 ft bgs (~18.5 ft below water surface)	(hours)	(feet)	(feet)	(inches Hg)	(SCFM)	(cumulative gal)	(gpm)*	(ppm)	(ppm)
	0	21.43	---	---	---	0.00	0.00	---	---
	Startup	40.00	-18.57	25.0	46.51	0.00	0.00	917	6.0
	1	40.00	-18.57	25.0	36.20	0.00	0.00	848	3.0
	2	40.00	-18.57	25.0	51.57	70.00	1.17	557	4.0
	3	40.00	-18.57	25.0	43.35	140.00	1.17	405	3.0
	4	40.00	-18.57	25.0	51.06	280.00	2.33	343	4.0
	5	40.00	-18.57	25.0	48.68	280.00	0.00	297	3.0
	6	40.00	-18.57	25.0	44.52	420.00	2.33	238	2.0
	7	40.00	-18.57	25.0	43.97	420.00	0.00	235	2.0
	8	40.00	-18.57	25.0	46.44	550.00	2.17	150	1.0
	9	40.00	-18.57	25.0	46.87	620.00	1.17	177	1.0
10	40.00	-18.57	25.0	46.39	690.00	1.17	178	1.0	
11	40.00	-18.57	25.0	49.05	760.00	1.17	175	1.0	
Test terminated	12	40.00	-18.57	25.0	46.94	860.00	1.67	174	1.0
RW-1 Screen Interval 20-40 ft bgs Stinger set at 39 ft bgs (~18.5 ft below water surface)	(hours)	(feet)	(feet)	(inches Hg)	(SCFM)	(cumulative gal)	(gpm)*	(ppm)	(ppm)
	0	20.59	---	---	---	0.00	0.00	---	---
	Startup	33.00	-12.41	25.0	54.06	0.00	0.00	225	5.0
	1	39.00	-18.41	25.0	51.75	0.00	0.00	121	5.0
	2	39.00	-18.41	25.0	51.41	90.00	1.50	125	5.0
	3	39.00	-18.41	25.0	47.93	90.00	0.00	115	5.0
	4	39.00	-18.41	25.0	46.71	170.00	1.33	94.4	3.7
	5	39.00	-18.41	25.0	46.35	230.00	1.00	79.6	5.0
	6	39.00	-18.41	25.0	48.27	300.00	1.17	71.9	4.8
	7	39.00	-18.41	25.0	50.19	300.00	0.00	61	3.0
	8	39.00	-18.41	25.0	50.06	370.00	1.17	60	3.0
	9	39.00	-18.41	25.0	52.16	440.00	1.17	70	3.0
10	39.00	-18.41	25.0	53.10	440.00	0.00	69	3.0	
Test terminated	11	39.00	-18.41	25.0	52.64	530.00	1.50	60	3.0
MW-2 Screen Interval 10-35 ft bgs Stinger set at 30 ft bgs (~9.5 ft below water surface)	(hours)	(feet)	(feet)	(inches Hg)	(SCFM)	(cumulative gal)	(gpm)*	(ppm)	(ppm)
	0	20.61	---	---	---	0.00	0.00	---	---
	Startup	30.00	-9.39	25.0	40.81	0.00	0.00	150	0.0
	1	30.00	-9.39	25.0	41.54	0.00	0.00	335	3.0
	2	30.00	-9.39	25.0	53.54	70.00	1.17	398	4.0
	3	30.00	-9.39	25.0	50.95	140.00	1.17	394	3.0
	4	30.00	-9.39	25.0	47.26	210.00	1.17	375	3.0
	5	30.00	-9.39	25.0	45.11	280.00	1.17	362	2.0
	6	30.00	-9.39	25.0	46.76	350.00	1.17	370	2.0
	7	30.00	-9.39	25.0	44.90	420.00	1.17	287	2.0
	8	30.00	-9.39	25.0	49.87	480.00	1.00	325	2.0
	9	30.00	-9.39	25.0	52.46	550.00	1.17	352	2.0
10	30.00	-9.39	25.0	52.03	620.00	1.17	355	2.0	
Test terminated	11	30.00	-9.39	25.0	54.48	700.00	1.33	370	2.0

Notes:

Depth to water values are calculated based on the estimated depth of the stinger

--- - Not Applicable

* - Estimated

**Table 6. Mobile DPE Event Observation Well Data
Former BP Service Station #11132, 3201 35th Avenue, Oakland, California**

MW-1 Extraction

Hours	Observation Wells															
	MW-2		MW-3		MW-4		MW-7		MW-8		MW-9		MW-10		RW-1	
	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW
0	0.00	20.26	0.00	18.94	0.00	21.73	0.00	20.46	0.00	18.13	0.00	18.24	0.00	19.13	0.00	19.88
1	NA	20.72	NA	19.50	-3.50	22.10	3.60	20.33	0.00	18.36	-3.20	18.53	-0.90	19.35	NA	20.32
2	NA	20.94	NA	19.74	-3.00	22.34	1.80	20.27	0.00	18.44	-2.40	18.75	-0.60	19.47	NA	20.48
3	NA	21.11	NA	19.90	-2.20	22.55	1.60	20.24	0.00	18.55	-1.40	18.95	-0.10	19.60	NA	20.85
4	NA	21.25	NA	19.95	-2.00	22.67	1.10	20.20	0.00	18.58	-1.00	19.05	-0.10	19.65	NA	NM
5	NA	21.19	NA	20.00	-0.20	22.75	0.00	20.14	0.00	18.61	-0.20	19.11	0.00	19.68	NA	NM
6	NA	21.26	NA	20.09	-0.20	22.83	0.20	20.16	0.00	18.66	0.00	19.20	0.00	19.73	NA	21.15
7	NA	21.32	NA	20.17	-0.20	22.90	0.40	20.17	0.00	18.69	0.00	19.27	0.00	19.77	NA	NM
8	NA	21.36	NA	20.21	0.00	22.94	0.20	20.18	0.00	18.73	0.00	19.31	0.00	19.79	NA	NM
9	NA	21.40	NA	20.28	0.00	22.98	0.00	20.19	0.00	18.76	0.00	19.36	0.00	19.82	NA	21.60
10	NA	21.43	NA	20.32	0.00	23.02	NM	NM	0.00	18.78	NM	19.41	NM	NM	NA	NM
11	NA	21.47	NA	20.37	0.00	23.06	0.00	20.21	0.00	18.84	0.00	19.46	0.00	19.89	NA	NM
12	NA	21.49	NA	20.40	0.00	23.08	0.00	20.23	0.00	18.96	0.00	19.49	0.00	19.91	NA	21.79
	Final DD:	-1.23	Final DD:	-1.46	Final DD:	-1.35	Final DD:	0.23	Final DD:	-0.83	Final DD:	-1.25	Final DD:	-0.78	Final DD:	-1.91
	Max. Vac:	NA	Max. Vac:	NA	Max. Vac:	-3.50	Max. Vac:	0.00	Max. Vac:	0.00	Max. Vac:	-3.20	Max. Vac:	-0.90	Max. Vac:	NA

RW-1 Extraction

Hours	Observation Wells															
	MW-1		MW-2		MW-3		MW-4		MW-7		MW-8		MW-9		MW-10	
	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW
0	0.00	21.84	0.00	20.53	NA	19.32	0.00	22.01	0.00	20.13	0.00	18.33	0.00	18.63	0.00	19.50
1	0.00	22.02	0.00	20.75	NA	19.34	0.00	22.10	0.00	20.17	0.00	18.42	0.00	18.69	-0.20	19.48
2	0.00	22.39	0.00	21.23	NA	19.47	-0.20	22.23	0.00	20.19	0.00	18.62	-0.40	18.88	-0.60	19.66
3	0.00	22.56	0.00	21.43	NA	19.57	-0.20	22.34	0.00	20.21	0.00	18.70	-0.20	19.00	-0.30	19.78
4	-0.10	21.54	-0.10	22.67	NA	19.70	-0.10	22.46	-0.20	20.25	0.00	18.84	0.00	19.11	0.00	19.86
5	-0.10	22.70	-0.20	21.59	NA	19.69	-0.30	22.49	-0.20	20.24	-0.20	18.82	-0.20	19.16	-0.20	19.90
6	-0.10	22.50	-0.20	21.61	NA	19.70	-0.30	NM	-0.40	20.23	-0.40	18.83	-0.30	19.18	-0.30	19.93
7	0.00	22.60	0.00	21.61	NA	19.71	0.10	22.48	0.00	20.21	0.00	18.82	0.00	19.16	0.00	19.90
8	0.00	22.74	0.00	21.62	NA	19.75	0.00	22.50	0.00	20.23	0.00	18.84	0.00	19.18	0.00	NM
9	0.00	22.76	0.00	21.65	NA	19.75	0.00	22.51	0.00	20.24	NM	NM	0.00	19.20	NM	NM
10	0.00	22.78	0.00	21.66	NA	19.78	0.00	22.52	0.00	20.26	NM	NM	0.00	19.22	NM	NM
11	0.00	22.80	0.00	21.68	NA	19.79	0.00	22.54	0.00	20.27	NM	NM	0.00	19.25	NM	NM
	Final DD:	-0.96	Final DD:	-1.15	Final DD:	-0.47	Final DD:	-0.53	Final DD:	-0.14	Final DD:	NM	Final DD:	-0.62	Final DD:	NM
	Max. Vac:	-0.10	Max. Vac:	-0.20	Max. Vac:	NA	Max. Vac:	-0.30	Max. Vac:	-0.40	Max. Vac:	-0.40	Max. Vac:	-0.40	Max. Vac:	-0.60

**Table 6. Mobile DPE Event Observation Well Data
Former BP Service Station #11132, 3201 35th Avenue, Oakland, California**

MW-2 Extraction

Hours	Observation Wells															
	MW-1		MW-3		MW-4		MW-7		MW-8		MW-9		MW-10		RW-1	
	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW	VAC	DTW
0	0.00	21.82	NA	19.37	0.00	22.05	0.00	20.22	0.00	18.44	0.00	18.70	0.00	19.53	NA	20.33
1	NA	22.06	NA	19.45	-0.30	22.20	NM	NM	NM	NM	-0.60	18.88	NM	NM	NA	20.49
2	NA	22.25	NA	19.54	-0.30	22.31	NM	NM	NM	NM	-0.40	19.05	NM	NM	NA	20.76
3	NA	22.39	NA	19.65	-0.70	22.39	-0.10	20.31	-2.30	18.89	-0.50	19.15	-0.10	20.00	NA	20.99
4	NA	22.47	NA	19.70	0.00	22.45	NM	NM	NM	NM	0.00	19.25	NM	NM	NA	21.16
5	NA	22.50	NA	19.75	0.00	22.50	NM	NM	NM	NM	0.00	19.28	NM	NM	NA	21.27
6	NA	22.53	NA	19.75	0.00	22.52	0.00	20.35	-0.10	19.10	0.00	19.30	0.00	20.24	NA	21.33
7	NA	22.56	NA	19.79	0.00	22.54	NM	NM	NM	NM	0.00	19.33	NM	NM	NA	21.40
8	NA	22.57	NA	19.80	0.00	22.55	NM	NM	NM	NM	0.00	19.35	NM	NM	NA	21.45
9	NA	22.60	NA	19.84	0.00	22.57	0.00	20.38	NM	NM	0.00	19.38	0.00	20.32	NA	21.49
10	NA	22.61	NA	19.86	0.00	22.58	0.00	20.40	NM	NM	0.00	19.40	0.00	20.36	NA	21.53
11	NA	22.62	NA	19.87	0.00	22.60	0.00	20.41	NM	NM	0.00	19.41	0.00	20.38	NA	21.55
	Final DD:	-0.80	Final DD:	-0.50	Final DD:	-0.55	Final DD:	-0.19	Final DD:	NM	Final DD:	-0.71	Final DD:	-0.85	Final DD:	-1.22
	Max. Vac:	NA	Max. Vac:	NA	Max. Vac:	-0.70	Max. Vac:	-0.10	Max. Vac:	-2.30	Max. Vac:	-0.60	Max. Vac:	-0.10	Max. Vac:	NA

Notes:

NA - Not available. Well head reportedly not able to be sealed.

NM - Not measured

VAC - Vacuum ("Hg)

DTW - Depth to Water (feet)

Final DD - Final observed drawdown at end of test (feet).

Max Vac - Maximum recorded vacuum during test ("Hg).

**Table 7. Mobile DPE Event Soil Vapor Data: Laboratory Analytical Results and Estimated Removal
Former BP Station #11132, 3201 35th Avenue, Oakland, California**

Extraction Well	Influent Air Sample		Air (average)		Influent Air Concentrations in ppmv							Removal Rate lbs/hr		Net removal		
			Flow Rate SCFM	Vacuum "Hg	PID Readings	Benzene	Toluene	Ethyl-benzene	Xylenes	GRO	MTBE	GRO	Benzene	GRO lbs	Benzene-lbs	
	Date	Time														
MW-1	11/26/2007	7:00	DPE Test Initiated on MW-1		917	---	---	---	---	---	---	---	---	---	---	---
MW-1	11/26/2007	8:05	36.20	25.00	848	2.4	8.3	7.6	30	1,000	1.2	0.572	0.0011	0.619	0.0012	
MW-1	11/26/2007	13:05	44.52	25.00	238	1.5	1.4	1.9	3.4	320	1.0	0.225	0.0008	1.125	0.0041	
MW-1	11/26/2007	18:35	49.05	25.00	175	0.97	0.82	1.1	2.0	280	0.75	0.217	0.0006	1.193	0.0032	
RW-1	11/27/2007	7:00	DPE Test Initiated on RW-1		225	---	---	---	---	---	---	---	---	---	---	---
RW-1	11/27/2007	8:05	51.75	25.00	121	0.36	0.74	1.2	1.8	200	0.35	0.164	0.0002	0.177	0.0002	
RW-1	11/27/2007	13:20	48.27	25.00	72	0.27	0.44	0.56	0.98	150	0.48	0.114	0.0002	0.601	0.0008	
RW-1	11/27/2007	18:00	52.64	25.00	60	0.27	0.38	0.45	0.71	82	0.58	0.068	0.0002	0.318	0.0008	
MW-2	11/28/2007	7:00	DPE Test Initiated on MW-2		---	---	---	---	---	---	---	---	---	---	---	---
MW-2	11/28/2007	8:05	41.54	25.00	335	3.9	1.1	1.1	3.3	620	0.7	0.407	0.0020	0.441	0.0022	
MW-2	11/28/2007	13:00	46.76	25.00	370	3.0	1.4	1.6	5.8	810	1.2	0.598	0.0017	2.942	0.0085	
MW-2	11/28/2007	18:05	54.48	25.00	370	2.4	1.1	1.6	5.5	1,500	1.0	1.291	0.0016	6.563	0.0082	
Totals and Averages for November 2007 DPE Event			47.25	25.00	339	1.67	1.74	1.90	5.9	551	0.81	0.406	0.0009	13.98	0.0292	

Estimated Total Gallons Removed:	2.25	0.0047
----------------------------------	------	--------

Sample calculations:

Removal rate calculation:

$$\text{lbs/hour} = ("x" \text{ ppm}/1,000,000) * ("Q" \text{ ft}^3/\text{min}) * ("M.W." \text{ lb}/\text{lb-mol}) * (60 \text{ min}/\text{hr}) * (\text{lb-mol}/379.5 \text{ ft}^3)$$

where:

"x" is influent concentration in ppmv

"Q" is the average flow rate in ft³/min

"M.W." is the molecular weight in lb/lb-mol (100.2 for TPH-G, 78.1 for benzene)

gallons removed = lbs / density (density for TPHg is 6.2 lbs/gallon)

Notes:

SCFM - Standard cubic feet per minute.

"Hg - Inches of Mercury.

ppmv - Parts per million by volume.

GRO - Total Petroleum Hydrocarbons - Gasoline Range Organics.

MTBE - Methyl-tert-butyl ether

--- - Not sampled and/or Not applicable

**Table 8. Mobile DPE Event Ground-Water Laboratory Analytical Results
Former BP Service Station #11132, 3201 35th Avenue, Oakland, California**

Laboratory Analytical Results (µg/l)											
Extraction Well	Collection Date and Time	GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	DIPE	ETBE	TBA	TAME
MW-1	11/26/07, 8:10	2,600	110	180	110	560	230	<2.5	<2.5	420	6.4
MW-1	11/26/07, 13:00	570	16	22	24	77	93	<0.50	<0.50	620	2.4
MW-1	11/26/07, 18:30	610	22	23	31	83	150	<0.50	<0.50	610	3.9
RW-1	11/27/07, 8:00	3,000	15	27	81	130	100	<0.50	<0.50	460	4.5
RW-1	11/27/07, 12:45	550	5.6	10	8	25	37	<0.50	<0.50	1,500	1.0
RW-1	11/27/07, 17:30	330	3.2	5.1	6.3	16	47	<0.50	<0.50	1,700	1.1
MW-2	11/28/07, 8:00	360	84	21	24	110	57	<0.50	<0.50	1,000	0.97
MW-2	11/28/07, 13:30	470	27	16	19	93	84	<0.50	<0.50	280	1.2
MW-2	11/28/07, 18:00	520	24	13	18	88	110	<0.50	<0.50	190	1.6

Notes:

GRO - Total Petroleum Hydrocarbons - Gasoline Range Organics.

MTBE - Methyl-tert-butyl ether

DIPE - Di-isopropyl ether

ETBE - Ethyl ter-butyl ether

TBA - Tert-Butyl alcohol

TAME - Tert-Amyl methyl ether

**Table 9. Mobile DPE Event Ground-Water Extraction Data and Estimated Removal
Former BP Service Station #11132, 3201 35th Avenue, Oakland, California**

Date Sampled	Extraction Well	Period		Estimated Volume Processed			Influent Concentration, µg/L		Net removal (lbs and gals)	
		Start Time	Sample Time	Initial Totalizer	Final Totalizer	Gallons Pumped	TPHg	Benzene	GRO	Benzene
11/26/2007	MW-1	7:00	8:10	31,650	31,650	0	2,600	110.0	0.0000 lbs	0.00000000 lbs
11/26/2007	MW-1	8:10	13:00	31,650	32,070	420	570	16.0	0.0020 lbs	0.00005595 lbs
11/26/2007	MW-1	13:00	18:30	32,070	32,510	440	610	22.0	0.0022 lbs	0.00008060 lbs
11/27/2007	RW-1	7:00	8:00	32,510	32,510	0	3,000	15.0	0.0000 lbs	0.00000000 lbs
11/27/2007	RW-1	8:00	12:45	32,510	32,810	300	550	5.6	0.0014 lbs	0.00001399 lbs
11/27/2007	RW-1	12:45	17:30	32,810	33,040	230	330	3.2	0.0006 lbs	0.00000613 lbs
11/28/2007	MW-2	7:00	8:00	33,040	33,040	0	360	84.0	0.0000 lbs	0.00000000 lbs
11/28/2007	MW-2	8:00	13:30	33,040	33,460	420	470	27.0	0.0016 lbs	0.00009442 lbs
11/28/2007	MW-2	13:30	18:00	33,460	33,740	280	520	24.0	0.0012 lbs	0.00000000 lbs
<i>Totals</i>						2,090			0.0091 lbs 0.0015 gals	0.000251 lbs 0.000040 gals

Sample calculations:

Removal rate calculation:

$$\text{lbs removed} = ("x" \mu\text{g/L}) * (\text{gram}/1,000,000 \mu\text{g}) * (\text{lb}/454 \text{ grams}) * (3.78 \text{ L}/\text{gal}) * (\text{gallons pumped})$$

where "x" is influent concentration

Gallons removal calculation (for TPH):

$$\text{gallons removed} = \text{lbs} * \text{gallon}/6.2 \text{ lbs (density for TPH-G is 6.2; density for MTBE is 6.2)}$$

Notes:

µg/L - micrograms per liter

GRO - total petroleum hydrocarbons - gasoline range organics

MTBE - methyl tertiary butyl ether

APPENDIX A

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



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

November 28, 2007

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

Re: Groundwater Sampling Data Package, BP Service Station No. 11132, located at
3201 35th Avenue, Oakland, California

General Information

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

Phone Number: (530) 676-6000

On-Site Supplier Representatives: David DeMello / Vince Zalutka / Josh Slater

Sampling Date: November 8, 2007

Arrival: 04:10 *Departure:* 08:10

Weather Conditions: Clear

Unusual Field Conditions: None

Scope of Work Performed: Quarterly monitoring and sampling

Variations from Work Scope: Sheen was noted in Wells MW-5, MW-8, and MW-10.

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include field data sheets, non-hazardous waste data form, chain of custody documentation, and certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

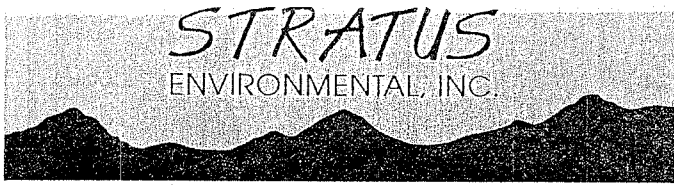
Jay R. Johnson, P.G.
Project Manager



Attachments:

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

cc: Mr. Paul Supple, BP/ARCO



Site Address: 3201 35TH AVE
 City OAKLAND, CA
 Sampled By D. DeMello, VZ, JS

Site Number: ARCO 11132
 Project No. _____
 Project PM _____
 Date Sampled 11-08-07

ORIGINAL

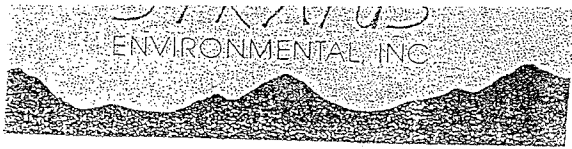
Site Contact Phone No. _____

Water Level Data					Purge Volume Calculations					Well Purge Method				Sample Record			Field Data
Well ID	Time	Depth to water feet	Top of Screen feet	Total Depth of Well feet	Casing Water Column (A)	Well Diameter (inches)	Multiplier Value (B)	Three Casing Volumes (gallons)	Actual Water Purged (gallons)	No Purge	Bailer	Pump	Other	DTW At Sample Time	Sample I.D.	Sample Time	Dissolved Oxygen (mg/L)
MW-1						2	.5	FREE PRODUCT	BAILED					-	MW-1	N/S	-
MW-2	0500	20.32		31.45	16.13	2	.5	5.57	5.5		X			23.65	MW-2	0745	1.21
MW-3	0450	19.27		34.30		2	.5							-	MW-3	-	-
MW-4	0430	21.86		39.68		2	.5							-	MW-4	-	-
MW-5	0525	18.55		31.40	12.85	2	.5	6.43	6.5		X			19.07	MW-5	0720	1.08
MW-6	0755	17.79		34.33		2	.5							-	MW-6	-	-
MW-7	0530	20.41		34.65		2	.5							-	MW-7	-	-
MW-8	0515	18.46		38.80	20.34	2	.5	10.67	10		X			18.73	MW-8	0645	1.29
MW-9	0445	18.70		27.50	8.80	2	.5	4.40	4.5		X			19.24	MW-9	0717	1.24
MW-10	0540	19.58		34.05	14.47	2	.5	7.24	7		X			20.35	MW-10	0610	1.47
RW-1						6	4.4	FREE PRODUCT	BAILED						RW-1	N/S	-
									Total	33.5g							

(A) Casing water Column
 Depth wtr. Depth to Bottom

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





Site Address 3201 35th AVE
 City Oakland, CA
 Site Sampled by D. D'Amelio, VZ, JS

Site Number ARCO 11192
 Project No. _____
 Project PM _____
 Date Sampled 11-08-07

ORIGINAL

Page 1 of 2

Well ID <u>Sheen MW-10 0610</u>					Well ID <u>Sheen MW-8 0645</u>				
purge start time <u>Bailr Odor</u>					purge start time <u>Bailr Odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>18.8</u>	<u>7.19</u>	<u>1144</u>	<u>Ø</u>	time	<u>18.6</u>	<u>7.10</u>	<u>1040</u>	<u>Ø</u>
time	<u>19.5</u>	<u>7.13</u>	<u>1206</u>	<u>3.5</u>	time	<u>19.5</u>	<u>7.09</u>	<u>1072</u>	<u>5</u>
time	<u>14.6</u>	<u>7.95</u>	<u>766</u>	<u>7</u>	time	<u>19.5</u>	<u>7.14</u>	<u>1138</u>	<u>10</u>
time					time				
purge stop time <u>ORP (116)</u>					purge stop time <u>ORP (89)</u>				
Well ID <u>Sheen MW-5 0720</u>					Well ID <u>MW-2 0745</u>				
purge start time <u>Bailr Odor</u>					purge start time <u>Bailr Odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>20.2</u>	<u>7.25</u>	<u>1114</u>	<u>Ø</u>	time	<u>20.5</u>	<u>7.06</u>	<u>1597</u>	<u>Ø</u>
time	<u>20.2</u>	<u>7.19</u>	<u>685</u>	<u>3</u>	time	<u>20.4</u>	<u>7.03</u>	<u>1851</u>	<u>5.5</u>
time	<u>20.1</u>	<u>7.23</u>	<u>1146</u>	<u>6.5</u>	time				
time					time				
purge stop time <u>ORP (128)</u>					purge stop time <u>ORP (141)</u>				
Well ID					Well ID				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				
Well ID					Well ID				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				



Site Address 3201 35th Ave
 City OAKLAND, CA
 Site Sampled by D. DeMello, VZ, JS

Site Number ARCO 11132
 Project No. _____
 Project PM _____
 Date Sampled 11-08-07

ORIGINAL

Pg 2 of 2

Well ID <u>MW-9 0717</u>					Well ID				
purge start time <u>Bailer Odor</u>					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>19.9</u>	<u>7.14</u>	<u>939</u>	<u>2</u>	time				
time	<u>19.1</u>	<u>7.47</u>	<u>954</u>	<u>4.5</u>	time				
time					time				
time					time				
purge stop time <u>ORP 41</u>					purge stop time				
Well ID					Well ID				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				
Well ID					Well ID				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				
Well ID					Well ID				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				

ORIGINAL

NO. 665085

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

BP WEST COAST PRODUCTS LLC ARCO *
 NAME
 P.O. BOX 80249
 ADDRESS
 RANCHO SANTA MARGARITA
 CA 92688
 CITY, STATE, ZIP

EPA I.D. NO.

NOT REQUIRED

PROFILE NO.

CONTAINERS: No. _____ VOLUME 33.5 gal WEIGHT _____

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____

NON-HAZARDOUS WATER			WELL PURGING/DECON WATER		
WASTE DESCRIPTION			GENERATING PROCESS		
COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER	99-100%		5. _____		
2. TPH	<1%		6. _____		
3. _____			7. DESI#		
4. _____			8. _____		

PROPERTIES: 7-10 pH SOLID LIQUID SLUDGE SLURRY OTHER _____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Larry Moothart DESI for BP

11-08-07

TYPED OR PRINTED FULL NAME & SIGNATURE

DATE

TRANSPORTER

Transporter #1
 STRATUS ENVIRONMENTAL
 NAME
 3330 CAMERON PARK DR
 ADDRESS
 CAMERON PARK, CA 95682
 CITY, STATE, ZIP
 530-676-2031
 PHONE NO.
 TYPED OR PRINTED FULL NAME & SIGNATURE
 DATE

EPA I.D. NO.

SERVICE ORDER NO. _____

PICK UP DATE _____

TSD FACILITY

SEAPORT REFINING & ENVIRONMENTAL, LLC
 NAME
 700 SEAPORT BLVD.
 ADDRESS
 REDWOOD CITY, CA 94063
 CITY, STATE, ZIP
 650-364-1024
 PHONE NO.
 TYPED OR PRINTED FULL NAME & SIGNATURE
 DATE

EPA I.D. NO.

DISPOSAL METHOD

LANDFILL OTHER _____

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	
C/O		RT/CD	HWDF	NONE

DISCREPANCY



bp
A BP affiliated company

Chain of Custody Record

ORIGINAL

Project Name: ARCO 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 11132
 State or Lead Regulatory Agency: _____
 Requested Due Date (mm/dd/yy): STD - TAT

On-site Time: <u>0410</u>	Temp: <u>60'S</u>
Off-site Time: <u>0810</u>	Temp: <u>60'S</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: _____	
Wind Speed: _____	Direction: _____

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Ave., 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 No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E11132-04</u>
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G07TS-0030</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04-Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@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.	No. of Containers	Preservative					Requested Analysis				Sample Point Lat/Long and Comments *Oxy = MTBE,TAME,ETBE,DIPE,TBA
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO/BTEX/Oxy*	1,2-DCA	Ethanol	EDB	
1	MW-1		11/08	X								X	X	X	X	D.D. Not Sampled		
2	MW-2	0745	11/08															
3	MW-5	0720																
4	MW-8	0645																
5	MW-9	0717																
6	MW-10	0610																
7	RW-1															D.D. Not Sampled		
8																		
9	TB-11132-11082007		11/08	X			2									*HOLD		
10																		

Sampler's Name: <u>David Dellello</u>	Relinquished By / Affiliation: <u>David Dellello / Stratus Env.</u>	Date: <u>11-08-07</u>	Time: <u>1130</u>	Accepted By / Affiliation: <u>CL TAC-W SA</u>	Date: <u>11/8</u>	Time: <u>1120</u>
Sampler's Company: <u>STRATUS ENVIRONMENTAL</u>						
Shipment Date: <u>11-08-07</u>						
Shipment Method: _____						
Shipment Tracking No: _____						

Special Instructions: Please cc results to rmler@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

27 November, 2007

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

RE: BP Heritage #11132, Oakland, CA
Work Order: MQK0328

Enclosed are the results of analyses for samples received by the laboratory on 11/08/07 19:45. 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 #11132, Oakland, CA Project Number: G07TS-0030 Project Manager: Jay Johnson	MQK0328 Reported: 11/27/07 13:09
---	--	--

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	MQK0328-01	Water	11/08/07 07:45	11/08/07 19:45
MW-5	MQK0328-02	Water	11/08/07 07:20	11/08/07 19:45
MW-8	MQK0328-03	Water	11/08/07 06:45	11/08/07 19:45
MW-9	MQK0328-04	Water	11/08/07 07:17	11/08/07 19:45
MW-10	MQK0328-05	Water	11/08/07 06:10	11/08/07 19:45
TB-11132-11082007	MQK0328-06	Water	11/08/07 00:00	11/08/07 19:45

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 #11132, Oakland, CA
Project Number: G07TS-0030
Project Manager: Jay Johnson

MQK0328
Reported:
11/27/07 13:09

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MQK0328-01) Water Sampled: 11/08/07 07:45 Received: 11/08/07 19:45									
Gasoline Range Organics (C4-C12)	22000	5000	ug/l	100	7K15011	11/15/07	11/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		91 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		88 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		92 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91 %	55-130		"	"	"	"	
MW-5 (MQK0328-02) Water Sampled: 11/08/07 07:20 Received: 11/08/07 19:45									
Gasoline Range Organics (C4-C12)	3800	250	ug/l	5	7K15011	11/15/07	11/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		96 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		93 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	55-130		"	"	"	"	
MW-8 (MQK0328-03) Water Sampled: 11/08/07 06:45 Received: 11/08/07 19:45									
Gasoline Range Organics (C4-C12)	24000	2500	ug/l	50	7K15011	11/15/07	11/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		95 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		93 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91 %	55-130		"	"	"	"	
MW-9 (MQK0328-04) Water Sampled: 11/08/07 07:17 Received: 11/08/07 19:45									
Gasoline Range Organics (C4-C12)	6100	500	ug/l	10	7K15011	11/15/07	11/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		91 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		94 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91 %	55-130		"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0030
Project Manager: Jay Johnson

MQK0328
Reported:
11/27/07 13:09

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-10 (MQK0328-05) Water Sampled: 11/08/07 06:10 Received: 11/08/07 19:45

Gasoline Range Organics (C4-C12)	13000	500	ug/l	10	7K15011	11/15/07	11/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		98 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		95 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	55-130		"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0030
Project Manager: Jay Johnson

MQK0328
Reported:
11/27/07 13:09

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-2 (MQK0328-01) Water Sampled: 11/08/07 07:45 Received: 11/08/07 19:45

tert-Amyl methyl ether	ND	50	ug/l	100	7K15011	11/15/07	11/15/07	EPA 8260B	
Benzene	7400	50	"	"	"	"	"	"	
tert-Butyl alcohol	2800	2000	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
Ethanol	ND	30000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Ethylbenzene	640	50	"	"	"	"	"	"	
Methyl tert-butyl ether	240	50	"	"	"	"	"	"	
Toluene	420	50	"	"	"	"	"	"	
Xylenes (total)	1700	50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		88 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91 %		60-150	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92 %		75-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91 %		55-130	"	"	"	"	

MW-5 (MQK0328-02) Water Sampled: 11/08/07 07:20 Received: 11/08/07 19:45

tert-Amyl methyl ether	ND	2.5	ug/l	5	7K15011	11/15/07	11/15/07	EPA 8260B	
Benzene	77	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	310	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	1500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	46	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	270	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	35	2.5	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		94 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96 %		60-150	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93 %		75-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %		55-130	"	"	"	"	

Stratus Environmental Inc. [Arco]
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Project Number: G07TS-0030
Project Manager: Jay Johnson

MQK0328
Reported:
11/27/07 13:09

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-8 (MQK0328-03) Water Sampled: 11/08/07 06:45 Received: 11/08/07 19:45

tert-Amyl methyl ether	ND	25	ug/l	50	7K15011	11/15/07	11/15/07	EPA 8260B	
Benzene	150	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	15000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	1100	25	"	"	"	"	"	"	
Methyl tert-butyl ether	27	25	"	"	"	"	"	"	
Toluene	43	25	"	"	"	"	"	"	
Xylenes (total)	3200	25	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	92 %	75-130	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	95 %	60-150	"	"	"	"	"	"	
Surrogate: Toluene-d8	93 %	75-120	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91 %	55-130	"	"	"	"	"	"	

MW-9 (MQK0328-04) Water Sampled: 11/08/07 07:17 Received: 11/08/07 19:45

tert-Amyl methyl ether	ND	5.0	ug/l	10	7K15011	11/15/07	11/15/07	EPA 8260B	
Benzene	29	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	98	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	52	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	250	5.0	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	91 %	75-130	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	100 %	60-150	"	"	"	"	"	"	
Surrogate: Toluene-d8	94 %	75-120	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91 %	55-130	"	"	"	"	"	"	

Stratus Environmental Inc. [Arco]
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Cameron Park CA, 95682

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0030
Project Manager: Jay Johnson

MQK0328
Reported:
11/27/07 13:09

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (MQK0328-05) Water Sampled: 11/08/07 06:10 Received: 11/08/07 19:45									
tert-Amyl methyl ether	ND	5.0	ug/l	10	7K15011	11/15/07	11/15/07	EPA 8260B	
Benzene	970	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	480	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	6.0	5.0	"	"	"	"	"	"	
Toluene	130	5.0	"	"	"	"	"	"	
Xylenes (total)	1600	5.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		93 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98 %		60-150	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %		75-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %		55-130	"	"	"	"	

Stratus Environmental Inc. [Arco]
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Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0030
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MQK0328
Reported:
11/27/07 13:09

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 7K15011 - EPA 5030B P/T / LUFT GCMS

Blank (7K15011-BLK1)

Prepared & Analyzed: 11/15/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.41		"	2.50		96	60-150			
Surrogate: Dibromofluoromethane	2.28		"	2.50		91	75-130			
Surrogate: Toluene-d8	2.32		"	2.50		93	75-120			
Surrogate: 4-Bromofluorobenzene	2.29		"	2.50		92	55-130			

Laboratory Control Sample (7K15011-BS2)

Prepared & Analyzed: 11/15/07

Gasoline Range Organics (C4-C12)	504	50	ug/l	500		101	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.18		"	2.50		87	60-150			
Surrogate: Dibromofluoromethane	2.21		"	2.50		88	75-130			
Surrogate: Toluene-d8	2.40		"	2.50		96	75-120			
Surrogate: 4-Bromofluorobenzene	2.30		"	2.50		92	55-130			

Laboratory Control Sample Dup (7K15011-BSD2)

Prepared & Analyzed: 11/15/07

Gasoline Range Organics (C4-C12)	500	50	ug/l	500		100	55-130	0.7	20	
Surrogate: 1,2-Dichloroethane-d4	2.39		"	2.50		96	60-150			
Surrogate: Dibromofluoromethane	2.19		"	2.50		88	75-130			
Surrogate: Toluene-d8	2.39		"	2.50		96	75-120			
Surrogate: 4-Bromofluorobenzene	2.38		"	2.50		95	55-130			

Matrix Spike (7K15011-MS1)

Source: MQK0299-01

Prepared & Analyzed: 11/15/07

Gasoline Range Organics (C4-C12)	557	50	ug/l	550	ND	101	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.35		"	2.50		94	60-150			
Surrogate: Dibromofluoromethane	2.34		"	2.50		94	75-130			
Surrogate: Toluene-d8	2.33		"	2.50		93	75-120			
Surrogate: 4-Bromofluorobenzene	2.37		"	2.50		95	55-130			

Matrix Spike Dup (7K15011-MSD1)

Source: MQK0299-01

Prepared & Analyzed: 11/15/07

Gasoline Range Organics (C4-C12)	653	50	ug/l	550	ND	119	25-150	16	20	
Surrogate: 1,2-Dichloroethane-d4	2.49		"	2.50		100	60-150			
Surrogate: Dibromofluoromethane	2.42		"	2.50		97	75-130			
Surrogate: Toluene-d8	2.35		"	2.50		94	75-120			
Surrogate: 4-Bromofluorobenzene	2.33		"	2.50		93	55-130			

Stratus Environmental Inc. [Arco]
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Cameron Park CA, 95682

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0030
Project Manager: Jay Johnson

MQK0328
Reported:
11/27/07 13:09

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 7K15011 - EPA 5030B P/T / EPA 8260B

Blank (7K15011-BLK1)

Prepared & Analyzed: 11/15/07

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>	2.28		"	2.50		91	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.41		"	2.50		96	60-150			
<i>Surrogate: Toluene-d8</i>	2.32		"	2.50		93	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.29		"	2.50		92	55-130			

Laboratory Control Sample (7K15011-BS1)

Prepared & Analyzed: 11/15/07

tert-Amyl methyl ether	10.3	0.50	ug/l	10.0		103	75-125			
Benzene	9.74	0.50	"	10.0		97	75-120			
tert-Butyl alcohol	203	20	"	200		101	80-120			
Di-isopropyl ether	9.56	0.50	"	10.0		96	70-130			
1,2-Dibromoethane (EDB)	10.0	0.50	"	10.0		100	75-130			
1,2-Dichloroethane	9.81	0.50	"	10.0		98	65-130			
Ethanol	196	300	"	200		98	50-150			
Ethyl tert-butyl ether	9.57	0.50	"	10.0		96	75-130			
Ethylbenzene	10.3	0.50	"	10.0		103	80-125			
Methyl tert-butyl ether	9.50	0.50	"	10.0		95	80-130			
Toluene	9.70	0.50	"	10.0		97	80-120			
Xylenes (total)	30.4	0.50	"	30.0		101	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.35		"	2.50		94	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.35		"	2.50		94	60-150			
<i>Surrogate: Toluene-d8</i>	2.35		"	2.50		94	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.33		"	2.50		93	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0030
Project Manager: Jay Johnson

MQK0328
Reported:
11/27/07 13:09

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 7K15011 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7K15011-MS1)	Source: MQK0299-01	Prepared & Analyzed: 11/15/07								
tert-Amyl methyl ether	9.46	0.50	ug/l	10.0	ND	95	75-140			
Benzene	9.56	0.50	"	10.0	ND	96	80-120			
tert-Butyl alcohol	207	20	"	200	5.97	101	80-125			
Di-isopropyl ether	9.72	0.50	"	10.0	ND	97	75-135			
1,2-Dibromoethane (EDB)	9.81	0.50	"	10.0	ND	98	80-135			
1,2-Dichloroethane	9.82	0.50	"	10.0	ND	98	65-145			
Ethanol	247	300	"	200	ND	124	50-150			
Ethyl tert-butyl ether	9.75	0.50	"	10.0	ND	98	80-135			
Ethylbenzene	9.89	0.50	"	10.0	ND	99	75-130			
Methyl tert-butyl ether	12.8	0.50	"	10.0	3.23	96	75-145			
Toluene	9.51	0.50	"	10.0	ND	95	80-125			
Xylenes (total)	29.5	0.50	"	30.0	0.230	98	75-125			
<i>Surrogate: Dibromofluoromethane</i>	2.34		"	2.50		94	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.35		"	2.50		94	60-150			
<i>Surrogate: Toluene-d8</i>	2.33		"	2.50		93	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.37		"	2.50		95	55-130			

Matrix Spike Dup (7K15011-MSD1)	Source: MQK0299-01	Prepared & Analyzed: 11/15/07								
tert-Amyl methyl ether	10.3	0.50	ug/l	10.0	ND	103	75-140	9	25	
Benzene	9.72	0.50	"	10.0	ND	97	80-120	2	20	
tert-Butyl alcohol	214	20	"	200	5.97	104	80-125	3	25	
Di-isopropyl ether	10.1	0.50	"	10.0	ND	101	75-135	4	25	
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0	ND	106	80-135	8	30	
1,2-Dichloroethane	10.3	0.50	"	10.0	ND	103	65-145	5	25	
Ethanol	234	300	"	200	ND	117	50-150	5	25	
Ethyl tert-butyl ether	10.3	0.50	"	10.0	ND	103	80-135	5	25	
Ethylbenzene	9.87	0.50	"	10.0	ND	99	75-130	0.2	20	
Methyl tert-butyl ether	14.0	0.50	"	10.0	3.23	108	75-145	9	25	
Toluene	9.57	0.50	"	10.0	ND	96	80-125	0.6	25	
Xylenes (total)	29.4	0.50	"	30.0	0.230	97	75-125	0.1	20	
<i>Surrogate: Dibromofluoromethane</i>	2.42		"	2.50		97	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.49		"	2.50		100	60-150			
<i>Surrogate: Toluene-d8</i>	2.35		"	2.50		94	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.33		"	2.50		93	55-130			

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 #11132, Oakland, CA
Project Number: G07TS-0030
Project Manager: Jay Johnson

MQK0328
Reported:
11/27/07 13:09

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: ARCO 11132
 BP BU/AR Region/Entos Segment: BP > Americas > West > Retail > Alameda > 11132
 State or Lead Regulatory Agency:
 Requested Due Date (mm/dd/yy): STD - TAT

On-site Time: <u>0410</u>	Temp: <u>60'S</u>
Off-site Time: <u>0810</u>	Temp: <u>60'S</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events:	
Wind Speed: <u>-</u>	Direction: <u>-</u>

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Ave., 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 No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>B11132-04</u>
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Entos Project No.: <u>G07TS-0030</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04-Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@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 = MTBE, TAME, ETBE, DIPE, TBA			
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	CRC/BTEX/Oxy*	1,2-DCA		Ethanol	BDB	
1	MW-1		<u>11/08</u>		X		<u>MOK0328</u>					X	X	X	X			<u>D.B. Not Sampled</u>	
2	<u>MW-2</u>	<u>0745</u>	<u>11/08</u>				<u>01</u>	<u>3</u>											
3	<u>MW-5</u>	<u>0720</u>					<u>02</u>	<u>3</u>											
4	<u>MW-8</u>	<u>0645</u>					<u>03</u>	<u>3</u>											
5	<u>MW-9</u>	<u>0717</u>					<u>04</u>	<u>3</u>											
6	<u>MW-10</u>	<u>0610</u>					<u>05</u>	<u>6</u>											
7	RW-1																		<u>D.B. Not Sampled</u>
8																			
9	<u>TB-11132-11082007</u>		<u>11/08</u>		X		<u>06</u>	<u>2</u>											<u>HOLD</u>
10																			

Sampler's Name: <u>David Dellello</u>	Relinquished By / Affiliation: <u>David Dellello / Stratus Env</u>	Date: <u>11/08</u>	Time: <u>1120</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/08</u>	Time: <u>1120</u>
Sampler's Company: <u>Stratus Environmental</u>						
Shipment Date: <u>11-08-07</u>						
Shipment Method:						
Shipment Tracking No:						

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

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 2.2 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARLO 11182
REC. BY (PRINT): D.V.
WORKORDER: MOK0328

DATE REC'D AT LAB: 11/8/07
TIME REC'D AT LAB: 1243
DATE LOGGED IN: 11/09/07

For Regulatory Purposes?
 DRINKING WATER
 WASTE WATER
 OTHER

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*								see at 11/09/07 DV
2. Chain-of-Custody Present / <input checked="" type="radio"/> Absent*								
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent								
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent								
5. Airbill #:								
6. Sample Labels: Present / Absent								
7. Sample IDs: Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / <input checked="" type="radio"/> No*								
10. Sample received within hold time? Yes / <input checked="" type="radio"/> No*								
11. Adequate sample volume received? Yes / <input checked="" type="radio"/> No*								
12. Proper preservatives used? Yes / <input checked="" type="radio"/> No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / <input checked="" type="radio"/> No*								
14. Read Temp: <u>3.2°</u> Correction Factor: <u>-1.0°</u> Corrected Temp: <u>2.2°</u> Is corrected temp. 0-6°C? Yes / <input checked="" type="radio"/> No**								

****Exception (if any):** Metals / Perchlorate
 DFF on Ice or Problem COC

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



Product Purge

Global ID: _____
 Site Address 3201 35th
 City Oakland, CA
 Sampled By: VinceZ

Site Number 11132
 Project No _____
 Project PM _____
 Date 10-17-07
VB

Signature *Vince Z...*

Water Level Data					Purge Volume Calculations					Sample Record		Field Data
Well ID	DTP	DTW	Top of Screen feet	Ctr. Meas. Depth of Well feet	Well Diameter (Inches)	Multiplier Value (B)	(MIX) Water/Product Gallons Purged	Bailer	Other	Sample I.D.		
RW-1	20.31	20.32			6	4.4	4			RW-1		
MW-1	21.80	21.81			2	0.5	4			MW-1		
NW-8		18.45			2	N/A						
NW-9		18.59			2	N/A						
NW-10		19.60			2	N/A						

ORIGINAL

TEST: GRO-BTEX, 5-Oxys, Ethanol
 (A) Casing water Column
 Depth wtr. Depth to Bottom
 Multiplier Values
 2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4



Product Purge

Global ID:
 Site Address 3201 35th.
 City Oakland, CA
 Sampled By: Vince Z

Site Number 11132
 Project No
 Project PM
 Date 11-08-07

Signature *V. Zaluska*

on site 0515
 off site

Water Level Data					Purge Volume Calculations						Sample Record	Field Data
Well ID	DTP	DTW	Top of Screen feet	Qtr. Meas. Depth of Well feet	Well Diameter (Inches)	Multiplier Value (B)	(MIX) Water/Product Gallons Purged	Bailer	Other		Sample I.D.	
RW-1	20.31	20.32			6	4.4	2.5 gal	X			RW-1	
MW-1	21.83	21.84			2	0.5	3 gal	X			MW-1	
MW-8		38.80			2	N/A						
MW-9		27.50			2	N/A						
MW-10		34.05			2	N/A						

ORIGINAL

TEST ; GRO-BTEX, 5-Oxys, Ethanol
 (A) Casing water Column
 Depth wtr. Depth to Bottom

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



Product Purge

ORIGINAL

Global ID:
Site Address 3201 35th.
City Oakland, CA
Sampled By: VinceZ

Site Number 11132
Project No _____
Project PM _____
Date 12-12-07

on-0500 off 0630

Signature Vince Zatorra

Water Level Data					Purge Volume Calculations						Sample Record	Field Data
Well ID	DTP	DTW	Top of Screen feet	Qtr. Meas. Depth of Well feet	Well Diameter (Inches)	Multiplier Value (B)	(MIX) Water/Product Gallons Purged	Bailer	Other	Sample I.D.		
RW-1	19.42	19.43			6	4.4	2.5 gal	X		RW-1		
MW-1	20.99	21.00			2	0.5	1.5 gal	X		MW-1		
MW-8		17.51			2	N/A						
MW-9	Filled	w/ Sand			2	N/A						
MW-10		18.63			2	N/A						

TEST ; GRO-BTEX, 5-Oxys, Ethanol
(A) Casing water Column
Depth wtr. Depth to Bottom

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

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION REPORTS

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UPLOADING A GEO_WELL FILE

Processing is complete. No errors were found!
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Submittal Title:	4Q07 GEO_WELL 11132
Facility Global ID:	T0600100213
Facility Name:	BP #11132
Submittal Date/Time:	2/7/2008 1:14:08 PM
Confirmation Number:	6566685557

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BP #11132
3201 35TH
OAKLAND, CA 94619

Regional Board - Case #: 01-0227
SAN FRANCISCO BAY RWQCB (REGION 2)
Local Agency (lead agency) - Case #: RO0000014
ALAMEDA COUNTY LOP - (SP)

CONF #	TITLE	QUARTER
7084465086	4Q07 GW Monitoring	Q4 2007
SUBMITTED BY	SUBMIT DATE	STATUS
Broadbent & Associates, Inc.	12/11/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	5
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	5
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	Y
- MATRIX SPIKE DUPLICATE	Y
- 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

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Facility Global ID: T0600100213
Facility Name: BP #11132
Submittal Title: Mobile DPE IRM 1107 1
Submittal Type: Other/Miscellaneous Report

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BP #11132 3201 35TH OAKLAND, CA 94619	Regional Board - Case #: 01-0227 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000014 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
2388816177	Mobile DPE IRM 1107 1	Q4 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	1/31/2008	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	2
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETBE TO BE TESTED	
- 8260FA REQUIRES TAME TO BE TESTED	
- 8260FA REQUIRES DIPE TO BE TESTED	
- 8260FA REQUIRES TBA TO BE TESTED	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
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%	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%	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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Confirmation Number: 2560416936

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Facility Global ID: T0600100213

Facility Name: BP #11132

Submittal Title: Mobile DPE IRM 1107 2

Submittal Type: Other/Miscellaneous Report

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BP #11132 3201 35TH OAKLAND, CA 94619	Regional Board - Case #: 01-0227 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000014 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
2560416936	Mobile DPE IRM 1107 2	Q4 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	1/31/2008	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	1
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
SAMPLE MATRIX TYPES	AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETBE TO BE TESTED	
- 8260FA REQUIRES TAME TO BE TESTED	
- 8260FA REQUIRES DIPE TO BE TESTED	
- 8260FA REQUIRES TBA TO BE TESTED	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
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%	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%	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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Facility Global ID: T0600100213

Facility Name: BP #11132

Submittal Title: Mobile DPE IRM 1107 3

Submittal Type: Other/Miscellaneous Report

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BP #11132 3201 35TH OAKLAND, CA 94619	Regional Board - Case #: 01-0227 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000014 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
2153629362	Mobile DPE IRM 1107 3	Q4 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	1/31/2008	PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
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	Y
- MATRIX SPIKE DUPLICATE	Y
- 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%	n/a
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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Facility Global ID: T0600100213
Facility Name: BP #11132
Submittal Title: Mobile DPE IRM 1107 4
Submittal Type: Other/Miscellaneous Report

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BP #11132 3201 35TH OAKLAND, CA 94619	Regional Board - Case #: 01-0227 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000014 ALAMEDA COUNTY LOP - (SP)
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CONF #	TITLE	QUARTER
9918283820	Mobile DPE IRM 1107 4	Q4 2007
SUBMITTED BY	SUBMIT DATE	STATUS
Broadbent & Associates, Inc.	1/31/2008	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	1
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
SAMPLE MATRIX TYPES	AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETBE TO BE TESTED - 8260FA REQUIRES TAME TO BE TESTED - 8260FA REQUIRES DIPE TO BE TESTED - 8260FA REQUIRES TBA TO BE TESTED - 8260FA REQUIRES ETHANOL TO BE TESTED	
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%	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%	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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Confirmation Number: 3306388616

Date/Time of Submittal: 1/31/2008 1:31:54 PM

Facility Global ID: T0600100213

Facility Name: BP #11132

Submittal Title: Mobile DPE IRM 1107 5

Submittal Type: Other/Miscellaneous Report

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BP #11132 3201 35TH OAKLAND, CA 94619	Regional Board - Case #: 01-0227 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000014 ALAMEDA COUNTY LOP - (SP)
--	---

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
3306388616	Mobile DPE IRM 1107 5	Q4 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	1/31/2008	PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETHANOL 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	Y
- MATRIX SPIKE DUPLICATE	Y
- 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 > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).

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Confirmation Number: 7026121675

Date/Time of Submittal: 1/31/2008 2:07:00 PM

Facility Global ID: T0600100213

Facility Name: BP #11132

Submittal Title: Mobile DPE IRM 1107 6

Submittal Type: Other/Miscellaneous Report

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

BP #11132 3201 35TH OAKLAND, CA 94619	Regional Board - Case #: 01-0227 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000014 ALAMEDA COUNTY LOP - (SP)
--	---

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
7026121675	Mobile DPE IRM 1107 6	Q4 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	1/31/2008	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	1
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
SAMPLE MATRIX TYPES	AIR - UNK. ORIGIN

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETBE TO BE TESTED	
- 8260FA REQUIRES TAME TO BE TESTED	
- 8260FA REQUIRES DIPE TO BE TESTED	
- 8260FA REQUIRES TBA TO BE TESTED	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
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%	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%	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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Confirmation Number: 1034738898

Date/Time of Submittal: 1/31/2008 1:33:29 PM

Facility Global ID: T0600100213

Facility Name: BP #11132

Submittal Title: Mobile DPE IRM 1107 7

Submittal Type: Other/Miscellaneous Report

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

BP #11132 3201 35TH OAKLAND, CA 94619	Regional Board - Case #: 01-0227 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000014 ALAMEDA COUNTY LOP - (SP)
--	---

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
1034738898	Mobile DPE IRM 1107 7	Q4 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	1/31/2008	PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
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	Y
- MATRIX SPIKE DUPLICATE	Y
- 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 > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as BROADBENT-C (CONTRACTOR)

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Confirmation Number: 3213540196
Date/Time of Submittal: 1/31/2008 4:24:36 PM
Facility Global ID: T0600100213
Facility Name: BP #11132
Submittal Title: Mobile DPE IRM 1107 8
Submittal Type: Other/Miscellaneous Report

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

BP #11132 3201 35TH OAKLAND, CA 94619	Regional Board - Case #: 01-0227 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000014 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
3213540196	Mobile DPE IRM 1107 8	Q4 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	1/31/2008	PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETHANOL 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	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	N
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N

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

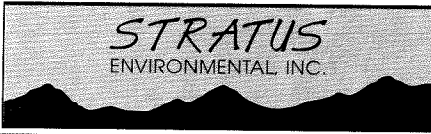
<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).

APPENDIX C

**STRATUS MOBILE DPE EVENT DATA PACKAGE
(INCLUDES FIELD DATA SHEET AND LABORATORY ANALYTICAL REPORTS
WITH CHAIN-OF-CUSTODY DOCUMENTATION)**



January 4, 2008

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

Re: DPE Event Data Package For Work Performed Between November 26 and 28, 2007,
Former BP Service Station No. 11132, located at 3201 35th Avenue, Oakland, California

General Information

Data Submittal Prepared / Reviewed by: Sonia Nandi and Kiran Nagaraju / Jay Johnson

Phone Number: (530) 676-6007 / (530) 676-6000

On-Site Supplier Representative: Chris Hill, Gowri Kowtha, and Sonia Nandi

Scope of Work Performed: DPE event per Broadbent & Associates, Inc. (Broadbent) ‘Work Plan’ dated September 10, 2007. Prior to the start-up of the test a notification letter regarding the DPE event was submitted to the Bay Area Air Quality Management District (BAAQMD) on November 19, 2007.

During the DPE event, air and water samples were collected in accordance with the frequency identified in the work plan. The following table summarizes the samples that were submitted to the laboratory for chemical analyses:

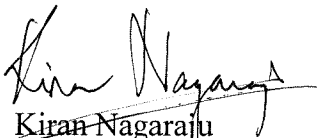
Test Well ID	System Influent Air	Effluent Air	Influent Water
MW-1	1 st hour, 6 th hour, and 11 th hour	1 st hour	1 st hour, 6 th hour, and 11 th hour
MW-2	1 st hour, 6 th hour, and 11 th hour	Not Sampled	1 st hour, 6 th hour, and 11 th hour
RW-1	1 st hour, 6 th hour, and 11 th hour	Not Sampled	1 st hour, 6 th hour, and 11 th hour


Variations from Work Scope : During the DPE test using well MW-1, the induced vacuum at observation wells MW-2, MW-3, and RW-1 could not be measured since the wellheads could not be modified to provide a seal for measuring induced vacuum.

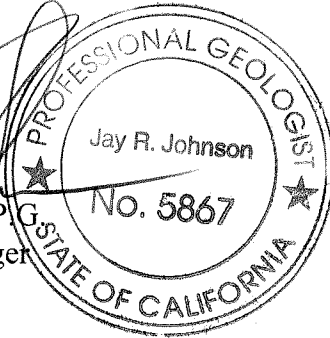
This submittal transmits the field data collected in association with the DPE test. The attachments include field data sheets, chain of custody documentation and the certified analytical results. Data were collected in the manner and at the times and locations outlined in the Work Plan and in concurrence with BP-ARCO's Scoping Supplier. The information is being provided to the Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include any interpretation of or any conclusions or recommendations based on the data. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.


Kiran Nagaraju
Staff Engineer


Jay Johnson, P.G.
Project Manager



Attachments:

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

CC: Paul Supple, BP/ARCO

Site Name & Address: Former ARCO No. 11132
 3201 35th Avenue, Oakland
 Test Well ID: MW-1

Date: 11-26-07
 Test Operators: CHILL
 ORIGINAL

Equipment Model and Serial Nos.: Z50TCAT LIT C1172
 PID Model: Mini RAE

Date & Time	Hour Meter Reading hrs	Applied Vacuum "Hg	Wellhead Vacuum "WC	Sys Inf Air Flow Rate ¹ (fpm/cfm)	Dilution Air Flow Rate ² (fpm/cfm)	Dilution Air Temp deg F	Flow totalizer (DPE unit) gallons	Sys Inf Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	System Influent ppmv	Effluent PID ppmv	Comments/Notes
Measure baseline DTW and vacuum level at wells EW-1, EW-2, RW-1 through RW-9, RW-11, and RW-12 prior to commencement of test and also the total depth of test wells. 2260 start HRS													
Measure the stinger depth at extraction well. Record hour meter reading of the generator at the start and at the end.													
0700	2260	25	147	2500	469	47	31650	100	1543	1470	917	6	31650 Totalizer - Start
0800	2261	25	135	2500	919	54	31650	100	1631	1561	648	3	11132A EFF 0800
0900	2262	25	140	3000	748	55	31720	110	1633	1575	557	4	11132A SYS INF 0900 11132W INF 0810
1000	2263	25	140	3000	1107	67	31790	115	1636	1578	405	3	11132A SYS INF 1000
1100	2264	25	140	3000	770	66	31930	115	1613	1559	343	4	11132W INF 1020
1200	2265	25	140	3000	874	70	31930	115	1599	1596	297	3	
1300	2266	25	140	3000	1056	68	32070	115	1608	1553	238	2	11132A SYS INF 1305
1400	2267	25	130	3000	1080	67	32070	115	1569	1519	235	2	11132W INF 1300
1500	2268	25	124	3000	972	68	32200	115	1564	1512	150	1	
1600	2269	25	117	3000	953	64	32270	115	1558	1507	177	1	11132A SYS INF 1605
1700	2270	25	112	3000	974	60	32340	110	1550	1501	178	1	11132W INF 1600
1800	2271	25	117	3000	858	58	32410	110	1544	1495	175	1	
1900	2272	25	117	3000	990	55	32510	110	1544	1496	174	1	11132A SYS INF 1835 11132W INF 1830

¹ Diameter of the system influent air flow pipe is 2 inches

² Diameter of the dilution air flow pipe is 2 inches

*well sample port open to keep H2O flowing (at well head)

TO LAB 11/26/07 1500

TO LAB 11/26/07 1500

LAB

Site Name & Address: Former ARCO No. 11132
 3201 35th Avenue, Oakland
 Test Well ID: MW-1

Date: 11/26/07
 Operators: CHILL
 GKOWTHA

ORIGINAL

Date & Time	DTB 41	DTB 31	Depth to water (feet bgs)							DTB 38			
	MW-1	MW-2	MW-3	MW-4	MW-7	MW-8	MW-9	MW-10	RW-1				
11/26/07	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW				
Measure DTW and vacuum level at wells EW-1, EW-2, RW-1 through RW-9, RW-11 and RW-12 prior to commencement of test and also the total depth of test wells (VE-2 and VE-4). Measure the stinger depth at extraction well.													
5:30 AM	21.42 21.43	20.26	18.94	21.73	20.46	18.13	19.24	19.13	19.89	MW-1	21.42 - DTW	21.43 - DTW	
0800	40' 40.5'	20.72	19.50	22.10	20.33	18.36	18.53	19.35	20.32				
0900	37' 37.5'	20.94	19.74	22.34	20.27	18.44	18.75	19.47	20.48				
1000	36' 36.5'	21.11	19.90	22.55	20.24	18.57	18.95	19.60	20.85				
1100	40' 40.5'	21.25	19.95	22.67	20.20	18.58	19.05	19.69	NM				
1200		21.19	20.10	22.75	20.14	18.61	19.11	19.68	NM				
1300		21.26	20.09	22.83	20.16	18.66	19.20	19.73	21.15				
1400		21.32	20.17	22.90	20.17	18.64	19.27	19.77	NM				
1500		21.36	20.21	22.94	20.18	18.73	19.31	19.79	NM				
1600		21.40	20.28	22.98	20.19	18.76	19.36	19.82	21.60				
1700	40' 40.5'	21.43	20.32	23.02	NM*	18.78	19.41	NM*	NM*				
1800		21.47	20.37	23.06	20.21	18.84	19.46	19.89	NM				
1830		21.49	20.40	23.08	20.23	18.96	19.49	19.91	21.79				
Record the stinger depth in the DTW column for the test well													

Sheen RW-1 Black Tar, Road Not Maintained Every Time Due to Oil Sheen Traffic Very Busy*

Site Name & Former ARCO No. 11132
 Address 3201 35th Avenue, Oakland
 Test Well ID MW-1

Date 11/26/07
 Operators CHU

ORIGINAL

Date & Time	Wellhead/Induced Vacuum ("WC)													
	MW-1	MW-2	MW-3	MW-4	MW-7	MW-8	MW-9	MW-10	RW-1					
	Vac	Vac	Vac	Vac	Vac	Vac	Vac	Vac	Vac					
Measure DTW and vacuum level at wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, and RW-1 prior to commencement of test and also the total depth of test wells (MW-1, MW-2, & RW-1). Measure the stinger depth at extraction well.														
0850	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø					
0900	135	*	*	-3.5	+3.6	Ø	-3.2	-0.9	*					
0900	140			-3.0	+1.8	Ø	-2.4	-0.6						
1000	140			-2.2	+1.6	Ø	-1.4	-0.1						
1100	140			-2.0	+1.1	Ø	-1.0	-0.1						
1200	140			-0.2	Ø	Ø	-0.2	Ø						
1300	140			-0.2	+0.2	Ø	Ø	Ø						
1400	130			-0.2	+0.4	Ø	Ø	Ø						
1500	124			Ø	+0.2	Ø	Ø	Ø						
1600	117			Ø	Ø	Ø	Ø	Ø						
1700	112			Ø	NM ⁺	Ø	NM ⁺	NM ⁺						
1800	117			Ø	Ø	Ø	Ø	Ø						
1930	117			Ø	Ø	Ø	Ø	Ø						

* Not Able to Seal Tops of Casing for Vac Reading

1 Traffic

Site Name & Address: Former ARCO No. 11132
 3201 35th Avenue, Oakland
 Test Well ID: RW-1

Date: 11/27/07
 Test Operators: CHILL, S. Nandi
 ORIGINAL

Equipment Model and Serial Nos.: TCAY 250 L12, C1172
 PID Model: Mini ZHC

Date & Time	Hour Meter Reading hrs	Applied Vacuum "Hg	Wellhead Vacuum "WC	Sys Inf Air Flow Rate ¹ fpm/cfm	Dilution Air Flow Rate ² fpm/cfm	Dilution Air Temp deg F	Flow totalizer (DPE unit) gallons	Sys Inf Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	System Influent ppmv	Effluent PID ppmv	Comments/Notes
Measure baseline DTW and vacuum level at wells [redacted] through [redacted], and [redacted] prior to commencement of test and also the total depth of test wells. 11-27-07 Measure the stinger depth at extraction well. Record hour meter reading of the generator at the start and at the end.													
0700	2272	25	132*	3000	639	50	32510	75	1471	1389	225	5	
0800	2273	25	161	3000	740	52	32510	100	1521	1462	121	5	11132 A SYS INF 0500 LAB
0900	2274	25	148	3000	755	55	32600	105	1537	1486	125	5	11132 W INF 0500
1000	2275	25	159	3000	907	64	32600	115	1532	1483	115	5	11132 A SYS INF 1015
1100	2276.9	25	110	3000	960	78	32680	115	1520	1471	94.4	3.7	11132 W INF 1012
1200	2278.1	25	109	3000	976	68	32740	115	1518	1471	79.6	5.0	
1300	2278.7	25	109	3000	892	68	32810	115	1520	1471	71.9	4.8	11132 A SYS INF 1320 LAB
1400	2279	25	134	3000	808	68	32810	115	1520	1471	61	3	11132 W INF 1245
1500	2280	25	140	3000	814	67	32880	115	1516	1468	60	3	
1600	2281	25	137	3000	722	65	32950	115	1520	1472	70	3	11132 A SYS INF 1800
1700	2282	25	124	3000	681	62	32950	115	1517	1469	69	3	11132 W INF 1730
1800	2283	25	130	3000	701	59	33040	110	1512	1466	60	3	

¹ Diameter of the system influent air flow pipe is 2 inches * Well Head port open for AIR2 Flow
² Diameter of the dilution air flow pipe is 2 inches

Site Name & Former ARCO No. 11132
 Address 3201 35th Avenue, Oakland
 Test Well ID RW-1

Date 11-27-07
 Operators CHILL

 ORIGINAL

Date & Time	Depth to water (feet bgs)													
	MW-1	MW-2	MW-3	MW-4	MW-7	MW-8	MW-9	MW-10	RW-1					
112707	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	Stinger DTW Depth				
Measure DTW and vacuum level at wells _____ , _____ , _____ through _____ and _____ prior to commencement of test and also the total depth of test wells (_____ and _____). Measure the stinger depth at extraction well.														
0430	21.84	20.53	19.32	22.01	20.13	18.33	18.63	19.50	20.59					
0800	22.02	20.75	19.34	22.10	20.17	18.42	18.69	19.48	39'	33' stinger				
0900	22.39	21.23	19.47	22.23	20.19	18.62	18.88	19.66	39'					
1000	22.56	21.43	19.57	22.34	20.21	18.70	19.0	19.78	39'					
1100	21.54	22.67	19.70	22.46	20.25	18.84	19.11	19.86	39'					
1200	22.70	21.59	19.69	22.49	20.24	18.82	19.16	19.90	39'					
1300	22.50	21.61	19.70	Cap	20.23	18.83	19.18	19.93	39'					
1400	22.60	21.61	19.71	22.48	20.21	18.82	19.16	19.90	39'					
* 1500	22.74	21.62	19.75	22.50	20.23	18.84	19.18	NM	39'					
1600	22.76	21.65	19.75	22.51	20.24	NM	19.20	NM	39'					
1700	22.78	21.66	19.75	22.52	20.26	NM	19.22	NM	39'					
1800	22.80	21.68	19.79	22.54	20.27	NM	19.25	NM	39'					
Record the stinger depth in the DTW column for the test well														

* MW 10 Ran over NOT ABLE TO get CAP off
 MW 8 Someone took lid to well Box
 Traffic Extra Busy Today more than Monday No more Readings MW-8,10

0-2170

Site Name & Address
 Former ARCO No. 11132
 3201 35th Avenue, Oakland

Test Well ID
 RW-1

Date
 11/27/07

Operators
 CHILL
 S. Nandi



Date & Time	Wellhead/Induced Vacuum ("WC)									
	MW-1	MW-2	MW-3	MW-4	MW-7	MW-8	MW-9	MW-10	RW-1	
11/27/07	Vac	Vac	Vac	Vac	Vac	Vac	Vac	Vac	Vac	
Measure DTW and vacuum level at wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, and RW-1 prior to commencement of test and also the total depth of test wells (MW-1, MW-2, & RW-1). Measure the stinger depth at extraction well.										
0430	∅	∅	-	∅	∅	∅	∅	∅	∅	
0500	∅	∅	-	∅	∅	∅	∅	-0.2	-	
0900	∅	∅	-	-0.2	∅	∅	-0.4	-0.6	148	
1000	∅	∅	-	-0.2	∅	∅	-0.2	-0.3	155	
1100	-0.1	-0.1	-	-0.1	-0.2	∅	∅	∅	110	
1200	-0.1	-0.2	-	-0.3	-0.2	-0.2	-0.2	-0.2	109	
1300	-0.1	-0.2	-	-0.3	-0.4	-0.4	-0.3	-0.3	109	
1400	∅	∅	-	-0.1	∅	∅	∅	∅	134	
1500	∅	∅	-	∅	∅	∅	∅	∅	140	
1600	∅	∅	-	∅	∅	NM	∅	NM	137	
1700	∅	∅	-	∅	∅	NM	∅	NM	124	
1800	∅	∅	-	∅	∅	NM	∅	NM	130	

Site Name & Address: Former ARCO No. 11132
 3201 35th Avenue, Oakland
 Test Well ID: MW-2

ORIGINAL

Date: 11-28-07
 Test Operators: CHILL

Equipment Model and Serial Nos.: TCHAT 250 LR
 C1172
 PID Model: Mini RAE

Date & Time	Hour Meter Reading hrs	Applied Vacuum "Hg	Wellhead Vacuum "WC	Sys Inf Air Flow Rate ¹ (fpm)/cfm	Dilution Air Flow Rate ² (fpm)/cfm	Dilution Air Temp deg F	Flow totalizer (DPE unit) gallons	Sys Inf Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	System Influent ppmv	Effluent PID ppmv	Comments/Notes
Measure baseline DTW and vacuum level at wells 11132A through 11132C , and 11132D prior to commencement of test and also the total depth of test wells. Measure the stinger depth at extraction well. Record hour meter reading of the generator at the start and at the end.													
0700	2253	25	—	2500	718	47	33040	65	1472	1394	150	2	
0800	2254	25	90	2500	686	50	33040	90	1567	1502	335	3	11132A SYS INF 0800
0900	2255	25	86	3000	662	58	33110	110	1608	1550	348	4	11132W INF 0900
1000	2286	25	80	3000	775	65	33180	115	1592	1539	394	3	11132A SYS INF 1000
1100	2287	25	83	3000	936	65	33250	115	1600	1545	375	3	11132W INF
1200	2288	25	74	3000	1030	75	33320	115	1601	1547	362	2	
1300	2289	25	75	3000	958	72	33390	115	1592	1539	370	2	11132A SYS INF 1300
1400	2290	25	81	3000	1039	74	33460	110	1589	1535	287	2	11132W INF 1330
1500	2291	25	84	3000	822	64	33520	110	1592	1535	325	2	
1600	2292	25	79	3000	709	65	33590	110	1595	1542	352	2	11132A SYS INF 1500
1700	2293	25	80	3000	728	62	33660	110	1589	1537	355	2	11132W INF 1500
1800	2294	25	78	3000	621	60	33740	110	1579	1528	370	2	

¹ Diameter of the system influent air flow pipe is 2 inches

² Diameter of the dilution air flow pipe is 2 inches

Site Name & Former ARCO No. 11132
 Address 3201 35th Avenue, Oakland
 Test Well ID MW-2

Date 11/28/07
 Operators CHILL

 ORIGINAL

Date & Time	Depth to water (feet bgs)													
	MW-1	MW-2	MW-3	MW-4	MW-7	MW-8	MW-9	MW-10	RW-1					
	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW					
Measure DTW and vacuum level at wells ██████████ through ██████████ and ██████████ prior to commencement of test and also the total depth of test <u>11/28/07</u> wells ██████████ and ██████████ . Measure the stinger depth at extraction well.														
0500	21.82	20.66	19.37	22.05	20.22	18.44	18.70	19.53	20.33					
0800	22.06	30' stinger	19.45	22.20	NM*	NM*	18.88	NM*	20.49					
0900	22.25	30' stinger	19.54	22.31	NM*	NM*	19.05	NM*	20.76					
1000	22.39	30'	19.65	22.39	20.71	18.89	19.15	20.0	20.99					
1100	22.47	30'	19.70	22.45	NM*	NM*	19.25	NM*	21.16					
1200	22.50	30'	19.75	22.50	NM*	NM*	19.28	NM*	21.27					
1300	22.53	30'	19.75	22.52	20.35	19.10	19.30	20.24	21.33					
1400	22.56	30'	19.79	22.54	NM*	NM*	19.33	NM*	21.40					
1500	22.57	30'	19.80	22.55	NM*	NM*	19.35	NM*	21.45					
1600	22.60	30'	19.84	22.57	20.38	CAR	19.38	20.32	21.49					
1700	22.61	30'	19.86	22.58	20.40	CAR	19.40	20.36	21.53					
1800	22.62	30'	19.87	22.60	20.41	CAR	19.41	20.38	21.55					
Record the stinger depth in the DTW column for the test well <u>RW-1 Sheens</u> * Traffic <u>MW-1 Sheens</u>														

Site Name & Former ARCO No. 11132
 Address 3201 35th Avenue, Oakland
 Test Well ID MW 2

Date 11 28 07
 Operators CHILL

ORIGINAL

Date & Time	Wellhead/Induced Vacuum ("WC)									
	MW-1	MW-2	MW-3	MW-4	MW-7	MW-8	MW-9	MW-10	RW-1	
112807	Vac	Vac	Vac	Vac	Vac	Vac	Vac	Vac	Vac	
Measure DTW and vacuum level at wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, and RW-1 prior to commencement of test and also the total depth of test wells (MW-1, MW-2, & RW-1). Measure the stinger depth at extraction well.										
0500	0	0	-	0	0	0	0	0	-	
0500	-	90	-	-0.3	NM	NM	-0.6	NM	-	
0900	-	86	-	-0.3	NM	NM	-0.4	NM	-	
1000	-	80	-	-0.7	-0.1	-2.3	-0.5	-0.1	-	
1100	-	83	-	0	NM	NM	0	NM	-	
1200	-	74	-	0	NM	NM	0	NM	-	
1300	-	75	-	0	0	-0.1	0	0	-	
1400	-	81	-	0	NM	NM	0	NM	-	
1500	-	84	-	0	NM	NM	0	NM	-	
1600	-	79	-	0	0	CAR	0	0	-	
1700	-	80	-	0	0	CAR	0	0	-	
1800	-	78	-	0	0	CAR	0	0	-	



bp
ABP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 Nov 07

P. 1 of 1

On-site Time: <u>07:50</u>	Temp:
Off-site Time: <u>1700</u>	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: TestAmerica	BP/AR Facility No.: 11132	Consultant/Contractor: Stratus Environmental, Inc.
Address: 885 Jarvis Drive Morgan Hill, CA 95937	BP/AR Facility Address: 3201 35th Avenue, Oakland, CA	Address: 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682
Lab PM: Lisa Race	Site Lat/Long:	Consultant/Contractor Project No.: E6106-01
Tele/Fax: 408-782-8156/408-782-6308	California Global ID No.: T0600100213	Consultant/Contractor PM: Jay Johnson
BP/AR PM Contact: Paul Supple	Enfos Project No.: G07TS-0038	Tele/Fax: (530) 676-6000 / (530) 676-6005
Address: 2010 Crow Canyon Place, Suite 150 San Ramon, CA	Provision or OOC (circle one) <u>Provision</u>	Report Type & QC Level: Level 1 with EDF
Tele/Fax: 925-299-8891/925-299-8872	Phase/WBS: 01-Assessment	E-mail BDD To: shayes@stratusinc.net
	Sub Phase/Task: 03-Analytical	Invoice to: Atlantic Richfield Co.
	Cost Element: Subcontractor Cost	

Lab Bottle Order No.				Matrix			MQK0719 Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	CRO	BTEX	MIBE	24-hours	Standard	
1	11132 A EFF	0800	11/26/07		X		01	2					X	X	X	X			
2	11132 A INF SPS	0805	11/26/07		X		02	2					X	X	X		X		
3	11132 A SPS INF	1305			X		03	2					X	X	X		X		
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>11/26/07</u>	Time: <u>1500</u>	Accepted By / Affiliation: <u>[Signature] (TRM/H)</u>	Date: <u>11-26-07</u>	Time: <u>1620</u>
Shipment Date: <u>11/26/07</u>	Shipment Method:	Shipment Tracking No.:	Special Instructions: <u>Please cc results to bpedf@broadbentinc.com</u>			

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

11/28/2007 10:11 5306766005 STRATUS NO CALIF PAGE 03/03

Atlantic Richfield Company

bp
A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 5/10/07

REVISED

Page 1 of 1

On-site Time: <u>0700</u>	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-299-8891/925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis				Turnaround Time		Sample Point Lat/Long and Comments		
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO	BTEX	S-Oxygenates	MTBE	24-hours	Standard			
1	11132 A SYS INF	1835	11/24/07	X	X		MOK0754	2														
2																						
3	11132 A SYS INF	0805	11/27/07	X	X		02	2														5 Oxygenates = MTBE, DIPE
4	11132 A SYS INF	1320	11/27/07	X	X		03	2														TBA, ETBE, and TAME
5																						
6																						
7																						
8																						
9																						
10																						

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>Stratus</u>	Date: <u>11/27/07</u>	Time: <u>1530</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/27/07</u>	Time: <u>1538</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>11-27-07</u>						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Please cc results to bpedf@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



bp
A BP affiliated company

MP

Chain of Custody Record

Project Name: ARCO Facility No. 6106
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): SHD

On-site Time: <u>0400</u>	Temp:
Off-site Time: <u>1700</u>	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</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>shayes@stratusinc.net</u>
Tele/Fax: <u>925-299-8891/925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl / NP	Methanol	GRO	BTEX	5-Oxygenates	24-hour	Standard		
1	11132 W IWP	0810	11/26/07		X		MORGH1	01	5				X	X	X			X		5 Oxygenates = MTBE, DIPE
2	11132 W IWP	1310	11/26/07		X		MORGH1	02	5				X	X	X			X		TBA, ETBE, and TAME
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>Chris Hill</u>	Requisitioned By / Affiliation: <u>[Signature] Stratus</u>	Date: <u>11/26/07</u>	Time: <u>1530</u>	Accepted By / Affiliation: <u>[Signature] (TAMM)</u>	Date: <u>11/26/07</u>	Time: <u>1500</u>
Shipment Date: <u>11-26-07</u>		Date: <u>11/26/07</u>	Time: <u>1620</u>		Date: <u>11/26/07</u>	Time: <u>1620</u>

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

Custody Seals In Place: Yes / <u>(No)</u>	Temp Blank: Yes / <u>(No)</u>	Cooler Temp on Receipt: <u>2</u> ° F/C	Trip Blank: Yes / <u>(No)</u>	MS/MSD Sample Submitted: Yes / <u>(No)</u>
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by A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 5/20/07

On-site Time: <u>0400</u>	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156/ 408-782-6308</u>	Enfos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or DOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2810 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	B-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-299-8891/ 925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative				Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl / O ₂ A	Methanol	GRO	STEX	β-Oxygenates	24-hours	
1	11132 W INF	1830	11/26/07	X			M0K0792	01	5				X	X	X		X	5 Oxygenates = MTBE, DIPE
2																		
3	11132 W INF	0800	11/27/07	X				02	5				X	X	X		X	TBA, ETBE, and TAME
4	11132 W INF	1245	11/27/07	X				03	5				X	X	X		X	
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name: <u>Chris Hill</u>	Requisitioned By / Affiliation: <u>[Signature]</u>	Date: <u>11/27/07</u>	Time: <u>1530</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/27/07</u>	Time: <u>1530</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>11-27-07</u>						
Shipment Method:						
Shipment Tracking No:						

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

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 4.2 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 5/10/07

On-site Time: <u>0500</u>	Temp:
Off-site Time: <u>1900</u>	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: TestAmerica	BP/AR Facility No.: 11132	Consultant/Contractor: Stratus Environmental, Inc.
Address: 885 Jarvis Drive	BP/AR Facility Address: 3201 35th Avenue, Oakland, CA	Address: 3330 Cameron Park Drive, Suite 550
Morgan Hill, CA 95937	Site Lat/Long:	Cameron Park, CA 95682
Lab PM: Lisa Race	California Global ID No.: T0608100213	Consultant/Contractor Project No.: E6106-01
Tele/Fax: 408-782-8156/408-782-6308	Enfos Project No.: G07TS-0038	Consultant/Contractor PM: Jay Johnson
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) Provision	Tele/Fax: (530) 676-6000 / (530) 676-6005
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 01-Assessment	Report Type & QC Level: Level 1 with EDF
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: 925-299-8891/925-299-8872	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	CRO	STEX	MTBE	24-hours	Standard	
1	11132A843INF	1800	11/27		X		01	2						X	X		X		
2																			
3	11132A845INF	0805	11/28		X		02	2						X	X		X		
4	11132A845INF	1300	11/28/07		X		03	2						X	X		X		
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>11/28/07</u>	Time: <u>1340</u>	Accepted By / Affiliation: <u>[Signature] (TAMU)</u>	Date: <u>11/28/07</u>	Time: <u>1725</u>
Sampler's Company: Stratus Environmental, Inc.						
Shipment Date: <u>11/28/07</u>						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Please see results to bpedf@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

Atlantic Richfield Company

bp
A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): _____

On-site Time: <u>0900</u>	Temp:
Off-site Time: <u>1900</u>	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6105-01</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-299-8891/925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Men No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	ORO	BTEX	S-Oxygenates	24-hours	Standard		
1	11132 W IWK	1930	11/27	X			01	5				X			X	X		X		5 Oxygenates = MTBE, DIPE
2																				TBA, ETBE, and TAME
3	11132 W IWK	0800	11/28	X			02	5				X		X	X		X			
4	11132 W IWK	1330	11/28	X			03	5				X		X	X		X			
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>Chris Hill</u>	Requested By / Affiliation: <u>[Signature]</u>	Date: <u>11/28/07</u>	Time: <u>1540</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/28/07</u>	Time: <u>1540</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>112807</u>						
Shipment Method:						
Shipment Tracking No:						

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

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 36 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): April 1997

On-site Time: <u>0800</u>	Temp:
Off-site Time: <u>1900</u>	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Status Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</u>	Report Type & QC Level: <u>Level I with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-299-8891/925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoiced to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO	ETEX	MTBE	24-hours	Standard	
1	11132 A S45 IWP	1805	11/28/97		X		010	2						X	X		X		
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>Chris Hill</u>	Date: <u>11/28/97</u>	Time: <u>0830</u>	Accepted By / Affiliation: <u>John W. ...</u>	Date: <u>11/29/97</u>	Time: <u>0830</u>
Shipment Date: <u>11/29/97</u>	Relinquished By / Affiliation: <u>John W. ...</u>	Date: <u>11/29</u>	Time: <u>1500</u>	Accepted By / Affiliation: <u>John W. ...</u>	Date: <u>11/29/97</u>	Time: <u>1500</u>
Shipment Method: <u>Truck</u>	Relinquished By / Affiliation: <u>John W. ...</u>	Date: <u>11/29</u>	Time: <u>1750</u>	Accepted By / Affiliation: <u>John W. ...</u>	Date: <u>11/29/97</u>	Time: <u>1750</u>

Special Instructions: Please cc results to bpedf@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



A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 9/27/97

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>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>835 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G07IS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</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>shayes@stratusinc.net</u>
Tele/Fax: <u>925-299-8891/925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Lab Bottle Order No.	Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GR0	BTEX	S-Oxygenates	24-hours	Standard	
1	11132 W INF	15:00	11/28/97	X			01	5						X	X	X	X			5 Oxygenates = MTBE, DIPE TBA, ETBE, and TAME
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>Chris Hill</u>	Collected By / Affiliation: <u>Chris Hill / Stratus</u>	Date: <u>11/29/97</u>	Time: <u>09:30</u>	Accepted By / Affiliation: <u>Sheila Ege / Stratus</u>	Date: <u>11/29/97</u>	Time: <u>08:30</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>11/29/97</u>						
Shipment Method: <u>By Truck</u>						
Shipment Tracking No:						

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

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 2.4 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

28 November, 2007

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

RE: BP Heritage #11132, Oakland, CA
Work Order: MQK0719

Enclosed are the results of analyses for samples received by the laboratory on 11/26/07 16:20. 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 #11132, Oakland, CA Project Number: G07TS-0038 Project Manager: Jay Johnson	MQK0719 Reported: 11/28/07 13:44
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
11132AEFF	MQK0719-01	Vapor	11/26/07 08:00	11/26/07 16:20
11132AINFSYS	MQK0719-02	Vapor	11/26/07 08:05	11/26/07 16:20
11132ASYSINF	MQK0719-03	Vapor	11/26/07 13:05	11/26/07 16:20

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0719
Reported:
11/28/07 13:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132AEFF (MQK0719-01) Vapor Sampled: 11/26/07 08:00 Received: 11/26/07 16:20									
Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air	1	7K27008	11/27/07	11/27/07 15:49	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		88 %	75-120		"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	14	ppmv	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		88 %	75-120		"	"	"	"	
11132AINFSYS (MQK0719-02) Vapor Sampled: 11/26/07 08:05 Received: 11/26/07 16:20									
Gasoline Range Organics (C4-C12)	3500	50	mg/m ³ Air	1	7K27008	11/27/07	11/27/07 18:55	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		94 %	75-120		"	"	"	"	
Gasoline Range Organics (C4-C12)	1000	14	ppmv	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		94 %	75-120		"	"	"	"	
11132ASYSINF (MQK0719-03) Vapor Sampled: 11/26/07 13:05 Received: 11/26/07 16:20									
Gasoline Range Organics (C4-C12)	1100	50	mg/m ³ Air	1	7K27008	11/27/07	11/27/07 19:26	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		115 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		91 %	75-120		"	"	"	"	
Gasoline Range Organics (C4-C12)	320	14	ppmv	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		115 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		91 %	75-120		"	"	"	"	

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0719
Reported:
11/28/07 13:44

Purgeable Hydrocarbons and 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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11132AEFF (MQK0719-01) Vapor Sampled: 11/26/07 08:00 Received: 11/26/07 16:20

Methyl tert-butyl ether	ND	0.50	mg/m ³ Air	1	7K27008	11/27/07	11/27/07 15:49	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		95 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		88 %	75-120		"	"	"	"	
Benzene	ND	0.16	ppmv	"	"	"	"	"	
Ethylbenzene	ND	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.14	"	"	"	"	"	"	
Toluene	ND	0.13	"	"	"	"	"	"	
Xylenes (total)	ND	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		95 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		88 %	75-120		"	"	"	"	

11132AINFSYS (MQK0719-02) Vapor Sampled: 11/26/07 08:05 Received: 11/26/07 16:20

Methyl tert-butyl ether	4.4	0.50	mg/m ³ Air	1	7K27008	11/27/07	11/27/07 18:55	EPA 8260B	
Benzene	7.5	0.50	"	"	"	"	"	"	
Toluene	31	0.50	"	"	"	"	"	"	
Ethylbenzene	33	0.50	"	"	"	"	"	"	
Xylenes (total)	130	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94 %	75-120		"	"	"	"	
Benzene	2.4	0.16	ppmv	"	"	"	"	"	
Ethylbenzene	7.6	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	1.2	0.14	"	"	"	"	"	"	
Toluene	8.3	0.13	"	"	"	"	"	"	
Xylenes (total)	30	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	55-130		"	"	"	"	

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0719
Reported:
11/28/07 13:44

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132AINFSYS (MQK0719-02) Vapor Sampled: 11/26/07 08:05 Received: 11/26/07 16:20									
Surrogate: Dibromofluoromethane		96 %	75-130		7K27008	11/27/07	11/27/07 18:55	EPA 8260B	
Surrogate: Toluene-d8		94 %	75-120		"	"	"	"	
11132ASYSINF (MQK0719-03) Vapor Sampled: 11/26/07 13:05 Received: 11/26/07 16:20									
Methyl tert-butyl ether	3.7	0.50	mg/m ³ Air	1	7K27008	11/27/07	11/27/07 19:26	EPA 8260B	
Benzene	4.7	0.50	"	"	"	"	"	"	
Toluene	5.2	0.50	"	"	"	"	"	"	
Ethylbenzene	8.0	0.50	"	"	"	"	"	"	
Xylenes (total)	15	0.50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		115 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		91 %	75-120		"	"	"	"	
Benzene	1.5	0.16	ppmv	"	"	"	"	"	
Ethylbenzene	1.9	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	1.0	0.14	"	"	"	"	"	"	
Toluene	1.4	0.13	"	"	"	"	"	"	
Xylenes (total)	3.4	0.12	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		115 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		91 %	75-120		"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0719
Reported:
11/28/07 13:44

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 7K27008 - EPA 5030B P/T / LUFT GCMS

Blank (7K27008-BLK1)

Prepared & Analyzed: 11/27/07

Gasoline Range Organics (C4-C12)	ND	14	ppmv							
Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air							
Surrogate: 1,2-Dichloroethane-d4	0.622		ppmv	0.594		105	60-150			
Surrogate: 1,2-Dichloroethane-d4	2.62		mg/m ³ Air	2.50		105	60-150			
Surrogate: 4-Bromofluorobenzene	0.302		ppmv	0.349		86	55-130			
Surrogate: 4-Bromofluorobenzene	2.16		mg/m ³ Air	2.50		86	55-130			
Surrogate: Dibromofluoromethane	2.31		"	2.50		92	75-130			
Surrogate: Dibromofluoromethane	0.294		ppmv	0.318		92	75-130			
Surrogate: Toluene-d8	0.604		"	0.665		91	75-120			
Surrogate: Toluene-d8	2.27		mg/m ³ Air	2.50		91	75-120			

Laboratory Control Sample (7K27008-BS2)

Prepared & Analyzed: 11/27/07

Gasoline Range Organics (C4-C12)	132	14	ppmv	142		93	55-130			
Gasoline Range Organics (C4-C12)	465	50	mg/m ³ Air	500		93	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.58		"	2.50		103	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.613		ppmv	0.594		103	60-150			
Surrogate: 4-Bromofluorobenzene	0.319		"	0.349		91	55-130			
Surrogate: 4-Bromofluorobenzene	2.28		mg/m ³ Air	2.50		91	55-130			
Surrogate: Dibromofluoromethane	0.294		ppmv	0.318		92	75-130			
Surrogate: Dibromofluoromethane	2.31		mg/m ³ Air	2.50		92	75-130			
Surrogate: Toluene-d8	0.638		ppmv	0.665		96	75-120			
Surrogate: Toluene-d8	2.40		mg/m ³ Air	2.50		96	75-120			

Laboratory Control Sample Dup (7K27008-BSD2)

Prepared & Analyzed: 11/27/07

Gasoline Range Organics (C4-C12)	132	14	ppmv	142		93	55-130	0.07	20	
Gasoline Range Organics (C4-C12)	465	50	mg/m ³ Air	500		93	55-130	0.07	20	
Surrogate: 1,2-Dichloroethane-d4	2.65		"	2.50		106	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.629		ppmv	0.594		106	60-150			
Surrogate: 4-Bromofluorobenzene	2.28		mg/m ³ Air	2.50		91	55-130			
Surrogate: 4-Bromofluorobenzene	0.319		ppmv	0.349		91	55-130			
Surrogate: Dibromofluoromethane	0.294		"	0.318		92	75-130			
Surrogate: Dibromofluoromethane	2.31		mg/m ³ Air	2.50		92	75-130			
Surrogate: Toluene-d8	0.627		ppmv	0.665		94	75-120			
Surrogate: Toluene-d8	2.36		mg/m ³ Air	2.50		94	75-120			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0719
Reported:
11/28/07 13:44

Purgeable Hydrocarbons and 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 7K27008 - EPA 5030B P/T / EPA 8260B

Blank (7K27008-BLK1)

Prepared & Analyzed: 11/27/07

Methyl tert-butyl ether	ND	0.50	mg/m ³ Air							
Benzene	ND	0.16	ppmv							
Benzene	ND	0.50	mg/m ³ Air							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Ethylbenzene	ND	0.12	ppmv							
Methyl tert-butyl ether	ND	0.14	"							
Toluene	ND	0.13	"							
Xylenes (total)	ND	0.12	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.62		mg/m ³ Air	2.50		105	60-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.622		ppmv	0.594		105	60-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.16		mg/m ³ Air	2.50		86	55-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.302		ppmv	0.349		86	55-130			
<i>Surrogate: Dibromofluoromethane</i>	2.31		mg/m ³ Air	2.50		92	75-130			
<i>Surrogate: Dibromofluoromethane</i>	0.294		ppmv	0.318		92	75-130			
<i>Surrogate: Toluene-d8</i>	2.27		mg/m ³ Air	2.50		91	75-120			
<i>Surrogate: Toluene-d8</i>	0.604		ppmv	0.665		91	75-120			

Laboratory Control Sample (7K27008-BS1)

Prepared & Analyzed: 11/27/07

Methyl tert-butyl ether	9.46	0.50	mg/m ³ Air	10.0		95	80-130			
Benzene	3.01	0.16	ppmv	3.14		96	75-120			
Benzene	9.61	0.50	mg/m ³ Air	10.0		96	75-120			
Toluene	9.58	0.50	"	10.0		96	80-120			
Ethylbenzene	10.0	0.50	"	10.0		100	80-125			
Xylenes (total)	29.7	0.50	"	30.0		99	80-125			
Ethylbenzene	2.32	0.12	ppmv	2.31		100	80-125			
Methyl tert-butyl ether	2.63	0.14	"	2.78		95	80-130			
Toluene	2.55	0.13	"	2.66		96	80-120			
Xylenes (total)	6.85	0.12	"	6.92		99	80-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.51		mg/m ³ Air	2.50		100	60-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.596		ppmv	0.594		100	60-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.30		mg/m ³ Air	2.50		92	55-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.321		ppmv	0.349		92	55-130			
<i>Surrogate: Dibromofluoromethane</i>	2.30		mg/m ³ Air	2.50		92	75-130			
<i>Surrogate: Dibromofluoromethane</i>	0.293		ppmv	0.318		92	75-130			

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0719
Reported:
11/28/07 13:44

Purgeable Hydrocarbons and 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 7K27008 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (7K27008-BS1)

Prepared & Analyzed: 11/27/07

Surrogate: Toluene-d8	2.36		mg/m ³ Air	2.50		94	75-120			
Surrogate: Toluene-d8	0.627		ppmv	0.665		94	75-120			

Laboratory Control Sample Dup (7K27008-BSD1)

Prepared & Analyzed: 11/27/07

Methyl tert-butyl ether	9.65	0.50	mg/m ³ Air	10.0		96	80-130	2	25	
Benzene	3.04	0.16	ppmv	3.14		97	75-120	0.8	20	
Benzene	9.69	0.50	mg/m ³ Air	10.0		97	75-120	0.8	20	
Toluene	9.46	0.50	"	10.0		95	80-120	1	25	
Ethylbenzene	10.0	0.50	"	10.0		100	80-125	0.1	20	
Xylenes (total)	29.4	0.50	"	30.0		98	80-125	1	20	
Ethylbenzene	2.32	0.12	ppmv	2.31		100	80-125	0.1	20	
Methyl tert-butyl ether	2.68	0.14	"	2.78		96	80-130	2	25	
Toluene	2.52	0.13	"	2.66		95	80-120	1	25	
Xylenes (total)	6.77	0.12	"	6.92		98	80-125	1	20	
Surrogate: 1,2-Dichloroethane-d4	2.56		mg/m ³ Air	2.50		102	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.608		ppmv	0.594		102	60-150			
Surrogate: 4-Bromofluorobenzene	2.28		mg/m ³ Air	2.50		91	55-130			
Surrogate: 4-Bromofluorobenzene	0.319		ppmv	0.349		91	55-130			
Surrogate: Dibromofluoromethane	2.35		mg/m ³ Air	2.50		94	75-130			
Surrogate: Dibromofluoromethane	0.299		ppmv	0.318		94	75-130			
Surrogate: Toluene-d8	2.34		mg/m ³ Air	2.50		94	75-120			
Surrogate: Toluene-d8	0.622		ppmv	0.665		94	75-120			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0719
Reported:
11/28/07 13:44

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

Atlantic Richfield Company

bp
ABP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 61009 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 MAR 04 ERF
STO on other

P. 1 of 1

On-site Time: <u>04:00</u>	Temp:
Off-site Time: <u>17:00</u>	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
Morgan Hill, CA 95937	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156 / 408-782-6308</u>	Enfos Project No.: <u>G07IS-0038</u>	Consultant/Contractor Pkt: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</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 BDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-299-8891 / 925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO	BTEX	MTBE	24-hours	Standard	
1	11132 A ERF	0800	11/26/07		X		01	2					X	X	X	X			
2	11132 A INF-SYS	0805	11/26/07		X		02	2					X	X	X	X			
3	11132 A S45 INK	1305			X		03	2					X	X	X	X			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

REVISED

Sampler's Name: <u>Chris Hill</u>	Acquired By / Affiliation: <u>[Signature] Stratus</u>	Date: <u>11/26/07</u>	Time: <u>1500</u>	Accepted By / Affiliation: <u>[Signature] (TRM/H)</u>	Date: <u>11-26-07</u>	Time: <u>1620</u>
Shipment Date: <u>11/26/07</u>						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Please cc results to bpedr@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

11/28/2007 10:11 5305766005 STRATUS NO CALIF PAGE 03/03

Atlantic Richfield Company

bp
A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 6106
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 24 MAR on EFF
SID on others

P. 1 of 1

On-site Time: <u>04:00</u>	Temp:
Off-site Time: <u>17:00</u>	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: TestAmerica	BP/AR Facility No.: 11132	Consultant/Contractor: Stratus Environmental, Inc.
Address: 885 Jarvis Drive	BP/AR Facility Address: 3201 35th Avenue, Oakland, CA	Address: 3330 Cameron Park Drive, Suite 550
Morgan Hill, CA 95937	Site Lat/Long:	Cameron Park, CA 95682
Lab PM: Lisa Race	California Global ID No.: T0600100213	Consultant/Contractor Project No.: E6106-01
Tele/Fax: 408-782-8156/ 408-782-6308	Enfos Project No.: G07TS-0038	Consultant/Contractor PM: Jay Johnson
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: (530) 676-6000 / (530) 676-6005
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 01-Assessment	Report Type & QC Level: Level I with EDF
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: 925-299-8891/ 925-299-8872	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO	BTEX	MTBE	24-hours	Standard	
1	11132 A EFF	0800	11/26/07		X		01	2					X	X	X	X			
2	11132 A INF SYS	0805	11/26/07		X		02	2					X	X	X		X		
3	11132 A SYS INF	1305			X		03	2					X	X	X		X		
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>11/26/07</u>	Time: <u>1500</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11-26-07</u>	Time: <u>1500</u>
Sampler's Company: Stratus Environmental, Inc.						
Shipment Date: <u>11/26/07</u>						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Please cc results to bpedf@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

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARLD 6106
REC. BY (PRINT) DV.
WORKORDER: MDK0719

DATE REC'D AT LAB: 11/28/07
TIME REC'D AT LAB: 1620
DATE LOGGED IN: 11/27/07

For Regulatory Purposes?
 DRINKING WATER
 WASTE WATER
 OTHER

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*								<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>see COC 11/28/07 DV</p> </div>
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*								
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent								
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent								
5. Airbill #:								
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: <input checked="" type="radio"/> Intact / 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. Trip Blank / Temp Blank Received? (circle which, if yes) Yes <input checked="" type="radio"/> No*								
14. Read Temp: _____ Correction Factor: _____ Corrected Temp: _____ Is corrected temp. 0-6°C? Yes <input checked="" type="radio"/> No**								

****Exception (if any):** Metals / Perchlorate
 DFF on Ice or Problem COC MR

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

29 November, 2007

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

RE: BP Heritage #11132, Oakland, CA
Work Order: MQK0754

Enclosed are the results of analyses for samples received by the laboratory on 11/27/07 17:20. 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 #11132, Oakland, CA Project Number: G07TS-0038 Project Manager: Jay Johnson	MQK0754 Reported: 11/29/07 11:17
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
11132ASYSINF	MQK0754-01	Vapor	11/26/07 18:35	11/27/07 17:20
11132ASYSINF	MQK0754-02	Vapor	11/27/07 08:05	11/27/07 17:20
11132ASYSINF	MQK0754-03	Vapor	11/27/07 13:20	11/27/07 17:20

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0754
Reported:
11/29/07 11:17

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132ASYSINF (MQK0754-01) Vapor Sampled: 11/26/07 18:35 Received: 11/27/07 17:20									
Gasoline Range Organics (C4-C12)	990	50	mg/m³ Air	1	7K28019	11/28/07	11/28/07 13:59	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>107 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>88 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>97 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>96 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
Gasoline Range Organics (C4-C12)	280	14	ppmv	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>107 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>88 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>97 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>96 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
11132ASYSINF (MQK0754-02) Vapor Sampled: 11/27/07 08:05 Received: 11/27/07 17:20									
Gasoline Range Organics (C4-C12)	710	50	mg/m³ Air	1	7K28019	11/28/07	11/28/07 14:30	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>112 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>89 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>96 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>94 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
Gasoline Range Organics (C4-C12)	200	14	ppmv	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>112 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>89 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>96 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>94 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
11132ASYSINF (MQK0754-03) Vapor Sampled: 11/27/07 13:20 Received: 11/27/07 17:20									
Gasoline Range Organics (C4-C12)	520	50	mg/m³ Air	1	7K28019	11/28/07	11/28/07 15:01	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>112 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>87 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>93 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>93 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
Gasoline Range Organics (C4-C12)	150	14	ppmv	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>112 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>87 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>93 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>93 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0754
Reported:
11/29/07 11:17

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132ASYSINF (MQK0754-01) Vapor Sampled: 11/26/07 18:35 Received: 11/27/07 17:20									
Methyl tert-butyl ether	2.7	0.50	mg/m ³ Air	1	7K28019	11/28/07	11/28/07 13:59	EPA 8260B	
Benzene	3.1	0.50	"	"	"	"	"	"	
Toluene	3.1	0.50	"	"	"	"	"	"	
Ethylbenzene	4.9	0.50	"	"	"	"	"	"	
Xylenes (total)	8.5	0.50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		96 %	75-120		"	"	"	"	
Benzene	0.97	0.16	ppmv	"	"	"	"	"	
Ethylbenzene	1.1	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	0.75	0.14	"	"	"	"	"	"	
Toluene	0.82	0.13	"	"	"	"	"	"	
Xylenes (total)	2.0	0.12	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		96 %	75-120		"	"	"	"	
11132ASYSINF (MQK0754-02) Vapor Sampled: 11/27/07 08:05 Received: 11/27/07 17:20									
Methyl tert-butyl ether	1.3	0.50	mg/m ³ Air	1	7K28019	11/28/07	11/28/07 14:30	EPA 8260B	
Benzene	1.2	0.50	"	"	"	"	"	"	
Toluene	2.8	0.50	"	"	"	"	"	"	
Ethylbenzene	5.2	0.50	"	"	"	"	"	"	
Xylenes (total)	7.7	0.50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		112 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		94 %	75-120		"	"	"	"	
Benzene	0.36	0.16	ppmv	"	"	"	"	"	
Ethylbenzene	1.2	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	0.35	0.14	"	"	"	"	"	"	
Toluene	0.74	0.13	"	"	"	"	"	"	
Xylenes (total)	1.8	0.12	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		112 %	60-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	55-130		"	"	"	"	

TestAmerica - Morgan Hill, CA

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0754
Reported:
11/29/07 11:17

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132ASYSINF (MQK0754-02) Vapor Sampled: 11/27/07 08:05 Received: 11/27/07 17:20									
<i>Surrogate: Dibromofluoromethane</i>		96 %	75-130		7K28019	11/28/07	11/28/07 14:30	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		94 %	75-120		"	"	"	"	
11132ASYSINF (MQK0754-03) Vapor Sampled: 11/27/07 13:20 Received: 11/27/07 17:20									
Methyl tert-butyl ether	1.7	0.50	mg/m ³ Air	1	7K28019	11/28/07	11/28/07 15:01	EPA 8260B	
Benzene	0.87	0.50	"	"	"	"	"	"	
Toluene	1.7	0.50	"	"	"	"	"	"	
Ethylbenzene	2.4	0.50	"	"	"	"	"	"	
Xylenes (total)	4.2	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		93 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93 %	75-120		"	"	"	"	
Benzene	0.27	0.16	ppmv	"	"	"	"	"	
Ethylbenzene	0.56	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	0.48	0.14	"	"	"	"	"	"	
Toluene	0.44	0.13	"	"	"	"	"	"	
Xylenes (total)	0.98	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		93 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93 %	75-120		"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0754
Reported:
11/29/07 11:17

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 7K28019 - EPA 5030B P/T / LUFT GCMS

Blank (7K28019-BLK1)

Prepared & Analyzed: 11/28/07

Gasoline Range Organics (C4-C12)	ND	14	ppmv							
Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air							
Surrogate: 1,2-Dichloroethane-d4	0.610		ppmv	0.594		103	60-150			
Surrogate: 1,2-Dichloroethane-d4	2.57		mg/m ³ Air	2.50		103	60-150			
Surrogate: 4-Bromofluorobenzene	0.295		ppmv	0.349		84	55-130			
Surrogate: 4-Bromofluorobenzene	2.11		mg/m ³ Air	2.50		84	55-130			
Surrogate: Dibromofluoromethane	2.22		"	2.50		89	75-130			
Surrogate: Dibromofluoromethane	0.283		ppmv	0.318		89	75-130			
Surrogate: Toluene-d8	0.601		"	0.665		90	75-120			
Surrogate: Toluene-d8	2.26		mg/m ³ Air	2.50		90	75-120			

Laboratory Control Sample (7K28019-BS2)

Prepared & Analyzed: 11/28/07

Gasoline Range Organics (C4-C12)	152	14	ppmv	142		107	55-130			
Gasoline Range Organics (C4-C12)	536	50	mg/m ³ Air	500		107	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.594		ppmv	0.594		100	60-150			
Surrogate: 4-Bromofluorobenzene	0.321		"	0.349		92	55-130			
Surrogate: 4-Bromofluorobenzene	2.30		mg/m ³ Air	2.50		92	55-130			
Surrogate: Dibromofluoromethane	0.282		ppmv	0.318		88	75-130			
Surrogate: Dibromofluoromethane	2.21		mg/m ³ Air	2.50		88	75-130			
Surrogate: Toluene-d8	0.633		ppmv	0.665		95	75-120			
Surrogate: Toluene-d8	2.38		mg/m ³ Air	2.50		95	75-120			

Laboratory Control Sample Dup (7K28019-BSD2)

Prepared & Analyzed: 11/28/07

Gasoline Range Organics (C4-C12)	151	14	ppmv	142		107	55-130	0.5	20	
Gasoline Range Organics (C4-C12)	533	50	mg/m ³ Air	500		107	55-130	0.5	20	
Surrogate: 1,2-Dichloroethane-d4	2.51		"	2.50		100	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.596		ppmv	0.594		100	60-150			
Surrogate: 4-Bromofluorobenzene	2.26		mg/m ³ Air	2.50		90	55-130			
Surrogate: 4-Bromofluorobenzene	0.316		ppmv	0.349		90	55-130			
Surrogate: Dibromofluoromethane	0.279		"	0.318		88	75-130			
Surrogate: Dibromofluoromethane	2.19		mg/m ³ Air	2.50		88	75-130			
Surrogate: Toluene-d8	0.635		ppmv	0.665		96	75-120			
Surrogate: Toluene-d8	2.39		mg/m ³ Air	2.50		96	75-120			

TestAmerica - Morgan Hill, CA

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0754
Reported:
11/29/07 11:17

Purgeable Hydrocarbons and 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 7K28019 - EPA 5030B P/T / EPA 8260B

Blank (7K28019-BLK1)

Prepared & Analyzed: 11/28/07

Methyl tert-butyl ether	ND	0.50	mg/m ³ Air							
Benzene	ND	0.16	ppmv							
Benzene	ND	0.50	mg/m ³ Air							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Ethylbenzene	ND	0.12	ppmv							
Methyl tert-butyl ether	ND	0.14	"							
Toluene	ND	0.13	"							
Xylenes (total)	ND	0.12	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.57		mg/m ³ Air	2.50		103	60-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.610		ppmv	0.594		103	60-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.11		mg/m ³ Air	2.50		84	55-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.295		ppmv	0.349		84	55-130			
<i>Surrogate: Dibromofluoromethane</i>	2.22		mg/m ³ Air	2.50		89	75-130			
<i>Surrogate: Dibromofluoromethane</i>	0.283		ppmv	0.318		89	75-130			
<i>Surrogate: Toluene-d8</i>	2.26		mg/m ³ Air	2.50		90	75-120			
<i>Surrogate: Toluene-d8</i>	0.601		ppmv	0.665		90	75-120			

Laboratory Control Sample (7K28019-BS1)

Prepared & Analyzed: 11/28/07

Methyl tert-butyl ether	9.20	0.50	mg/m ³ Air	10.0		92	80-130			
Benzene	2.91	0.16	ppmv	3.14		93	75-120			
Benzene	9.27	0.50	mg/m ³ Air	10.0		93	75-120			
Toluene	9.06	0.50	"	10.0		91	80-120			
Ethylbenzene	9.72	0.50	"	10.0		97	80-125			
Xylenes (total)	28.5	0.50	"	30.0		95	80-125			
Ethylbenzene	2.24	0.12	ppmv	2.31		97	80-125			
Methyl tert-butyl ether	2.56	0.14	"	2.78		92	80-130			
Toluene	2.41	0.13	"	2.66		91	80-120			
Xylenes (total)	6.58	0.12	"	6.92		95	80-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.50		mg/m ³ Air	2.50		100	60-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.594		ppmv	0.594		100	60-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.24		mg/m ³ Air	2.50		90	55-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.313		ppmv	0.349		90	55-130			
<i>Surrogate: Dibromofluoromethane</i>	2.33		mg/m ³ Air	2.50		93	75-130			
<i>Surrogate: Dibromofluoromethane</i>	0.297		ppmv	0.318		93	75-130			

TestAmerica - Morgan Hill, CA

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0754
Reported:
11/29/07 11:17

Purgeable Hydrocarbons and 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 7K28019 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (7K28019-BS1)

Prepared & Analyzed: 11/28/07

Surrogate: Toluene-d8	2.30		mg/m ³ Air	2.50		92	75-120			
Surrogate: Toluene-d8	0.612		ppmv	0.665		92	75-120			

Laboratory Control Sample Dup (7K28019-BSD1)

Prepared & Analyzed: 11/28/07

Methyl tert-butyl ether	10.2	0.50	mg/m ³ Air	10.0		102	80-130	11	25	
Benzene	3.19	0.16	ppmv	3.14		102	75-120	9	20	
Benzene	10.2	0.50	mg/m ³ Air	10.0		102	75-120	9	20	
Toluene	9.97	0.50	"	10.0		100	80-120	10	25	
Ethylbenzene	10.5	0.50	"	10.0		105	80-125	8	20	
Xylenes (total)	30.9	0.50	"	30.0		103	80-125	8	20	
Ethylbenzene	2.42	0.12	ppmv	2.31		105	80-125	8	20	
Methyl tert-butyl ether	2.84	0.14	"	2.78		102	80-130	11	25	
Toluene	2.65	0.13	"	2.66		100	80-120	10	25	
Xylenes (total)	7.13	0.12	"	6.92		103	80-125	8	20	
Surrogate: 1,2-Dichloroethane-d4	2.47		mg/m ³ Air	2.50		99	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.587		ppmv	0.594		99	60-150			
Surrogate: 4-Bromofluorobenzene	2.24		mg/m ³ Air	2.50		90	55-130			
Surrogate: 4-Bromofluorobenzene	0.313		ppmv	0.349		90	55-130			
Surrogate: Dibromofluoromethane	2.39		mg/m ³ Air	2.50		96	75-130			
Surrogate: Dibromofluoromethane	0.304		ppmv	0.318		96	75-130			
Surrogate: Toluene-d8	2.31		mg/m ³ Air	2.50		92	75-120			
Surrogate: Toluene-d8	0.614		ppmv	0.665		92	75-120			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0754
Reported:
11/29/07 11:17

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

PROBLEM CHAIN-OF-CUSTODY MOKO754

DATE/TIME 11/27/07 1820

DATE RECEIVED 11/27/07

CLIENT ADCO

TURN AROUND TIME 510

CLIENT SERVICES REP Lisa

ANALYST DV

PROBLEM

1) matrix is marked as water but samples are air

RESOLUTION

Client Instruction* See attached from Col

Telephone Number of Client: e-mail

Client Contact for Instruction: S. Hayes

Date and Time of Instruction: 11/28/07 @ 9:22 A

Date & Time Form Given to Sample Control: 11/28/07

CLIENT SERVICES REP. SIGNATURE: [Signature]

DATE/TIME: 11/28/07

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

Lisa Race

From: Sandy Hayes [shayes@stratusinc.net]
Sent: Wednesday, November 28, 2007 9:22 AM
To: Lisa Race
Subject: RE: problem COC for BP11132 - MQK0754
Attachments: Revised COC 11132.pdf

Hi Lisa,

The revised COC is attached.

Thank you,

REVISED

Sandy Hayes
Stratus Environmental, Inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682
shayes@stratusinc.net
Phone: 530.313.9964
Fax: 530.676.6005

-----Original Message-----

From: Lisa Race [mailto:lisa.race@testamericainc.com]
Sent: Wednesday, November 28, 2007 8:31 AM
To: knagaraju@stratusinc.net; scarter@stratusinc.net; Sandy Hayes; Scott Bittinger; Sonia Nandi
Subject: problem COC for BP11132 - MQK0754

The matrix on the attached COC is marked as water but the samples received with the COC are air. Please send a corrected COC or let me know if this COC does not go with the air samples.

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

LISA RACE
Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Morgan Hill, CA 95037
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11/28/2007



Chain of Custody Record

REVISED

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): STD TMT

On-site Time: <u>0700</u>	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
Morgan Hill, CA 95937	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-299-8891/925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO	BTEX	5-Oxygenates	MTBE	24-hours	
1	11132 A 545 INF	1835	11/26/07	X	X		M&K0754	2											
2																			5 Oxygenates = MTBE, DIPE
3	11132 A 545 INF	1805	11/27/07	X	X		02	2											TBA, ETBE, and TAME
4	11132 A 545 INF	1320	11/27/07	X	X		03	2											
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature] Stratus</u>	Date: <u>11-27-07</u>	Time: <u>1530</u>	Accepted By / Affiliation: <u>[Signature] TAMM</u>	Date: <u>11-27-07</u>	Time: <u>1530</u>
Shipment Date: <u>11-27-07</u>						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Please cc results to bpedf@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



bp
A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): STD TAT

On-site Time: <u>0700</u>	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156/ 408-782-6308</u>	Enfos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</u>	Report Type & QC Level: <u>Level I with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-299-8891/ 925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis				Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO	BTEX	5-Oxygenates	MTBE	24-hours	Standard	
1	11132 A SYS INF	1835	11/24	X			MQK0754	2						X	X	X		X	5 Oxygenates = MTBE, DIPE	
2																			TBA, ETBE, and TAME	
3	11132 A SYS INF	1805	11/27	X			02	2						X	X	X		X		
4	11132 A SYS INF	1320	11/27	X			03	2						X	X	X		X		
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>Chris Hill Stratus</u>	Date: <u>11/27/11</u>	Time: <u>1530</u>	Accepted By / Affiliation: <u>[Signature] (TAMH)</u>	Date: <u>11-27-11</u>	Time: <u>1720</u>
Shipment Date: <u>11-27-11</u>						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Please cc results to bpedf@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

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 11132
 REC. BY (PRINT) D.V.
 WORKORDER: MOK0754

DATE REC'D AT LAB: 11/27/07
 TIME REC'D AT LAB: 1720
 DATE LOGGED IN: 11/27/07

For Regulatory Purposes?
 DRINKING WATER
 WASTE WATER
 OTHER

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <u>Absent</u> Intact / Broken*	01	11132 ABYS INF	2 tedlar	—	—	air	11/26/07	/
2. Chain-of-Custody <u>Present</u> / Absent*	02	↓	↓	↓	↓	↓	11/27/07	
3. Traffic Reports or Packing List: Present / <u>Absent</u>	03	↓	↓	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / <u>Absent</u>								
5. Airbill #:								
6. Sample Labels: <u>Present</u> / Absent								
7. Sample IDs: <u>Listed</u> / Not Listed on Chain-of-Custody								
8. Sample Condition: <u>Intact</u> / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <u>Yes</u> / No*								
10. Sample received within hold time? <u>Yes</u> / No*								
11. Adequate sample volume received? <u>Yes</u> / No*								
12. Proper preservatives used? <u>Yes</u> / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes) <u>Yes</u> / <u>No</u> *								
14. Read Temp: Correction Factor: _____ Corrected Temp: _____ Is corrected temp. 0-6°C? <u>Yes</u> / No**								

11/27/07
D.V.

**Exception (if any): Metals / Perchlorate
 DFF on Ice or Problem COC AR

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

13 December, 2007

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

RE: BP Heritage #11132, Oakland, CA
Work Order: MQK0810

Enclosed are the results of analyses for samples received by the laboratory on 11/28/07 17:25. 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 #11132, Oakland, CA Project Number: G07TS-0038 Project Manager: Jay Johnson	MQK0810 Reported: 12/13/07 09:44
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
11132ASYSINF	MQK0810-01	Vapor	11/27/07 18:00	11/28/07 17:25
11132ASYSINF	MQK0810-02	Vapor	11/28/07 08:05	11/28/07 17:25
11132ASYSINF	MQK0810-03	Vapor	11/28/07 13:00	11/28/07 17:25

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0810
Reported:
12/13/07 09:44

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132ASYSINF (MQK0810-01) Vapor Sampled: 11/27/07 18:00 Received: 11/28/07 17:25									
Gasoline Range Organics (C4-C12)	290	50	mg/m³ Air	1	7K29008	11/29/07	11/29/07 14:49	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>113 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>104 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>103 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
Gasoline Range Organics (C4-C12)	82	14	ppmv	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>113 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>104 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>103 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
11132ASYSINF (MQK0810-02) Vapor Sampled: 11/28/07 08:05 Received: 11/28/07 17:25									
Gasoline Range Organics (C4-C12)	2200	50	mg/m³ Air	1	7K29008	11/29/07	11/29/07 15:20	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>110 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>106 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
Gasoline Range Organics (C4-C12)	620	14	ppmv	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>110 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>106 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
11132ASYSINF (MQK0810-03) Vapor Sampled: 11/28/07 13:00 Received: 11/28/07 17:25									
Gasoline Range Organics (C4-C12)	2900	50	mg/m³ Air	1	7K29008	11/29/07	11/29/07 15:51	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>110 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>105 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>104 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
Gasoline Range Organics (C4-C12)	810	14	ppmv	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>110 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>105 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>104 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

TestAmerica Morgan Hill

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0810
Reported:
12/13/07 09:44

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132ASYSINF (MQK0810-01) Vapor Sampled: 11/27/07 18:00 Received: 11/28/07 17:25									
Methyl tert-butyl ether	2.1	0.50	mg/m ³ Air	1	7K29008	11/29/07	11/29/07 14:49	EPA 8260B	
Benzene	0.85	0.50	"	"	"	"	"	"	
Toluene	1.4	0.50	"	"	"	"	"	"	
Ethylbenzene	2.0	0.50	"	"	"	"	"	"	
Xylenes (total)	3.1	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	75-120		"	"	"	"	
Benzene	0.27	0.16	ppmv	"	"	"	"	"	
Ethylbenzene	0.45	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	0.58	0.14	"	"	"	"	"	"	
Toluene	0.38	0.13	"	"	"	"	"	"	
Xylenes (total)	0.71	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	75-120		"	"	"	"	
11132ASYSINF (MQK0810-02) Vapor Sampled: 11/28/07 08:05 Received: 11/28/07 17:25									
Methyl tert-butyl ether	2.5	0.50	mg/m ³ Air	1	7K29008	11/29/07	11/29/07 15:20	EPA 8260B	
Benzene	13	0.50	"	"	"	"	"	"	
Toluene	4.0	0.50	"	"	"	"	"	"	
Ethylbenzene	5.0	0.50	"	"	"	"	"	"	
Xylenes (total)	14	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	75-120		"	"	"	"	
Benzene	3.9	0.16	ppmv	"	"	"	"	"	
Ethylbenzene	1.1	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	0.70	0.14	"	"	"	"	"	"	
Toluene	1.1	0.13	"	"	"	"	"	"	
Xylenes (total)	3.3	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	55-130		"	"	"	"	

TestAmerica Morgan Hill

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0810
Reported:
12/13/07 09:44

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132ASYSINF (MQK0810-02) Vapor Sampled: 11/28/07 08:05 Received: 11/28/07 17:25									
<i>Surrogate: Dibromofluoromethane</i>		106 %	75-130		7K29008	11/29/07	11/29/07 15:20	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %	75-120		"	"	"	"	
11132ASYSINF (MQK0810-03) Vapor Sampled: 11/28/07 13:00 Received: 11/28/07 17:25									
Methyl tert-butyl ether	4.3	0.50	mg/m ³ Air	1	7K29008	11/29/07	11/29/07 15:51	EPA 8260B	
Benzene	9.6	0.50	"	"	"	"	"	"	
Toluene	5.4	0.50	"	"	"	"	"	"	
Ethylbenzene	7.0	0.50	"	"	"	"	"	"	
Xylenes (total)	25	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	75-120		"	"	"	"	
Benzene	3.0	0.16	ppmv	"	"	"	"	"	
Ethylbenzene	1.6	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	1.2	0.14	"	"	"	"	"	"	
Toluene	1.4	0.13	"	"	"	"	"	"	
Xylenes (total)	5.8	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	75-120		"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0810
Reported:
12/13/07 09:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K29008 - EPA 5030B P/T / LUFT GCMS

Blank (7K29008-BLK1)

Prepared & Analyzed: 11/29/07

Gasoline Range Organics (C4-C12)	ND	14	ppmv							
Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air							
Surrogate: 1,2-Dichloroethane-d4	0.572		ppmv	0.594		96	60-150			
Surrogate: 1,2-Dichloroethane-d4	2.41		mg/m ³ Air	2.50		96	60-150			
Surrogate: 4-Bromofluorobenzene	0.326		ppmv	0.349		93	55-130			
Surrogate: 4-Bromofluorobenzene	2.33		mg/m ³ Air	2.50		93	55-130			
Surrogate: Dibromofluoromethane	2.35		"	2.50		94	75-130			
Surrogate: Dibromofluoromethane	0.299		ppmv	0.318		94	75-130			
Surrogate: Toluene-d8	0.657		"	0.665		99	75-120			
Surrogate: Toluene-d8	2.47		mg/m ³ Air	2.50		99	75-120			

Laboratory Control Sample (7K29008-BS2)

Prepared & Analyzed: 11/29/07

Gasoline Range Organics (C4-C12)	120	14	ppmv	142		85	55-130			
Gasoline Range Organics (C4-C12)	425	50	mg/m ³ Air	500		85	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.49		"	2.50		100	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.591		ppmv	0.594		100	60-150			
Surrogate: 4-Bromofluorobenzene	0.351		"	0.349		100	55-130			
Surrogate: 4-Bromofluorobenzene	2.51		mg/m ³ Air	2.50		100	55-130			
Surrogate: Dibromofluoromethane	0.308		ppmv	0.318		97	75-130			
Surrogate: Dibromofluoromethane	2.42		mg/m ³ Air	2.50		97	75-130			
Surrogate: Toluene-d8	0.694		ppmv	0.665		104	75-120			
Surrogate: Toluene-d8	2.61		mg/m ³ Air	2.50		104	75-120			

Laboratory Control Sample Dup (7K29008-BSD2)

Prepared & Analyzed: 11/29/07

Gasoline Range Organics (C4-C12)	119	14	ppmv	142		84	55-130	0.9	20	
Gasoline Range Organics (C4-C12)	421	50	mg/m ³ Air	500		84	55-130	0.9	20	
Surrogate: 1,2-Dichloroethane-d4	2.59		"	2.50		104	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.615		ppmv	0.594		104	60-150			
Surrogate: 4-Bromofluorobenzene	2.49		mg/m ³ Air	2.50		100	55-130			
Surrogate: 4-Bromofluorobenzene	0.348		ppmv	0.349		100	55-130			
Surrogate: Dibromofluoromethane	0.315		"	0.318		99	75-130			
Surrogate: Dibromofluoromethane	2.47		mg/m ³ Air	2.50		99	75-130			
Surrogate: Toluene-d8	0.691		ppmv	0.665		104	75-120			
Surrogate: Toluene-d8	2.60		mg/m ³ Air	2.50		104	75-120			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0810
Reported:
12/13/07 09:44

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K29008 - EPA 5030B P/T / EPA 8260B

Blank (7K29008-BLK1)

Prepared & Analyzed: 11/29/07

Methyl tert-butyl ether	ND	0.50	mg/m ³ Air							
Benzene	ND	0.16	ppmv							
Benzene	ND	0.50	mg/m ³ Air							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Ethylbenzene	ND	0.12	ppmv							
Methyl tert-butyl ether	ND	0.14	"							
Toluene	ND	0.13	"							
Xylenes (total)	ND	0.12	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.41		mg/m ³ Air	2.50		96	60-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.572		ppmv	0.594		96	60-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.33		mg/m ³ Air	2.50		93	55-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.326		ppmv	0.349		93	55-130			
<i>Surrogate: Dibromofluoromethane</i>	2.35		mg/m ³ Air	2.50		94	75-130			
<i>Surrogate: Dibromofluoromethane</i>	0.299		ppmv	0.318		94	75-130			
<i>Surrogate: Toluene-d8</i>	2.47		mg/m ³ Air	2.50		99	75-120			
<i>Surrogate: Toluene-d8</i>	0.657		ppmv	0.665		99	75-120			

Laboratory Control Sample (7K29008-BS1)

Prepared & Analyzed: 11/29/07

Methyl tert-butyl ether	9.85	0.50	mg/m ³ Air	10.0		98	80-130			
Benzene	3.09	0.16	ppmv	3.14		99	75-120			
Benzene	9.85	0.50	mg/m ³ Air	10.0		98	75-120			
Toluene	10.2	0.50	"	10.0		102	80-120			
Ethylbenzene	10.6	0.50	"	10.0		106	80-125			
Xylenes (total)	32.4	0.50	"	30.0		108	80-125			
Ethylbenzene	2.46	0.12	ppmv	2.31		106	80-125			
Methyl tert-butyl ether	2.74	0.14	"	2.78		99	80-130			
Toluene	2.73	0.13	"	2.66		102	80-120			
Xylenes (total)	7.48	0.12	"	6.92		108	80-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.36		mg/m ³ Air	2.50		94	60-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.560		ppmv	0.594		94	60-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.52		mg/m ³ Air	2.50		101	55-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.352		ppmv	0.349		101	55-130			
<i>Surrogate: Dibromofluoromethane</i>	2.49		mg/m ³ Air	2.50		100	75-130			
<i>Surrogate: Dibromofluoromethane</i>	0.317		ppmv	0.318		100	75-130			

TestAmerica Morgan Hill

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0810
Reported:
12/13/07 09:44

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K29008 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (7K29008-BS1)

Prepared & Analyzed: 11/29/07

Surrogate: Toluene-d8	2.58		mg/m ³ Air	2.50		103	75-120			
Surrogate: Toluene-d8	0.686		ppmv	0.665		103	75-120			

Laboratory Control Sample Dup (7K29008-BSD1)

Prepared & Analyzed: 11/29/07

Methyl tert-butyl ether	9.56	0.50	mg/m ³ Air	10.0		96	80-130	3	25	
Benzene	3.09	0.16	ppmv	3.14		99	75-120	0	20	
Benzene	9.85	0.50	mg/m ³ Air	10.0		98	75-120	0	20	
Toluene	10.0	0.50	"	10.0		100	80-120	2	25	
Ethylbenzene	10.6	0.50	"	10.0		106	80-125	0.5	20	
Xylenes (total)	32.0	0.50	"	30.0		107	80-125	1	20	
Ethylbenzene	2.45	0.12	ppmv	2.31		106	80-125	0.5	20	
Methyl tert-butyl ether	2.66	0.14	"	2.78		96	80-130	3	25	
Toluene	2.67	0.13	"	2.66		100	80-120	2	25	
Xylenes (total)	7.39	0.12	"	6.92		107	80-125	1	20	
Surrogate: 1,2-Dichloroethane-d4	2.47		mg/m ³ Air	2.50		99	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.587		ppmv	0.594		99	60-150			
Surrogate: 4-Bromofluorobenzene	2.57		mg/m ³ Air	2.50		103	55-130			
Surrogate: 4-Bromofluorobenzene	0.359		ppmv	0.349		103	55-130			
Surrogate: Dibromofluoromethane	2.48		mg/m ³ Air	2.50		99	75-130			
Surrogate: Dibromofluoromethane	0.316		ppmv	0.318		99	75-130			
Surrogate: Toluene-d8	2.60		mg/m ³ Air	2.50		104	75-120			
Surrogate: Toluene-d8	0.691		ppmv	0.665		104	75-120			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0810
Reported:
12/13/07 09:44

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

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 5/10/07

On-site Time: <u>0500</u>	Temp:
Off-site Time: <u>1900</u>	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0608100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</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>shayes@stratusinc.net</u>
Tele/Fax: <u>925-299-8891/925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	ORO	BTEX	MTBE	24-hours	Standard	
1	11132ASYSINF	1800	11/27		X		01	2						X	X	X	X		
2																			
3	11132ASYSINF	0805	11/28		X		02	2						X	X	X	X		
4	11132ASYSINF	1300	11/28		X		03	2						X	X	X	X		
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature] Stratus</u>	Date: <u>11/28/07</u>	Time: <u>1340</u>	Accepted By / Affiliation: <u>[Signature] (TAMU)</u>	Date: <u>11/28/07</u>	Time: <u>1540</u>
Shipment Date: <u>11/28/07</u>		Date: <u>11/28/07</u>	Time: <u>1725</u>		Date: <u>11/28/07</u>	Time: <u>1725</u>

Special Instructions: Please cc results to bpedf@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

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: APCO 11132
 REC. BY (PRINT) D.V.
 WORKORDER: MOU0810

DATE REC'D AT LAB: 11/28/07
 TIME REC'D AT LAB: 1725
 DATE LOGGED IN: 11/29/07

For Regulatory Purposes?
 DRINKING WATER
 WASTE WATER
 OTHER

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*								<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>SEE COC 11/28/07 D.V.</p> </div>
2. Chain-of-Custody Present / <input checked="" type="radio"/> Absent*								
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent*								
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent*								
5. Airbill #:								
6. Sample Labels: Present / <input checked="" type="radio"/> Absent								
7. Sample IDs: Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: <input checked="" type="radio"/> Intact / 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. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="radio"/> Yes / No*								
14. Read Temp: Correction Factor: _____ Corrected Temp: _____ Is corrected temp. 0-6°C? <input checked="" type="radio"/> Yes / No**								

**Exception (if any): Metals / Perchlorate
 DFF on Ice or Problem COC MR

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

13 December, 2007

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

RE: BP Heritage #11132, Oakland, CA
Work Order: MQK0841

Enclosed are the results of analyses for samples received by the laboratory on 11/29/07 17:50. 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 #11132, Oakland, CA Project Number: G07TS-0038 Project Manager: Jay Johnson	MQK0841 Reported: 12/13/07 16:39
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
11132ASYSINF	MQK0841-01	Vapor	11/28/07 18:05	11/29/07 17:50

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0841
Reported:
12/13/07 16:39

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132ASYSINF (MQK0841-01) Vapor Sampled: 11/28/07 18:05 Received: 11/29/07 17:50									
Gasoline Range Organics (C4-C12)	5200	500	mg/m ³ Air	10	7K30005	11/30/07	11/30/07 14:28	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	75-120		"	"	"	"	
Gasoline Range Organics (C4-C12)	1500	140	ppmv	10	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	60-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	55-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	75-120		"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0841
Reported:
12/13/07 16:39

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132ASYSINF (MQK0841-01) Vapor Sampled: 11/28/07 18:05 Received: 11/29/07 17:50									
Methyl tert-butyl ether	3.7	0.50	mg/m ³ Air	1	7K30005	11/30/07	11/30/07 12:24	EPA 8260B	
Benzene	7.5	0.50	"	"	"	"	"	"	
Toluene	4.2	0.50	"	"	"	"	"	"	
Ethylbenzene	6.8	0.50	"	"	"	"	"	"	
Xylenes (total)	24	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>103 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>102 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>106 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
Benzene	2.4	0.16	ppmv	"	"	"	"	"	
Ethylbenzene	1.6	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	1.0	0.14	"	"	"	"	"	"	
Toluene	1.1	0.13	"	"	"	"	"	"	
Xylenes (total)	5.5	0.12	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>103 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>102 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>106 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0841
Reported:
12/13/07 16:39

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K30005 - EPA 5030B P/T / LUFT GCMS

Blank (7K30005-BLK1)

Prepared & Analyzed: 11/30/07

Gasoline Range Organics (C4-C12)	ND	14	ppmv							
Gasoline Range Organics (C4-C12)	ND	50	mg/m ³ Air							
Surrogate: 1,2-Dichloroethane-d4	0.589		ppmv	0.594		99	60-150			
Surrogate: 1,2-Dichloroethane-d4	2.48		mg/m ³ Air	2.50		99	60-150			
Surrogate: 4-Bromofluorobenzene	0.333		ppmv	0.349		95	55-130			
Surrogate: 4-Bromofluorobenzene	2.38		mg/m ³ Air	2.50		95	55-130			
Surrogate: Dibromofluoromethane	2.34		"	2.50		94	75-130			
Surrogate: Dibromofluoromethane	0.298		ppmv	0.318		94	75-130			
Surrogate: Toluene-d8	0.665		"	0.665		100	75-120			
Surrogate: Toluene-d8	2.50		mg/m ³ Air	2.50		100	75-120			

Laboratory Control Sample (7K30005-BS2)

Prepared & Analyzed: 11/30/07

Gasoline Range Organics (C4-C12)	140	14	ppmv	142		99	55-130			
Gasoline Range Organics (C4-C12)	493	50	mg/m ³ Air	500		99	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.72		"	2.50		109	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.646		ppmv	0.594		109	60-150			
Surrogate: 4-Bromofluorobenzene	0.363		"	0.349		104	55-130			
Surrogate: 4-Bromofluorobenzene	2.60		mg/m ³ Air	2.50		104	55-130			
Surrogate: Dibromofluoromethane	0.317		ppmv	0.318		100	75-130			
Surrogate: Dibromofluoromethane	2.49		mg/m ³ Air	2.50		100	75-130			
Surrogate: Toluene-d8	0.683		ppmv	0.665		103	75-120			
Surrogate: Toluene-d8	2.57		mg/m ³ Air	2.50		103	75-120			

Laboratory Control Sample Dup (7K30005-BSD2)

Prepared & Analyzed: 11/30/07

Gasoline Range Organics (C4-C12)	139	14	ppmv	142		98	55-130	0.8	20	
Gasoline Range Organics (C4-C12)	489	50	mg/m ³ Air	500		98	55-130	0.8	20	
Surrogate: 1,2-Dichloroethane-d4	2.74		"	2.50		110	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.651		ppmv	0.594		110	60-150			
Surrogate: 4-Bromofluorobenzene	2.62		mg/m ³ Air	2.50		105	55-130			
Surrogate: 4-Bromofluorobenzene	0.366		ppmv	0.349		105	55-130			
Surrogate: Dibromofluoromethane	0.315		"	0.318		99	75-130			
Surrogate: Dibromofluoromethane	2.47		mg/m ³ Air	2.50		99	75-130			
Surrogate: Toluene-d8	0.694		ppmv	0.665		104	75-120			
Surrogate: Toluene-d8	2.61		mg/m ³ Air	2.50		104	75-120			

TestAmerica Morgan Hill

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0841
Reported:
12/13/07 16:39

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K30005 - EPA 5030B P/T / EPA 8260B

Blank (7K30005-BLK1)

Prepared & Analyzed: 11/30/07

Methyl tert-butyl ether	ND	0.50	mg/m ³ Air							
Benzene	ND	0.16	ppmv							
Benzene	ND	0.50	mg/m ³ Air							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Ethylbenzene	ND	0.12	ppmv							
Methyl tert-butyl ether	ND	0.14	"							
Toluene	ND	0.13	"							
Xylenes (total)	ND	0.12	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.48		mg/m ³ Air	2.50		99	60-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.589		ppmv	0.594		99	60-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.38		mg/m ³ Air	2.50		95	55-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.333		ppmv	0.349		95	55-130			
<i>Surrogate: Dibromofluoromethane</i>	2.34		mg/m ³ Air	2.50		94	75-130			
<i>Surrogate: Dibromofluoromethane</i>	0.298		ppmv	0.318		94	75-130			
<i>Surrogate: Toluene-d8</i>	2.50		mg/m ³ Air	2.50		100	75-120			
<i>Surrogate: Toluene-d8</i>	0.665		ppmv	0.665		100	75-120			

Laboratory Control Sample (7K30005-BS1)

Prepared & Analyzed: 11/30/07

Methyl tert-butyl ether	10.2	0.50	mg/m ³ Air	10.0		102	80-130			
Benzene	3.59	0.16	ppmv	3.14		114	75-120			
Benzene	11.4	0.50	mg/m ³ Air	10.0		114	75-120			
Toluene	11.2	0.50	"	10.0		112	80-120			
Ethylbenzene	11.9	0.50	"	10.0		119	80-125			
Xylenes (total)	35.9	0.50	"	30.0		120	80-125			
Ethylbenzene	2.74	0.12	ppmv	2.31		119	80-125			
Methyl tert-butyl ether	2.83	0.14	"	2.78		102	80-130			
Toluene	2.98	0.13	"	2.66		112	80-120			
Xylenes (total)	8.28	0.12	"	6.92		120	80-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.44		mg/m ³ Air	2.50		98	60-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.579		ppmv	0.594		98	60-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.50		mg/m ³ Air	2.50		100	55-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.349		ppmv	0.349		100	55-130			
<i>Surrogate: Dibromofluoromethane</i>	2.51		mg/m ³ Air	2.50		100	75-130			
<i>Surrogate: Dibromofluoromethane</i>	0.320		ppmv	0.318		100	75-130			

TestAmerica Morgan Hill

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0841
Reported:
12/13/07 16:39

Purgeable Hydrocarbons and Volatile Organic Compounds by EPA method 8260B - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K30005 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (7K30005-BS1)

Prepared & Analyzed: 11/30/07

Surrogate: Toluene-d8	2.58		mg/m ³ Air	2.50		103	75-120			
Surrogate: Toluene-d8	0.686		ppmv	0.665		103	75-120			

Laboratory Control Sample Dup (7K30005-BSD1)

Prepared & Analyzed: 11/30/07

Methyl tert-butyl ether	10.1	0.50	mg/m ³ Air	10.0		101	80-130	1	25	
Benzene	3.32	0.16	ppmv	3.14		106	75-120	8	20	
Benzene	10.6	0.50	mg/m ³ Air	10.0		106	75-120	8	20	
Toluene	10.5	0.50	"	10.0		105	80-120	6	25	
Ethylbenzene	11.2	0.50	"	10.0		112	80-125	6	20	
Xylenes (total)	33.7	0.50	"	30.0		112	80-125	6	20	
Ethylbenzene	2.58	0.12	ppmv	2.31		112	80-125	6	20	
Methyl tert-butyl ether	2.80	0.14	"	2.78		101	80-130	1	25	
Toluene	2.80	0.13	"	2.66		105	80-120	6	25	
Xylenes (total)	7.78	0.12	"	6.92		112	80-125	6	20	
Surrogate: 1,2-Dichloroethane-d4	2.47		mg/m ³ Air	2.50		99	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.587		ppmv	0.594		99	60-150			
Surrogate: 4-Bromofluorobenzene	2.63		mg/m ³ Air	2.50		105	55-130			
Surrogate: 4-Bromofluorobenzene	0.368		ppmv	0.349		105	55-130			
Surrogate: Dibromofluoromethane	2.59		mg/m ³ Air	2.50		104	75-130			
Surrogate: Dibromofluoromethane	0.330		ppmv	0.318		104	75-130			
Surrogate: Toluene-d8	2.56		mg/m ³ Air	2.50		102	75-120			
Surrogate: Toluene-d8	0.681		ppmv	0.665		102	75-120			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0841
Reported:
12/13/07 16:39

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: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): April 2007

On-site Time: <u>0500</u>	Temp:
Off-site Time: <u>1900</u>	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156 / 408-782-6308</u>	Enfos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</u>	Report Type & QC Level: <u>Level I with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-299-8891 / 925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoices to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO	BTEX	MTBE	24-hours	Standard	
1	11132 A S45 In/F	1805	11/28/07		X		010	2					X	X		X			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name:	Requested By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
<u>Chris Hill</u>	<u>Chris Hill / Stratus</u>	<u>11/28/07</u>	<u>0830</u>	<u>Chris Hill / Stratus</u>	<u>11/29/07</u>	<u>0830</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>	<u>Chris Hill</u>	<u>11/29</u>	<u>1500</u>	<u>Chris Hill / Stratus</u>	<u>11/29/07</u>	<u>1500</u>
Shipment Date: <u>11/29/07</u>	<u>Chris Hill</u>	<u>11/29</u>	<u>1750</u>	<u>Windy Medeiros</u>	<u>11/29/07</u>	<u>1750</u>
Shipment Method: <u>Stada</u>	<u>Chris Hill</u>					
Shipment Tracking No:						

Special Instructions: Please cc results to bpedf@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

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO
REC. BY (PRINT) A.M.
WORKORDER: MOX 0841

DATE REC'D AT LAB: 11/29/07
TIME REC'D AT LAB: 1750
DATE LOGGED IN: 11/29/07

For Regulatory Purposes?
 DRINKING WATER
 WASTE WATER
 OTHER

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*								See COC 11/29/07 A.M.
2. Chain-of-Custody Present / <input checked="" type="radio"/> Absent*								
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent								
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent								
5. Airbill #:								
6. Sample Labels: Present / Absent								
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: <input checked="" type="radio"/> Intact / 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. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
14. Read Temp: _____ Correction Factor: _____ Corrected Temp: _____ Is corrected temp. 0-6°C? <input checked="" type="radio"/> Yes / <input type="radio"/> No*								
**Exception (if any): Metals / Perchlorate DFF on Ice or Problem COC <u>Airbags</u>								

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

10 December, 2007

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

RE: BP Heritage #11132, Oakland, CA
Work Order: MQK0741

Enclosed are the results of analyses for samples received by the laboratory on 11/26/07 16:20. 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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741
Reported:
12/10/07 15:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
11132WINF	MQK0741-01	Water	11/26/07 08:10	11/26/07 16:20
11132WINF	MQK0741-02	Water	11/26/07 13:00	11/26/07 16:20

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741
Reported:
12/10/07 15:48

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132WINF (MQK0741-01) Water Sampled: 11/26/07 08:10 Received: 11/26/07 16:20									
Gasoline Range Organics (C4-C12)	2600	50	ug/l	1	7K28035	11/28/07	11/29/07	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>118 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>104 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>104 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>102 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
11132WINF (MQK0741-02) Water Sampled: 11/26/07 13:00 Received: 11/26/07 16:20									
Gasoline Range Organics (C4-C12)	570	50	ug/l	1	7K28035	11/28/07	11/29/07	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>106 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>100 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>103 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741
Reported:
12/10/07 15:48

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132WINF (MQK0741-01) Water Sampled: 11/26/07 08:10 Received: 11/26/07 16:20									
tert-Amyl methyl ether	6.4	2.5	ug/l	5	7L01001	11/30/07	12/01/07	EPA 8260B	
Benzene	110	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	420	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	110	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	230	2.5	"	"	"	"	"	"	
Toluene	180	2.5	"	"	"	"	"	"	
Xylenes (total)	560	2.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %		75-130	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		117 %		60-150	"	"	"	"	
Surrogate: Toluene-d8		104 %		75-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		55-130	"	"	"	"	
11132WINF (MQK0741-02) Water Sampled: 11/26/07 13:00 Received: 11/26/07 16:20									
tert-Amyl methyl ether	2.4	0.50	ug/l	1	7K28035	11/28/07	11/29/07	EPA 8260B	
Benzene	16	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	620	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	24	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	93	0.50	"	"	"	"	"	"	
Toluene	22	0.50	"	"	"	"	"	"	
Xylenes (total)	77	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %		75-130	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %		60-150	"	"	"	"	
Surrogate: Toluene-d8		103 %		75-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %		55-130	"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741
Reported:
12/10/07 15:48

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 7K28035 - EPA 5030B P/T / LUFT GCMS

Blank (7K28035-BLK1)

Prepared & Analyzed: 11/28/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.58		"	2.50		103	60-150			
Surrogate: Dibromofluoromethane	2.46		"	2.50		98	75-130			
Surrogate: Toluene-d8	2.42		"	2.50		97	75-120			
Surrogate: 4-Bromofluorobenzene	2.30		"	2.50		92	55-130			

Laboratory Control Sample (7K28035-BS2)

Prepared & Analyzed: 11/28/07

Gasoline Range Organics (C4-C12)	435	50	ug/l	500		87	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.46		"	2.50		98	60-150			
Surrogate: Dibromofluoromethane	2.55		"	2.50		102	75-130			
Surrogate: Toluene-d8	2.60		"	2.50		104	75-120			
Surrogate: 4-Bromofluorobenzene	2.52		"	2.50		101	55-130			

Laboratory Control Sample Dup (7K28035-BSD2)

Prepared & Analyzed: 11/28/07

Gasoline Range Organics (C4-C12)	408	50	ug/l	500		82	55-130	7	20	
Surrogate: 1,2-Dichloroethane-d4	2.54		"	2.50		102	60-150			
Surrogate: Dibromofluoromethane	2.44		"	2.50		98	75-130			
Surrogate: Toluene-d8	2.60		"	2.50		104	75-120			
Surrogate: 4-Bromofluorobenzene	2.58		"	2.50		103	55-130			

Matrix Spike (7K28035-MS1)

Source: MQK0797-01

Prepared & Analyzed: 11/28/07

Gasoline Range Organics (C4-C12)	590	50	ug/l	550	91.2	91	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.54		"	2.50		102	60-150			
Surrogate: Dibromofluoromethane	2.57		"	2.50		103	75-130			
Surrogate: Toluene-d8	2.64		"	2.50		106	75-120			
Surrogate: 4-Bromofluorobenzene	2.59		"	2.50		104	55-130			

Matrix Spike Dup (7K28035-MSD1)

Source: MQK0797-01

Prepared: 11/28/07 Analyzed: 11/29/07

Gasoline Range Organics (C4-C12)	567	50	ug/l	550	91.2	87	25-150	4	20	
Surrogate: 1,2-Dichloroethane-d4	2.44		"	2.50		98	60-150			
Surrogate: Dibromofluoromethane	2.65		"	2.50		106	75-130			
Surrogate: Toluene-d8	2.58		"	2.50		103	75-120			
Surrogate: 4-Bromofluorobenzene	2.54		"	2.50		102	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741
Reported:
12/10/07 15:48

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 7K28035 - EPA 5030B P/T / EPA 8260B

Blank (7K28035-BLK1)

Prepared & Analyzed: 11/28/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
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>	2.46		"	2.50		98	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.58		"	2.50		103	60-150			
<i>Surrogate: Toluene-d8</i>	2.42		"	2.50		97	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.30		"	2.50		92	55-130			

Laboratory Control Sample (7K28035-BS1)

Prepared & Analyzed: 11/28/07

tert-Amyl methyl ether	10.2	0.50	ug/l	10.0		102	75-125			
Benzene	9.63	0.50	"	10.0		96	75-120			
tert-Butyl alcohol	213	20	"	200		107	80-120			
Di-isopropyl ether	9.59	0.50	"	10.0		96	70-130			
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	75-130			
Ethylbenzene	10.3	0.50	"	10.0		103	80-125			
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	80-130			
Toluene	9.91	0.50	"	10.0		99	80-120			
Xylenes (total)	31.6	0.50	"	30.0		105	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.56		"	2.50		102	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.43		"	2.50		97	60-150			
<i>Surrogate: Toluene-d8</i>	2.62		"	2.50		105	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.50		"	2.50		100	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741
Reported:
12/10/07 15:48

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 7K28035 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7K28035-MS1)	Source: MQK0797-01			Prepared & Analyzed: 11/28/07						
tert-Amyl methyl ether	11.1	0.50	ug/l	10.0	ND	111	75-140			
Benzene	10.0	0.50	"	10.0	0.120	99	80-120			
tert-Butyl alcohol	232	20	"	200	ND	116	80-125			
Di-isopropyl ether	10.1	0.50	"	10.0	ND	101	75-135			
Ethyl tert-butyl ether	10.7	0.50	"	10.0	ND	107	80-135			
Ethylbenzene	10.3	0.50	"	10.0	ND	103	75-130			
Methyl tert-butyl ether	10.7	0.50	"	10.0	ND	107	75-145			
Toluene	10.2	0.50	"	10.0	0.360	99	80-125			
Xylenes (total)	31.5	0.50	"	30.0	0.340	104	75-125			
<i>Surrogate: Dibromofluoromethane</i>	2.57		"	2.50		103	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.54		"	2.50		102	60-150			
<i>Surrogate: Toluene-d8</i>	2.64		"	2.50		106	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.59		"	2.50		104	55-130			

Matrix Spike Dup (7K28035-MSD1)	Source: MQK0797-01			Prepared: 11/28/07 Analyzed: 11/29/07						
tert-Amyl methyl ether	10.6	0.50	ug/l	10.0	ND	106	75-140	4	25	
Benzene	9.96	0.50	"	10.0	0.120	98	80-120	0.4	20	
tert-Butyl alcohol	231	20	"	200	ND	115	80-125	0.3	25	
Di-isopropyl ether	9.97	0.50	"	10.0	ND	100	75-135	1	25	
Ethyl tert-butyl ether	10.4	0.50	"	10.0	ND	104	80-135	3	25	
Ethylbenzene	10.4	0.50	"	10.0	ND	104	75-130	0.9	20	
Methyl tert-butyl ether	9.97	0.50	"	10.0	ND	100	75-145	7	25	
Toluene	10.3	0.50	"	10.0	0.360	99	80-125	0.6	25	
Xylenes (total)	31.7	0.50	"	30.0	0.340	104	75-125	0.6	20	
<i>Surrogate: Dibromofluoromethane</i>	2.65		"	2.50		106	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.44		"	2.50		98	60-150			
<i>Surrogate: Toluene-d8</i>	2.58		"	2.50		103	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.54		"	2.50		102	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741
Reported:
12/10/07 15:48

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 7L01001 - EPA 5030B P/T / EPA 8260B

Blank (7L01001-BLK1)

Prepared & Analyzed: 12/01/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
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>	2.53		"	2.50		101	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.73		"	2.50		109	60-150			
<i>Surrogate: Toluene-d8</i>	2.47		"	2.50		99	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.42		"	2.50		97	55-130			

Laboratory Control Sample (7L01001-BS1)

Prepared & Analyzed: 12/01/07

tert-Amyl methyl ether	11.6	0.50	ug/l	10.0		116	75-125			
Benzene	10.8	0.50	"	10.0		108	75-120			
tert-Butyl alcohol	195	20	"	200		98	80-120			
Di-isopropyl ether	11.1	0.50	"	10.0		111	70-130			
Ethyl tert-butyl ether	11.1	0.50	"	10.0		111	75-130			
Ethylbenzene	11.2	0.50	"	10.0		112	80-125			
Methyl tert-butyl ether	10.6	0.50	"	10.0		106	80-130			
Toluene	10.4	0.50	"	10.0		104	80-120			
Xylenes (total)	33.5	0.50	"	30.0		112	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.58		"	2.50		103	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.48		"	2.50		99	60-150			
<i>Surrogate: Toluene-d8</i>	2.52		"	2.50		101	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.59		"	2.50		104	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741
Reported:
12/10/07 15:48

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 7L01001 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7L01001-MS1)	Source: MQK0823-02			Prepared & Analyzed: 12/01/07						
tert-Amyl methyl ether	13.5	0.50	ug/l	10.0	ND	135	75-140			
Benzene	12.5	0.50	"	10.0	ND	125	80-120			LM
tert-Butyl alcohol	228	20	"	200	ND	114	80-125			
Di-isopropyl ether	13.3	0.50	"	10.0	ND	133	75-135			
Ethyl tert-butyl ether	13.4	0.50	"	10.0	ND	134	80-135			
Ethylbenzene	12.5	0.50	"	10.0	ND	125	75-130			
Methyl tert-butyl ether	48.9	0.50	"	10.0	36.3	126	75-145			
Toluene	11.8	0.50	"	10.0	ND	118	80-125			
Xylenes (total)	38.0	0.50	"	30.0	0.160	126	75-125			LM
<i>Surrogate: Dibromofluoromethane</i>	2.57		"	2.50		103	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.65		"	2.50		106	60-150			
<i>Surrogate: Toluene-d8</i>	2.43		"	2.50		97	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.55		"	2.50		102	55-130			

Matrix Spike Dup (7L01001-MSD1)	Source: MQK0823-02			Prepared & Analyzed: 12/01/07						
tert-Amyl methyl ether	13.7	0.50	ug/l	10.0	ND	137	75-140	1	25	
Benzene	12.2	0.50	"	10.0	ND	122	80-120	3	20	LM
tert-Butyl alcohol	216	20	"	200	ND	108	80-125	6	25	
Di-isopropyl ether	13.1	0.50	"	10.0	ND	131	75-135	1	25	
Ethyl tert-butyl ether	13.2	0.50	"	10.0	ND	132	80-135	2	25	
Ethylbenzene	12.3	0.50	"	10.0	ND	123	75-130	2	20	
Methyl tert-butyl ether	48.2	0.50	"	10.0	36.3	119	75-145	1	25	
Toluene	11.6	0.50	"	10.0	ND	116	80-125	2	25	
Xylenes (total)	37.0	0.50	"	30.0	0.160	123	75-125	2	20	
<i>Surrogate: Dibromofluoromethane</i>	2.67		"	2.50		107	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.77		"	2.50		111	60-150			
<i>Surrogate: Toluene-d8</i>	2.50		"	2.50		100	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.51		"	2.50		100	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741
Reported:
12/10/07 15:48

Notes and Definitions

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

Atlantic Richfield Company

bp
A BP affiliated company

MP

Chain of Custody Record

Project Name: ARCO Facility No. 6106
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): SFD

On-site Time: <u>0400</u>	Temp:
Off-site Time: <u>1700</u>	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156/408-782-6308</u>	Enfos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-299-8891/925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Turnaround Time		Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaP	Methanol	GRO	BTEX	5-Oxygenates	24-hours	Standard		
1	11132 W IWP	0810	11/24/07	X			01	5				X	X	X				X		5 Oxygenates = MTBE, DIPE	
2	11132 W IWP	1300	11/24/07	X			02	5				X	X	X				X		TBA, ETBE, and TAME	
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Sampler's Name: <u>Chris Hill</u>	Blind/Sealed By / Affiliation: <u>[Signature] Stratus</u>	Date: <u>11/26/07</u>	Time: <u>1500</u>	Accepted By / Affiliation: <u>[Signature] (TAMM)</u>	Date: <u>11/26/07</u>	Time: <u>1500</u>
Shipment Date: <u>11-26-07</u>		Date: <u>11/26/07</u>	Time: <u>1620</u>		Date: <u>11/26/07</u>	Time: <u>1620</u>

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

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 2-8 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: MPID 11132
REC. BY (PRINT): D.V.
WORKORDER: MOK074

DATE REC'D AT LAB: 11/26/07
TIME REC'D AT LAB: 1620
DATE LOGGED IN: 11/27/07

For Regulatory Purposes?
 DRINKING WATER
 WASTE WATER
 OTHER

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*								<div style="position: absolute; top: 10%; left: 10%; font-size: 2em; opacity: 0.5;"> SEE LOG 11/26/07 D.V. </div>
2. Chain-of-Custody Present / <input checked="" type="radio"/> Absent*								
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent								
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent								
5. Airbill #:								
6. Sample Labels: Present / <input checked="" type="radio"/> Absent								
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: <input checked="" type="radio"/> Intact / 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. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / <input checked="" type="radio"/> No								
14. Read Temp: <u>3.8</u> Correction Factor: <u>-1.0</u> Corrected Temp: <u>2.8</u> Is corrected temp. 0-6°C? <input checked="" type="radio"/> Yes / No**								

**Exception (if any): Metals / Perchlorate
 DFF on Ice or Problem COC

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

12 December, 2007

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

RE: BP Heritage #11132, Oakland, CA
Work Order: MQK0792

Enclosed are the results of analyses for samples received by the laboratory on 11/27/07 17:20. 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 #11132, Oakland, CA Project Number: G07TS-0038 Project Manager: Jay Johnson	MQK0792 Reported: 12/12/07 09:51
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
11132WINF	MQK0792-01	Water	11/26/07 18:30	11/27/07 17:20
11132WINF	MQK0792-02	Water	11/27/07 08:00	11/27/07 17:20
11132WINF	MQK0792-03	Water	11/27/07 12:45	11/27/07 17:20

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.

No trip blank was received with these samples.

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0792
Reported:
12/12/07 09:51

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132WINF (MQK0792-01) Water Sampled: 11/26/07 18:30 Received: 11/27/07 17:20									
Gasoline Range Organics (C4-C12)	610	50	ug/l	1	7K28035	11/28/07	11/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		105 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	55-130		"	"	"	"	
11132WINF (MQK0792-02) Water Sampled: 11/27/07 08:00 Received: 11/27/07 17:20									
Gasoline Range Organics (C4-C12)	3000	50	ug/l	1	7K28035	11/28/07	11/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		96 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		101 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	55-130		"	"	"	"	
11132WINF (MQK0792-03) Water Sampled: 11/27/07 12:45 Received: 11/27/07 17:20									
Gasoline Range Organics (C4-C12)	550	50	ug/l	1	7K28035	11/28/07	11/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		102 %	60-150		"	"	"	"	
Surrogate: Dibromofluoromethane		113 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	55-130		"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0792
Reported:
12/12/07 09:51

Volatile Organic Compounds by EPA Method 8260B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11132WINF (MQK0792-01) Water **Sampled: 11/26/07 18:30** **Received: 11/27/07 17:20**

tert-Amyl methyl ether	3.9	0.50	ug/l	1	7K28035	11/28/07	11/29/07	EPA 8260B	
Benzene	22	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	610	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	31	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	150	0.50	"	"	"	"	"	"	
Toluene	23	0.50	"	"	"	"	"	"	
Xylenes (total)	83	0.50	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		102 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		60-150	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %		75-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		55-130	"	"	"	"	

11132WINF (MQK0792-02) Water **Sampled: 11/27/07 08:00** **Received: 11/27/07 17:20**

tert-Amyl methyl ether	4.5	0.50	ug/l	1	7K28035	11/28/07	11/29/07	EPA 8260B	
Benzene	15	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	460	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	81	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	100	0.50	"	"	"	"	"	"	
Toluene	27	0.50	"	"	"	"	"	"	
Xylenes (total)	130	0.50	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		101 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96 %		60-150	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %		75-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %		55-130	"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0792
Reported:
12/12/07 09:51

Volatile Organic Compounds by EPA Method 8260B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132WINF (MQK0792-03) Water Sampled: 11/27/07 12:45 Received: 11/27/07 17:20									
tert-Amyl methyl ether	1.0	0.50	ug/l	1	7K28035	11/28/07	11/29/07	EPA 8260B	
Benzene	5.6	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	1500	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	8.2	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	37	0.50	"	"	"	"	"	"	
Toluene	10	0.50	"	"	"	"	"	"	
Xylenes (total)	25	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		113 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		60-150	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %		75-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %		55-130	"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0792
Reported:
12/12/07 09:51

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K28035 - EPA 5030B P/T / LUFT GCMS

Blank (7K28035-BLK1)

Prepared & Analyzed: 11/28/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.58		"	2.50		103	60-150			
Surrogate: Dibromofluoromethane	2.46		"	2.50		98	75-130			
Surrogate: Toluene-d8	2.42		"	2.50		97	75-120			
Surrogate: 4-Bromofluorobenzene	2.30		"	2.50		92	55-130			

Laboratory Control Sample (7K28035-BS2)

Prepared & Analyzed: 11/28/07

Gasoline Range Organics (C4-C12)	435	50	ug/l	500		87	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.46		"	2.50		98	60-150			
Surrogate: Dibromofluoromethane	2.55		"	2.50		102	75-130			
Surrogate: Toluene-d8	2.60		"	2.50		104	75-120			
Surrogate: 4-Bromofluorobenzene	2.52		"	2.50		101	55-130			

Laboratory Control Sample Dup (7K28035-BSD2)

Prepared & Analyzed: 11/28/07

Gasoline Range Organics (C4-C12)	408	50	ug/l	500		82	55-130	7	20	
Surrogate: 1,2-Dichloroethane-d4	2.54		"	2.50		102	60-150			
Surrogate: Dibromofluoromethane	2.44		"	2.50		98	75-130			
Surrogate: Toluene-d8	2.60		"	2.50		104	75-120			
Surrogate: 4-Bromofluorobenzene	2.58		"	2.50		103	55-130			

Matrix Spike (7K28035-MS1)

Source: MQK0797-01

Prepared & Analyzed: 11/28/07

Gasoline Range Organics (C4-C12)	590	50	ug/l	550	91.2	91	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.54		"	2.50		102	60-150			
Surrogate: Dibromofluoromethane	2.57		"	2.50		103	75-130			
Surrogate: Toluene-d8	2.64		"	2.50		106	75-120			
Surrogate: 4-Bromofluorobenzene	2.59		"	2.50		104	55-130			

Matrix Spike Dup (7K28035-MSD1)

Source: MQK0797-01

Prepared: 11/28/07 Analyzed: 11/29/07

Gasoline Range Organics (C4-C12)	567	50	ug/l	550	91.2	87	25-150	4	20	
Surrogate: 1,2-Dichloroethane-d4	2.44		"	2.50		98	60-150			
Surrogate: Dibromofluoromethane	2.65		"	2.50		106	75-130			
Surrogate: Toluene-d8	2.58		"	2.50		103	75-120			
Surrogate: 4-Bromofluorobenzene	2.54		"	2.50		102	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0792
Reported:
12/12/07 09:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K28035 - EPA 5030B P/T / EPA 8260B

Blank (7K28035-BLK1)

Prepared & Analyzed: 11/28/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
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>	2.46		"	2.50		98	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.58		"	2.50		103	60-150			
<i>Surrogate: Toluene-d8</i>	2.42		"	2.50		97	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.30		"	2.50		92	55-130			

Laboratory Control Sample (7K28035-BS1)

Prepared & Analyzed: 11/28/07

tert-Amyl methyl ether	10.2	0.50	ug/l	10.0		102	75-125			
Benzene	9.63	0.50	"	10.0		96	75-120			
tert-Butyl alcohol	213	20	"	200		107	80-120			
Di-isopropyl ether	9.59	0.50	"	10.0		96	70-130			
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	75-130			
Ethylbenzene	10.3	0.50	"	10.0		103	80-125			
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	80-130			
Toluene	9.91	0.50	"	10.0		99	80-120			
Xylenes (total)	31.6	0.50	"	30.0		105	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.56		"	2.50		102	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.43		"	2.50		97	60-150			
<i>Surrogate: Toluene-d8</i>	2.62		"	2.50		105	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.50		"	2.50		100	55-130			

TestAmerica Morgan Hill

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0792
Reported:
12/12/07 09:51

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K28035 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7K28035-MS1)	Source: MQK0797-01			Prepared & Analyzed: 11/28/07						
tert-Amyl methyl ether	11.1	0.50	ug/l	10.0	ND	111	75-140			
Benzene	10.0	0.50	"	10.0	0.120	99	80-120			
tert-Butyl alcohol	232	20	"	200	ND	116	80-125			
Di-isopropyl ether	10.1	0.50	"	10.0	ND	101	75-135			
Ethyl tert-butyl ether	10.7	0.50	"	10.0	ND	107	80-135			
Ethylbenzene	10.3	0.50	"	10.0	ND	103	75-130			
Methyl tert-butyl ether	10.7	0.50	"	10.0	ND	107	75-145			
Toluene	10.2	0.50	"	10.0	0.360	99	80-125			
Xylenes (total)	31.5	0.50	"	30.0	0.340	104	75-125			
<i>Surrogate: Dibromofluoromethane</i>	2.57		"	2.50		103	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.54		"	2.50		102	60-150			
<i>Surrogate: Toluene-d8</i>	2.64		"	2.50		106	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.59		"	2.50		104	55-130			

Matrix Spike Dup (7K28035-MSD1)	Source: MQK0797-01			Prepared: 11/28/07 Analyzed: 11/29/07						
tert-Amyl methyl ether	10.6	0.50	ug/l	10.0	ND	106	75-140	4	25	
Benzene	9.96	0.50	"	10.0	0.120	98	80-120	0.4	20	
tert-Butyl alcohol	231	20	"	200	ND	115	80-125	0.3	25	
Di-isopropyl ether	9.97	0.50	"	10.0	ND	100	75-135	1	25	
Ethyl tert-butyl ether	10.4	0.50	"	10.0	ND	104	80-135	3	25	
Ethylbenzene	10.4	0.50	"	10.0	ND	104	75-130	0.9	20	
Methyl tert-butyl ether	9.97	0.50	"	10.0	ND	100	75-145	7	25	
Toluene	10.3	0.50	"	10.0	0.360	99	80-125	0.6	25	
Xylenes (total)	31.7	0.50	"	30.0	0.340	104	75-125	0.6	20	
<i>Surrogate: Dibromofluoromethane</i>	2.65		"	2.50		106	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.44		"	2.50		98	60-150			
<i>Surrogate: Toluene-d8</i>	2.58		"	2.50		103	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.54		"	2.50		102	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0792
Reported:
12/12/07 09:51

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

Atlantic Richfield Company

by  A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 5/27/07

On-site Time: <u>0400</u>	Temp:
Off-site Time:	Temp:
Site Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
Morgan Hill, CA 95937	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156 / 408-782-6308</u>	Enfos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Suple</u>	Provision or DOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2810 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</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>shayes@stratusinc.net</u>
Tele/Fax: <u>925-299-8891 / 925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl VOA	Methanol	GRO	BTEX	5-Oxygenates	24-hours	Standard	
1	<u>11132 W INF</u>	<u>1830</u>	<u>11/26/07</u>	<u>X</u>			<u>MOKO792</u>	<u>5</u>											
2							<u>01</u>	<u>5</u>											<u>5 Oxygenates = MTBE, DIPE</u>
3	<u>11132 W INF</u>	<u>0800</u>	<u>11/27/07</u>	<u>X</u>			<u>02</u>	<u>5</u>											<u>TBA, ETBE, and TAME</u>
4	<u>11132 W INF</u>	<u>1245</u>	<u>11/27/07</u>	<u>X</u>			<u>03</u>	<u>5</u>											
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>11/27/07</u>	Time: <u>1530</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/27/07</u>	Time: <u>1530</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>11-27-07</u>						
Shipment Method:						
Shipment Tracking No:						

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

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 4.2 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 11132
REC. BY (PRINT): D.V.
WORKORDER: H0K0792

DATE REC'D AT LAB: 11/27/07
TIME REC'D AT LAB: 1720
DATE LOGGED IN: 11/28/07

For Regulatory Purposes?
 DRINKING WATER
 WASTE WATER
 OTHER

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <u>Absent</u> Intact / Broken*								/
2. Chain-of-Custody <u>Present</u> / Absent*								
3. Traffic Reports or Packing List: Present / <u>Absent</u>								
4. Airbill: Airbill / Sticker Present / <u>Absent</u>								
5. Airbill #:								
6. Sample Labels: <u>Present</u> / Absent								
7. Sample IDs: <u>Listed</u> / Not Listed on Chain-of-Custody								
8. Sample Condition: <u>Intact</u> / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <u>Yes</u> / No*								
10. Sample received within hold time? <u>Yes</u> / No*								
11. Adequate sample volume received? <u>Yes</u> / No*								
12. Proper preservatives used? <u>Yes</u> / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes) <u>Yes</u> / (No)*								
14. Read Temp: <u>5.3°</u> Correction Factor: <u>-1.0°</u> Corrected Temp: <u>4.3°</u> Is corrected temp. 0-6°C? <u>Yes</u> / No**								

See 11/27/07
 D.V.

**Exception (if any): Metals / Perchlorate
 DFF on Ice or Problem COC

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

13 December, 2007

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

RE: BP Heritage #11132, Oakland, CA
Work Order: MQK0818

Enclosed are the results of analyses for samples received by the laboratory on 11/28/07 17:25. 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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0818
Reported:
12/13/07 11:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
11132WINF	MQK0818-01	Water	11/27/07 17:30	11/28/07 17:25
11132WINF	MQK0818-02	Water	11/28/07 08:00	11/28/07 17:25
11132WINF	MQK0818-03	Water	11/28/07 13:30	11/28/07 17:25

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0818
Reported:
12/13/07 11:29

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132WINF (MQK0818-01) Water Sampled: 11/27/07 17:30 Received: 11/28/07 17:25									
Gasoline Range Organics (C4-C12)	330	50	ug/l	1	7K30013	11/30/07	12/01/07	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>107 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>101 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>104 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>102 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
11132WINF (MQK0818-02) Water Sampled: 11/28/07 08:00 Received: 11/28/07 17:25									
Gasoline Range Organics (C4-C12)	360	50	ug/l	1	7K30013	11/30/07	12/01/07	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>109 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>106 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>106 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>107 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
11132WINF (MQK0818-03) Water Sampled: 11/28/07 13:30 Received: 11/28/07 17:25									
Gasoline Range Organics (C4-C12)	470	50	ug/l	1	7K30013	11/30/07	12/01/07	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>103 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>104 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>106 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0818
Reported:
12/13/07 11:29

Volatile Organic Compounds by EPA Method 8260B
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11132WINF (MQK0818-01) Water **Sampled: 11/27/07 17:30** **Received: 11/28/07 17:25**

tert-Amyl methyl ether	1.1	0.50	ug/l	1	7K30013	11/30/07	12/01/07	EPA 8260B	
Benzene	3.2	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	1700	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	6.3	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	47	0.50	"	"	"	"	"	"	
Toluene	5.1	0.50	"	"	"	"	"	"	
Xylenes (total)	16	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	75-130		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	55-130		"	"	"	"	

11132WINF (MQK0818-02) Water **Sampled: 11/28/07 08:00** **Received: 11/28/07 17:25**

tert-Amyl methyl ether	0.97	0.50	ug/l	1	7L05008	12/05/07	12/05/07	EPA 8260B	
Benzene	84	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	1000	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	24	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	57	0.50	"	"	"	"	"	"	
Toluene	21	0.50	"	"	"	"	"	"	
Xylenes (total)	110	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-130		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	60-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	75-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	55-130		"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0818
Reported:
12/13/07 11:29

Volatile Organic Compounds by EPA Method 8260B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132WINF (MQK0818-03) Water Sampled: 11/28/07 13:30 Received: 11/28/07 17:25									
tert-Amyl methyl ether	1.2	0.50	ug/l	1	7K30013	11/30/07	12/01/07	EPA 8260B	
Benzene	27	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	280	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	19	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	84	0.50	"	"	"	"	"	"	
Toluene	16	0.50	"	"	"	"	"	"	
Xylenes (total)	93	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		60-150	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		106 %		75-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		55-130	"	"	"	"	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0818
Reported:
12/13/07 11:29

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K30013 - EPA 5030B P/T / LUFT GCMS

Blank (7K30013-BLK1)

Prepared & Analyzed: 11/30/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-150			
Surrogate: Dibromofluoromethane	2.50		"	2.50		100	75-130			
Surrogate: Toluene-d8	2.50		"	2.50		100	75-120			
Surrogate: 4-Bromofluorobenzene	2.50		"	2.50		100	55-130			

Laboratory Control Sample (7K30013-BS2)

Prepared & Analyzed: 11/30/07

Gasoline Range Organics (C4-C12)	399	50	ug/l	500		80	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.56		"	2.50		102	60-150			
Surrogate: Dibromofluoromethane	2.54		"	2.50		102	75-130			
Surrogate: Toluene-d8	2.60		"	2.50		104	75-120			
Surrogate: 4-Bromofluorobenzene	2.62		"	2.50		105	55-130			

Laboratory Control Sample Dup (7K30013-BSD2)

Prepared & Analyzed: 11/30/07

Gasoline Range Organics (C4-C12)	416	50	ug/l	500		83	55-130	4	20	
Surrogate: 1,2-Dichloroethane-d4	2.57		"	2.50		103	60-150			
Surrogate: Dibromofluoromethane	2.53		"	2.50		101	75-130			
Surrogate: Toluene-d8	2.55		"	2.50		102	75-120			
Surrogate: 4-Bromofluorobenzene	2.65		"	2.50		106	55-130			

Matrix Spike (7K30013-MS1)

Source: MQK0819-02

Prepared & Analyzed: 11/30/07

Gasoline Range Organics (C4-C12)	33100	2500	ug/l	27500	8420	90	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-150			
Surrogate: Dibromofluoromethane	2.50		"	2.50		100	75-130			
Surrogate: Toluene-d8	2.63		"	2.50		105	75-120			
Surrogate: 4-Bromofluorobenzene	2.59		"	2.50		104	55-130			

Matrix Spike Dup (7K30013-MSD1)

Source: MQK0819-02

Prepared: 11/30/07 Analyzed: 12/01/07

Gasoline Range Organics (C4-C12)	31900	2500	ug/l	27500	8420	85	25-150	4	20	
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-150			
Surrogate: Dibromofluoromethane	2.51		"	2.50		100	75-130			
Surrogate: Toluene-d8	2.61		"	2.50		104	75-120			
Surrogate: 4-Bromofluorobenzene	2.58		"	2.50		103	55-130			

TestAmerica Morgan Hill

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0818
Reported:
12/13/07 11:29

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K30013 - EPA 5030B P/T / EPA 8260B

Blank (7K30013-BLK1)

Prepared & Analyzed: 11/30/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
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>	2.50		"	2.50		100	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.50		"	2.50		100	60-150			
<i>Surrogate: Toluene-d8</i>	2.50		"	2.50		100	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.50		"	2.50		100	55-130			

Laboratory Control Sample (7K30013-BS1)

Prepared & Analyzed: 11/30/07

tert-Amyl methyl ether	11.6	0.50	ug/l	10.0		116	75-125			
Benzene	10.1	0.50	"	10.0		101	75-120			
tert-Butyl alcohol	224	20	"	200		112	80-120			
Di-isopropyl ether	10.6	0.50	"	10.0		106	70-130			
Ethyl tert-butyl ether	11.2	0.50	"	10.0		112	75-130			
Ethylbenzene	10.7	0.50	"	10.0		107	80-125			
Methyl tert-butyl ether	11.3	0.50	"	10.0		113	80-130			
Toluene	10.5	0.50	"	10.0		105	80-120			
Xylenes (total)	32.2	0.50	"	30.0		107	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.59		"	2.50		104	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.66		"	2.50		106	60-150			
<i>Surrogate: Toluene-d8</i>	2.55		"	2.50		102	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.60		"	2.50		104	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0818
Reported:
12/13/07 11:29

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7K30013 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7K30013-MS1)	Source: MQK0819-02			Prepared & Analyzed: 11/30/07						
tert-Amyl methyl ether	612	25	ug/l	500	71.5	108	75-140			
Benzene	2770	25	"	500	2470	59	80-120			BB, EY
tert-Butyl alcohol	11100	1000	"	10000	ND	111	80-125			
Di-isopropyl ether	490	25	"	500	ND	98	75-135			
Ethyl tert-butyl ether	522	25	"	500	ND	104	80-135			
Ethylbenzene	789	25	"	500	274	103	75-130			
Methyl tert-butyl ether	2980	25	"	500	2520	92	75-145			BB
Toluene	570	25	"	500	70.0	100	80-125			
Xylenes (total)	1770	25	"	1500	200	105	75-125			
Surrogate: Dibromofluoromethane	2.50		"	2.50		100	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-150			
Surrogate: Toluene-d8	2.63		"	2.50		105	75-120			
Surrogate: 4-Bromofluorobenzene	2.59		"	2.50		104	55-130			

Matrix Spike Dup (7K30013-MSD1)	Source: MQK0819-02			Prepared: 11/30/07 Analyzed: 12/01/07						
tert-Amyl methyl ether	576	25	ug/l	500	71.5	101	75-140	6	25	
Benzene	2760	25	"	500	2470	57	80-120	0.4	20	BB, EY
tert-Butyl alcohol	11000	1000	"	10000	ND	110	80-125	0.9	25	
Di-isopropyl ether	476	25	"	500	ND	95	75-135	3	25	
Ethyl tert-butyl ether	504	25	"	500	ND	101	80-135	3	25	
Ethylbenzene	790	25	"	500	274	103	75-130	0.1	20	
Methyl tert-butyl ether	2800	25	"	500	2520	56	75-145	6	25	BB
Toluene	564	25	"	500	70.0	99	80-125	0.9	25	
Xylenes (total)	1800	25	"	1500	200	107	75-125	1	20	
Surrogate: Dibromofluoromethane	2.51		"	2.50		100	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-150			
Surrogate: Toluene-d8	2.61		"	2.50		104	75-120			
Surrogate: 4-Bromofluorobenzene	2.58		"	2.50		103	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0818
Reported:
12/13/07 11:29

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7L05008 - EPA 5030B P/T / EPA 8260B

Blank (7L05008-BLK1)

Prepared & Analyzed: 12/05/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
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>	2.50		"	2.50		100	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.66		"	2.50		106	60-150			
<i>Surrogate: Toluene-d8</i>	2.46		"	2.50		98	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.24		"	2.50		90	55-130			

Laboratory Control Sample (7L05008-BS1)

Prepared & Analyzed: 12/05/07

tert-Amyl methyl ether	10.3	0.50	ug/l	10.0		103	75-125			
Benzene	10.4	0.50	"	10.0		104	75-120			
tert-Butyl alcohol	184	20	"	200		92	80-120			
Di-isopropyl ether	10.9	0.50	"	10.0		109	70-130			
Ethyl tert-butyl ether	11.0	0.50	"	10.0		110	75-130			
Ethylbenzene	10.8	0.50	"	10.0		108	80-125			
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	80-130			
Toluene	9.98	0.50	"	10.0		100	80-120			
Xylenes (total)	32.5	0.50	"	30.0		108	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.52		"	2.50		101	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.73		"	2.50		109	60-150			
<i>Surrogate: Toluene-d8</i>	2.50		"	2.50		100	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.51		"	2.50		100	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0818
Reported:
12/13/07 11:29

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7L05008 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7L05008-MS1)	Source: MQK0798-02			Prepared & Analyzed: 12/05/07						
tert-Amyl methyl ether	10.3	0.50	ug/l	10.0	ND	103	75-140			
Benzene	10.3	0.50	"	10.0	0.620	97	80-120			
tert-Butyl alcohol	184	20	"	200	5.85	89	80-125			
Di-isopropyl ether	10.4	0.50	"	10.0	ND	104	75-135			
Ethyl tert-butyl ether	10.6	0.50	"	10.0	ND	106	80-135			
Ethylbenzene	9.99	0.50	"	10.0	0.120	99	75-130			
Methyl tert-butyl ether	17.0	0.50	"	10.0	6.76	102	75-145			
Toluene	9.55	0.50	"	10.0	ND	96	80-125			
Xylenes (total)	28.4	0.50	"	30.0	0.130	94	75-125			
<i>Surrogate: Dibromofluoromethane</i>	2.55		"	2.50		102	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.68		"	2.50		107	60-150			
<i>Surrogate: Toluene-d8</i>	2.57		"	2.50		103	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.53		"	2.50		101	55-130			

Matrix Spike Dup (7L05008-MSD1)	Source: MQK0798-02			Prepared & Analyzed: 12/05/07						
tert-Amyl methyl ether	11.8	0.50	ug/l	10.0	ND	118	75-140	14	25	
Benzene	10.6	0.50	"	10.0	0.620	100	80-120	3	20	
tert-Butyl alcohol	192	20	"	200	5.85	93	80-125	4	25	
Di-isopropyl ether	10.7	0.50	"	10.0	ND	107	75-135	3	25	
Ethyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	80-135	5	25	
Ethylbenzene	10.6	0.50	"	10.0	0.120	105	75-130	6	20	
Methyl tert-butyl ether	17.6	0.50	"	10.0	6.76	108	75-145	4	25	
Toluene	9.98	0.50	"	10.0	ND	100	80-125	4	25	
Xylenes (total)	30.5	0.50	"	30.0	0.130	101	75-125	7	20	
<i>Surrogate: Dibromofluoromethane</i>	2.47		"	2.50		99	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.53		"	2.50		101	60-150			
<i>Surrogate: Toluene-d8</i>	2.49		"	2.50		100	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.64		"	2.50		106	55-130			

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0818
Reported:
12/13/07 11:29

Notes and Definitions

EY Result exceeds normal dynamic range; reported as a min. est.
BB Sample > 4x spike concentration
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

bp
A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Eafos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): _____

On-site Time: <u>0900</u>	Temp:
Off-site Time: <u>1900</u>	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>3201 35th Avenue, Oakland, CA</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 Rice</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E6106-01</u>
Tele/Fax: <u>408-782-8156/ 408-782-6308</u>	Eafos Project No.: <u>G07TS-0038</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>01-Assessment</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-299-8891/ 925-299-8872</u>	Cost Element: <u>Subcontractor Cost</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			MOKOBIE Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	ORO	BTEX	S-Oxygenates	24-hours	Standard	
1	11132 W INF	1930	11/27	X			01	5						X	X	X	X		5 Oxygenates = MTBE, DIPE
2																			TBA, ETBE, and TAME
3	11132 W INF	0800	11/28	X			02	5						X	X	X	X		
4	11132 W INF	1330	11/28	X			03	5						X	X	X	X		
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Requested By / Affiliation: <u>[Signature]</u>	Date: <u>11/28/07</u>	Time: <u>1540</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/28/07</u>	Time: <u>1725</u>
Shipment Date: <u>11/28/07</u>	Shipment Method:	Shipment Tracking No:				

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

Custody Seals in Place: Yes / No
 Temp Blank: Yes / No
 Cooler Temp on Receipt: 36 °F/C
 Trip Blank: Yes / No
 MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ADLD 11132
 REC. BY (PRINT) DN
 WORKORDER: MRK0818

DATE REC'D AT LAB: 11/28/07
 TIME REC'D AT LAB: 1725
 DATE LOGGED IN: 11/29/07

For Regulatory Purposes?
 DRINKING WATER
 WASTE WATER
 OTHER

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*								/
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*								
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent								
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent								
5. Airbill #:								
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: <input checked="" type="radio"/> Intact / 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. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / <input checked="" type="radio"/> No*								
14. Read Temp: <u>4.6</u> Correction Factor: <u>-1.0</u> Corrected Temp: <u>3.6</u> Is corrected temp. 0-6°C? <input checked="" type="radio"/> Yes / No**								

see lab 11/28/07 P.J.

**Exception (if any): Metals / Perchlorate DFF on Ice or Problem COC

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

13 December, 2007

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

RE: BP Heritage #11132, Oakland, CA
Work Order: MQK0849

Enclosed are the results of analyses for samples received by the laboratory on 11/29/07 17:50. 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 #11132, Oakland, CA Project Number: G07TS-0038 Project Manager: Jay Johnson	MQK0849 Reported: 12/13/07 16:48
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
11132WINF	MQK0849-01	Water	11/28/07 18:00	11/29/07 17:50

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 #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0849
Reported:
12/13/07 16:48

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11132WINF (MQK0849-01) Water **Sampled: 11/28/07 18:00** **Received: 11/29/07 17:50**

Gasoline Range Organics (C4-C12)	520	50	ug/l	l	7L03001	12/03/07	12/03/07	LUFT GCMS	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>110 %</i>	<i>60-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>100 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>101 %</i>	<i>75-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>102 %</i>	<i>55-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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

Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0849
Reported:
12/13/07 16:48

Volatile Organic Compounds by EPA Method 8260B
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11132WINF (MQK0849-01) Water Sampled: 11/28/07 18:00 Received: 11/29/07 17:50									
tert-Amyl methyl ether	1.6	0.50	ug/l	1	7L03001	12/03/07	12/03/07	EPA 8260B	
Benzene	24	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	190	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	18	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	110	0.50	"	"	"	"	"	"	
Toluene	13	0.50	"	"	"	"	"	"	
Xylenes (total)	88	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %		75-130	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		60-150	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %		75-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %		55-130	"	"	"	"	

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage #11132, Oakland, CA Project Number: G07TS-0038 Project Manager: Jay Johnson	MQK0849 Reported: 12/13/07 16:48
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Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7L03001 - EPA 5030B P/T / LUFT GCMS

Blank (7L03001-BLK1) Prepared & Analyzed: 12/03/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.51		"	2.50		100	60-150			
Surrogate: Dibromofluoromethane	2.15		"	2.50		86	75-130			
Surrogate: Toluene-d8	2.36		"	2.50		94	75-120			
Surrogate: 4-Bromofluorobenzene	2.28		"	2.50		91	55-130			

Laboratory Control Sample (7L03001-BS2) Prepared & Analyzed: 12/03/07

Gasoline Range Organics (C4-C12)	558	50	ug/l	500		112	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.47		"	2.50		99	60-150			
Surrogate: Dibromofluoromethane	2.30		"	2.50		92	75-130			
Surrogate: Toluene-d8	2.38		"	2.50		95	75-120			
Surrogate: 4-Bromofluorobenzene	2.56		"	2.50		102	55-130			

Laboratory Control Sample Dup (7L03001-BSD2) Prepared & Analyzed: 12/03/07

Gasoline Range Organics (C4-C12)	571	50	ug/l	500		114	55-130	2	20	
Surrogate: 1,2-Dichloroethane-d4	2.55		"	2.50		102	60-150			
Surrogate: Dibromofluoromethane	2.35		"	2.50		94	75-130			
Surrogate: Toluene-d8	2.45		"	2.50		98	75-120			
Surrogate: 4-Bromofluorobenzene	2.50		"	2.50		100	55-130			

Matrix Spike (7L03001-MS1) Source: MQK0850-03 Prepared & Analyzed: 12/03/07

Gasoline Range Organics (C4-C12)	508	50	ug/l	550	ND	92	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.55		"	2.50		102	60-150			
Surrogate: Dibromofluoromethane	2.62		"	2.50		105	75-130			
Surrogate: Toluene-d8	2.45		"	2.50		98	75-120			
Surrogate: 4-Bromofluorobenzene	2.55		"	2.50		102	55-130			

Matrix Spike Dup (7L03001-MSD1) Source: MQK0850-03 Prepared & Analyzed: 12/03/07

Gasoline Range Organics (C4-C12)	491	50	ug/l	550	ND	89	25-150	3	20	
Surrogate: 1,2-Dichloroethane-d4	2.66		"	2.50		106	60-150			
Surrogate: Dibromofluoromethane	2.54		"	2.50		102	75-130			
Surrogate: Toluene-d8	2.42		"	2.50		97	75-120			
Surrogate: 4-Bromofluorobenzene	2.49		"	2.50		100	55-130			

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Project Number: G07TS-0038
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MQK0849
Reported:
12/13/07 16:48

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7L03001 - EPA 5030B P/T / EPA 8260B

Blank (7L03001-BLK1)

Prepared & Analyzed: 12/03/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
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>	2.15		"	2.50		86	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.51		"	2.50		100	60-150			
<i>Surrogate: Toluene-d8</i>	2.36		"	2.50		94	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.28		"	2.50		91	55-130			

Laboratory Control Sample (7L03001-BS1)

Prepared & Analyzed: 12/03/07

tert-Amyl methyl ether	10.7	0.50	ug/l	10.0		107	75-125			
Benzene	10.9	0.50	"	10.0		109	75-120			
tert-Butyl alcohol	191	20	"	200		96	80-120			
Di-isopropyl ether	10.1	0.50	"	10.0		101	70-130			
Ethyl tert-butyl ether	10.7	0.50	"	10.0		107	75-130			
Ethylbenzene	11.0	0.50	"	10.0		110	80-125			
Methyl tert-butyl ether	10.5	0.50	"	10.0		105	80-130			
Toluene	10.4	0.50	"	10.0		104	80-120			
Xylenes (total)	33.2	0.50	"	30.0		111	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.46		"	2.50		98	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.40		"	2.50		96	60-150			
<i>Surrogate: Toluene-d8</i>	2.52		"	2.50		101	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.52		"	2.50		101	55-130			

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Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0849
Reported:
12/13/07 16:48

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7L03001 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7L03001-MS1)	Source: MQK0850-03			Prepared & Analyzed: 12/03/07						
tert-Amyl methyl ether	11.3	0.50	ug/l	10.0	ND	113	75-140			
Benzene	10.4	0.50	"	10.0	ND	104	80-120			
tert-Butyl alcohol	229	20	"	200	39.0	95	80-125			
Di-isopropyl ether	10.7	0.50	"	10.0	ND	107	75-135			
Ethyl tert-butyl ether	10.9	0.50	"	10.0	ND	109	80-135			
Ethylbenzene	10.5	0.50	"	10.0	ND	105	75-130			
Methyl tert-butyl ether	10.3	0.50	"	10.0	0.110	102	75-145			
Toluene	9.88	0.50	"	10.0	ND	99	80-125			
Xylenes (total)	32.0	0.50	"	30.0	ND	107	75-125			
<i>Surrogate: Dibromofluoromethane</i>	2.62		"	2.50		105	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.55		"	2.50		102	60-150			
<i>Surrogate: Toluene-d8</i>	2.45		"	2.50		98	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.55		"	2.50		102	55-130			

Matrix Spike Dup (7L03001-MSD1)	Source: MQK0850-03			Prepared & Analyzed: 12/03/07						
tert-Amyl methyl ether	11.4	0.50	ug/l	10.0	ND	114	75-140	1	25	
Benzene	9.81	0.50	"	10.0	ND	98	80-120	6	20	
tert-Butyl alcohol	219	20	"	200	39.0	90	80-125	4	25	
Di-isopropyl ether	10.3	0.50	"	10.0	ND	103	75-135	4	25	
Ethyl tert-butyl ether	10.7	0.50	"	10.0	ND	107	80-135	2	25	
Ethylbenzene	9.95	0.50	"	10.0	ND	100	75-130	5	20	
Methyl tert-butyl ether	10.6	0.50	"	10.0	0.110	104	75-145	2	25	
Toluene	9.47	0.50	"	10.0	ND	95	80-125	4	25	
Xylenes (total)	30.1	0.50	"	30.0	ND	100	75-125	6	20	
<i>Surrogate: Dibromofluoromethane</i>	2.54		"	2.50		102	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.66		"	2.50		106	60-150			
<i>Surrogate: Toluene-d8</i>	2.42		"	2.50		97	75-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.49		"	2.50		100	55-130			

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Project: BP Heritage #11132, Oakland, CA
Project Number: G07TS-0038
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Reported:
12/13/07 16:48

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

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda
 State or Lead Regulatory Agency: Regional Water Quality Control Board
 Requested Due Date (mm/dd/yy): 5/12/74T

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

Lab Name: TestAmerica	BP/AR Facility No.: 11132	Consultant/Contractor: Stratus Environmental, Inc.
Address: 835 Jarvis Drive Morgan Hill, CA 95937	BP/AR Facility Address: 3201 35th Avenue, Oakland, CA	Address: 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682
Lab PM: Lisa Race	California Global ID No.: T0600100213	Consultant/Contractor Project No.: E6106-01
Tele/Fax: 408-782-8156/408-782-6308	Enfos Project No.: G07TS-0038	Consultant/Contractor PM: Jay Johnson
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) Provision	Tele/Fax: (530) 676-6000 / (530) 676-6005
Address: 2010 Crow Canyon Place, Suite 150 San Ramon, CA	Phase/WBS: 01-Assessment	Report Type & QC Level: Level 1 with EDF
Tele/Fax: 925-299-8891/925-299-8872	Sub Phase/Task: 03-Analytical	E-mail EDD To: <u>shayes@stratusinc.net</u>
	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Turnaround Time		Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	ORO	BTEX	S-Oxygenates	24-hours	Standard	
1	11132 W INF	FBUD	11/28/07	X			01	5					X	X	X		X	5 Oxygenates = MTBE, DIPE TBA, ETBE, and TAME	
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Chris Hill</u>	Requisitioned By / Affiliation: <u>[Signature]</u> Stratus	Date: <u>11/29/07</u>	Time: <u>09:30</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/29/07</u>	Time: <u>08:30</u>
Shipment Date: <u>11/29/07</u>	Shipment Method: <u>Overnight</u>	Date: <u>11/29</u>	Time: <u>15:00</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/29</u>	Time: <u>15:00</u>
Shipment Tracking No:				Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11-27</u>	Time: <u>17:54</u>

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

Custody Seals In Place: Yes / (No) | Temp Blank: Yes / (No) | Cooler Temp on Receipt: 2.4 °F/C | Trip Blank: Yes / (No) | MS/MSD Sample Submitted: Yes / (No)

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ADCO 1132
REC. BY (PRINT) D.V.
WORKORDER: M2K0849

DATE REC'D AT LAB: 11/29/07
TIME REC'D AT LAB: 1700
DATE LOGGED IN: 11/30/07

For Regulatory Purposes?
 DRINKING WATER
 WASTE WATER
 OTHER

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*								\
2. Chain-of-Custody Present / <input checked="" type="radio"/> Absent*								
3. Traffic Reports or Packing List Present / <input checked="" type="radio"/> Absent								
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent								
5. Airbill #:								
6. Sample Labels: Present / Absent								
7. Sample IDs: Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: Intact / 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. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / <input checked="" type="radio"/> No								
14. Read Temp: <u>3.4°</u> Correction Factor: <u>-1.0°</u> Corrected Temp: <u>2.4°</u> Is corrected temp. 0-6°C? <input checked="" type="radio"/> Yes / No**								
**Exception (if any): Metals / Perchlorate DFF on Ice or Problem COC								

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