

Atlantic Richfield Company (a BP affiliated company)

P.O. Box 1257

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

8 February 2008



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2:41 pm, Feb 14, 2008

Alameda County Environmental Health

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



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



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

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 #RO000014

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

· ARIZONA

CALIFORNIA

NEVADA

ROBERT H.

MILLER

No. 4893

TEXAS

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: <u>#11132</u> Add	ress:	3201 35 th Avenue, Oakland, California
Environmental Business Manag	er:	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

Ground-Water Monitoring/Sampling/FP Bailing Current phase of project: Frequency of ground-water Quarterly: MW-1 through MW-10 and RW-1 monitoring: Frequency of ground-water sampling: Ouarterly: 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 Yes (MW-1, RW-1) Is free product (FP) present on-site: FP recovered this quarter: 17.5 gallons Cumulative FP recovered since 1990: **78.274** gallons Current remediation techniques: **Interim FP Bailing / Mobile DPE Event** 17.79 ft (MW-6) to 21.86 ft (MW-4) Depth to ground water (below TOC): 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 (μ 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 μ 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 μ 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 μ 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 μ g/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 μ g/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 μ g/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 ground-water 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 OBERVATIONS 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 (μg/l) GRO, 110 μg/l benzene, and 6.4 μg/l MTBE (Table 8).

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• 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

Page 7

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 μ g/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 wells MW-1 and RW-1, while concentrations of GRO and MTBE increased 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.

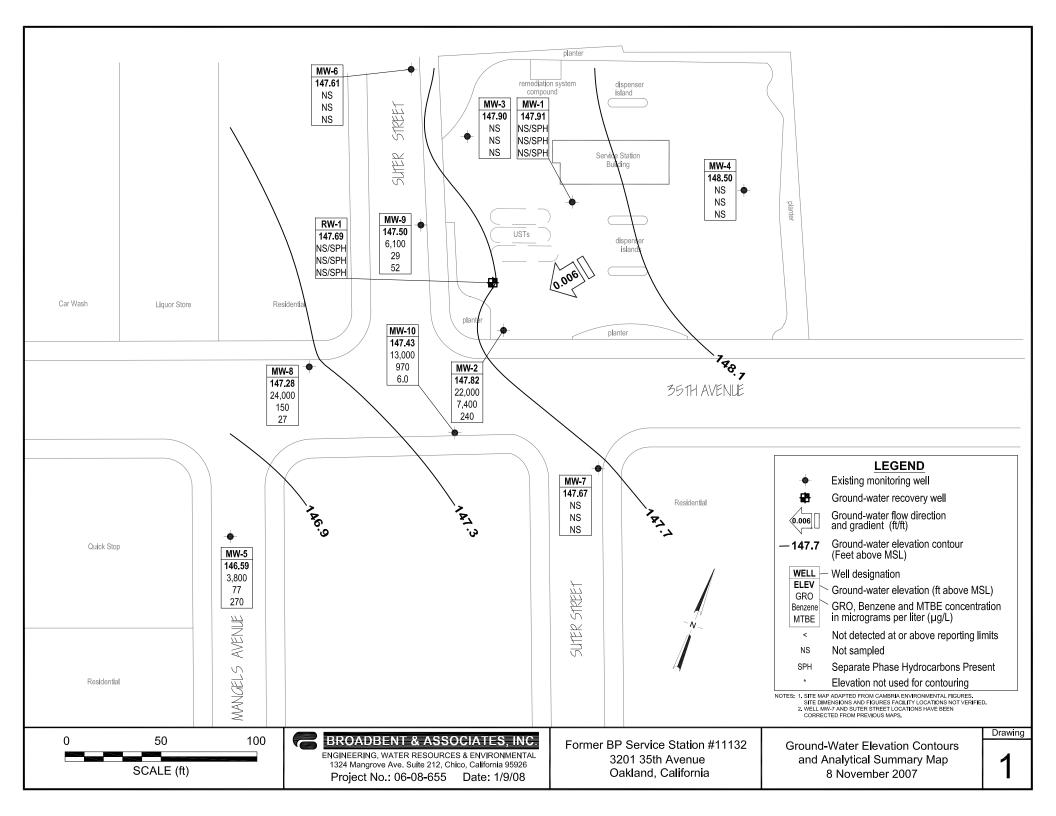


Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11132, 3201 35th Ave, Oakland, CA

		тос	Depth to	Product	Water Level			Concentra	ntions in (µ;	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		тос	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
MW-1 Cont.															
4/30/1997		169.75				92,000	3,500	8,100	4,400	23,800	6,900				С
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				С
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				С
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

		тос	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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										0
7/28/2003		169.75	22.72	0.35	146.68										j
8/12/2003		169.75	22.64	0.23	146.88										0
9/12/2003		169.75	20.70	0.24	148.81										0
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

		тос	Depth to	Product	Water Level			Concentre	ations in (µ	g/I)					
Well and		Elevation	Water	Thickness	Elevation	GRO/		Concentra	Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		TOC	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L.)					
Well and		Elevation	Water	Thickness	Elevation	GRO/		Concentre	Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		TOC	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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					

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

		тос	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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					с
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					с
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					с
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			

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

		TOC	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		TOC	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			i
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		TOC	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

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

		TOC	Depth to	Product	Water Level			Concentra	ations in (µ	g/I .)					
Well and		Elevation	Water	Thickness	Elevation	GRO/		Concentra	Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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	1					-		I		
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

		TOC	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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					с
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				С
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

		TOC Depth to Product Water Level Concentrations in (µg/L)													
33 7-11 J		TOC	Depth to	Product	Water Level	GRO/		Concentra	•			- DO			
Well and Sample Date	P/NP	Elevation (feet msl)	Water (feet bgs)	Thickness (feet)	Elevation (feet msl)	GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	МТВЕ	DO (mg/L)	Lab	рH	Comments
	1/111	(rect msi)	(Icct bgs)	(ICCI)	(rect msr)	IIIIg	Belizene	Totache	Benzene	Ayıcııcs	MIIDE	(IIIg/L)	Lab	pm	Comments
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

		TOC	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		TOC	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		TOC	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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					С
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

		тос	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		TOC	Depth to	Product	Water Level			Concentre	ations in (µ	g/I)					
Well and		Elevation	Water	Thickness	Elevation	GRO/		Concentra	Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	ТРНд	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		тос	Depth to	Product	Water Level			Concentra	ıtions in (μ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		TOC	Depth to	Product	Water Level			Concentre	ations in (µ	g/I)					
Well and		Elevation	Water	Thickness	Elevation	GRO/		Concentra	Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	ТРНд	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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										0
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

		TOC	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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	-				с
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

		тос	Depth to	Product	Water Level			Concentra	ntions in (µ	σ/Ι.)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		TOC	Depth to	Product	Water Level	Concentrations in (µg/L)									
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		TOC	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

		тос	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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										0
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										О
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

		TOC	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			i
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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

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

		тос	Depth to	Product	Water Level			Concentra	ntions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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					С
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

		тос	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
RW-1 Cont.															
8/22/1995		168.01				2,800	210	9.3	4.3	250	<25				С
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				С
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				с
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				с
1/21/1997		168.01				270	42	17	2.7	36	1,500				с
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

		TOC	Depth to	Product	Water Level			Concentra	ntions in (µ	g/I .)					
Well and		Elevation	Water	Thickness	Elevation	GRO/		Concentra	Ethyl-	Total		DO			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	Lab	pН	Comments
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										0
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										0
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

		тос	Depth to	Product	Water Level			Concentra	ations in (µ	g/L)					
Well and Sample Date	P/NP	Elevation (feet msl)	Water (feet bgs)	Thickness (feet)	Elevation (feet msl)	GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	МТВЕ	DO (mg/L)	Lab	pН	Comments
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

 $\mu g/L = Micrograms per liter$

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 Appendix C of 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.
- 1 = 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 aampling 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				Concentrati	ons in (µg/L)		·		
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-1									
5/19/2006	<6,000	<400	86	<10	<10	<10	<10	<10	
	<0,000	<400	80	<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	
02/23/2004	<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	300	120	3.0	νο.50	ζ0.50	Q.50	(0.50	ζ0.50	u
141 444									
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				Concentrati	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
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				Concentrati	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
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	
	3,000	1200	7.0			7.0			
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				Concentrati	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
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	ь
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

 $\mu g/L = Micrograms per Liter$

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.

		1		1
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

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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				

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS	PRODUCT REMOVED	CUMULATIVE PRODUCT REMOVED				
ш	MONITORING	(feet)	(gallons)	(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				

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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

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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	0.103	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	<0.03 (Sheen)		2.008
RW-1	8/15/2007	0.02	2.0	4.008
RW-1	9/18/2007	0.02	2.0	6.008
17.44-1	J/ 10/ 200 /	0.03	2.0	0.000

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.

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.

^{*} 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.

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		onization Readings
								Influent	Effluent
MW-1	(hours)	(feet)	(feet)	(inches Hg)	(SCFM)	(cumulative gal)	(gpm)*	(ppm)	(ppm)
Screen Interval 10-45 ft bgs	0	21.43				0.00	0.00		
Stinger set at 40 ft bgs	Startup	40.00	-18.57	25.0	46.51	0.00	0.00	917	6.0
(~18.5 ft below water surface)	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	(hours)	(feet)	(feet)	(inches Hg)	(SCFM)	(cumulative gal)	(gpm)*	(ppm)	(ppm)
Screen Interval 20-40 ft bgs	0	20.59				0.00	0.00		
Stinger set at 39 ft bgs	Startup	33.00	-12.41	25.0	54.06	0.00	0.00	225	5.0
(~18.5 ft below water surface)	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
Test terminated	10 11	39.00 39.00	-18.41 -18.41	25.0 25.0	53.10 52.64	440.00 530.00	0.00 1.50	69 60	3.0 3.0
						I			
MW-2	(hours)	(feet) 20.61	(feet)	(inches Hg)	(SCFM)	(cumulative gal)	(gpm)* 0.00	(ppm)	(ppm)
Screen Interval 10-35 ft bgs	-	30.00	-9.39	25.0	40.81	0.00 0.00	0.00	150	0.0
Stinger set at 30 ft bgs (~9.5 ft below water surface)	Startup	30.00	-9.39 -9.39	25.0		0.00	0.00	150 335	
(~9.5 it below water surface)	1 2	30.00	-9.39 -9.39	25.0 25.0	41.54	70.00		398	3.0 4.0
	3				53.54		1.17		
	3 4	30.00 30.00	-9.39 -9.39	25.0 25.0	50.95 47.26	140.00 210.00	1.17 1.17	394 375	3.0 3.0
	5	30.00	-9.39 -9.39	25.0 25.0	47.26 45.11	280.00	1.17	3/3 362	2.0
	5 6	30.00	-9.39 -9.39	25.0 25.0	45.11 46.76	280.00 350.00	1.17	362 370	2.0
	7	30.00	-9.39 -9.39	25.0 25.0	46.76 44.90	420.00	1.17	287	2.0
	8	30.00	-9.39 -9.39	25.0	49.87	480.00	1.17	325	2.0
	9	30.00	-9.39 -9.39	25.0	52.46	550.00	1.00	352	2.0
	10	30.00	-9.39 -9.39	25.0	52.40	620.00	1.17	355	2.0
Test terminated	11	30.00	-9.39	25.0 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

								Observat	ion Wells							
	MW	-2	MW	-3	MW	-4	MW	-7	MW	7-8	MW-	-9	MW-	10	RW-	-1
Hours	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

								Observat	ion Wells							
	MW	-1	MW	-2	MW	-3	MW	-4	MW	7-7	MW-	-8	MW	-9	MW-	10
Hours	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

								Observat	ion Wells							
	MW	-1	MW	-3	MW	-4	MW	-7	MW	-8	MW-	-9	MW-	10	RW-	·1
Hours	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

	Influer	nt Air	Air	(average)			Influent Air	Concentration	ons in ppmv			Rem	oval Rate	Net	removal
Extraction	Sam	ple	Flow Rate	Vacuum	PID			Ethyl-				1	bs/hr		
Well	Date	Time	SCFM	"Hg	Readings	Benzene	Toluene	benzene	Xylenes	GRO	MTBE	GRO	Benzene	GRO lbs	Benzene-lbs
MW-1	11/26/2007	7:00	DPE Test In	nitiated 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 I	nitiated 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 Ir	nitiated 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 Aver	ages for Nove OPE Event	mber 2007	47.25	47.25 25.00		1.67	1.74	1.90	5.9	551	0.81	0.406	0.0009	13.98	0.0292

ſ	Estimated Total Gallons Removed:	2.25	0.0047

Sample calculations:

Removal rate calculation:

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

where: "x" is influent concentration in ppmv

"Q" is the average flow rate in ft^3/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. GRO - Total Petroleum Hydrocarbons - Gasoline Range Organics.

"Hg - Inches of Mercury. MTBE - Methyl-tert-butyl ether

ppmv - Parts per million by volume. --- - 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

			Labo	oratory Ana	alytical Results ((µg/l)					
Extraction Well	Collection Date and Time	GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	DIPE	ETBE	ТВА	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	Extraction						Inf	luent			
Sampled	Well	Per	riod	Estima	ted Volume Pr	ocessed	Concentr	ation, µg/L	Net removal (lbs and gals)		
				Initial	Final	Gallons					
		Start Time	Sample Time	Totalizer	Totalizer	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	
Totals						2,090			0.0091 lbs	0.000251 lbs	
									0.0015 gals	0.000040 gals	

Sample calculations:

Removal rate calculation:

 $lbs\ removed = ("x"\ \mu g/L)*(gram/1,000,000\ \mu g)*(lb/454\ grams)*(3.78\ L/gal)*(gallons\ pumped)$ where "x" is influent concentration

Gallons removal calculation (for TPH):

gallons removed = lbs * gallon/6.2 lbs (density for TPH-G is 6.2; density for MTBE is 6.2)

Notes:

 $\mu g/L$ - 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)



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 35 TH AUE
City OAKIAND, CH
Sampled By D. De Mc(lo, VZ, Js

ORIGINAL

Site Number: ARCO 11(32
Project No.
Project PM
Date Sampled 11-08-07

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Site	u.n	nrai	ct Pr	เกทค	- IVIO					
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	Water Le	evel Data				Purge Vol	ume Çalcı	ulations			Well P	urge M	ethod	Sa	mple Red	ord	Field
				Total	Casing			Three	Actual					DTW			Data
		Depth to		Depth of	Water	Well	Multiplier		Water					At			Dissolved
V-11.1D	-y	water	Screen	Well	Column	Diameter	Value	Volumes	Purged	No					Sample		, , ,
Vell ID	Time	feet	feet	feet	(A)	(inches)	(B)	(gallons)	(gallons)	Purge	Bailer	Pump	Other	Time	I.D.	Time	(mg/L)
Mw-1			produc	By Ofy Purys		2	.5	FREE Proc	uct			4		_	Mw-1	N/S	
Mw-2	0500	20.32		31.45	1613	2	.5	5.57	5.5		x	-		ĐX	NW-2	1 •	1,21
4w-3	0450	19.27		34.30		2_	.5							~	Mw. 3	-	•
12-4	0430	21.86		39.68		2	15							-	Mw-4	-	-
1	0525			31.40	12.85	2	15	6.43	6.5		×		···	19.07	MW-5	0720	1.08
Mw.6	0755	17.79		34,33		2	15		4				·		MW-6		_
Mw-7	0530	20.41		34.65		2	.5							-	MW-7		
Mw. 8	0815	18.46		38.80	20.34	2	.5	10,47	10		X			18.73	MW-8	0645	1.29
Mul-9	0445	1		27.50	8.80	2	15	4.40	4.5		×			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			PRODUCT	y of m Purge		6	4.4	FREE	r Bailos						RW-1	N/S	1
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										- Barres							N. C.
					THE SOLD SHAPE			Total	33.50	SANSAGA				Between Co			ST. CONTRACTOR OF THE PROPERTY
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Site Address 3201 35 That E City OAK I AND CA Site Sampled by D. Dellello, VZ, JS

Site Number_/ Project No.	ARCO 11182
Project PM_	
Date Sampled_	11-08-07

ORIGINAL

Pg 1 0F2

Well ID Sheen	Mu	1-10	0	610	Well ID Shee	NW-	8	069	15
purge start time	Boul	,	000	r_	purge start time				
	Temp C	pН	. cond	gallon	s	Temp C	рН	cond	gallor
time	18.8	7.19	1.144	0	time	18.6	7.10	1040	
time	19.5	7:13	1206	3.5	time	19.5	7.09	1072	1
time	14.6	7.95	766	7	time	19.5	7.14	1	
time .					time				
purge stop time	DA				pugre stop time	ORP ((89)		
Well ID Sheen	4	Mu	7-5	0720	Well ID	ML	0-2	0	745
purge start time	Bail				purge start time	Bail		000	
	Temp C	Hq,	cond	gallons		Temp C	·pH	i	gallon
time	20.2	7.25	1114	p	tíme	20.5	7.06	1597	
time	20.2	7.19	645	3	time	20.4	7.03	1851	5.5
time	20.1	7.23	1146	6.5	time				
time					time				
purge stop time	0	RP	(1-28)	purge stop time	OR	1 /14	()	
Well ID					Well ID			J	
purge start time	-				purge start time				
	Temp C	DH	cond	gallons		Temp C	рН	eond	gallons
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time					time				
time				· · · · · · · · · · · · · · · · · · ·	time				
time /					time				
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Well ID	***************************************	****	~~~		Well ID		· · · · · · · · · · · · · · · · · · ·		
ourge start time			****		purge start time	Ç		,	***************************************
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ourge stop time	/	····			purge stop time				
					3				



Site Address 3200 35 4 AUE City OAKHAND, CA Site Sampled by D. De Mello, 1/2, 55

Site Number ARco (((32) Project No._ Project PM_ Date Sampled 11-08-07

ORIGINAL

					-,/				
Well ID	MW-	2	0	717	Well ID				
purge start time	Bail	er	0	dor	purge start time				
	Temp C	рН	cond	gallon	s	Temp C	Ha	cond	gallons
time -	19.9	7-14	939	R	time				
time	19.1	7.47			time				
time					time				
time					time				
purge stop time		OR	، عر	41	pugre stop time				
Well ID					Well ID				
purge start time					purge start time				
	Temp C	.pH	cend	gallons		Temp C	рH	cond	gallons
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time					time				
time					time				
purge stop time					purge stop time			-l	
Well ID					Well ID				
purge start time					purge start time				
	Temp C	рН	cond	gallons		Temp C	pH	cond	gallons
time					time.				
time					time				
time					time /				
time					time				
purge stop time					purge stop time			<u> </u>	
Well ID					Well ID				
purge start time					purge start time				
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time					time				
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ourge stop time					nurge stop time				

lg 2 of 2



Wellhead Observation Form

Account: ARCO 11/32
Sampled by: D. DeMello, VZ, JS Date: 11-08-07

Well ID	Box in good condition	Lock Missing (Replaced with new)	Water in Box	Bolts Missing	Bolts Stripped	Bolt-Holes Stripped	Cracked or Broken Lid	Cracked Box and/or Bolt - Holes	Misc.	Add'l Notes and Other Stuff
MW-1										
MW-2	×			-						Reglaces Cap-worlde to put swell.
MW-3	×	N								,
MW-4			\times		(2)	(2)			***************************************	WATER VERY BLACK. CAP/LOCK VERY
MW-5			X							Joseph - Mary
MW-6	×		C		-					
MW-7			×							
MW-8	×									
MW-9	X									
MW-10	_ X									
RW-1					·					

NO. 665085

NON-HAZARDOUS WASTE DATA FORM

				- 11/5.			
	BP WEST COA				35 4 0 Ve No. (464) 5 64		
	P.O. BOX St ADDRESS FARCHER AT CA 9268			and the second s	PROFI NO.		
GENERATOR	CONTAINE	RS: No) and a second
ED BY	WASTE DESCRIPTIONOMPONENTS OF	K LI TRUCK	3 WATER		WELI NERATING PROCESS COMPONEN	L PURGING/DE	PPM %
E COMPLET	2		11%		6		
TO B	4PROPERTIES: pH		LIQUID	STATE PROTEC] SLURRY OTH	ER	
	THE GENERATOR CE WASTE AS DESCR NON-HAZARDOUS.	RIBED IS 100	10%	y Moothart SES D OR PRINTED FULL NAM	E & SIGNATURE	Fairchisechellibringer physical portformacy (1974)	//-08-07 DATE
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TRANSPORTER	CITY, STATE, ZIP	n Park, C	l 9 5582				
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	SEAPORT R	~~~	ENVIRONI	ermal lic	EPA I.D. NO.		POSAL METHOD
	ADDRESS	DO CITY, C	A BARGE			LANDFILL C	OTHER
TSD FACILITY	PHONE NO						
TSD I			TYPE	D OR PRINTED FULL NAME	E & SIGNATURE		DATE
	GEN TRANS	OLD/NEW	L A S B	TONS			
	C/Q		RT/CD	HWDF NONE	DISCREPANCY		

Atlantic Richfield 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):

STO-TAT

On-site Time: 0410	Temp: 60'5
Off-site Time: 0810	Temp: 60'3
Sky Conditions: Clore	
Meteorological Events:	
Wind Speed: —	Direction:

Lab Nam	ne: TestAmerica					BP/AR Facility No	.:		1	1132							Con	sultar	nt/Co:	ntract	tor:	-	Stratus Environm	ental, Inc.	
Address:	885 Jarvis Drive	·····				BP/AR Facility Ad	dress		3201	35th	Ave.,	Oakl	and				Add	ress:		3330	Car	merc	on Park Drive, S	uite 550	
Morgan I	Hill, CA 95937	***************************************	~~~		_	Site Lat/Long:														Cam	eron	ı Par	k, CA 95682		
-	Lisa Race					California Global II	D No	:	T060	00100	213						Con	sultar	nt/Co	ntract	tor Pr	гојес	t No.: E1113	2-04	
	: 408-782-8156 408-782-630	8 (fax)				Enfos Project No.:			G07	TS-00	30						Con	sultar	nt/Co	ntract	tor Pl	M:	Jay Jo	nnson	
BP/AR P	PM Contact: Paul Supple					Provision or OOC	(circl	e one	:)	I	Provisi	on					Tele	/Fax:		(530	670	6-60	000 / (530) 676-	5005	
Address:	2010 Crow Canyon Place, Suit	e 150	····			Phase/WBS:		04-N	/lonit	oring							Repo	ort Ty	ype &	QC	Leve	:1:	Level	l with EDF	
	San Ramon, CA					Sub Phase/Task:		03 <i>-A</i>	naly	tical							E-m	ail El	DD T	o: §	shay	yes(@stratusinc.ne	t	
1	: 925-275-3506					Cost Element:		01-0	Contra	actor l	abor						Invo	ice to	: At	lantic	Rich	hfield	d Co.		
Lab Bott	tle Order No:		,	Ma	trix				Pı	reșerv	ative		All	by 8	260	Request	ed Ar	alys	is						
Item No.	Sample Description	Time	N Oate	Soil/Solid Water/Liquid	Air	Laboratory No.	No. of Containers	Unpreserved	H ₂ SO ₄	HNO,	HCl Methanol	TO THE PARTY OF TH	GRO/BTEX/Oxy*	1'		ерв							Co	nt Lat/Long mments Oxy = E,ETBE,DIF	
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	ipment Date: 11-08-07																								
Shipmen	ipment Method:																								
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Special II	11341	i icase C	c result	s to rmi	ner(a)b	roadbentinc.com																			
	Custody Seals In Place: Ye	s/No	Te	emp Bla	nk: Ye	s/No Cool	er Ta	mr	on P	ecair		۰r	F/C		Т.:-	Dlonk, W	/ >	T -		NC	/h 4C'	D.C.	1.6.1.	1 37 /33	
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885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.testamericainc.com

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.



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Stratus Environmental Inc. [Arco]
Project: BP Heritage #11132, Oakland, CA
MQK0328
3330 Cameron Park Dr., Suite 550
Project Number: G07TS-0030
Reported:
Project Manager: Jay Johnson
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%	60-1	50	"	"	"	"	
Surrogate: Dibromofluoromethane		88 %	75-1	30	"	"	"	n	
Surrogate: Toluene-d8		92 %	75-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91%	55-1	30	"	"	"	"	
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 %	60-1	50	"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	75-1	30	"	"	"	"	
Surrogate: Toluene-d8		93 %	75-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	55-1	30	"	"	"	n	
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 %	60-1	50	"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	75-1	30	"	"	"	n .	
Surrogate: Toluene-d8		93 %	75-1	20	n	"	n	"	
Surrogate: 4-Bromofluorobenzene		91 %	55-1	30	"	"	"	"	
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 %	60-1.	50	"	"	**	"	
Surrogate: Dibromofluoromethane		91 %	75-1.	30	"	"	"	"	
Surrogate: Toluene-d8		94 %	75-1.	20	"	"	"	11	
Surrogate: 4-Bromofluorobenzene		91%	55-1.	30	"	"	"	"	



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

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

Project: BP Heritage #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	Note
L MW-10 (MQK0328-05) Water Sample	d: 11/08/07 06:10	Received	1: 11/08/0	7 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	"	"	"	и	
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

				0	,				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-2 (MQK0328-01) Water S	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	#	11	ш	п	"	"	
tert-Butyl alcohol	2800	2000	II.	n	11	"	II	II.	
Di-isopropyl ether	ND	50	H	"	**	"	#	11	
1,2-Dibromoethane (EDB)	ND	50	*	"	*	II	11	и	
1,2-Dichloroethane	ND	50	H	II .	#1	**	II	H	
Ethanol	ND	30000	81	"	"	"	П	П	
Ethyl tert-butyl ether	ND	50	"	"	"	11	#	40	
Ethylbenzene	640	50	н	ш	II .	#	H	er .	
Methyl tert-butyl ether	240	50	Ш	**	H	"	II	tt	
Toluene	420	50	11	"	"	Ħ	Ħ	п	
Xylenes (total)	1700	50	11	n	"	11	"	n	
$Surrogate:\ Dibromofluoromethane$		88 %	75-1	30	"	"	"	n	
Surrogate: 1,2-Dichloroethane-d4		91%	60-1	50	"	"	"	n .	
Surrogate: Toluene-d8		92 %	75-1	20	"	"	n	n .	
Surrogate: 4-Bromofluorobenzene		91%	55-1	30	"	"	"	"	
MW-5 (MQK0328-02) Water S	ampled: 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	11	#	"	n	11	H	
tert-Butyl alcohol	310	100	11	"	n	III	"	**	
Di-isopropyl ether	ND	2.5	"	11	tt	11	"	н	
1,2-Dibromoethane (EDB)	ND	2.5	n .	11	11	**	I)	II	
1,2-Dichloroethane	ND	2.5	D.	#	11	n	#	fi .	
Ethanol	ND	1500	#	"	"	II	"	"	
Ethyl tert-butyl ether	ND	2.5	"	Ħ	n	11	Ħ	Ħ	
Ethylbenzene	46	2.5	11	II.	n	u	п	II	
Methyl tert-butyl ether	270	2.5	п	"	**	u	"	11	
Toluene	ND	2.5	"	n	*	п	11	"	
Xylenes (total)	35	2.5	H		II	**	H	II .	
Surrogate: Dibromofluoromethane		94 %	75-1	30	11	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96 %	60-1	50	"	"	"	"	
Surrogate: Toluene-d8		93 %	75-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	55-1	30	"	"	"	"	





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

MW-8 (MQK0328-03) Water Sampled: 11/08/07 06:45 Received: 11/08/07 19:45	Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Benzene 150 25 " " " " " " " " " " " " " " " " " " "	MW-8 (MQK0328-03) Water 5	Sampled: 11/08/07 06:45	Received	: 11/08/07	19:45					·
Start Star	tert-Amyl methyl ether	ND	25	ug/l	50	7K15011	11/15/07	11/15/07	EPA 8260B	
Di-isopropyl ether ND	Benzene	150	25	n	"	11	ш	11	II .	
1,2-Dichloroethane (EDB)	tert-Butyl alcohol	ND	1000	11	п	"	"	**	n .	
1,2-Dichloroethane	Di-isopropyl ether	ND	25	II .	**	н	H	Ħ	n	
Ethanol	1,2-Dibromoethane (EDB)	ND	25	**	11	Ħ	II	II	II	
Ethyl tert-butyl ether	,			tt	n	*	11	"	н	
Ethylbenzene 1100 25 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "	Ethanol		15000	n	#	11	"	IF	11	
Methyl tert-butyl ether 27 25 " " " " " " " " " " " " " " " " " " "	Ethyl tert-butyl ether	ND	25	**	. "	II	11	II	Ш	
Toluene 43 25 " " " " " " " " " " " " " " " " " " "	Ethylbenzene	1100		"	H	#	11	н	Ħ	
Surrogate: Dibromofluoromethane 92 % 75-130 " " " " " " " " " " " "	•			11	Ш	"	"	"	#	
Surrogate: Dibromofluoromethane 92 % 75-130 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "		- -							ff	
Surrogate: 1,2-Dichloroethane-d4	Xylenes (total)	3200	25	"		H	III	н	II .	
Surrogate: Toluene-d8 93 % 75-120 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "	Surrogate: Dibromofluoromethane	?	92 %	75-1.	30	"	"	"	"	
Surrogate: 4-Bromofluorobenzere 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 " " " " " " " " " " " " " " " " " " "	Surrogate: 1,2-Dichloroethane-d4		95 %	60-1.	50	"	"	"	"	
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 EPA 8260B Benzene 29 5.0 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " <t< td=""><td>Surrogate: Toluene-d8</td><td></td><td>93 %</td><td>75-12</td><td>20</td><td>"</td><td>"</td><td>"</td><td>n .</td><td></td></t<>	Surrogate: Toluene-d8		93 %	75-12	20	"	"	"	n .	
tert-Amyl methyl ether ND 5.0 ug/l 10 7K15011 11/15/07 11/15/07 EPA 8260B Benzene 29 5.0 " " " " " " " " " " " " " " " " " " "	Surrogate: 4-Bromofluorobenzene		91 %	55-1.	30	"	"	"	"	
Benzene 29 5.0 """"""""""""""""""""""""""""""""""""	MW-9 (MQK0328-04) Water S	Sampled: 11/08/07 07:17	Received:	11/08/07	19:45					
Di-isopropyl ether ND 200 " " " " " " " " "	tert-Amyl methyl ether	ND	5.0	ug/l	10	7K15011	11/15/07	11/15/07	EPA 8260B	
Di-isopropyl ether	Benzene	29	5.0	11	"	Ш	Ħ	П	H	
1,2-Dibromoethane (EDB) ND 5.0 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "	tert-Butyl alcohol	ND	200	**	n	н	11	#	#	
1,2-Dichloroethane ND 5.0 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "	Di-isopropyl ether	ND	5.0	n	11	"	"	11	"	
Ethanol ND 3000 " " " " " " " " " " " " " " " " "	1,2-Dibromoethane (EDB)	ND	5.0	II	H	n	H	B	п	
Ethyl tert-butyl ether ND 5.0 " " " " " " " " " " " " " " " " " " "	1,2-Dichloroethane	ND	5.0	н	"	n	н	#	11	
Ethylbenzene 98 5.0 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "	Ethanol	ND	3000	H.	n	"	**	"	"	
Methyl tert-butyl ether 52 5.0 " " " " " " " " " " " " " " " " " " "	Ethyl tert-butyl ether	ND	5.0	11	#1	n	n	п	II.	
Toluene ND 5.0 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "	•		5.0	#	"	п	п	11	н	
Xylenes (total) 250 5.0 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "				"	II.	11	н	"	ц	
Surrogate: Dibromofluoromethane 91 % 75-130 " " " " " Surrogate: 1,2-Dichloroethane-d4 100 % 60-150 " " " " " Surrogate: Toluene-d8 94 % 75-120 " " " " "		ND	5.0	II .	**	n	n	н	n	
Surrogate: 1,2-Dichloroethane-d4 100 % 60-150 " " " " " Surrogate: Toluene-d8 94 % 75-120 " " " " "	Xylenes (total)	250	5.0	"	"	11	11	II .	В	
Surrogate: Toluene-d8 94 % 75-120 " " " "	Surrogate: Dibromofluoromethane		91 %	75-13	30	"	"	11	"	
· ·	Surrogate: 1,2-Dichloroethane-d4		100 %	60-15	50	"	"	"	n	
Surrogate: 4-Bromofluorobenzene 91 % 55-130 " " " "	Surrogate: Toluene-d8		94 %	75-12	20	"	n	"	"	
	Surrogate: 4-Bromofluorobenzene		91%			"	"	"	u	





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
MW-10 (MQK0328-05) Water	Sampled: 11/08/07 06:10	Received	1: 11/08/0	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	#	н	п	н	и	11	
tert-Butyl alcohol	ND	200		п	11	11	u	11	
Di-isopropyl ether	ND	5.0	"	ıı	"	11	n	#	
1,2-Dibromoethane (EDB)	ND	5.0	0	11	11	n	11	H.	
1,2-Dichloroethane	ND	5.0	H	#	ш	*	"	н	
Ethanol	ND	3000	"	"	н	**	"	H	
Ethyl tert-butyl ether	ND	5.0	"	"	11	11	II	H	
Ethylbenzene	480	5.0	11	II	**	11	п	#	
Methyl tert-butyl ether	6.0	5.0	п	11	#	н	#1	tt	
Toluene	130	5.0	**	**	11	"	n	H	
Xylenes (total)	1600	5.0	"	"	н	н	n	и	
Surrogate: Dibromofluoromethan	e	93 %	75-	130	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	t	98 %	60-	150	"	"	"	"	
Surrogate: Toluene-d8		95 %	75-	120	"	"	"	n	
Surrogate: 4-Bromofluorobenzene	?	98 %	55-	130	"	"	n	"	





Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682 Project: BP Heritage #11132, Oakland, CA

Spike

Project Number: G07TS-0030
Project Manager: Jay Johnson

MQK0328 Reported: 11/27/07 13:09

RPD

%REC

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

Reporting

		Reporting		Spike	Source		/OINEC		KED	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K15011 - EPA 5030B P/T / L	UFT GCMS									
Blank (7K15011-BLK1)			·	Prepared	& Analyze	ed: 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-E	SS2)			Prepared a	& Analyze	ed: 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 (7K150)11-BSD2)			Prepared of	& Analyze	d: 11/15/0	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: M	QK0299-01		Prepared &	& Analyze	d: 11/15/0	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: M	QK0299-01		Prepared &	& Analyze	d: 11/15/0)7			
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		n	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] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682

Project: BP Heritage #11132, Oakland, CA

MQK0328 Reported: 11/27/07 13:09

Project Number: G07TS-0030
Project Manager: Jay Johnson

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

Batch 7K15011 - EPA 5030B P/T / EPA 8260B		Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	1	Batch 7K15011 - EPA 5030B P/T / F	PA 8260B				•					

Blank (7K15011-BLK1)				Prepared & Ar	nalyzed: 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	n				
1,2-Dibromoethane (EDB)	ND	0.50	11				
1,2-Dichloroethane	ND	0.50	"				
Ethanol	ND	300	n				
Ethyl tert-butyl ether	ND	0.50	п				
Ethylbenzene	ND	0.50	"				
Methyl tert-butyl ether	ND	0.50	#				
Toluene	ND	0.50	11				
Xylenes (total)	ND	0.50	Ш				
Surrogate: Dibromofluoromethane	2.28		"	2.50	91	75-130	
Surrogate: 1,2-Dichloroethane-d4	2.41		"	2.50	96	60-150	
Surrogate: Toluene-d8	2.32		"	2.50	93	75-120	
Surrogate: 4-Bromofluorobenzene	2.29		"	2.50	92	55-130	
Laboratory Control Sample (7K15011-BS1)				Prepared & Ar	nalyzed: 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	n	200	101	80-120	
Di-isopropyl ether	9.56	0.50	n	10.0	96	70-130	
1,2-Dibromoethane (EDB)	10.0	0.50	II .	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	II.	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	n	30.0	101	80-125	
Surrogate: Dibromofluoromethane	2.35		"	2.50	94	75-130	
Surrogate: 1,2-Dichloroethane-d4	2.35		"	2.50	94	60-150	
Surrogate: Toluene-d8	2.35		"	2.50	94	75-120	
Surrogate: 4-Bromofluorobenzene	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

Batch 7K15011 - EPA 5030B P/T / EPA 8260B												
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
		Reporting		Spike	Source		%REC		RPD			

Matrix Spike (7K15011-MS1)	Source: MQ	K0299-01		Prepared	& Analyze	ed: 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	н	200	5.97	101	80-125			
Di-isopropyl ether	9.72	0.50	II.	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	н	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	n	10.0	3.23	96	75-145			
Toluene	9.51	0.50	н	10.0	ND	95	80-125			
Xylenes (total)	29.5	0.50	ш	30.0	0.230	98	75-125			
Surrogate: Dibromofluoromethane	2.34		"	2.50		94	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.35		"	2.50		94	60-150			
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: MQ	K0299-01		Prepared	& Analyze	d: 11/15	07			
ert-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	
ert-Butyl alcohol	214	20	п	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	n	10.0	ND	103	65-145	5	25	
Ethanol	234	300	11	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	TF.	10.0	ND	99	75-130	0.2	20	
Methyl tert-butyl ether	14.0	0.50	н	10.0	3.23	108	75-145	9	25	
Гoluene	9.57	0.50	. "	10.0	ND	96	80-125	0.6	25	
Kylenes (total)	29.4	0.50	п	30.0	0.230	97	75-125	0.1	20	
Surrogate: Dibromofluoromethane	2.42		"	2.50		97	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.49		"	2.50		100	60-150			
T 10	2.35		"	2.50		94	75-120			
Surrogate: Toluene-d8	2,33			2.50			13 120			



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

Stratus Environmental Inc. [Arco] Project: BP Heritage #11132, Oakland, CA MQK0328
3330 Cameron Park Dr., Suite 550 Project Number: G07TS-0030 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 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

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name:

ARCO 11132

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

BP > Americas > West > Retail > Alameda > 11132

A Printaginas P West P Retail P Atlanteu

Requested Due Date (mm/dd/yy): S7D - TAT

On-site Time: 0410 Temp: 60'5

Off-site Time: 0810 Temp: 60'5

Sky Conditions: C/C+C

Meteoralogical Events:

Wind Speed: Direction:

Shipment Date: [1-08-	07			A.,		Nall	. 0.	~ /	- 3 4	4-1-1	Y .	40-4,			1			$\vdash \epsilon$	#	4	IA.	ar	4	H-WSA.	// \$2 // \$-07	112
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Address: 2010 Crow Canyon Place, Sui	te 150				Н	Phase/WBS:	<u> (care</u>			toring		ision						-	Fax					000 / (530) 676-60		
BP/AR PM Contact: Paul Supple	vo (rav)	· · · · · · · · · · · · · · · · · · ·			Н	Enfos Project No.: Provision or OOC	Inius	Ja		T\$-0	-							1				ctor P)		Jay John		
Lao Phys. 1.38 Kesse Tele/Fax: 408-782-8156 408-782-639	YR (6)				Н	California Global II) No).:		0010		i						1)—					_	et No.: E11132-)4	
Morgan Hill, CA 95937 Lab PM: Lisa Race					Н	Site Lat/Long:																		rk, CA 95682		
Address: 885 Jarvis Drive					Ц	BP/AR Facility Ad	dres	s:	320	1 350	h Av	c., Osi	ktand					11-	iress					on Park Drive, Sui		
Lac Name: Jeschijgerjes						BP/AR Facility No.				11132	L							Com	ısırlte	mt/Cc	आंध्र	water:		Stratus Environment	al lac	

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARLO 11182 REC. BY (PRINT) D.U. WORKORDER: MQK0328		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	1118107 1945 [[]09]0				DRINK	itory Purposes? IING WATER E WATER R
CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION		pН	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
Custody Seal(s) Present / Aosent								
Intact A Broken*					*******			
2. Chain-of-Custody Present Absent*								
Traffic Reports or					•			
Packing List: Present / Absent		* *************************************						
4. Airbill: Airbill / Sticker							-	
Present / Assant								
5. Airbill #.								
6. Sample Labels: Present / Absent							7	
7. Sample IDs: Listed / Not Listed								
on Chain-of-Custody				ا تر				
8. Sample Condition: Intact) Broken* /				U				
Leaking*			2º	M.				
9. Does information on chain-of-custody,			s_{il}	ベジメ				
traffic reports and sample labels		•	` '					
agree? Yell / No*				_ '				
10. Sample received within				•				
hold time? (Yes)No*								
11. Adequate sample volume		-						
received? (Yest/ No*								
12. Proper preservatives used? (Yes)/ No*		/						
13. Trik Blank / Temp Blank Received?	~							
(circle which, # yes) Yes No*			-					
14. Read Temp: 3.2°								
Correction Factor: ~(,o'								
Corrected Temp: 2.1		1:/						
Is corrected temp. 0-6°C? Yes / No**		/	-					
**Exception (if any): Metals / Perchlorate								Ž.
DFF on Ice or Problem COC								

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

Page \ of |



Product Purge

Global ID:

Site Address 3201 35 th.

City Oakland, CA

Sampled By: VinceZ

Site Number 11132
Project No
Project PM

Date 10-17-07

13

Signature Vine Zalutton

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	Wate	er Level Data	garante est est est est est est est est est e			Purge	Volume Calculations			Sample Record	Field Data
Well ID	DTP	OTW	Top of Screwn feet	Otr. 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	20.37		T	6	4.4	4		Section Control of the Control of th	RW-1	
MVV-1	21.80	21.81			2	0.5	4			MVV-1	
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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 ORIGINA



Product Purge

Global ID:

Site Address 3201 35 th.

City Oakland, CA

Sampled By: VinceZ

Signature 1/. 3 duth

Site Number 11132
Project No
Project PM

Date 11-08-07

n site 0515

oub site

							0			066	5.1.	e
	Wate	er Level Data				Purge	Volume Calculations			Sample R	ecord	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 oak	X	Andrews Company of Com		RW-1	
MW-1	21.83	21.84	<u> </u>		2	0.5	2.5 gal 3 5 a l				MW-1	
MW-8		38.80 27.50 34.05			2	N/A	The state of the s		coatment option when the coatment of the coatm			
MW-9		27.50			2	N/A						
MW-10		34.05			2	N/A						
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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 PRIGINAL



Product Purge

Global ID:

Site Address 3201 35 th.

City Oakland, CA

Sampled By: VinceZ

ORIGINAL Sit

Site Number	1113
Project No	

Project PM t PM Date 12-12-07

Signature Vine Zatullas off 0630 on-0500

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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	
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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! Your file has been successfully submitted!

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 (REG Local Agency (lead agency) - Case #: I ALAMEDA COUNTY LOP - (SP)	
	JARTER 4 2007 REVIEW
SAMPLE DETECTIONS REPORT # FIELD POINTS SAMPLED # FIELD POINTS WITH DETECTIONS # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL SAMPLE MATRIX TYPES METHOD QA/QC REPORT	5 5 5 WATER 0FA,8260TPH Y N
QA/QC FOR 8021/8260 SERIES SAMPLES TECHNICAL HOLDING TIME VIOLATIONS METHOD HOLDING TIME VIOLATIONS LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT LAB BLANK DETECTIONS DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING - LAB METHOD BLANK - MATRIX SPIKE - MATRIX SPIKE DUPLICATE - BLANK SPIKE - SURROGATE SPIKE	0 0 0 0 0 3? Y Y Y Y
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Main Menu | View/Add Facilities | Upload EDD | Check EDD

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Confirmation Number: 2388816177

Date/Time of Submittal: 1/31/2008 2:04:31 PM

Facility Global ID: T0600100213 Facility Name: BP #11132

Submittal Title: Mobile DPE IRM 1107 1 **Submittal Type:** Other/Miscellaneous Report

Click <u>here</u> to view the detections report for this upload.

BP #11132 Regional Board - Case #: 01-0227

3201 35TH SAN FRANCISCO BAY RWQCB (REGION 2)
OAKLAND, CA 94619 Local Agency (lead agency) - Case #: RO0000014

ALAMEDA COUNTY LOP - (SP)

 CONF #
 TITLE
 QUARTER

 2388816177
 Mobile DPE IRM 1107 1
 Q4 2007

SUBMITTED BY SUBMIT DATE STATUS

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

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QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 0 METHOD HOLDING TIME VIOLATIONS 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 Υ - MATRIX SPIKE N - MATRIX SPIKE DUPLICATE N - BLANK SPIKE Υ - SURROGATE SPIKE

WATER SAMPLES FOR 8021/8260 SERIES

•	SPIKE DUPLICATE(S) % RECOV		n/a
MATRIX SPIKE / MATRIX :	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % R	ECOVERY BETWEEN 85-115%		n/a
BLANK SPIKE / BLANK SP	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
SOIL SAMPLES FOR	8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % R	ECOVERY BETWEEN 70-125%		n/a
BLANK SPIKE / BLANK SP	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
FIELD QC SAMPLES			
	COLLECTED	DETECTIONS >	
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SAMPLE QCTB SAMPLES	<u>COLLECTED</u> N	0	REPDL
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CONTACT SITE <u>ADMINISTRATOR</u>.

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Confirmation Number: 2560416936

Date/Time of Submittal: 1/31/2008 2:05:13 PM

Facility Global ID: T0600100213
Facility Name: BP #11132

Submittal Title: Mobile DPE IRM 1107 2 **Submittal Type:** Other/Miscellaneous Report

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3201 35TH SAN FRANCISCO BAY RWQCB (REGION 2)
OAKLAND, CA 94619 Local Agency (lead agency) - Case #: RO0000014

ALAMEDA COUNTY LOP - (SP)

 CONF #
 TITLE
 QUARTER

 2560416936
 Mobile DPE IRM 1107 2
 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

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QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 0 METHOD HOLDING TIME VIOLATIONS 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 Υ - MATRIX SPIKE N - MATRIX SPIKE DUPLICATE N - BLANK SPIKE Υ - SURROGATE SPIKE

WATER SAMPLES FOR 8021/8260 SERIES

•	SPIKE DUPLICATE(S) % RECOV		n/a
MATRIX SPIKE / MATRIX :	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % R	ECOVERY BETWEEN 85-115%		n/a
BLANK SPIKE / BLANK SP	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
SOIL SAMPLES FOR	8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % R	ECOVERY BETWEEN 70-125%		n/a
BLANK SPIKE / BLANK SP	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
FIELD QC SAMPLES			
	COLLECTED	DETECTIONS >	
SAMPLE	COLLECTED	DETECTIONS	<u>REPDL</u>
SAMPLE QCTB SAMPLES	<u>COLLECTED</u> N	0	REPDL
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Confirmation Number: 2153629362

Date/Time of Submittal: 1/31/2008 1:30:46 PM

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 Regional Board - Case #: 01-0227

3201 35TH SAN FRANCISCO BAY RWQCB (REGION 2) OAKLAND, CA 94619 Local Agency (lead agency) - Case #: RO0000014

ALAMEDA COUNTY LOP - (SP)

CONF# TITLE QUARTER Mobile DPE IRM 1107 3 2153629362 Q4 2007

SUBMITTED BY **SUBMIT DATE STATUS**

PENDING REVIEW Broadbent & Associates, Inc. 1/31/2008

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? MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETHANOL TO BE TESTED

LAB NOTE DATA QUALIFIERS N

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QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 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 - MATRIX SPIKE - MATRIX SPIKE DUPLICATE Υ - BLANK SPIKE Υ - SURROGATE SPIKE

WATER SAMPLES FOR 8021/8260 SERIES

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

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 OCAB SAMPLES N 0	BLANK SPIKE / BLANK SPI	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	Υ
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	SOIL SAMPLES FOR	8021/8260 SERIES		
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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	MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
FIELD QC SAMPLES SAMPLE COLLECTED DETECTIONS > REPDL QCTB SAMPLES N 0 QCEB SAMPLES N 0	SURROGATE SPIKES % RE	ECOVERY BETWEEN 70-125%		n/a
SAMPLECOLLECTEDDETECTIONS > REPDLQCTB SAMPLESN0QCEB SAMPLESN0	BLANK SPIKE / BLANK SPI	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
QCAD SAMPLES IN U	SAMPLE		DETECTIONS > 0	REPDL

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Confirmation Number: 9918283820

Date/Time of Submittal: 1/31/2008 2:06:01 PM

Facility Global ID: T0600100213
Facility Name: BP #11132

Submittal Title: Mobile DPE IRM 1107 4 **Submittal Type:** Other/Miscellaneous Report

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3201 35TH SAN FRANCISCO BAY RWQCB (REGION 2)
OAKLAND, CA 94619 Local Agency (lead agency) - Case #: RO0000014

ALAMEDA COUNTY LOP - (SP)

 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

DATA QUALIFIERS

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QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 0 METHOD HOLDING TIME VIOLATIONS 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 Υ - MATRIX SPIKE N - MATRIX SPIKE DUPLICATE N - BLANK SPIKE Υ - SURROGATE SPIKE

WATER SAMPLES FOR 8021/8260 SERIES

•	SPIKE DUPLICATE(S) % RECOV		n/a
MATRIX SPIKE / MATRIX :	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % R	ECOVERY BETWEEN 85-115%		n/a
BLANK SPIKE / BLANK SP	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
SOIL SAMPLES FOR	8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % R	ECOVERY BETWEEN 70-125%		n/a
BLANK SPIKE / BLANK SP	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
FIELD QC SAMPLES			
	COLLECTED	DETECTIONS >	
SAMPLE	COLLECTED	DETECTIONS	<u>REPDL</u>
SAMPLE QCTB SAMPLES	<u>COLLECTED</u> N	0	REPDL
		0 0	<u>REPDL</u>

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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 Regional Board - Case #: 01-0227

3201 35TH SAN FRANCISCO BAY RWQCB (REGION 2) OAKLAND, CA 94619 Local Agency (lead agency) - Case #: RO0000014

ALAMEDA COUNTY LOP - (SP)

CONF# TITLE QUARTER Mobile DPE IRM 1107 5 3306388616 Q4 2007

SUBMITTED BY **SUBMIT DATE STATUS**

PENDING REVIEW Broadbent & Associates, Inc. 1/31/2008

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? MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETHANOL TO BE TESTED

LAB NOTE DATA QUALIFIERS Υ

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QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 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 - MATRIX SPIKE - MATRIX SPIKE DUPLICATE Υ - BLANK SPIKE Υ - SURROGATE SPIKE

WATER SAMPLES FOR 8021/8260 SERIES

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

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 OCAB SAMPLES N 0	BLANK SPIKE / BLANK SPI	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	Υ
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	SOIL SAMPLES FOR	8021/8260 SERIES		
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	MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	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	MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
FIELD QC SAMPLES SAMPLE COLLECTED DETECTIONS > REPDL QCTB SAMPLES N 0 QCEB SAMPLES N 0	SURROGATE SPIKES % RE	ECOVERY BETWEEN 70-125%		n/a
SAMPLECOLLECTEDDETECTIONS > REPDLQCTB SAMPLESN0QCEB SAMPLESN0	BLANK SPIKE / BLANK SPI	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
QCAD SAMPLES IN U	SAMPLE		DETECTIONS > 0	REPDL

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

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Confirmation Number: 7026121675

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Facility Global ID: T0600100213
Facility Name: BP #11132

Submittal Title: Mobile DPE IRM 1107 6 **Submittal Type:** Other/Miscellaneous Report

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BP #11132 Regional Board - Case #: 01-0227

3201 35TH SAN FRANCISCO BAY RWQCB (REGION 2)
OAKLAND, CA 94619 Local Agency (lead agency) - Case #: RO0000014

ALAMEDA COUNTY LOP - (SP)

 CONF #
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 QUARTER

 7026121675
 Mobile DPE IRM 1107 6
 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

Ν

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 TESTED8260FA REQUIRES ETHANOL TO BE TESTED

LAB NOTE DATA QUALIFIERS

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 0 METHOD HOLDING TIME VIOLATIONS 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 Υ - MATRIX SPIKE N - MATRIX SPIKE DUPLICATE N - BLANK SPIKE Υ - SURROGATE SPIKE

WATER SAMPLES FOR 8021/8260 SERIES

•	SPIKE DUPLICATE(S) % RECOV		n/a
MATRIX SPIKE / MATRIX :	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % R	ECOVERY BETWEEN 85-115%		n/a
BLANK SPIKE / BLANK SP	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
SOIL SAMPLES FOR	8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
SURROGATE SPIKES % R	ECOVERY BETWEEN 70-125%		n/a
BLANK SPIKE / BLANK SP	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
FIELD QC SAMPLES			
I ILLD QO OAMII LLO		DETECTIONS	
SAMPLE	COLLECTED	<u>DETECTIONS ></u>	REPDL
	<u>COLLECTED</u> N	DETECTIONS >	REPDL
SAMPLE		DETECTIONS > 0 0	REPDL

CONTACT SITE <u>ADMINISTRATOR</u>.

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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 Regional Board - Case #: 01-0227

3201 35TH SAN FRANCISCO BAY RWQCB (REGION 2) OAKLAND, CA 94619 Local Agency (lead agency) - Case #: RO0000014

ALAMEDA COUNTY LOP - (SP)

CONF# TITLE QUARTER Mobile DPE IRM 1107 7 1034738898 Q4 2007

SUBMITTED BY **SUBMIT DATE STATUS**

PENDING REVIEW Broadbent & Associates, Inc. 1/31/2008

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? MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETHANOL TO BE TESTED

LAB NOTE DATA QUALIFIERS N

0

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 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 - MATRIX SPIKE - MATRIX SPIKE DUPLICATE Υ - BLANK SPIKE Υ - SURROGATE SPIKE

WATER SAMPLES FOR 8021/8260 SERIES

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

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 OCAB SAMPLES N 0	BLANK SPIKE / BLANK SPI	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	Υ
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	SOIL SAMPLES FOR	8021/8260 SERIES		
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	MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	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	MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
FIELD QC SAMPLES SAMPLE COLLECTED DETECTIONS > REPDL QCTB SAMPLES N 0 QCEB SAMPLES N 0	SURROGATE SPIKES % RE	ECOVERY BETWEEN 70-125%		n/a
SAMPLECOLLECTEDDETECTIONS > REPDLQCTB SAMPLESN0QCEB SAMPLESN0	BLANK SPIKE / BLANK SPI	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
QCAD SAMPLES IN U	SAMPLE		DETECTIONS > 0	REPDL

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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 Regional Board - Case #: 01-0227

3201 35TH SAN FRANCISCO BAY RWQCB (REGION 2) OAKLAND, CA 94619 Local Agency (lead agency) - Case #: RO0000014

ALAMEDA COUNTY LOP - (SP)

CONF# TITLE QUARTER Mobile DPE IRM 1107 8 3213540196 Q4 2007

SUBMITTED BY **SUBMIT DATE STATUS**

PENDING REVIEW Broadbent & Associates, Inc. 1/31/2008

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? MISSING PARAMETERS NOT TESTED:

- 8260FA REQUIRES ETHANOL TO BE TESTED

LAB NOTE DATA QUALIFIERS Υ

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QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 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 - MATRIX SPIKE - MATRIX SPIKE DUPLICATE Υ - BLANK SPIKE Υ - SURROGATE SPIKE

WATER SAMPLES FOR 8021/8260 SERIES

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

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 OCAB SAMPLES N 0	BLANK SPIKE / BLANK SPI	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	Υ
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	SOIL SAMPLES FOR	8021/8260 SERIES		
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	MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	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	MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a
FIELD QC SAMPLES SAMPLE COLLECTED DETECTIONS > REPDL QCTB SAMPLES N 0 QCEB SAMPLES N 0	SURROGATE SPIKES % RE	ECOVERY BETWEEN 70-125%		n/a
SAMPLECOLLECTEDDETECTIONS > REPDLQCTB SAMPLESN0QCEB SAMPLESN0	BLANK SPIKE / BLANK SPI	IKE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
QCAD SAMPLES IN U	SAMPLE		DETECTIONS > 0	REPDL

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

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	1 st hour	1 st hour, 6 th hour, and
	11 th hour		11 th hour
MW-2	1 st hour, 6 th hour, and	Not Sampled	1 st hour, 6 th hour, and
	11 th hour		11 th hour
RW-1	1 st hour, 6 th hour, and	Not Sampled	1 st hour, 6 th hour, and
	11 th hour		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

Attachments:

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

CC: Paul Supple, BP/ARCO

Jay R. Johnson

Project Manager

Site Name & Former ARCO No. 11132 Address

3201 35th Avenue, Oakland Test Well ID MW.

Test Operators

Date

Equipment Model and Serial Nos.

<u>Z50 TCAT</u> LIZ C117 Z Mini RAE

PID Model

		-											
Date & Time	Hour Meter Reading	Vacuum		Rate ¹	Rate ²	Dilution Air Temp	totalizer (DPE unit)	Sys Inf Air Temp	Control Temp	Effluent Air Temp	System Influent	Effluent PID	Comments/Notes
	hrs	"Hg	"WC	fpm/cfm	(fpm/cfm	deg F	gallons	deg F	deg F	deg F	ppmv	ppmv	31650 Totalizer Stat
Measure ba	iseline DTW 半年でう	and vacuu Me	um level at reasure the st	wells EW-l	t , EW-2, R nat extracti	₩-1 throug on well. Re	h RW-9, RW- ecord hour met	H, and RV er reading	V=1 2 prior t of the gene	o commend	ement of	test and al	so the total depth of test wells
0700	22607		7H7	2500	i .	47	31650	193	1543		917		ive
	2261	25	135	2500	919	54	31650	100	1631	1561	848	3	11132 A EFF USUS
	2262	25	140	3000	748	55	31720	110	1633	1575	557	4	11132 A SYSTN ~ 1903 1
_	2263	25	140	3000	1107	67	31790	115	1630	1578	405	3	11132AS4SINF1000 11132WINF 1000
	2764	25	140	3000	770	66	31930	115	1613	1759	343	4	11132 WINF 1020
1200	1265	25	140	3000	874	70	31930	115	1599	1596	297	3	
-	2266	25	140	3000	1056	68	32070	115	1608	1553	238	2	01:132 A SYSINF 1305 L
1400	2267	25	130	3000	1080		32070	115	1569	1519	235	7	11132 H S43 INF 1305 L
	2268	25	124	3000		68	32200	115	1564	1512	150	1	•
600	2269	25	115	3000	753	64	32270	115	1558	1507	177		611132 A SUSTAT-1605
	2270	25	112	3000	974	60	32340	110	1550	1501	178		11132 W FWF 1200
	2271	25	[[]	3000	858	08	32410	110	1544	1495	175	1	- 2:017:
1900	2272	25	117	3000	990	55	32510	110	1944	1496	174	1	111324 JUS INF 1830 LV
Diameter of the	e system inf	luent air flo	ow pipe is_	<u>Z_</u> i	nches (well s	ample po	at op	en To	Keep h	120 F/	unit	
Diameter of the	e dilution air	r flow pipe	is 2	inches									

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

Test Well ID MW - /

Operators CHILL

GROWTHA

OF INGINAL

DTB DTB PTB M Depth to water (feet bgs) 38 MW-1 MW-2 MW-3 MW-4 MW-7 Date & Time **MW-8** MW-9 MW-10 RW-1 112110 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. 11 24 [0] 21-42 - DTP 21-43 DTW 2173 20.46 405 20.72 19.50 22.10 20.33 18.36 18.53 19.35 20.32 20.94 19.74 22.34 20.27 18.44 18.75 19.47 20.48 36, 21.11 19.90 22.55 20 24 18.55 18.95 19.60 20.85 1000 21.25 1995 22.67 20.20 18.58 19.05 1/120 1200 21.19 20.0 22.75 20.14 1821 19.11 21.26 20.09 22.83 20.16 8.66 9.20 19.73 21.15 1300 21.32 20.17 22.90 20.17 18-64 19.27 1400 1500 2(36 20,2) 22.94 20.18 20.28 22.98 20.19 18.76 21.43 20.32 23.02 11 17 18.78 19.41 1700 1800 21.47 20.37 23,06 20-21 18.8419.46 4530 23,05/20,23 15/96/19-49

Record the stinger depth in the DTW column for the test well

Sheen Ru- 1 Black Tar, Rul Not Measured Evry Time The to oil show

	Former ARCO No. 11132	Date 1/2
Address	3201 35th Avenue, Oakland	Operators (2141
Test Well ID	mul	



	·	T	T	T	····	Wellhead/I	nduced Va	cuum ("WC	C)				
Date & Time	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 vacuu	m level at w	vells MW-1, otal depth o	, MW-2, M	W-3, MW-4 (MW-1 M)	I, MW-6, M	(W-7, MW-	8, MW-9, Me the stinger	IW-10, and	RW-1 pric	r to comm	encement o	of test and
2500	#	a	651	&	8	2, CC KW	B. Weasur	e the stinger	depth at ex	traction w	eII.		
0800	135	米	*	-3.5	+3.6	0	-3.2	- 09	- M				
0900	140			-3.0		0	-2,4	6					
1000	140			÷ کرک	+1.6	Ø	-1.4	- ا ي -					
1100	140		4	-1.0	7.11	H	-1.0	- 0					
1200	140			-,2	\$	B	2	Ø					
1300	140				7,2	&	6 2	0					
1400	130			-0,2	+,4	8	4	t					
	124			0	4.2	¥	10	0		**			
1600	117			'	8	W	8	<u> 8</u>					
1700	112			8	Nm ¹			NM					
1830	117			<i>D</i>	0	0	82	0					
(0.)0	17 (9	A	&	0	0	-				
													ļ

Site	Name	S
Add	race	

& Former ARCO No. 11132

Address

3201 35th Avenue, Oakland

Test Well ID

Date Test Operators

Equipment Model and Serial Nos.

TCAY Z50 L/Z C1172 Mini ZAR

PID Model

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		Effluent PID ppmv	Comments/Notes	
Measure ba	seline DTW	and vacuu Me	easure the st	inger depti	at extracti	throug on well. Re	h keep, eecord hour met	, and	prior t	o commend	cement of	est and al	so the total depth of test wells.	
0700	2272	25	132*	3000	[• •]	50	32510	75	1471		225	5		
0800	2273	25	161	3000	740	らて	32510	100	1521	1462	121	5	11132 A SUSINCOSO	#) 1.4:
0900	2274	25	148	3000	755	55	32600	105	1537	1486	125	5	11136 11 201 1 6 1100	
1000	7275	25	155	3000	907	64	32600	115	1532	H53	115	5	011132 ASYS INFOI	5
100	22769	25	110	3000	960	78	32680	115	1520	1471	94.4	3.7	11132 WINK 1012	1
1200	2278.1	25	109	<u> 3000</u>	976	68	32740	115	1518	1471	79.L	5.6	,	
	22767	25	109	3000	892	68	32810	115	1520	1471	71.9	4.8	01/132 A S45 INF	X A
	2279	マグ	174	3000	808	68	32810	115	1520	1471	61	3		216
	2280	マケ	140	5 P. S.			32880	115	1516	1468	60	3		
	2251	25	137		722	65	32950	115	1520	1472	70	3	011132 A S45 INF180	0
	2252	75	124	3000	681	62	32950	115	1517	1469	69	3	0 11132 A S45 INF 1850 11132 W INF 1730	
800	2283	27	130	3000	70 (59	33040	110	1512	1466	60	3		
	·													LAI
iameter of the	system infl	uent air flo	ow pipe is_	<i>Ž.</i> , i	nches	well h	lend porti	open fo	AHZO	Flore				•
iameter of the	dilution air	flow pipe	is	inches										

Site Name & Former ARCO No. 11132 Address

3201-35th Avenue, Oakland

Test Well ID

Operators CHILL

		1	1	T	,	Depth	to water (f	eet bgs)					
Date & Time	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	Stringue				
Measure D'I	TW and vac	uum level a	t wells	yells	throug	h , , , , , , , , , , , , , , , , , , ,	and	prior	to commence	ement of te	st and also	the total de	epth o
0430	21.84	20,53				18.33							
	22.02	20,75	19.34	22.10	20.17	18.42	18.69	19.48	335	331			
0900	22.39	21.23	19.47	22.23	20:19	18.62	18.88	19.66	39"				
1000	27.56	2),43	19.57	22,34	20.21	18.70	19.0	19.78	39*				
						18.84		19.86	39'				
						18.82			39'				
			19.70	Car	20.23	18.83	19.18	i	391				-
		21.62				18.82	11	1990					
		21.65					19.18		391				-
		21.66				I.	19.70	NM	391				+
		21.68					19.25		391				
		4	, , ,				+ 11-7		7 .				
													+

* MWID Run over NOT Able TO get CHT OFF MW8 Someone Took I'd to well Box Traffic Extra Busy today more Than Monday No More Penlips Mw.8,10

0-2170

STRATUS

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

Test Well ID

Date 112707
Operators CHILL
S. Nandi



Wellhead/Induced Vacuum ("WC) MW-1 MW-2 MW-3 MW-4 MW-7 MW-8 MW-9 MW-10 RW-1 Date & Time 112707 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. 0 12430 \$ 7 1 4 0500 P 1 0 ,2 148 a - , Z 0900 0 1000 - , Z 87 8 D -,3 155 79 ~. 2 -0.2 -0.1 ϕ 1100 -0.1 110 -0.3 -O. 9_ -0.2 -0.2 -0.2 1200 -0. l -0.2 109 1300 -0.2 -0.4 -0.3 -0.3 109 134 2 1-00 6 2 6 82 D 0 0 0 40 8 AHM NM 124 4 NM NM Ď 0 4 800 to NM 130 NM TH 49-

Site Name &	Former ARCO No. 11132	4	Date Date
Address	3201 35th Avenue, Oakland		Date Test Operators
Test Well ID	MW-Z		

Equipment Model and Serial Nos.

TCAT 250 LZ
C1172

PID Model Music RAE

Date & Time	Hour Meter Reading	Applied Vacuum	Wellhead Vacuum	Sys Inf Air Flow Rate ¹	Dilution Air Flow Rate ²	Dilution Air Temp	Flow totalizer (DPE unit)	Sys Inf Air Temp	Control Temp	Effluent Air Temp	System Influent	Effluent PID	Comments/Notes
112807	hrs	"Hg	"WC	fpm/cfm	(fpn)/cfm	deg F	gallons	deg F	deg F	deg F	ppmv	ppmv	
Measure ba	seline DTW	V and vacui	um level at	wells	at extraction	throug	h Record hour met	and IN	prior t	o commend	cement of start and a	est and al	so the total depth of test wells.
0700	2453	25	- Service Constitution of the Constitution of	2503	718	47	33040	65	1472	1394	150	- Co	
5 800	2254	25	90	2500	656	50	33040	90	1567	1502	335	3	e 11132 A SYS INFOSOS
0910	2285	27	86	3000	662	58	33110	110	1608	1550	348	4	11132WINF 0900
	2286	スゲ	80	3000	775	65	33180	115	1592	1539	394	3	011132 A SYS INF 1000 11132 W FNF
1100	7287	25	83	3000	936	65	33250	115	1600	1545	375	3	11132 W FNF
1200	2255	25	74	3000	1030	75	33320	115	1601	1547	362	Z	
<u> </u>	2289	25	75	3000	958	72	33390	115	1592	1539	370	2	011132 19545 INF 1300
	2290	25	81	3000	1039	74	33460	110	1589	1935	287	2	11132WINF 1330
1500	2Z91	25	४५	3000	YZZ	64	33520	110	1592	1535	325	2	
1600	2292	25	79	3000	709	65	33590	110	1595	1542	352	2	11132 A SUS INF
	2293	25	80	3000			33660	110	1589	1537	355	2	11132 A SUS INF 1900
1800	2294	25	78	3000	621		33740	110	1579		370	7_	
										-			
				,				1		L			

Diameter of the system influent air flow pipe is _____ inches

Diameter of the dilution air flow pipe is _____ inches

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

Date 112807
Operators CHILL & DEIGINAL

Test Well ID MW-Z

						Depth	to water (f	eet bgs)					
Date & Time	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 DI	TW and vac	uum level at				h			to commence	ement of te	est and also	the total de	pth of test
6500			19.37	12.00	20,22	18.44	18.70	19.53	20.33				
0500	22.06	30500	19.45	22.20	NM*	NM^*	15.88	NW	20,49				
	22.25	30'stugi	19.54	22.31	NW *	Nm*	19.03	NM^*	20.76				
1000	入ス・39 2747	30	19.65	22.39	20.71	18.89	19,12						
1200	22.47 22.50					Nm*							
	72.53					19.10							
1400	27,56	301	19.79	22.54		NW*							
	72,57	30'	19.80	22.55	NM*	Nm*	19.35	NM*	21.15				
	22.60					CAR							
	12.61					CHZ			21.53		*		
1800	27.62	301	19.87	22.60	20.41	CAR	19141	20.38	21.53				
		A.*											
Record the stin	ger depth in	n the DTW	column for	the test well	RW-	(She	en 5		Traffic				
						1 She		*	· recollec				

	Former ARCO No. 11132	Date	112807		
Address	3201 35th Avenue, Oakland	Operators	CHILL	A -	Ammerica
Test Well ID	MWZ				Ongrai

	Wellhead/Induced Vacuum ("WC)														
Date & Time	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	·					
leasure DTW	and vacuu	m level at w	ells MŴ-1, otal depth o	MW-2, M' f test wells	W-3, MW-4 (MW-1, M	1, MW-6, M W-2, & RW		8, MW-9, Me the stinger	IW-10, and depth at ex	RW-1 pric	or to comm	encement o	f test and a		
0500	28_	0		Ā	4	8-	6	8	-						
0500	m cns	90	BINICHTOP	- w 3	Non	NM	-06	NM	Vagge (Sept)						
0900	~	86	-	· 13	NM	NM	- 04	NW							
1000		80	•	7	-11	-2,3	- 25	-01	100000						
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200	production of the same of the	74	_	4	NM	NM	4	Nu	Спистоприци						
1300	~	75		ð	G	-81	0	9							
1400		51		0	NM	NM	Sparen .	NAM	Commence						
1500	<u>~</u>	94		\b	NM	NM	P	NM	-						
1600	Camaran	79	·	`&-	ŧ	CAR	\$	\$	«Yanga Sir						
1700	·	80	<u>. </u>	Ð	Ö	CAIZ	Û	Ð							
1800	·	78		\$	Þ	CHIZ	82_	6	« maranes						

A BP affiliated company

ARCO Facility No. 610

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):

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	P. 10s/	
On-site Time: OH EO	Temp:	
Off-site Time: 1700	Temp:	
Sky Conditions:		
Meteorological Events:		
Wind Speed:	Direction:	

Lad 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) Provision	Tele/Fax: (530) 676-6000 / (530) 676-6005					
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 01-Assessment						
San Ramon, CA	Sub Phase/Task: 03-Analytical	Report Type & QC Level: Level 1 with EDF E-mail EDD To: shayes@stratusinc.net					
Tele/Fax: 925-299-8891/925-299-8872	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.					
Lab Bottle Order No: Matrix	Preservative Requested Analysis	Turnaround Time					
Item Date Description Time Note Nater/Liquid Water/Liquid	MONO OF Containers Taporatory No. Of Containers HOI Methanol MIBB	Sample Point Lat/Long and Comments					
1 1/132 A EFI- OBUR 1134 1	0 2 1 1 1 1 1 1 1 1	A S					
1 1/132 A EFI- OBUN 1134 1. 2 1/132 A INFSYS 0005 1134 Q							
1117217 DV DV DV DV	02 2 1 1 1 1 1 1						
3 11132 A SYSINE 1305 X	03 Z XXX	X REVISED					
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6							
7							
<u>B</u>							
9							
10							
Sampler's Name: Charles Hill	Date Time						
Sampler's Company: Stratus Environmental, Inc.	120 1/10 Glader 1200 1500	Accepted By / Affiliation Bate Time					
Shipment Date: 1/260)	11-260 1620	11-250 (1508)					
Shipment Method:	1130 1000	1/20/11/ 1620					
Shipment Tracking No:							
Special Instructions: Please or results to bp	edf@broadbentinc.com						
Custody Seals in Place: Yes No. Temp Blank: Yes	es / No) Cooler Temp on Receipt; / °F/C Trip Blank: Ye	MS/MSD Sample Submitted: Yes (No)					

BP COC Rev. 5 10/11/1006

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03/03

Chain of Custody Record

REVISED

On-site Time: 0700

Company BP BU/AR Region/Enfos	RCO Facility No. and 1113 Z	On-site Time: 0400 Temp:
Company BP BU/AR Region/Enfos	Segment: BP > Americas > West > Retail > Alameda	Off-site Time: Temp:
State or Lead Regulatory	Agency: Regional Water Quality Control Board	Sky Conditions:
	equested Due Date (mm/dd/yy): STO THE	Meteorological Events:
	31V M	Wind Speed: Direction:
Lab Name: TestAmerica	BP/AR Facility No.: 11132	
Address: 885 Jarvis Drive	BP/AR Facility Address: 3201 35th Avenue, Oakland, CA	Consultant/Contractor: Stratus Environmental, Inc.
Morgan Hill, CA 95937	Site Lat/Long:	Address: 3330 Cameron Park Drive, Suite 550
Lab PM: Lisa Race	California Global ID No.: T0600100213	Cameron Park, CA 95682
Tele/Fax: 408-782-8156/ 408-782-6308	Enfos Project No.: G07TS-0038	Consultant/Contractor Project No.: E6106-01
BP/AR PM Contact: Paul Supple	Provision or OOC (circle one) Provision	Consultant/Contractor PM: Jay Johnson
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 01-Assessment	Tele/Fax: (530) 676-6000 / (530) 676-6005
San Ramon, CA	Sub Phase/Task: 03-Analytical	Report Type & QC Level: Level 1 with EDF
Tele/Fax: 925-299-8891/925-299-8872 Lab Bottle Order No: Matrix	Cost Element: Subcontractor Cost	E-mail EDD To: shayes@stratusinc.net Invoice to: Atlantic Richfield Co.
Matrix	Preservative Requested Analysis	Turnaround Time
Soil/Sc Watcr/	Taporatory No. of Containers HOI Methanol Methanol Mathanol Mathanol Mathanol Mathanol Mathanol Mathanol Mathanol Mathanol Mathanol	Sample Point Lat/Long and Comments
1 1113 C H 242 INF 11835 1138 1184 1	01 2 2	
2		夕 S Oxygenates = MTBE, DIPE
2 3 11137 A SYS [WF 10805 1127 2 X C 4 11137 A SYS IWF 1320 W37 X X	N2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TBA, ETBE, and TAME
1 111 27 4 845 7415 1122 1127		
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2	X I
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10		
ampler's Name: Chr. 5 Hill ampler's Company: Stratus Environmental, Inc.	Relinquished By / Affiliation Date Time	The second Park 1977 of
hipment Date: 11-27.6)	State 5 11200 1530	Accepted By / Affiliation Date Time
hipment Method:	11-11-11 1720	11 77 77 11 13 11 13 11 11 13 11 11 13 11 11
hipment Tracking No:		11/276/1720
pecial Instructions: Please co results to bped	601 15	
	ngoroadpenting.com •	
Custody Seals In Place: Yes / No / Temp Blank: Yes /	(No) Cooler Temp on Receipt: / °F/C Trip Blank: Ver	
	(No) Cooler Temp on Receipt: / °F/C Trip Blank: Yes	s/Md/ MS/MSD Sample Submitted: Yes/(No

A 8P affiliated company

Lab Name: TestAmerica

Chain of Custody Record

Project Name:

ARCO Facility No. 6106

BP/AR Facility No.:

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda

State or Lead Regulatory Agency:

Regional Water Quality Control Board

11132

Requested Due Date (mm/dd/yy):

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T	Тетр:	
グ	Temp:	

Stratus Environmental, Inc.

Page Ver /of

Wind Speed:	Direction:
Meteorological Events:	
Sky Canditions:	
Off-site Time: 1700	Temp:
On-site Time: 0460	Temp:

Consultant/Contractor:

Address: 883 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.: E5106-01						
Tele/Fax: 408-782-8156/408-782-6308	Enfos Project No.: G07TS-0038	Consultant/Contractor PM: Jay Johnson						
BP/AR PM Contact: Pani Supple	Provision of 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 Ramoo, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: shayes@stratusinc.net						
Tele/Fax: 925-299-8891/925-299-8872	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.						
Lab Bottle Order No: Matrix	Preservative Requested Analysis	Turwaround Time						
Sample Description Time Date Description Autentifying	Monof Containers Unpreserved HASO4 HASO4 HOO, HCI NAP Methanol STEX S-Onyganates	Sample Point Lat/Long and Consments						
1 11132WINE 080 18 X	015 X X X X X X X X X	5 Oxygenates = MTBE, DIPE						
1 11132WINE 080 168 X 2 11132WINE 300 164 X	025 X XXX	TBA, ETBE, and TAME						
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4								
5								
6								
7								
8								
9								
10								
ampler's Name: Chris Hill	Bylingsisted By / Attaination Date Time	/ Accepted By / Affiliation Date Time						
ampler's Company: Stratus Environmental, Inc.	120 1900 1200 1900	A CO (TAMI) BOOM 1500						
hipment Date: 11-26.07	72-7 1620	11/260 1670						
hipment Method:	73							
hipment Tracking No:								
pecial Instructions: Please or results to be	edf@broadbentinc.com							
Custody Seals In Place: Yes / 100, Temp Blank: Ye	28 (No) Cooler Temp on Receipt: 2-% °F/C Trip Blank: Yo	s /(No.)) MS/MSD Sample Submitted: Yes / No.)						
	The state of the s	AND REPORT OF THE PROPERTY OF						

A 8P affiliated company

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Project Name: ARC

ARCO Facility No. 2005 11137_

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

BP > Americas > West > Retail > Alameda Regional Water Quality Control Board

Requested Due Date (mm/dd/yy):

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	Pageof	
On-site Time: 0400	Temp:	
Off-site Time:	Temp:	
Sky Conditions;		
Meteorological Events:		
Wind Speed:	Direction:	

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Lab Name: TestAmerica						BP/AR Facility	hr					.,		<u> </u>			***************************************						
Address: 885 Jarvis Drive											Cons	ultant/C	ontractor:	:	Stratus Environm	ental Inc.							
Morgan Hill, CA 95937						Site Lat/Long:	M.00	IC33: 3	201 3	5th /	Avenu	c, Oak	land, (A			Addr	\$581	3330 Ca		on Park Drive, S		
Lab PM; Lisa Race											<u> </u>								Cameron	n Par	k, CA 95682		
Tele/Fex: 408-782-8156/408-782	-6308					California Globs Enfos Project No		No.:			10021			•			Const	ultant/C			No.: E6106-01		
BP/AR PM Contact: Paul Supple											-0038		*				Const	ultant/C	onbactor Fb	M: Ja	y Johnson		
Address: 2010 Crow Canyon Place,	Suite 150					Provision or OO	<u>C</u> (c				Provisi	ion.					Tole/				00 / (530) 676-	6005	
San Ramon, CA	Oute 134				—	Phase/WBS:			Assess		Ē		_				Repor	t Type.	& QC Level			1 with EDF	
Tele/Fax: 925-299-8891/925-299-:	8872					Sub Phase/Task:		-	Analyt												en.peisujette	s wha east	
Lah Bottle Order No:			ī	Matri		Cost Element:		Sub	contra								Invoic	c to: A	tiantic Rich	field	Co.	<u>L</u>	
	7		╬╗	(Madr)	^			1	<u>, l</u>	rese	rvati	ve:		Requ	uested Ans	ilysis			cround Tim				
Item Sample Description	Time	Date	Soil/Solid	Water Liquid Air		Laberatory No.	Ę,	Unpreserved	1980r		HC WAS	Methanol		GRO	BTEX 5-Oxygenates			24-hours Standard			Sample Poin Con	t Lat/Lûng iments	; aod
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ipment Date: // 27.07	mmental, I	nc.				MINNE		5/2	براب	-7		-			11570	7			ccepted By /		ation	Pate	
pment Method:						House	2								1720		-214		<u> (TAV</u>	<u>1H)</u>	, , , , , , , , , , , , , , , , , , ,	1/27/07	1520
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Custody Seals In Place:	res /No	T-		t. • •		(1)									· · · · · · · · · · · · · · · · · · ·]
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Chain of Custody Record

Project Name: ARCO Facility No. 406 11634

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):

3t0 7197

On-site Time: 0500	Телърг
Off-site Time: 1900	Тетр:
Sky Conditions:	
Meteorological Events:	-

Direction:

BF COC Rev. 5 10/11/2006

Wind Speed:

Lab Name: LestAmerica	HPTAK FREILITY NO.: 11(32	Commission Conjugation . Company Environmentally, the
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
ab PM: Lisa Race	California Global ID No.: T0609100213	Consultant/Contractor Project No.: E6106-01
Tele/Fax: 408-782-8156/ 408-782-6308	Enfos Project No.: G07TS-0032	Consultant/Contractor FM: Jay Johnson
BP/AR PM Contact: Paul Suppls	Pravision or OOC (circle one) Pravision	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-Auslytical	E-mail EDD To: shayes@stratusinc.net
Cele/Fax: 925-299-8891/925-299-8872	Cost Element: Subcontractor Cost	Javoice so: Atlantic Richfield Co.
ab Bottle Order No: Matrix	Preservative Requested Analysis	Turnaround Tiese
No. Sample Description Time SolivSolid Air	Unpreserved Hyso, HOS Wethanol Methanol MTBE	Sample Point Lat/Long and Comments
1 11/32/9343IN/ 1800 133 X	OI Z XXX	X
11) 77 A CUE TUE PROTEST 28	02 2 4 4 4	
3 11/32 A SYS JUF 0805 1395 X		
3 11(32ASYSINF 0805 1339 X 4 11132ASYSINF 1300 1358 X	193 Z Xメト Xメト 1 Xメト 1 1 1 1 1 1 1 1 1	<u> </u>
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ampler's Name: ChAG HII	Religips and By / Affiliation Date Time	Accepted By / Affiliation Data Time
ampler's Company: Stratus Environmental, Inc.		Most TAMIN WAST 1540
thipment Date: 11 Z 8 0 /	11-280 1725	11/28 1725
hipment Method:	, a	
hipment Tracking No:		<u></u>
occial Instructions: Please co results to b	pedi@broadbestinc.com	
California National Control of the C	Color Project Color Color	(-10) 1 MOMEON Committee Coloniand Str. Ale
Custody Seals In Place: Yes AND Temp Blank; Y	es No Cooler Temp on Receipt: / F/C Trip Blank: Y	es / No / MS/MSD Sample Submitted: Yes (No)

Chain of Custody Record

	•	
Project Name:	ARCO Facility No. 1006	1113

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda

Pageof	
Темр:	
Тетр:	

On-site Time: 0500 Off-site Time: 1900

Sky Conditions:

#	Atta	State	or Les	ia K	.egui	•	y Agency:	_		al Wate	~~~~	ality	Cont	trol B	oard				Mete	orolo	gical F	Events:					
3	A BP affiliated company					Þ	Requested Due D.	ate ((mmo/	dd/yy)	z								Wind	Spec	ođ:			Dir	rection;		
																											
	Name: TestAmerica						BP/AR Facility N			11132	-								Cons	ultant	t/Contr			ıs Environ			
	dress: 885 Jarvis Drive						BP/AR Facility A	iddre	±sg: 32	.01 35 0	i Ave	nue, (<u>Oaklar</u>	nd, C/	4				Addr	ess:	3:	330 Came	eron Pa	rk Drive	, Suite	550	
	rgan Hill, CA 95937						Site Lat/Long:														C	Sameron P	Park, CA	1.95682			
	PM: Lisa Race						Catifornia Global ID No.: T0609100213 Consultant/Contractor Pro						ractor Proj	ject No.: E6106-01													
	e/Fax: 408-782-8156/408-782-630	08					Enfos Project No	L:		G077	YS-00.	138							Cons	ultant	/Contr	ractor PM:	: Jay Joh	ason			***************************************
	AR PM Contact: Paul Supple						Provision or OOC	<u>C (ci</u>	ircle o	nc)	Pro	vistot	a						Tele/i	Pax:	(3	530) 676-	-6000 / ((530) 67	6-600.	<i>j</i>	
Addr	iress: 2010 Crow Canyon Place, Sui	áte 150					Phase/WBS:		OI-A	usecseme	ent					.,			Repo	rt Tyr		C Level:			rel I wit		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<u> </u>	San Ramon, CA						Sub Phase/Task:		03-A	nalytica	al			***************************************				-			D Ta:		es@str:	atusinc.r			
	Fex. 925-299-8891/925-299-887.	/2					Cost Blament:		Suhe	apotzacko	л Сол	9ł										ntic Richfie					
Lab :	Boffle Order No:				Mat	(trix				Pro	eserv:	stire	1	B	lequ	exted	Analysis	-	77			ond Time					
Item No.	Sample Description	Time	Date			Air	MQKOB(E	1 2	neserved	H ₂ SO,	HNO	_	Methanol		GKO	genates				24-hours	Scandard		s	iample Po C	oint La Comme	~	; end
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MS/MSD Sample Submitted: Yes / No

A BP affiliated company



Chain of Custody Record

Project Name:

ARCO Facility No. see 1113 Z

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: 0500	Temp:
Off-site Time: 1900	Temp:
Sky Conditions:	
Meteorological Events:	•
Wind Speed:	Direction:

th Nome: TestAmerica	BP/AR Facility No.: 11132	Consultant/Contractor: Stratus Environmental, Inc.				
ddress: 885 Jarvis Drive	BP/AR Facility Address: 3201 35th Avenue, Oakland, CA	Address: 3330 Cameron Park Drive, Suite 550				
lorgan Hill, CA 95937	Site Lat/Long:	Cameron Park, CA 95682				
ib PM: Lisa Race	California Global ID No.: T0600100213	Consultant/Contractor Project No.: E6106-01				
de/Fax: 408-782-8156/ 408-782-6308	Eufas Project No.: G07TS-003\$	Consultant/Contractor PM: Jay Johnson				
P/AR PM Contact; Paul Supple	Provision or OOC (circle one) Provision	Tele/Fax: (530) 676-6000 / (530) 676-6005				
Idress: 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: shayes@stratusinc.net				
ele/Fax: 925-299-8891/925-299-8872	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.				
ab Bottle Order No: Matrix	Preservative Requested Analysis	Turnaround Time				
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A Please cc results to bpe	pedf@broadbentinc.com					
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Custody Seals In Place: Yes (No) Temp Blank: Yes	es / No Cooler Temp on Receipt: — °F/C Trip Blank: Ye	s/No MS/MSD Sample Submitted: Yes/No				

A BP affiliated company

Chain of Custody Record

Project Name:

ARCO Facility No.

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 Tim	5:	Temp:
Off-site Time	t	Тетр:
Sky Condition		
Meteorologica	LEvents:	
Wind Speed:		Direction:

200 Control Co	BPVAR Faculty 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	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: Faul 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 ED	DF			
San Ramon, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: shayes@stratusinc.net				
Tele/Fax: 925-299-8891/925-299-8877	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.				
Lab Bottle Order No: Matrix	Preservative Requested Analysis	Turnaround Time				
No. Soil/Soil/Soil/Soil/Soil/Soil/Soil/Soil/	No. of Containers Unpreserved H ₂ SO ₄ HCl Methanol BIEX 5-Oxygenates	Sample Point Lat/Long Comments	ig and			
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ampler's Name: Chris Hill						
ampler's Company: Stratus Environmental, Inc.	Aghinguished By / Affiliation Date Time	Accepted By / Affillation Date				
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hipment Method: OU Sty	Shift 1500	Col Markon ? 11-3;	1154			
hipment Tracking No:	- a worm	190	71/234			
ecial Instructions: Please cc results to bpe	edf@broadbentinc.com	1				
Custody Seals In Place: Yes / No. Temp Blank: Ye		s / 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.





Project: BP Heritage #11132, Oakland, CA

MQK0719 Reported: 11/28/07 13:44

Project Number: G07TS-0038
Project Manager: Jay Johnson

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.





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		Dilution	Batch	Prepared	Analyzed	Method	Note
11132AEFF (MQK0719-01) Vapor	Sampled: 11/26/0'	7 08:00 R	eceived: 11/26	/07 16::	20				
Gasoline Range Organics (C4-C12)	ND	50	mg/m³ 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	11	н	п	н	н	
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) Vapo	r Sampled: 11/2	6/07 08:05	Received: 11	/26/07	16:20				
Gasoline Range Organics (C4-C12)	3500	50	mg/m³ 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		"	"	"	n	
Surrogate: Dibromofluoromethane		96 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		94 %	75-120		"	"	"	"	
Gasoline Range Organics (C4-C12)	1000	14	ppmv	н	u	11	11	II.	
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	r Sampled: 11/2	6/07 13:05	Received: 11	/26/07 :	16:20				
Gasoline Range Organics (C4-C12)	1100	50	mg/m³ Air	1	7K27008	11/27/07	11/27/07 19:26	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		115 %	60-150		"	"	"	и ·	
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	11	и	11	ti-	н	
Surrogate: 1,2-Dichloroethane-d4		115 %	60-150		"	"	"	n .	
Surrogate: 4-Bromofluorobenzene		87 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		91 %	75-120		"	"	"	"	
T									

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.



MQK0719



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

Project: BP Heritage #11132, Oakland, CA

Project Number: G07TS-0038 Reported:
Project Manager: Jay Johnson 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	Datah	Dramana J	A male 1	N (1 - 1	
11132AEFF (MQK0719-01) Vapor	Sampled: 11/26/07				Batch	Prepared	Analyzed	Method	Not
Methyl tert-butyl ether									
•	ND		mg/m³ Air	I	7K27008	11/27/07	11/27/07 15:49	EPA 8260B	
Benzene	ND	0.50	н	н	11	ıı	17	н	
Toluene	ND	0.50	u	*1	"	"	н	11	
Ethylbenzene	ND	0.50	н		**	11	11	H	
Xylenes (total)	ND	0.50	II .	II	н	11	н	11	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-15	0	"	"	n .	"	
Surrogate: 4-Bromofluorobenzene		83 %	55-13	0	"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	75-13	0	"	"	"	n .	
Surrogate: Toluene-d8		88 %	75-12	0	"	"	"	n	
Benzene	ND	0.16	ppmv	u	11	11	н	11	
Ethylbenzene	ND	0.12	н	19	11	11	"	н	
Methyl tert-butyl ether	ND	0.14	u	**	н	n .	н	11	
Toluene	ND	0.13	н	11	11	11	11	11	
Xylenes (total)	ND	0.12	11	Hr.	17	II .	н	10	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-150)	n	"	"	"	
G		83 %	55-130	า	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		03 %	33-130	,					
Surrogate: 4-Bromofluorobenzene Surrogate: Dibromofluoromethane		95 %	75-130		"	"	"	"	
-)	"	"	"	"	
Surrogate: Dibromofluoromethane	or Sampled: 11/26.	95 % 88 %	75-130 75-120))	"				
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8	or Sampled: 11/26.	95 % 88 % /07 08:05	75-130 75-120))	"		11/27/07		V 1 14 M
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether	4.4	95 % 88 % /07 08:05 0.50	75-130 75-120 Received: 1)) 1/26/07	16:20	"	"	"	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo	4.4 7.5	95 % 88 % /07 08:05 0.50	75-130 75-120 Received: 1 mg/m³ Air) 1 /26/07 1	" 16:20 7K27008	11/27/07	11/27/07 18:55	EPA 8260B	W788 M
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene Foluene	4.4 7.5 31	95 % 88 % /07 08:05 0.50 0.50	75-130 75-120 Received: 1 mg/m³ Air)) 1/26/07 1	7K27008	11/27/07	11/27/07 18:55	EPA 8260B	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene	4.4 7.5	95 % 88 % /07 08:05 0.50	75-130 75-120 Received: 1 mg/m³ Air)) 1/26/07 1	" 7K27008	11/27/07	11/27/07 18:55	EPA 8260B	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene Foluene Ethylbenzene	4.4 7.5 31 33	95 % 88 % /07 08:05 0.50 0.50 0.50 0.50	75-130 75-120 Received: 1 mg/m³ Air	1/26/07	7K27008	11/27/07	11/27/07 18:55	EPA 8260B	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene Foluene Ethylbenzene Kylenes (total) Surrogate: 1,2-Dichloroethane-d4	4.4 7.5 31 33	95 % 88 % /07 08:05 0.50 0.50 0.50 0.50 0.50	75-130 75-120 Received: 1 mg/m³ Air	1/26/07	7K27008	" " " " "	11/27/07 18:55	"EPA 8260B	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene Foluene Ethylbenzene Xylenes (total) Surrogate: 1,2-Dichloroethane-d4 Surrogate: 4-Bromofluorobenzene	4.4 7.5 31 33	95 % 88 % /07 08:05 0.50 0.50 0.50 0.50 0.50 107 % 100 %	75-130 75-120 Received: 1 mg/m³ Air	1/26/07	7K27008	11/27/07	11/27/07 18:55 "	EPA 8260B	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene Foluene Ethylbenzene Xylenes (total) Surrogate: 1,2-Dichloroethane-d4 Surrogate: 4-Bromofluorobenzene Surrogate: Dibromofluoromethane	4.4 7.5 31 33	95 % 88 % /07 08:05 0.50 0.50 0.50 0.50 0.50 107 % 100 % 96 %	75-130 75-120 Received: 1 mg/m³ Air " " 60-150 55-130 75-130	1/26/07	7K27008	11/27/07	11/27/07 18:55 "	EPA 8260B	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene Foluene Ethylbenzene Kylenes (total) Surrogate: 1,2-Dichloroethane-d4 Surrogate: 4-Bromofluorobenzene Surrogate: Dibromofluoromethane Surrogate: Toluene-d8	4.4 7.5 31 33 130	95 % 88 % /07 08:05 0.50 0.50 0.50 0.50 0.50 0.50 96 % 94 %	75-130 75-120 Received: 1 mg/m³ Air " " " 60-150 55-130 75-130	1/26/07	7K27008	" " " " " " " " " " " " " " " " " " " "	11/27/07 18:55 "" "" "" "" ""	"EPA 8260B	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene Foluene Ethylbenzene Kylenes (total) Surrogate: 1,2-Dichloroethane-d4 Surrogate: 4-Bromofluorobenzene Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 Benzene	4.4 7.5 31 33 130	95 % 88 % /07 08:05 0.50 0.50 0.50 0.50 0.50 0.60 96 % 94 % 0.16	75-130 75-120 Received: 1 mg/m³ Air " " 60-150 55-130 75-130	1/26/07	"" 16:20 7K27008 "" "" "" "" "" ""	" " " " " " " " " " " " " " " " " " " "	11/27/07 18:55 " " " " "	EPA 8260B	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene Foluene Ethylbenzene Kylenes (total) Surrogate: 1,2-Dichloroethane-d4 Surrogate: 4-Bromofluorobenzene Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 Benzene Ethylbenzene	4.4 7.5 31 33 130	95 % 88 % /07 08:05 0.50 0.50 0.50 0.50 0.50 0.60 0.60 0.	75-130 75-120 Received: 1 mg/m³ Air " " 60-150 55-130 75-130 ppmv	1/26/07	7K27008	" " " " " " " " " " " " " " " " " " " "	11/27/07 18:55 "" "" "" "" ""	"EPA 8260B	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene Foluene Ethylbenzene Kylenes (total) Surrogate: 1,2-Dichloroethane-d4 Surrogate: 4-Bromofluorobenzene Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 Benzene	4.4 7.5 31 33 130	95 % 88 % /07 08:05 0.50 0.50 0.50 0.50 0.50 0.60 0.107 % 96 % 94 % 0.16 0.12 0.14	75-130 75-120 Received: 1 mg/m³ Air " " 60-150 55-130 75-120 ppmv	1/26/07	"" 16:20 7K27008 "" "" "" "" "" "" "" "" ""	" " " " " " " " "	11/27/07 18:55 "" "" "" "" ""	"EPA 8260B	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene Foluene Ethylbenzene Xylenes (total) Surrogate: 1,2-Dichloroethane-d4 Surrogate: 4-Bromofluorobenzene Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 Benzene Ethylbenzene Methyl tert-butyl ether	4.4 7.5 31 33 130	95 % 88 % /07 08:05 0.50 0.50 0.50 0.50 0.50 0.60 0.60 0.	75-136 75-126 Received: 1 mg/m³ Air " " " " " " " " " " " " " " " " " " "	1/26/07	7K27008 " " " " " " " " " "	" " " " " " " " " "	" 11/27/07 18:55 " " " " " " " "	"" "" "" "" "" "" "" "" "" "" "" "" ""	
Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 11132AINFSYS (MQK0719-02) Vapo Methyl tert-butyl ether Benzene Toluene Ethylbenzene Xylenes (total) Surrogate: 1,2-Dichloroethane-d4 Surrogate: 4-Bromofluorobenzene Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 Benzene Ethylbenzene Methyl tert-butyl ether Toluene	4.4 7.5 31 33 130 2.4 7.6 1.2 8.3	95 % 88 % /07 08:05 0.50 0.50 0.50 0.50 0.50 0.107 % 96 % 94 % 0.16 0.12 0.14 0.13	75-136 75-126 Received: 1 mg/m³ Air " " " " " " " " " " " " " " " " " "	1/26/07	7K27008 " " " " " " " " "	"""""""""""""""""""""""""""""""""""""""	" 11/27/07 18:55 " " " " " " " " "	" " " " " " " " " " " " "	

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.





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	Note
11132AINFSYS (MQK0719-02) Vapor	Sampled: 11/26	/07 08:05	Received:	11/26/07	16:20				
Surrogate: Dibromofluoromethane		96 %	75-1	30	7K27008	11/27/07	11/27/07 18:55	EPA 8260B	33 VS V V V V V V V V V V V V V V V V V
Surrogate: Toluene-d8		94 %	75-1.	20	"	"	"	"	
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/m³ Air	1	7K27008	11/27/07	11/27/07 19:26	EPA 8260B	
Benzene	4.7	0.50	11	н	н	11	н	Н	
Toluene	5.2	0.50	н	0	11	н	0	n	
Ethylbenzene	8.0	0.50	11	н	н	11	н	U	
Xylenes (total)	15	0.50	"	11		н	11	U	
Surrogate: 1,2-Dichloroethane-d4		115 %	60-13	50	"	"	"	,,	
Surrogate: 4-Bromofluorobenzene		87 %	55-1.	30	"	"	n	"	
Surrogate: Dibromofluoromethane		97%	75-13	30	"	"	"	"	
Surrogate: Toluene-d8		91%	75-12	20	"	"	"	"	
Benzene	1.5	0.16	ppmv	11	11	н	11	н	
Ethylbenzene	1.9	0.12	11	н	н	**	11	n	
Methyl tert-butyl ether	1.0	0.14	н	II.		н	11	n .	
Toluene	1.4	0.13	u u	II .	н	11	11	n	
Xylenes (total)	3.4	0.12	tI		11	H	n	u	
Surrogate: 1,2-Dichloroethane-d4		115 %	60-15	50	"	n	"	"	*********
Surrogate: 4-Bromofluorobenzene		87 %	55-13	80	"	"	"	"	
Surrogate: Dibromofluoromethane		97%	75-13	80	"	"	n	"	
Surrogate: Toluene-d8		91 %	75-12	_	"	"	"	"	





Project: BP Heritage #11132, Oakland, CA

Spike

Source

%REC

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0719 Reported: 11/28/07 13:44

RPD

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

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K27008 - EPA 5030B P/T	/ LUFT GCMS									
Blank (7K27008-BLK1)				Prepared a	& Analyze	d: 11/27/	07			
Gasoline Range Organics (C4-C12)	ND	14	ppmv	1				, , , , , , , , , , , , , , , , , , ,		
Gasoline Range Organics (C4-C12)	ND	50	mg/m³ Air							
Surrogate: 1,2-Dichloroethane-d4	0.622		ррти	0.594		105	60-150			
Surrogate: 1,2-Dichloroethane-d4	2.62		mg/m³ Air	2.50		105	60-150			
Surrogate: 4-Bromofluorobenzene	0.302		ррти	0.349		86	55-130			
Surrogate: 4-Bromofluorobenzene	2.16		mg/m³ 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/m³ Air	2.50		91	75-120			
Laboratory Control Sample (7K27008	8-BS2)			Prepared &	& Analyze	d: 11/27/	07			
Gasoline Range Organics (C4-C12)	132	14	ppmv	142		93	55-130			
Gasoline Range Organics (C4-C12)	465	50	mg/m³ 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/m³ Air	2.50		91	55-130			
Surrogate: Dibromofluoromethane	0.294		ppmv	0.318		92	75-130			
Surrogate: Dibromofluoromethane	2.31		mg/m³ Air	2.50		92	75-130			
Surrogate: Toluene-d8	0.638		ppmv	0.665		96	75-120			
Surrogate: Toluene-d8	2.40		mg/m³ Air	2.50		96	75-120			
Laboratory Control Sample Dup (7K2	27008-BSD2)			Prepared &	. Analyzec	i: 11/27/0)7			
Gasoline Range Organics (C4-C12)	132	14	ppmv	142		93	55-130	0.07	20	
Gasoline Range Organics (C4-C12)	465	50	mg/m³ 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/m³ 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/m³ Air	2.50		92	75-130			
Surrogate: Toluene-d8	0.627		ppmv	0.665		94	75-120			
Surrogate: Toluene-d8	2.36		mg/m³ Air	2.50		94	75-120			





Project: BP Heritage #11132, Oakland, CA

Spike

Source

%REC

MQK0719 Reported: 11/28/07 13:44

RPD

Project Number: G07TS-0038
Project Manager: Jay Johnson

Reporting

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

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K27008 - EPA 5030B P/T	/ EPA 8260B									
Blank (7K27008-BLK1)				Prepared	& Analyze	d: 11/27/	07			
Methyl tert-butyl ether	ND	0.50	mg/m³ Air							
Benzene	ND	0.16	ppmv							
Benzene	ND	0.50	mg/m³ Air							
Toluene	ND	0.50	11							
Ethylbenzene	ND	0.50	**							
Xylenes (total)	ND	0.50	11							
Ethylbenzene	ND	0.12	ppmv							
Methyl tert-butyl ether	ND	0.14	11							
Toluene	ND	0.13	н							
Xylenes (total)	ND	0.12	11							
Surrogate: 1,2-Dichloroethane-d4	2.62		mg/m³ Air	2.50		105	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.622		рртч	0.594		105	60-150			
Surrogate: 4-Bromofluorobenzene	2.16		mg/m³ Air	2.50		86	55-130			
Surrogate: 4-Bromofluorobenzene	0.302		ppmv	0.349		86	55-130			
Surrogate: Dibromofluoromethane	2.31		mg/m³ Air	2.50		92	75-130			
Surrogate: Dibromofluoromethane	0.294		ppmv	0.318		92	75-130			
Surrogate: Toluene-d8	2.27		mg/m³ Air	2.50		91	75-120			
Surrogate: Toluene-d8	0.604		ppmv	0.665		91	75-120			
Laboratory Control Sample (7K27008	B-BS1)			Prepared &	& Analyze	d: 11/27/0)7			
Methyl tert-butyl ether	9.46	0.50	mg/m³ Air	10.0		95	80-130			
Benzene	3.01	0.16	ppmv	3.14		96	75-120			
Benzene	9.61	0.50	mg/m³ Air	10.0		96	75-120			
Toluene	9.58	0.50	н	10.0		96	80-120			
Ethylbenzene	10.0	0.50	11	10.0		100	80-125			
Xylenes (total)	29.7	0.50	11	30.0		99	80-125			
Ethylbenzene	2.32	0.12	ppmv	2.31		100	80-125			
Methyl tert-butyl ether	2.63	0.14	11	2.78		95	80-130			
l'oluene	2.55	0.13	u u	2.66		96	80-120			
Xylenes (total)	6.85	0.12	Ħ	6.92		99	80-125			
Surrogate: 1,2-Dichloroethane-d4	2.51		mg/m³ Air	2.50		100	60-150		***************************************	
Surrogate: 1,2-Dichloroethane-d4	0.596		ppmv	0.594		100	60-150			
Surrogate: 4-Bromofluorobenzene	2.30		mg/m³ Air	2.50		92	55-130			
Surrogate: 4-Bromofluorobenzene	0.321		ррту	0.349		92	55-130			
Surrogate: Dibromofluoromethane	2.30		mg/m³ Air	2.50		92	75-130			
Surrogate: Dibromofluoromethane	0.293		ррти	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.





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

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

Batch	/K2/008 -	- EPA 5030B P/I	/ EPA 8260B

Laboratory Control Sample (7K27008		Prepared & Ar	nalyzed: 11/27/	′07				
Surrogate: Toluene-d8	2.36	mg/m³ Air	2.50	94	75-120			
Surrogate: Toluene-d8	0.627	ppmv	0.665	94	75-120			
Laboratory Control Sample Dup (7K2	7008-BSD1)		Prepared & An	nalyzed: 11/27/	07			
Methyl tert-butyl ether	9.65	0.50 mg/m³ 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/m³ 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/m³ 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/m³ Air	2.50	91	55-130			
Surrogate: 4-Bromofluorobenzene	0.319	ppmv	0.349	91	55-130			
Surrogate: Dibromofluoromethane	2.35	mg/m³ Air	2.50	94	75-130			
Surrogate: Dibromofluoromethane	0.299	ppmv	0.318	94	75-130			
Surrogate: Toluene-d8	2.34	mg/m³ Air	2.50	94	75-120			
Surrogate: Toluene-d8	0.622	ppmv	0.665	94	75-120			





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

Atlande,	
Richfield	d
Company	1

ABP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 6H
BP BU/AR Region/Enfos Segment: BI

BP - Americas > West > Retail > Alameda

State or Lead Regulatory Agency:

Regional Water Quality Control Board

Requested Due Date (mm/ald/yy):

34 HA ON EER SHO ON ON OTHER

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On-site Time: OH EO	Temp:	~
Off-site Time: 1700	Temp:	
Sky Conditions:		
Meteorological Events:		
Wind Speed:	Direction:	

ab Name: TestAmerica	BP/AR Facility No.: 11132				
ddress: 885 Jarvis Drive	BP/AR Facility Address: 3201 35th Avenue, Oakland, CA	Consultant/Contractor: Stratus Environmental, Inc.			
forgan Hill, CA 95937	Site Lat/Long:	Address: 3330 Cameron Park Drive, Suite 550			
ab PM: Lisa Race	California Global ID No.: T0600100213	Cameron Park, CA 95682			
ele/Fax: 408-782-8156/408-782-6308	Enfos Project No.: G07TS-0038	Consultant/Contractor Project No.: E6106-01			
P/AR PM Contact: Paul Supple		Consultant/Contractor PM: Jay Johnson			
ddress: 2010 Crow Canyoo Place, Suite 150		Tele/Fax: (530) 676-6000 / (530) 676-6005			
San Ramon, CA		Report Type & QC Level: Level 1 with EDF			
ele/Fax: 925-299-8891/925-299-8872		E-mail EDD To: shayes@stratusinc.net			
ab Bottle Order No: Matrix		Invoice to: Atlantic Richfield Co.			
Date Date Date Mater/Liquid	Preservative Requested Analysis MQ Morphano HO HO Mathano HO HO Mathano HO HO HO HO HO HO HO H	Sample Point Lat/Long and Comments			
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•	ppedf@broadbentinc.com				
Custody Seals in Place: Yes (Nd. Temp Blank:		es /Old MS/MSD Sample Submitted: Yes /(No)			

Atlantic Richfield	
Diahfiald	
Nicimela	1
	-
Company]

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):

On-site Time: OH ©O	Temp:	
Off-site Time: 700	Temp:	
Sky Conditions:		
Meteorological Events:		
Wind Speed:	Direction:	

Y ab	Name: TestAmerica										TV.	en	0	14	029				******				***************************************			
	ress: 885 Jarvis Drive					BP/AR Facility N			11132								_	Con	sultan	t/Cont	ractor:		Stratus Envir	onment	al, Inc.	
	gan Hill, CA 95937					BP/AR Facility Address: 3201 35th Avenue, Oakland, CA							_	Address: 3330 Cameron Park Drive, Suite 550												
	PM: Lisa Race	· · · · · · · · · · · · · · · · · · ·		***************************************		Site Lat/Long:			······														rk, CA 9568			
	FIVI. LISA RACE /Fax: 408-782-8156/408-782-630					California Global	~~~~	Vo.:		01002													t No.: E6106	-01		
		18				Enfos Project No.				rs-003	8							Cons	sultan	t/Cont	ractor P	M: Ja	ay Johnson			
1	AR PM Contact: Paul Supple					Provision or OOC	(ci	rcle one	<u>;) </u>	Prov	ision							Tele	Fax:	(530) 6	76-60	000 / (530) 6	576-600)5	
Addı	ress: 2010 Crow Canyon Place, Suit	te 150				Phase/WBS:		01-As	sessme	ent								Repo	ort Ty		QC Lev			evel I w		***************************************
~ .	San Ramon, CA		······			Sub Phase/Task:		03-An										E-ma	ail EL	DD To:	sha	ayes(@stratusin	c.net	***************************************	·
	/Fax: 925-299-8891/925-299-8872	2				Cost Element:		Subco							*************						ntic Ric					***************************************
Lab	Bottle Order No:			M	atrix				Pre	eserva	tive		Rec	Requested Analysis					Tu	ırnaro	und Ti	me			<u> </u>	***************************************
Item No.	Sample Description	Time	Date	Soil/Solid Water/Liquid	Air	MQK0719 Laboratory No.	No. of Containers	Unpreserved	H ₂ SO ₄	HNO3	HCI	Methanol	GRO	BTEX	MTBE				24-hours	Standard			Sample	Point L Commo	at/Long ents	and
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	Control	<u> </u>		~~~								· ·								***************************************						
£ ===	Custody Seals In Place: Ye	es (Nd	<u> T</u>	emp B	tank: Y	es/(Vo) Co	<u>oler</u>	Temp	on Re	eceipt	: /	°F/	C		Trip	Blank	Yes	/Ng		MS	/MSD	Sami	ple Submitte	d: Yes	Mol	

MAY

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER: CIRCLE THE APPR	MOKO719	LAB	DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	11/2eq07 11/27/0				DRINI WAST OTHE	atory Purposes? KING WATER IE WATER ER
		SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION	PRESER VATIVE	рН	SAMPLE	DATE SAMPLED	REMARKS: CONDITION (ETC.)
Custody Seal(s)	Present / Absent						MATRIA	SAMPLED	COMBITION (ETC.)
	Intact / Broken*					******			
2. Chain-of-Custody	Present / Absent*								
Traffic Reports or									
Packing List:	Present / Absent							-	
4. Airbill:	Airbill / Sticker								
	Present / Absent								
5. Airbill #:									
6. Sample Labels:	Present / Absent		***************************************					/ ·	
7. Sample IDs:	Listed / Not Listed							<u>-</u>	
	on Chain-of-Custody			,	,		-/- 		
8. Sample Condition:	Intact / Broken* /			U U					
	Leaking*			æl.	0/	\prec			
9. Does information or	n chain-of-custody,			3,129					
traffic reports and s			, ,	11,0	/				
agree?	Yes / No*								
Sample received with									
hold time?	Yes / No*								
 Adequate sample volu 	/					-+			
received?	Yes / No*								
12. Proper preservatives									
13. Trip Blank / Temp Bla	ink Received?	13,43					-		
(circle which, if yes)	Yes (No					+			
14. Read Temp:									
Correction Factor:									
Corrected Temp:									Ž
Is corrected temp. 0-6			* 17						- A
*Exception (if any): Meta				·		_			
DFF on Ice or Problem	n COC AIR					_			

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

SAMPLERECEIPTLOG Revision 9 (10/26/07)



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.





Project: BP Heritage #11132, Oakland, CA

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0754
Reported:
11/29/07 11:17

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.





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	Note
11132ASYSINF (MQK0754-01) Vapor	Sampled: 11/2	Received:	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	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-15	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	55-13	0	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-13	0	"	"	"	"	
Surrogate: Toluene-d8		96 %	75-12	0	"	"	"	"	
Gasoline Range Organics (C4-C12)	280	14	ppmv	н	II.	11	н	H	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-15	0	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		88 %	55-13	0	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-13	0	"	n	"	"	
Surrogate: Toluene-d8		96 %	75-12	0	"	"	"	"	
11132ASYSINF (MQK0754-02) Vapor	Sampled: 11/2	7/07 08:05	Received: 1	1/27/07	17:20				
Gasoline Range Organics (C4-C12)	710	50	mg/m³ Air	1	7K28019	11/28/07	11/28/07 14:30	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		112 %	60-15	9	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	55-13	9	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-13	9	"	"	"	"	
Surrogate: Toluene-d8		94 %	75-12	9	"	"	"	"	
Gasoline Range Organics (C4-C12)	200	14	ppmv	H	н	"	t!	и	
Surrogate: 1,2-Dichloroethane-d4		112 %	60-15)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	55-13)	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-13)	"	"	"	"	
Surrogate: Toluene-d8		94 %	75-120)	"	"	"	"	
11132ASYSINF (MQK0754-03) Vapor	Sampled: 11/2	7/07 13:20	Received: 1	1/27/07	17:20				
Gasoline Range Organics (C4-C12)	520	50	mg/m³ Air	1	7K28019	11/28/07	11/28/07 15:01	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		112 %	60-150)	"	"	"	u .	
Surrogate: 4-Bromofluorobenzene		87 %	55-130)	"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	75-130)	"	"	"	"	
Surrogate: Toluene-d8		93 %	75-120)	"	"	"	"	
Gasoline Range Organics (C4-C12)	150	14	ppmv	11	H	"	11	ti .	
Surrogate: 1,2-Dichloroethane-d4		112 %	60-150)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87 %	55-130)	"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	75-130)	"	"	"	"	
Surrogate: Toluene-d8		93 %	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.





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	Note
11132ASYSINF (MQK0754-01) Vapor	Sampled: 11/26	5/07 18:35	Received:	11/27/07	17:20				
Methyl tert-butyl ether	2.7	0.50	mg/m³ Air	1	7K28019	11/28/07	11/28/07 13:59	EPA 8260B	***************************************
Benzene	3.1	0.50	н	н	n n	н	11	0	
Toluene	3.1	0.50	n	11	н	11	II.	н	
Ethylbenzene	4.9	0.50	н	н	**	н	н	11	
Xylenes (total)	8.5	0.50	11	11	H		11	н	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-1	50	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	55-1	30	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-1	30	"	"	"	"	
Surrogate: Toluene-d8		96 %	75-1.	20	"	"	"	"	
Benzene	0.97	0.16	ppmv	н	11	11	н ,		
Ethylbenzene	1.1	0.12	0	10	н	н	11	II	
Methyl tert-butyl ether	0.75	0.14	11	H	11	#	н	II .	
Toluene	0.82	0.13	н	н	11	н	11	н	
Xylenes (total)	2.0	0.12	11		н			"	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-1.	50	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	55-1.	30	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-1.	30	"	"	n	"	
Surrogate: Toluene-d8		96 %	75-12	20	"	"	"	"	
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/m³ Air	1	7K28019	11/28/07	11/28/07 14:30	EPA 8260B	
Benzene	1.2	0.50	и	н	0	н	11,50	u	
Гoluene	2.8	0.50	n .	0	н	11	Ħ	и	
Ethylbenzene	5.2	0.50	N .	н	10	H.	U	11	
Xylenes (total)	7.7	0.50	H	11	н	11	"	O.	
Surrogate: 1,2-Dichloroethane-d4		112 %	60-13	50	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	55-13	30	11	"	"	n	
Surrogate: Dibromofluoromethane		96 %	75-13	80	"	"	"	"	
Surrogate: Toluene-d8		94 %	75-12	20	"	"	"	"	
Benzene	0.36	0.16	ppmv	н	"	11	t)	н	
Ethylbenzene	1.2	0.12	"	u	u	0	н	**	
Methyl tert-butyl ether	0.35	0.14	11	11	n .	11	0	н	
Toluene	0.74	0.13	н	17	н	n n	н	ij	
Kylenes (total)	1.8	0.12	u .	н	11	t i	11		
Surrogate: 1,2-Dichloroethane-d4		112 %	60-15	60	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	55-13	20	"	"	"	"	

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.





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	Note
11132ASYSINF (MQK0754-02) Vapor	Sampled: 11/2	7/07 08:05	Received: 1	1/27/07	17:20	-			
Surrogate: Dibromofluoromethane		96 %	75-136	0	7K28019	11/28/07	11/28/07 14:30	EPA 8260B	
Surrogate: Toluene-d8		94 %	75-120	9	"	"	"	"	
11132ASYSINF (MQK0754-03) Vapor	Sampled: 11/2'	7/07 13:20	Received: 1	1/27/07	17:20				
Methyl tert-butyl ether	1.7	0.50	mg/m³ Air	1	7K28019	11/28/07	11/28/07 15:01	EPA 8260B	
Benzene	0.87	0.50	n	11	н	н	н	n	
Toluene	1.7	0.50	11	"	"	11	11	U	
Ethylbenzene	2.4	0.50	н	н	**	0	11	+1	
Xylenes (total)	4.2	0.50	H	"		н	И	"	
Surrogate: 1,2-Dichloroethane-d4		112 %	60-150)	"	"	ır .	"	
Surrogate: 4-Bromofluorobenzene		87 %	55-130)	"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	75-130)	"	"	"	"	
Surrogate: Toluene-d8		93 %	75-120)	n	"	"	"	
Benzene	0.27	0.16	ppmv	u	11	н	н	u	
Ethylbenzene	0.56	0.12	"	•	11	11	11	H	
Methyl tert-butyl ether	0.48	0.14	O .	н	н	u	n n	11	
Toluene	0.44	0.13	н	11	Ħ	н	н	n	
Xylenes (total)	0.98	0.12	11	n	n	11	11	Ħ	
Surrogate: 1,2-Dichloroethane-d4		112 %	60-150)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87 %	55-130)	"	"	"	n .	
Surrogate: Dibromofluoromethane		93 %	75-130		"	"	n	"	
Surrogate: Toluene-d8		93 %	75-120		"	"	"	"	





Project: BP Heritage #11132, Oakland, CA

Spike

Source

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0754 Reported: 11/29/07 11:17

RPD

%REC

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

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K28019 - EPA 5030B P/T	/ LUFT GCMS									
Blank (7K28019-BLK1)				Prepared a	& Analyze	ed: 11/28/	07			
Gasoline Range Organics (C4-C12)	ND	14	ppmv							
Gasoline Range Organics (C4-C12)	ND	50	mg/m³ Air							
Surrogate: 1,2-Dichloroethane-d4	0.610		рртч	0.594		103	60-150			
Surrogate: 1,2-Dichloroethane-d4	2.57		mg/m³ Air	2.50		103	60-150			
Surrogate: 4-Bromofluorobenzene	0.295		ppmv	0.349		84	55-130			
Surrogate: 4-Bromofluorobenzene	2.11		mg/m³ 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	D-BS2)			Prepared &	& Analyze	ed: 11/28/	07			
Gasoline Range Organics (C4-C12)	152	14	ppmv	142		107	55-130			
Gasoline Range Organics (C4-C12)	536	50	mg/m³ 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/m³ Air	2.50		92	55-130			
Surrogate: Dibromofluoromethane	0.282		ppmv	0.318		88	75-130			
Surrogate: Dibromofluoromethane	2.21		mg/m³ Air	2.50		88	75-130			
Surrogate: Toluene-d8	0.633		ppmv	0.665		95	75-120			
Surrogate: Toluene-d8	2.38		mg/m³ Air	2.50		95	75-120			
Laboratory Control Sample Dup (7K2	28019-BSD2)			Prepared &	& Analyze	d: 11/28/0)7			
Gasoline Range Organics (C4-C12)	151	14	ppmv	142		107	55-130	0.5	20	
Gasoline Range Organics (C4-C12)	533	50	mg/m³ 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/m³ Air	2.50		90	55-130			
urrogate: 4-Bromofluorobenzene	0.316		ppmv	0.349		90	55-130			
'urrogate: Dibromofluoromethane	0.279		n .	0.318		88	75-130			
'urrogate: Dibromofluoromethane	2.19		mg/m³ Air	2.50		88	75-130			
urrogate: Toluene-d8	0.635		ppmv	0.665		96	75-120			
'urrogate: Toluene-d8	2.39		mg/m³ Air	2.50		96	75-120			





Project: BP Heritage #11132, Oakland, CA

Spike

Source

%REC

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0754 Reported: 11/29/07 11:17

RPD

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

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K28019 - EPA 5030B P/T	/ EPA 8260B									
Blank (7K28019-BLK1)				Prepared .	& Analyze	ed: 11/28/	07			
Methyl tert-butyl ether	ND	0.50	mg/m³ Air							
Benzene	ND	0.16	ppmv							
Benzene	ND	0.50	mg/m³ Air							
Toluene	ND	0.50	H							
Ethylbenzene	ND	0.50	11							
Xylenes (total)	ND	0.50	11							
Ethylbenzene	ND	0.12	ppmv							
Methyl tert-butyl ether	ND	0.14	н							
Toluene	ND	0.13	11							
Xylenes (total)	ND	0.12	11							
Surrogate: 1,2-Dichloroethane-d4	2.57		mg/m³ Air	2.50		103	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.610		ppmv	0.594		103	60-150			
Surrogate: 4-Bromofluorobenzene	2.11		mg/m³ Air	2.50		84	55-130			
Surrogate: 4-Bromofluorobenzene	0.295		ppmv	0.349		84	55-130			
Surrogate: Dibromofluoromethane	2.22		mg/m³ Air	2.50		89	75-130			
Surrogate: Dibromofluoromethane	0.283		ppmv	0.318		89	75-130			
Surrogate: Toluene-d8	2.26		mg/m³ Air	2.50		90	75-120			
Surrogate: Toluene-d8	0.601		ppmv	0.665		90	75-120			
Laboratory Control Sample (7K28019	9-BS1)			Prepared &	& Analyze	d: 11/28/0	07			
Methyl tert-butyl ether	9.20	0.50	mg/m³ Air	10.0		92	80-130			
Benzene	2.91	0.16	ppmv	3.14		93	75-120			
Benzene	9.27	0.50	mg/m³ Air	10.0		93	75-120			
Toluene	9.06	0.50	н	10.0		91	80-120			
Ethylbenzene	9.72	0.50	n	10.0		97	80-125			
Kylenes (total)	28.5	0.50	11	30.0		95	80-125			
Ethylbenzene	2.24	0.12	ppmv	2.31		97	80-125			
Aethyl tert-butyl ether	2.56	0.14	11	2.78		92	80-130			
*oluene	2.41	0.13	"	2.66		91	80-120			
(ylenes (total)	6.58	0.12	н	6.92		95	80-125			
Surrogate: 1,2-Dichloroethane-d4	2.50		mg/m³ Air	2.50		100	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.594		ppmv	0.594		100	60-150			
Surrogate: 4-Bromofluorobenzene	2.24		mg/m³ Air	2.50		90	55-130			
Surrogate: 4-Bromofluorobenzene	0.313		ppmv	0.349		90	55-130			
Surrogate: Dibromofluoromethane	2.33		mg/m³ Air	2.50		93	75-130			
Surrogate: Dibromofluoromethane	0.297		ppmv	0.318		93	75-130			

TestAmerica - Morgan Hill, CA

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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

	Reporting		Spike	Source		%REC		RPD	
Analyte Resu	alt Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Laboratory Control Sample (7K28019-BS1)			Prepared & Analyzed: 11/28/07						
Surrogate: Toluene-d8	2.30		mg/m³ Air	2.50	92	75-120		***************************************	
Surrogate: Toluene-d8	0.612		рртч	0.665	92	75-120			
Laboratory Control Sample Dup (7K	28019-BSD1)			Prepared & An	alyzed: 11/28/	07			
Methyl tert-butyl ether	10.2	0.50	mg/m³ 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/m³ Air	10.0	102	75-120	9	20	
Toluene	9.97	0.50	н	10.0	100	80-120	10	25	
Ethylbenzene	10.5	0.50	11	10.0	105	80-125	8	20	
Kylenes (total)	30.9	0.50	и	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	11	2.78	102	80-130	11	25	
Toluene	2.65	0.13	u	2.66	100	80-120	10	25	
Kylenes (total)	7.13	0.12	н	6.92	103	80-125	8	20	
'urrogate: 1,2-Dichloroethane-d4	2.47		mg/m³ 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/m³ Air	2.50	90	55-130			
Surrogate: 4-Bromofluorobenzene	0.313		ppmv	0.349	90	55-130			
urrogate: Dibromofluoromethane	2.39		mg/m³ Air	2.50	96	75-130			
urrogate: Dibromofluoromethane	0.304		ppmv	0.318	96	75-130			
Gurrogate: Toluene-d8	2.31		mg/m³ Air	2.50	92	75-120			
Surrogate: Toluene-d8	0.614		ppmv	0.665	92	75-120			



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

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

Project: BP Heritage #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 MQK0754

DATE/TIME 11/27/07	1820	DATI	RECEIVED	11127107			
CLIENT AQLO		TURN AROUND TIME 510					
CLIENT SERVICES REPLISA		ANALYST DU					
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	RESO	LUTION					
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Telephone Number of Client:	<u> </u>	- mul	/				
Client Contact for Instruction:	5,6	Hane					
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Date and Time of Instruction:	N128	107 (0) 7):02A				
Date & Time Form Given to Sample	Control:	11/28/0	7				
CLIENT SERVICES REP. SIGNATUR		1/125/2		•			
DATE/TIM	Ή··	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

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

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Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name: ARCO Facility No. 2003 1113 Z

BP BU/AR Region/Enfos Segment:

BP > Americas > West > Retail > Alameda

REVISED

State or Lead Regulatory Agency:

Regional Water Quality Control Board

Requested Due Date (mm/dd/yy): SYD THE

	Pageof	
On-site Time: 0900	Temp:	
Off-site Time:	Temp:	
Sky Conditions:	Ψ.	
Meteorological Events:		
Wind Speed:	Direction:	

Lad Ivanie: TestAmerica	BP/AR Facility No.: 11132				
Address: 885 Jarvis Drive	BP/AR Facility Address: 3201 35th Avenue, Oakland, CA	Consultant/Contractor: Stratus Environmental, Inc.			
Morgan Hill, CA 95937	Site Lat/Long:	Address: 3330 Cameron Park Drive, Suite 550			
Lab PM: Lisa Race	California Global ID No.: T0600100213	Cameron Park, CA 95682			
Tele/Fax: 408-782-8156/408-782-6308	Enfos Project No.: G07TS-0038	Consultant/Contractor Project No.: E6106-01			
BP/AR PM Contact: Paul Supple	7-11-11-11-11-11-11-11-11-11-11-11-11-11	Consultant/Contractor PM: Jay Johnson			
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 01-Assessment	Tele/Fax: (530) 676-6000 / (530) 676-6005			
San Ramon, CA	Sub Phase/Task: 03-Analytical	Report Type & QC Level: Level 1 with EDF			
Tele/Fax: 925-299-8891/925-299-8872	Cost Element: Subcontractor Cost	E-mail EDD To: shayes@stratusinc.net			
Lab Bottle Order No: Matrix		Invoice to: Atlantic Richfield Co.			
Item No. Sample Description Time Date Mater/Liquid	Preservative Requested Analysis Laboratory No. Of Containers Wethanol Methanol Met	Sample Point Lat/Long and Comments			
1 ///37 4 S//5 Tuck learn / 112/2 11/4/					
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ampler's Name: Chris Hill	Palincia I De Company				
ampler's Company: Stratus Environmental, Inc.	Relinquished By / Affiliation Date Time	Accepted By / Affiliation Date Time			
hipment Date: 1 - 2.7.6)	12 1530 1530 1200 1530	1100 THMH 11-17-07 1530			
hipment Method:	1-2H1 1720	11/27/6/1720			
hipment Tracking No:					
pecial Instructions: Please cc results to bpe	edf@broadbenting.com				
Custody Seals In Place: Yes / No / Temp Blank: Yes	(6)				
	s/(No) Cooler Temp on Receipt: / °F/C Trip Blank: Ye	S/NO) MS/MSD Sample Submitted: Ves /No			

Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name: ARCO Fa

ARCO Facility No. and 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):

SYD	THE

	Page	
On-site Time: 0700	Temp:	
Off-site Time:	Temp:	
Sky Conditions:		
Meteorological Events:	:	
Wind Speed:	Direction:	

Lad Ivame: 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) 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: shayes@stratusinc.net					
Tele/Fax: 925-299-8891/925-299-8872	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.					
Lab Bottle Order No: Matrix	Preservative Requested Analysis	Turnaround Time					
Item No. Date Description Time Soil/Solid Water/Liquid Air	Taporators No. of Containers Unpreserved HNO3 HNO3 HCI Methanol S-Oxygenates MTTSE	Sample Point Lat/Long and Comments					
1 11132 A 545 INF 1835 1134 X	の 2 2	り					
		TBA, ETBE, and TAME					
2 3 111 32 A SYS INF 1805 1127 X 4 111 32 A SYS INF 1325 W372 X	02 Z X X	L IBA, ETBE, and TAIVIE					
4 111 32 A SYS IN 12 1325 W373 X							
+ mozn prozer	03 2 XX						
5	<u> </u>						
6							
7							
8							
9							
10							
Sampler's Name: Chris Hill	Relinquished By / Affiliation Date Time	Accepted By / Affiliation Date Time					
Sampler's Company: Stratus Environmental, Inc.	Chief States 1200 1530						
Shipment Date: 11-27-67	11-17-17-17-10	11-27-07 1530 11/2760 1720					
Shipment Method:	1300	11-10/1/20					
Shipment Tracking No:							
	pedf@broadbentinc.com						
Custody Seals In Place: Yes / No / Temp Blank: Y	es/No) Cooler Temp on Receipt: °F/C Trip Blank: `	Yes / No) MS/MSD Sample Submitted: Yes /(No)					
		BP COC Rev. 5 10/11/2006					

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME:	MOLA :1122			25/00/97-10:20/00/00/25/2002				next transmissioners	
REC. BY (PRINT)	ADEO 11132 D.V.		DATE REC'D AT LAB:	11127107	***			For Regula	atory Purposes?
WORKORDER:			TIME REC'D AT LAB:	11/20					KING WATER
HOIMOIDLI.	MQK0754		DATE LOGGED IN:	11/27/	07				E WATER
ODOLETIE ADDE								V OTHE	
CIRCLE THE APPH	ROPRIATE RESPONSE	LAB	CLIENT ID	CONTAINER	PRESER		SAMPLE	DATE	REMARKS:
1 Custody Spal(a)		SAMPLE#		DESCRIPTION	VATIVE	рН	1	SAMPLED	CONDITION (ETC.)
Custody Seal(s)	Present / Absent	01	11132 AGYS INF	2 tedlar			air	11126107	
2 Ob-i	Intact / Broken*	02	V	Ÿ	1	1	1	11127107	
2. Chain-of-Custody	Present / Absent*	03	· V	4				W V	
3. Traffic Reports or							Ž		
Packing List:	Present / Absent								
4. Airbill:	Airbill / Sticker							· · ·	
	Present / Absent								
5. Airbill #:		·							
6. Sample Labels:	Present / Absent								
7. Sample IDs:	Listed / Not Listed							-/-	
	on Chain-of-Custody							/ · · 	
8. Sample Condition:	ntant / Broken* /			1			\overline{A}		
	Leaking*			 	-		$\overline{}$		
9. Does information o	n chain-of-custody,					-/			
traffic reports and	sample labels		1 1	الآيار		\leftarrow $+$			
agree?	Yes No*			1 2 1	/ 				
Sample received with	hin			1 /1/ P/	\leftarrow +	\rightarrow			
hold time?	Yes / No*								
Adequate sample vo	lume								
received?	Yes / No*								
Proper preservatives	s used? Yes / No*								
13. Trip Blank / Temp Bl	ank Received?	33							
(circle which, if yes)	Yes No								
14, Read Temp:						-+			
Correction Factor:									
Corrected Temp:									
Is corrected temp. 0-	6°C? Yes / No**								
**Exception (if any): Met		-/-							
DFF on Ice or Proble		\leftarrow							M. M
			LED CONTACT PROJECT			Salanan da la v			

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

Page ____of ___



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] Project: BP Heritage #11132, Oakland, CA MQK0810
3330 Cameron Park Dr., Suite 550 Project Number: G07TS-0038 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 12/13/07 09:44

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.





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	Note
11132ASYSINF (MQK0810-01) Vapor	Sampled: 11/2	Received: 1	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	
Surrogate: 1,2-Dichloroethane-d4		113 %	60-15	9	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		98 %	55-13	9	"	"	"	n .	
Surrogate: Dibromofluoromethane		104 %	75-130)	"	"	"	"	
Surrogate: Toluene-d8		103 %	75-120)	"	"	"	"	
Gasoline Range Organics (C4-C12)	82	14	ppmv	0	н	н	н	n .	
Surrogate: 1,2-Dichloroethane-d4		113 %	60-150)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	55-130)	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	75-130)	"	"	"	"	
Surrogate: Toluene-d8		103 %	75-120)	"	"	"	"	
11132ASYSINF (MQK0810-02) Vapor	Sampled: 11/2	8/07 08:05	Received: 1	1/28/07	17:25				
Gasoline Range Organics (C4-C12)	2200	50	mg/m³ Air	1	7K29008	11/29/07	11/29/07 15:20	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-150)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	55-130)	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	75-130)	"	"	"	"	
Surrogate: Toluene-d8		102 %	75-120)	"	"	"	"	
Gasoline Range Organics (C4-C12)	620	14	ppmv	н	0	11	0	u	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-150)	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	55-130)	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	75-130)	"	n	n	"	
Surrogate: Toluene-d8		102 %	75-120)	"	"	"	n	
11132ASYSINF (MQK0810-03) Vapor	Sampled: 11/28	3/07 13:00	Received: 1	1/28/07	17:25				
Gasoline Range Organics (C4-C12)	2900	50	mg/m³ Air	1	7K29008	11/29/07	11/29/07 15:51	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-150)	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		105 %	55-130)	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	75-130)	"	"	"	n	
Surrogate: Toluene-d8		102 %	75-120	•	n	"	"	"	
Gasoline Range Organics (C4-C12)	810	14	ppmv	IF	ti .	11	11	tt	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-150		"	n	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	55-130		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		102 %	75-120		"	n	"	"	

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.





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	Note
11132ASYSINF (MQK0810-01) Vapor	Sampled: 11/2	7/07 18:00	Received:	11/28/07	17:25			16-16-16-16-16-16-16-16-16-16-16-16-16-1	
Methyl tert-butyl ether	2.1		mg/m³ Air	1	7K29008	11/29/07	11/29/07 14:49	EPA 8260B	
Benzene	0.85	0.50	н	H	11	11	н	u	
Toluene	1.4	0.50	U	11	"	"	н	H	
Ethylbenzene	2.0	0.50	11	11	"	н	11	Ħ	
Xylenes (total)	3.1	0.50	H	**	В	11	11	"	
Surrogate: 1,2-Dichloroethane-d4		113 %	60-1	50	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	55-1	30	"	n	"	"	
Surrogate: Dibromofluoromethane		104 %	75-1	30	"	"	"	"	
Surrogate: Toluene-d8		103 %	75-1.	20	"	"	n	"	
Benzene	0.27	0.16	ppmv	11	n	н	н	и	
Ethylbenzene	0.45	0.12	11	11	н	н	11	н	
Methyl tert-butyl ether	0.58	0.14	н	н	0	tt.	u u	11	
Toluene	0.38	0.13	н	11	11	н	11	**	
Xylenes (total)	0.71	0.12		11	U	10	11	If	
Surrogate: 1,2-Dichloroethane-d4		113 %	60-1.	50	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	55-1.	30	"	"	n	"	
Surrogate: Dibromofluoromethane		104 %	75-1	30	"	"	"	"	
Surrogate: Toluene-d8		103 %	75-12	20	"	"	"	"	
11132ASYSINF (MQK0810-02) Vapor	Sampled: 11/2	8/07 08:05	Received:	11/28/07	17:25				
Methyl tert-butyl ether	2.5	0.50	mg/m³ Air	1	7K29008	11/29/07	11/29/07 15:20	EPA 8260B	******
Benzene	13	0.50	н	0	**	"	н	O.	
Foluene	4.0	0.50	11	u	H	H	D.	н	
Ethylbenzene	5.0	0.50	11	н	11	U	11	11	
Xylenes (total)	. 14	0.50	H	11	n	11		U	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-13	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	55-13	0	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	75-13	0	"	n	"	"	
Surrogate: Toluene-d8		102 %	75-12	0	"	"	"	"	
Benzene	3.9	0.16	ppmv	H	11	11	Ħ	n	
Ethylbenzene	1.1	0.12	н	u	и	н	н	н	
Methyl tert-butyl ether	0.70	0.14	11	"	"	11	11	**	
Foluene	1.1	0.13	н	11	II.	u u	11	n	
Xylenes (total)	3.3	0.12	ti .	"	н	ir	H	Н	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-15	0	"	"	"	"	
-									

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.





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

A MQK0810 Reported: 12/13/07 09:44

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

Project Manager: Jay Johnson

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
11132ASYSINF (MQK0810-02) Vapor	Sampled: 11/2		Received:						
Surrogate: Dibromofluoromethane		106 %	75-13	0	7K29008	11/29/07	11/29/07 15:20	EPA 8260B	
Surrogate: Toluene-d8		102 %	75-12	0	"	"	"	n	
11132ASYSINF (MQK0810-03) Vapor	Sampled: 11/28	8/07 13:00	Received: 1	1/28/07	17:25				
Methyl tert-butyl ether	4.3	0.50	mg/m³ Air	1	7K29008	11/29/07	11/29/07 15:51	EPA 8260B	
Benzene	9.6	0.50	Ħ	n	11	11	11	н	
Toluene	5.4	0.50	н	н	"	"	11	11	
Ethylbenzene	7.0	0.50	"	11	"	н	н	II .	
Xylenes (total)	25	0.50	н	*1	Ħ		11	14	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-15	0	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		105 %	55-13	0	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	75-13	0	"	"	"	"	
Surrogate: Toluene-d8		102 %	75-12	0	"	n	"	"	
Benzene	3.0	0.16	ppmv	n	"	п	11	н	
Ethylbenzene	1.6	0.12	"	н	n	11	11	ч	
Methyl tert-butyl ether	1.2	0.14	II.	11	Ħ	н	н	н	
Toluene	1.4	0.13	н	н	u u	u	u.	11	
Xylenes (total)	5.8	0.12	11	н	11	11	п	H	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-150)	"	"	"	"	WWW./WW.1984.4-14
Surrogate: 4-Bromofluorobenzene		105 %	55-130	9	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	75-130	-	"	"	"	"	
Surrogate: Toluene-d8		102 %	75-120		"	"	"	"	





Project: BP Heritage #11132, Oakland, CA

Spike

Source

MQK0810 Reported: 12/13/07 09:44

RPD

%REC

Project Number: G07TS-0038
Project Manager: Jay Johnson

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

Reporting

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K29008 - EPA 5030B P/T	/ LUFT GCMS									
Blank (7K29008-BLK1)				Prepared a	& Analyze	ed: 11/29/	07			
Gasoline Range Organics (C4-C12)	ND	14	ppmv		<u>-</u>					
Gasoline Range Organics (C4-C12)	ND	50	mg/m³ Air							
Surrogate: 1,2-Dichloroethane-d4	0.572		ppmv	0.594		96	60-150			
Surrogate: 1,2-Dichloroethane-d4	2.41		mg/m³ Air	2.50		96	60-150			
Surrogate: 4-Bromofluorobenzene	0.326		ppmv	0.349		93	55-130			
Surrogate: 4-Bromofluorobenzene	2.33		mg/m³ 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/m³ Air	2.50		99	75-120			
Laboratory Control Sample (7K2900)	8-BS2)			Prepared a	& Analyze	d: 11/29/0)7			
Gasoline Range Organics (C4-C12)	120	14	ppmv	142		85	55-130			
Gasoline Range Organics (C4-C12)	425	50	mg/m³ Air	500		85	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.49		"	2.50		100	60-150		***************************************	
'urrogate: 1,2-Dichloroethane-d4	0.591		ppmv	0.594		100	60-150			
Turrogate: 4-Bromofluorobenzene	0.351		"	0.349		100	55-130			
Surrogate: 4-Bromofluorobenzene	2.51		mg/m³ Air	2.50		100	55-130			
Surrogate: Dibromofluoromethane	0.308		ppmv	0.318		97	75-130			
Surrogate: Dibromofluoromethane	2.42		mg/m³ Air	2.50		97	75-130			
Surrogate: Toluene-d8	0.694		ppmv	0.665		104	75-120			
Eurrogate: Toluene-d8	2.61		mg/m³ Air	2.50		104	75-120			
Laboratory Control Sample Dup (7K2	29008-BSD2)			Prepared &	& Analyze	d: 11/29/0)7			
Gasoline Range Organics (C4-C12)	119	14	ppmv	142		84	55-130	0.9	20	
Gasoline Range Organics (C4-C12)	421	50	mg/m³ Air	500		84	55-130	0.9	20	
urrogate: 1,2-Dichloroethane-d4	2.59		"	2.50		104	60-150	111111		
urrogate: 1,2-Dichloroethane-d4	0.615		ppmv	0.594		104	60-150			
urrogate: 4-Bromofluorobenzene	2.49		mg/m³ Air	2.50		100	55-130			
urrogate: 4-Bromofluorobenzene	0.348		ppmv	0.349		100	55-130			
urrogate: Dibromofluoromethane	0.315		"	0.318		99	75-130			
urrogate: Dibromofluoromethane	2.47		mg/m³ Air	2.50		99	75-130			
urrogate: Toluene-d8	0.691		ppmv	0.665		104	75-120			
urrogate: Toluene-d8	2.60		mg/m³ Air	2.50		104	75-120			





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
Batch 7K29008 - EPA 5030B P/T / EF	A 8260B		SIGNE III							
Blank (7K29008-BLK1)				Prepared a	& Analyze	ed: 11/29/	07			
Methyl tert-butyl ether	ND	0.50	mg/m³ Air							
Benzene	ND	0.16	ppmv							
Benzene	ND	0.50	mg/m³ Air							
Toluene	ND	0.50	н							
Ethylbenzene	ND	0.50	11							
Xylenes (total)	ND	0.50	н							
Ethylbenzene	ND	0.12	ppmv							
Methyl tert-butyl ether	ND	0.14	II.							
Toluene	ND	0.13	н							
Xylenes (total)	ND	0.12	п							
Surrogate: 1,2-Dichloroethane-d4	2.41		mg/m³ Air	2.50		96	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.572		ppmv	0.594		96	60-150			
Surrogate: 4-Bromofluorobenzene	2.33		mg/m³ Air	2.50		93	55-130			
Surrogate: 4-Bromofluorobenzene	0.326		ррти	0.349		93	55-130			
Surrogate: Dibromofluoromethane	2.35		mg/m³ Air	2.50		94	75-130			
Surrogate: Dibromofluoromethane	0.299		ррти	0.318		94	75-130			
Surrogate: Toluene-d8	2.47		mg/m³ Air	2.50		99	75-120			
Surrogate: Toluene-d8	0.657		ppmv	0.665		99	75-120			
Laboratory Control Sample (7K29008-BS	1)			Prepared &	& Analyze	d: 11/29/0)7			
Methyl tert-butyl ether	9.85	0.50		10.0		98	80-130			
Benzene	3.09	0.16	ppmv	3.14		99	75-120			
Benzene	9.85	0.50	mg/m³ Air	10.0		98	75-120			
Toluene	10.2	0.50	n	10.0		102	80-120			
Ethylbenzene	10.6	0.50	н	10.0		106	80-125			
Kylenes (total)	32.4	0.50	11	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			
oluene	2.73	0.13	u	2.66		102	80-120			
Kylenes (total)	7.48	0.12	н	6.92		108	80-125			
Surrogate: 1,2-Dichloroethane-d4	2.36		mg/m³ Air	2.50		94	60-150			
urrogate: 1,2-Dichloroethane-d4	0.560		ppmv	0.594		94	60-150			
'urrogate: 4-Bromofluorobenzene	2.52		mg/m³ Air	2.50		101	55-130			
'urrogate: 4-Bromofluorobenzene	0.352		ррти	0.349		101	55-130			
urrogate: Dibromofluoromethane	2.49		mg/m³ Air	2.50		100	75-130			
urrogate: Dibromofluoromethane	0.317		ррту	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.





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

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

Batch	/K29008 -	EPA 50301	3 P/T/	EPA 8260B

Laboratory Control Sample (7K29008	Prepared & Analyzed: 11/29/07							
Surrogate: Toluene-d8	2.58	mg/m³ Air	2.50	103	75-120			
Surrogate: Toluene-d8	0.686	ppmv	0.665	103	75-120			
Laboratory Control Sample Dup (7K2	29008-BSD1)		Prepared & An	alyzed: 11/29/	07			
Methyl tert-butyl ether	9.56	0.50 mg/m³ 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/m³ 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/m³ 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/m³ Air	2.50	103	55-130			
Surrogate: 4-Bromofluorobenzene	0.359	рртч	0.349	103	55-130			
Surrogate: Dibromofluoromethane	2.48	mg/m³ Air	2.50	99	75-130			
Surrogate: Dibromofluoromethane	0.316	ppmv	0.318	99	75-130			
Surrogate: Toluene-d8	2.60	mg/m³ Air	2.50	104	75-120			
Surrogate: Toluene-d8	0.691	ppmv	0.665	104	75-120			





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

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Atlan Rich	tic
Com	pany

A BP affiliated company

Chain of Custody Record

Project Name:

ARCO Facility No. and 11/32

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):

3+07197

•		
On-site Time: 0500	Тетр	
Off-site Time: 1900	Тетр	
Sky Conditions:		
Meteorological Events:		
Wind Speed:	Direction:	

Lab	Name: TestAmerica						BP/AR Pacility No	,		11132							.				mbrauster:	Stratus Environ		· — - Î
Add												∦	A	ldress	<u>; </u>		eron Park Drive,	Suite 550						
Mor	gan Hill, CA 95937						Site Lat/Long:						*].					ark, CA 95682		
Lab :	PM: Lisa Race	_					California Global	DИ	o.:	TWO					_,_				-			ect No.: E6106-01		
Tele	Fax: 408-782-8156/408-782-6308	3					Enfos Project No.:			G07T	S-003	8		·				C	msnit:	int/Co	***************************************	Jay Johnson		
BP//	R PM Contact Paul Supple						Provision or OOC	(cir	cle one)	Provi	ision							le/Far			6000 / (530) 676		
Add	css: 2010 Crow Canyon Place, Suite	e 150					Phase/WBS:		01-Ase	essme	nī										k QC Level:		all with EDF	
	San Ramon, CA						Sub Phase/Task:		03-An	alyticai							∦					es@stratusinc.r	<u>et</u>	
Tele	Fax: 925-299-8891/925-299-8872		***************************************				Cost Blement:		Subco	atració	Cost							<u> Ia</u>	voice	to: A	lantic Richfi	eld Co.		
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TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	MQN0810		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	11 28 07 1725 11/129	1 -7			DRINK WAST OTHE	tory Purposes? GNG WATER E WATER R
CIRCLE THE APPR	OPRIATE RESPONSE	LAB SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION		Нq	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Alesent Intact / Broken*								7
2. Chain-of-Custody	Present / Absent*								
Traffic Reports or Packing List:	Present / Absent			_					
4. Airbill:	Airbill / Sticker Present / Absept							· /	
5. Airbill#:		·	V						
6. Sample Labels:	Present / Absent							/	
7. Sample IDs:	Lester / Not Listed	-				_			
	on Chain-of-Custody							· · · · · · · · · · · · · · · · · · ·	
8. Sample Condition:	ntact / Broken* /			#	-				
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9. Does information o				U					
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agree?	Vee / No*		-	- 11/2					
10. Sample received wit					0,0,				
hold time?	Yell / No*			-					
11. Adequate sample vo									P-4-1
received?	(Yes) / No*			/					-
12. Proper preservatives		- 494							
13. Trip Blank / Temp B									
(circle which, if yes)	Yes (No)								
14, Read Temp:									-
Correction Factor:									•
Corrected Temp:	-8°C? Yes / No**	<u> </u>							
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*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

SAMPLERECEIPTLOG Revision 9 (10/28/07)



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.





Project: BP Heritage #11132, Oakland, CA

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0841 Reported: 12/13/07 16:39

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.





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	3/07 18:05	Received:	11/29/07	17:50				
Gasoline Range Organics (C4-C12)	5200	500	mg/m³ Air	10	7K30005	11/30/07	11/30/07 14:28	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		108 %	60-15	0	"	11	11	n	
Surrogate: 4-Bromofluorobenzene		102 %	55-13	0	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	75-13	0	"	"	11	n	
Surrogate: Toluene-d8		101 %	75-12	0	"	"	"	"	
Gasoline Range Organics (C4-C12)	1500	140	ppmv	10	н		н	11	
Surrogate: 1,2-Dichloroethane-d4		108 %	60-15	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	55-13	0	"	"	"	n	
Surrogate: Dibromofluoromethane		100 %	75-13	0	"	"	"	"	
Surrogate: Toluene-d8		101 %	75-12	0	"	n	"	"	



MQK0841



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 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	8/07 18:05	Received:	11/29/07	17:50				
Methyl tert-butyl ether	3.7	0.50	mg/m³ Air	1	7K30005	11/30/07	11/30/07 12:24	EPA 8260B	
Benzene	7.5	0.50	n	11	11	11	11	11	
Toluene	4.2	0.50	н	**	11	н	н	11	
Ethylbenzene	6.8	0.50	II	н	н	11	н	11	
Xylenes (total)	24	0.50	0	Ħ	н	11	11	**	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-15	50	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		103 %	55-13	30	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	75-13	30	"	"	"	"	
Surrogate: Toluene-d8		106 %	75-12	20	"	"	"	"	
Benzene	2.4	0.16	ppmv	11	11	Ħ	11	n .	
Ethylbenzene	1.6	0.12	н	**	**	н	н	n .	
Methyl tert-butyl ether	1.0	0.14	n	н	11	н	н	tt	
Toluene	1.1	0.13	H	н	н	U	**	"	
Xylenes (total)	5.5	0.12	11	11	n	U	11	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-15	50	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	55-13	80	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	75-13	30	"	"	"	"	
Surrogate: Toluene-d8		106 %	75-12	20	"	"	n	"	





Project: BP Heritage #11132, Oakland, CA

Spike

Source

Project Number: G07TS-0038 Project Manager: Jay Johnson MQK0841 Reported: 12/13/07 16:39

RPD

%REC

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

Reporting

Analyte	Result	Limit	Units	Level	Danit	%REC	70KEC	RPD	KPD Limit	NIa4
таную	Resuit	Fiinit	UIIIS	Level	Result	70KEC	Limits	KLD	Limit	Notes
Batch 7K30005 - EPA 5030B P/T	/ LUFT GCMS									
Blank (7K30005-BLK1)				Prepared a	& Analyze	ed: 11/30/	07			
Gasoline Range Organics (C4-C12)	ND	14	ppmv							,
Gasoline Range Organics (C4-C12)	ND	50	mg/m³ Air							
Surrogate: 1,2-Dichloroethane-d4	0.589		ppmv	0.594		99	60-150			
Surrogate: 1,2-Dichloroethane-d4	2.48		mg/m³ Air	2.50		99	60-150			
Surrogate: 4-Bromofluorobenzene	0.333		ppmv	0.349		95	55-130			
Surrogate: 4-Bromofluorobenzene	2.38		mg/m³ Air	2.50		95	55-130			
urrogate: 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			
urrogate: Toluene-d8	2.50		mg/m³ Air	2.50		100	75-120			
aboratory Control Sample (7K30005	5-BS2)			Prepared a	& Analyze	d: 11/30/	07			
Gasoline Range Organics (C4-C12)	140	14	ppmv	142		99	55-130			
Gasoline Range Organics (C4-C12)	493	50	mg/m³ Air	500		99	55-130			
urrogate: 1,2-Dichloroethane-d4	2.72		"	2.50		109	60-150			
urrogate: 1,2-Dichloroethane-d4	0.646		ppmv	0.594		109	60-150			
urrogate: 4-Bromofluorobenzene	0.363		"	0.349		104	55-130			
urrogate: 4-Bromofluorobenzene	2.60		mg/m³ Air	2.50		104	55-130			
urrogate: Dibromofluoromethane	0.317		ppmv	0.318		100	75-130			
urrogate: Dibromofluoromethane	2.49		mg/m³ Air	2.50		100	75-130			
urrogate: Toluene-d8	0.683		ppmv	0.665		103	75-120			
urrogate: Toluene-d8	2.57		mg/m³ Air	2.50		103	75-120			
aboratory Control Sample Dup (7K3	30005-BSD2)			Prepared &	& Analyze	d: 11/30/0)7			
asoline Range Organics (C4-C12)	139	14	ppmv	142		98	55-130	0.8	20	
asoline Range Organics (C4-C12)	489	50	mg/m³ Air	500		98	55-130	0.8	20	
urrogate: 1,2-Dichloroethane-d4	2.74		"	2.50	M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-	110	60-150			
urrogate: 1,2-Dichloroethane-d4	0.651		ppmv	0.594		110	60-150			
urrogate: 4-Bromofluorobenzene	2.62		mg/m³ Air	2.50		105	55-130			
urrogate: 4-Bromofluorobenzene	0.366		ppmv	0.349		105	55-130			
urrogate: Dibromofluoromethane	0.315		"	0.318		99	75-130			
urrogate: Dibromofluoromethane	2.47		mg/m³ Air	2.50		99	75-130			
urrogate: Toluene-d8	0.694		ppmv	0.665		104	75-120			
urrogate: Toluene-d8	2.61		mg/m³ Air	2.50		104	75-120			



RPD



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

Project: BP Heritage #11132, Oakland, CA

Spike

Source

MQK0841 Project Number: G07TS-0038 Reported: Project Manager: Jay Johnson 12/13/07 16:39

%REC

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

Reporting

Analyte	Result	Limit		Level	Result	%REC	Limits	RPD	Limit	Notes
				20,00		70100	Billito	10.0		11010
Batch 7K30005 - EPA 5030B P/T /	EPA 8260B								· · · · · · · · · · · · · · · · · · ·	
Blank (7K30005-BLK1)				Prepared a	& Analyze	ed: 11/30/	07			
Methyl tert-butyl ether	ND		mg/m³ Air							
Benzene	ND	0.16	ppmv							
Benzene	ND	0.50								
Toluene	ND	0.50	11							
Ethylbenzene	ND	0.50	11							
Xylenes (total)	ND	0.50	II .							
Ethylbenzene	ND	0.12	ppmv							
Methyl tert-butyl ether	ND	0.14	17							
Toluene	ND	0.13	n n							
Xylenes (total)	ND	0.12	н							
Surrogate: 1,2-Dichloroethane-d4	2.48		mg/m³ Air	2.50		99	60-150			***************************************
Surrogate: 1,2-Dichloroethane-d4	0.589		ppmv	0.594		99	60-150			
Surrogate: 4-Bromofluorobenzene	2.38		mg/m³ Air	2.50		95	55-130			
Surrogate: 4-Bromofluorobenzene	0.333		ppmv	0.349		95	55-130			
Surrogate: Dibromofluoromethane	2.34		mg/m³ Air	2.50		94	75-130			
Surrogate: Dibromofluoromethane	0.298		рртч	0.318		94	75-130			
Surrogate: Toluene-d8	2.50		mg/m³ Air	2.50		100	75-120			
Surrogate: Toluene-d8	0.665		ppmv	0.665		100	75-120			
Laboratory Control Sample (7K30005	-BS1)			Prepared &	& Analyze	d: 11/30/0)7			
Methyl tert-butyl ether	10.2	0.50	mg/m³ Air	10.0		102	80-130			
Benzene	3.59	0.16	ppmv	3.14		114	75-120			
Benzene	11.4	0.50	mg/m³ Air	10.0		114	75-120			
Toluene	11.2	0.50	H	10.0		112	80-120			
Ethylbenzene	11.9	0.50	11	10.0		119	80-125			
Kylenes (total)	35.9	0.50	11	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	0	2.66		112	80-120			
Xylenes (total)	8.28	0.12	н	6.92		120	80-125			
Surrogate: 1,2-Dichloroethane-d4	2.44		mg/m³ Air	2.50		98	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.579		ppmv	0.594		98	60-150			
Surrogate: 4-Bromofluorobenzene	2.50		mg/m³ Air	2.50		100	55-130			
Surrogate: 4-Bromofluorobenzene	0.349		рртч	0.349		100	55-130			
Surrogate: Dibromofluoromethane	2.51		mg/m³ Air	2.50		100	75-130			
Surrogate: Dibromofluoromethane	0.320		рртч	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.





Project: BP Heritage #11132, Oakland, CA

Project Number: G07TS-0038

MQK0841 Reported:

Project Manager: Jay Johnson

12/13/07 16:39

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

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

Batch 7K30005 -	· EPA 5030E	3 P/T /	EPA 8260B
-----------------	-------------	---------	-----------

Laboratory Control Sample (7K3000	5-BS1)		Prepared & An	alyzed: 11/30/	07			
Surrogate: Toluene-d8	2.58	mg/i	m³ Air 2,50	103	75-120			
Surrogate: Toluene-d8	0.686	PI	omv 0.665	103	75-120			
Laboratory Control Sample Dup (7K.	30005-BSD1)		Prepared & An	alyzed: 11/30/	07			
Methyl tert-butyl ether	10.1	0.50 mg/i	m³ Air 10.0	101	80-130	1	25	
Benzene	3.32	0.16 pr	omv 3.14	106	75-120	8	20	
Benzene	10.6	0.50 mg/r	m³ 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 pp	omv 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/i	n³ Air 2.50	99	60-150			
Surrogate: 1,2-Dichloroethane-d4	0.587	pp	omv 0.594	99	60-150			
Surrogate: 4-Bromofluorobenzene	2.63	mg/n	n³ Air 2.50	105	55-130			
Surrogate: 4-Bromofluorobenzene	0.368	pp	pmv 0.349	105	55-130			
Surrogate: Dibromofluoromethane	2.59	mg/n	n³ Air 2.50	104	75-130			
Surrogate: Dibromofluoromethane	0.330	pp	mv 0.318	104	75-130			
Surrogate: Toluene-d8	2.56	mg/n	n³ Air 2.50	102	75-120			
Surrogate: Toluene-d8	0.681	pp	mv 0.665	102	75-120			





Stratus Environmental Inc. [Arco] Project: BP Heritage #11132, Oakland, CA MQK0841
3330 Cameron Park Dr., Suite 550 Project Number: G07TS-0038 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 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

Atlantic Richfield Company

A BP affillated company

Chain of Custody Record

Project Name: ARCO Facility No. 6386 1113 2

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

Lah N	ame: TestAmerica			BP/AR Facility No.: 11132 BP/AR Facility Address: 3201 35th Avenue, Oaldand, CA											Consultant/Contractor: Stratus Environmental, Inc. Address: - 3330 Cameron Park Drive, Suite 550											
Addre	ss: 885 Jarvis Drive						BP/AR Facility A	ddre	ss: 320	I 35th	Ayen	це, ()alcland	, C/	.				Ad	dress:	<u> </u>	333	0 Came	ron Park Drive, S	aite 550	
Morga	m Hill, CA 95937						Site Lat/Long:															Cau	neron Pa	erk, CA 95682		
	M; Lise Race						California Global	iD i	ło.:	T060	01002	113							Co	nsulta	nat/Co	entrac	tor Proje	ct No.; E6106-01		
Tele/P	ax: 408-782-8156/408-782-630	8					Enfos Project No.	:		G071	S-003	8							Co	nsulta	nt/Co	entrac	tor PM: I	ay Johnson		
BP/AF	RPM Contact: Paul Supple						Provision or OOC	(Ci	rele one)	Prov	isior	L						Tel	c/Fax		(53	0) 676-6	000 / (530) 676-6	005	
Addre	ss: 2010 Crow Canyon Place, Suit	e 150					Phase/WBS:		01-As	5 53 5mê	nt								Re	port T	урс б	દ QC	Level:	Level	with EDF	
	San Ramon, CA						Sub Phase/Task:		03-Ал	alytica	ı						•		E-r	nail E	DD I	O:	shayes	@stratusinc.ne	ţ	
	ax: 925-299-8891/925-299-8872		·				Cost Element:		Subcor	ntracte	т Соз	t					, , , , , , , , , , , , , , , , , , , ,		Inv	oice t	o: Al	ianti	Richfiel	d Ca.		
Lab B	iottle Order No:				Ma	trix				Pre	servs	tive		R	egue	sted	Analys	ās		Ţ	urna	roun	d Time		1	
ltem No.	Sould Soli Soli Soli Soli Soli Soli Soli Soli						Laboratory No.	No. of Containers	Unpreserved	H2SO4	HNO	HCI	Methanol	+ **	GRO	MTBE				24-bours	Standard			Sample Poin Con	t Lat/Long a aments	ind
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- 11	Custody Seals In Place: Yo	s (No)	<u> </u> T	emp	p Bla	ank: Y	es/(vo) Co	oler	Temp	on R	eceip	<u> </u>	~ °F	/C		Tri	p Blan	k: Y	3/N	<u>)</u>	V	AS/N	ISD San	iple Submitted: Y	es/N	
					-																					

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO REC. BY (PRINT) A.M. WORKORDER: MOK 0841 CIRCLE THE APPROPRIATE RESPONSE		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	11/29/07		echa antine		For Regula DRING WAST X OTHE	itory Purposes? KING WATER E WATER R
CINCLE THE AFTROPHIATE RESPUNSE	LAB SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION		рН	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
Custody Seal(s) Present / Appent								
Intagt / Broken*								
2. Chain-of-Custody Present / Absent*								
3. Traffic Reports or								
Packing List: Present / Algent							_	/
4. Airbill: Airbill / Sticker								
Present / Algent		-						
5, Airbill #	<u> </u>					*****	7	
6. Sample Labels: Present / Absent							**	
7. Sample IDs: Listed / Not Listed					,			
ол Chain-of-Custody			, ,					
8. Sample Condition: Infant / Broken* /			1/	-		\$		
Leaking*			7.0					
9. Does Information on chain-of-custody,			2006	N	****			
traffic reports and sample labels		7.	4,00	<i>y.</i>				
agree? Yes / No*		•	\sqrt{r}					
10. Sample received within			.\\\\	***************************************			· · · · · · · · · · · · · · · · · · ·	
hold time? Ye) / No*								
11. Adequate sample volume				<u> </u>				
received? Yes / No*								
12. Proper preservatives used? (e) / No*								
13. Trip Blank / Temp Blank Received?	-3%							
(circle which, if yas) Yes / (No*								
14, Read Temp:								, , , , , , , , , , , , , , , , , , ,
Correction Factor:								
Corrected Temp:		/.						
Is corrected temp. 0-6°C? Yes /(No/*		,, ,, 			1			Š
**Exception (if any): Metals / Perchlorate								
DFF on Ice or Problem COC And Days	Z							

SAMPLERECEIPTLOG Revision 9 (10/26/07) *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.





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.





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 Rec	eived: 11/2	26/07 16:	20			***********************************	
Gasoline Range Organics (C4-C12)	2600	50	ug/l	1	7K28035	11/28/07	11/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		118 %	60-13	50	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	75-13	30	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	55-13	30	"	"	"	"	
11132WINF (MQK0741-02) Water	Sampled: 11/26/07	13:00 Rec	eived: 11/2	26/07 16:	20				
Gasoline Range Organics (C4-C12)	570	50	ug/l	1	7K28035	11/28/07	11/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-15	50	11	"	"	"	***************************************
Surrogate: Dibromofluoromethane		100 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		103 %	75-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	55-13	30	"	"	"	"	





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 Rec	eived: 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	n	11		n	н	11	
tert-Butyl alcohol	420	100	н	"	н	н	II	"	
Di-isopropyl ether	ND	2.5	н	U	н	11	11	H .	
Ethyl tert-butyl ether	ND	2.5	11	"	н	**	u u	Н	
Ethylbenzene	110	2.5	**	"	"	н	н	**	
Methyl tert-butyl ether	230	2.5	н		н	11	11	11	
Toluene	180	2.5	н	н	10	11	11	н	
Xylenes (total)	560	2.5	11	11	11	1)		tt	
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		"	"	"	n	
11132WINF (MQK0741-02) Water	Sampled: 11/26/07	13:00 Rec	eived: 11/2	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	n	11	11	11	u	it	
tert-Butyl alcohol	620	20	н	н	11	11	0	n	
Di-isopropyl ether	ND	0.50	11	H	H	"	н	n	
Ethyl tert-butyl ether	ND	0.50	"	н	n	н	II .	Ħ	
Ethylbenzene	24	0.50	н	11	11	11	11	II .	
Methyl tert-butyl ether	93	0.50	11	11	**	n .	н	n	
Foluene	22	0.50	11	n	н	н	11	**	
Xylenes (total)	77	0.50	tt .	"	11	11	11	11	
Surrogate: Dibromofluoromethane		100 %	75-1.	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-13	50	"	"	"	"	
Surrogate: Toluene-d8		103 %	75-12	20	"	"	"	n	
		98 %	55-13		"	n	"	"	





Project: BP Heritage #11132, Oakland, CA

Spike

Source

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741 Reported: 12/10/07 15:48

RPD

%REC

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

Reporting

		Reporting		Spike	Source		70KEC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K28035 - EPA 5030B P/T / I	LUFT GCMS									
Blank (7K28035-BLK1)				Prepared	& Analyze	ed: 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-I	BS2)			Prepared a	& Analyze	d: 11/28/	07			
Gasoline Range Organics (C4-C12)	435	50	ug/l	500		87	55-130			
Surrogate: 1,2-Dichloroethane-d4	2.46		11	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 (7K28	035-BSD2)			Prepared o	& Analyze	d: 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: M	QK0797-01		Prepared a	& Analyze	d: 11/28/0	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: M	QK0797-01		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	
Currogate: 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			





Analyte

Project: BP Heritage #11132, Oakland, CA

Spike

Level

Source

Result

%REC

%REC

Limits

RPD

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741 Reported: 12/10/07 15:48

Notes

RPD

Limit

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

Units

Reporting

Limit

Result

Analyte	Kesuit	Linnt	Onts	Levei	Resuit	70KEC	Limits	KFD	Lillit	Notes
Batch 7K28035 - EPA 5030B P/T /	EPA 8260B									
Blank (7K28035-BLK1)				Prepared a	& Analyze	d: 11/28/	07			
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	11							
tert-Butyl alcohol	ND	20	ti .							
Di-isopropyl ether	ND	0.50	0							
Ethyl tert-butyl ether	ND	0.50	o o							
Ethylbenzene	ND	0.50	н							
Methyl tert-butyl ether	ND	0.50	н							
Toluene	ND	0.50	0							
Xylenes (total)	ND	0.50	17							
Surrogate: Dibromofluoromethane	2.46		"	2.50		98	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.58		#	2.50		103	60-150			
Surrogate: Toluene-d8	2.42		"	2.50		97	75-120			
Surrogate: 4-Bromofluorobenzene	2.30		"	2.50		92	55-130			
Laboratory Control Sample (7K28035	-BS1)			Prepared 6	& Analyze	d: 11/28/	07			
tert-Amyl methyl ether	10.2	0.50	ug/l	10.0		102	75-125			
Benzene	9.63	0.50	11	10.0		96	75-120			
tert-Butyl alcohol	213	20	н	200		107	80-120			
Di-isopropyl ether	9.59	0.50	0	10.0		96	70-130			
Ethyl tert-butyl ether	10.2	0.50	11	10.0		102	75-130			
Ethylbenzene	10.3	0.50	н	10.0		103	80-125			
Methyl tert-butyl ether	10.1	0.50	#	10.0		101	80-130			
Toluene	9.91	0.50	11	10.0		99	80-120			
Xylenes (total)	31.6	0.50	11	30.0		105	80-125			
Surrogate: Dibromofluoromethane	2.56		"	2.50		102	75-130			***************************************
Surrogate: 1,2-Dichloroethane-d4	2.43		"	2.50		97	60-150			
Surrogate: Toluene-d8	2.62		"	2.50		105	75-120			
Surrogate: 4-Bromofluorobenzene	2.50		"	2.50		100	55-130			





Project: BP Heritage #11132, Oakland, CA

Project Number: G07TS-0038

MQK0741 Reported: 12/10/07 15:48

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

Project Manager: Jay Johnson

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

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

Matrix Spike (7K28035-MS1)	Source: MQ	K0797-01		Prepared	& Analyze	ed: 11/28.	/07			
tert-Amyl methyl ether	11.1	0.50	ug/l	10.0	ND	111	75-140			
Benzene	10.0	0.50	*1	10.0	0.120	99	80-120			
tert-Butyl alcohol	232	20	н	200	ND	116	80-125			
Di-isopropyl ether	10.1	0.50	н	10.0	ND	101	75-135			
Ethyl tert-butyl ether	10.7	0.50	н	10.0	ND	107	80-135			
Ethylbenzene	10.3	0.50	17	10.0	ND	103	75-130			
Methyl tert-butyl ether	10.7	0.50	u	10.0	ND	107	75-145			
Toluene	10,2	0.50	н	10.0	0.360	99	80-125			
Xylenes (total)	31.5	0.50	11	30.0	0.340	104	75-125			
Surrogate: Dibromofluoromethane	2.57		"	2.50		103	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.54		"	2.50		102	60-150			
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: MQ	K0797-01		Prepared:	11/28/07	Analyze	d: 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	n	10.0	0.120	98	80-120	0.4	20	
tert-Butyl alcohol	231	20	н	200	ND	115	80-125	0.3	25	
Di-isopropyl ether	9.97	0.50	n	10.0	ND	100	75-135	1	25	
Ethyl tert-butyl ether	10.4	0.50	н	10.0	ND	104	80-135	3	25	
Ethylbenzene	10.4	0.50	н	10.0	ND	104	75-130	0.9	20	
Methyl tert-butyl ether	9.97	0.50	н	10.0	ND	100	75-145	7	25	
Methyl tert-butyl ether Toluene	9.97 10.3	0.50 0.50	"	10.0 10.0	ND 0.360	100 99	75-145 80-125	7 0.6	25 25	
, ,										
Toluene	10.3	0.50	"	10.0	0.360	99	80-125	0.6	25	
Toluene Xylenes (total)	10.3 31.7	0.50	11	10.0 30.0	0.360	99 104	80-125 75-125	0.6	25	
Toluene Xylenes (total) Surrogate: Dibromofluoromethane	10.3 31.7 2.65	0.50	H H	10.0 30.0 2.50	0.360	99 104 <i>106</i>	80-125 75-125 75-130	0.6	25	





Project: BP Heritage #11132, Oakland, CA

Spike

Source

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0741 Reported: 12/10/07 15:48

RPD

%REC

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

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7L01001 - EPA 5030B P/T /	EPA 8260B									
Blank (7L01001-BLK1)				Prepared a	& Analyze	d: 12/01/	07			
tert-Amyl methyl ether	ND	0.50	ug/l					*************		
Benzene	ND	0.50	u							
tert-Butyl alcohol	ND	20	11							
Di-isopropyl ether	ND	0.50	or or							
Ethyl tert-butyl ether	ND	0.50	н							
Ethylbenzene	ND	0.50	11							
Methyl tert-butyl ether	ND	0.50	н							
Toluene	ND	0.50	10							
Xylenes (total)	ND	0.50	41							
Surrogate: Dibromofluoromethane	2.53		"	2.50		101	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.73		"	2.50		109	60-150			
Surrogate: Toluene-d8	2.47		"	2.50		99	75-120			
Surrogate: 4-Bromofluorobenzene	2.42		"	2.50		97	55-130			
Laboratory Control Sample (7L01001-	-BS1)			Prepared &	& Analyze	d: 12/01/0)7			
ert-Amyl methyl ether	11.6	0.50	ug/l	10.0		116	75-125			
Benzene	10.8	0.50	н	10.0		108	75-120			
ert-Butyl alcohol	195	20	11	200		98	80-120			
Di-isopropyl ether	11.1	0.50	n	10.0		111	70-130			
Ethyl tert-butyl ether	11.1	0.50	11	10.0		111	75-130			
Ethylbenzene	11.2	0.50	н	10.0		112	80-125			
Methyl tert-butyl ether	10.6	0.50	"	10.0		106	80-130			
l'oluene	10.4	0.50	Ħ	10.0		104	80-120			
Xylenes (total)	33.5	0.50	ti.	30.0		112	80-125			
Surrogate: Dibromofluoromethane	2.58		"	2.50		103	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.48		"	2.50		99	60-150			
Surrogate: Toluene-d8	2.52		"	2.50		101	75-120			
Surrogate: 4-Bromofluorobenzene	2.59		"	2.50		104	55-130			





Project: BP Heritage #11132, Oakland, CA

Source

%REC

Project Number: G07TS-0038 Project Manager: Jay Johnson

MQK0741 Reported: 12/10/07 15:48

RPD

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

		Reporting		Spike	Source		/orcec		KLD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7L01001 - EPA 5030B P/T / E	EPA 8260B									
Matrix Spike (7L01001-MS1)	Source: M	QK0823-02		Prepared	& Analyz	ed: 12/01/	07			
tert-Amyl methyl ether	13.5	0.50	ug/l	10.0	ND	135	75-140			
Benzene	12.5	0.50	11	10.0	ND	125	80-120			LN
tert-Butyl alcohol	228	20	11	200	ND	114	80-125			
Di-isopropyl ether	13.3	0.50	11	10.0	ND	133	75-135			
Ethyl tert-butyl ether	13.4	0.50	н	10.0	ND	134	80-135			
Ethylbenzene	12.5	0.50	н	10.0	ND	125	75-130			
Methyl tert-butyl ether	48.9	0.50	D	10.0	36.3	126	75-145			
Toluene	11.8	0.50	11	10.0	ND	118	80-125			
Xylenes (total)	38.0	0.50	11	30.0	0.160	126	75-125			LN
Surrogate: Dibromofluoromethane	2.57		"	2.50		103	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.65		"	2.50		106	60-150			
Surrogate: Toluene-d8	2.43		"	2.50		97	75-120			
Surrogate: 4-Bromofluorobenzene	2.55		"	2.50		102	55-130			
Matrix Spike Dup (7L01001-MSD1)	Source: M	QK0823-02		Prepared	& Analyze	ed: 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	н	10.0	ND	122	80-120	3	20	LM
tert-Butyl alcohol	216	20	11	200	ND	108	80-125	6	25	
Di-isopropyl ether	13.1	0.50	н	10.0	ND	131	75-135	1	25	
Ethyl tert-butyl ether	13.2	0.50	н	10.0	ND	132	80-135	2	25	
Ethylbenzene	12.3	0.50	11	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	u	10.0	ND	116	80-125	2	25	
Xylenes (total)	37.0	0.50	11	30.0	0.160	123	75-125	2	20	
Surrogate: Dibromofluoromethane	2.67		"	2.50		107	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.77		"	2.50		111	60-150			
Surrogate: Toluene-d8	2.50		"	2.50		100	75-120			
Surrogate: 4-Bromofluorobenzene	2.51		n	2.50		100	55-130			





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

Atlant	tic
Atlant Rich	field
Comp	any

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):

	4-4-2	 -
S	F>	

On-site Time: 0480	Temp:	
Off-site Time: 1700	Temp:	
ky Canditians:	: :	
Meteorological Events:		
Wind Speed:	Direction:	

Lab Name: TestAmerica	BP/AR Facility No.: 11132	Consultant/Contractor: Stratus Environmental, Inc.				
Address: 885 Jarvis Drivo	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) 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 Ramod, CA	Sub Phase/Task: 03-Analytical	E-mail EDD To: shayes@stratusinc.net				
Tele/Fax: 925-299-8891/ 925-299-8872	Cost Element: Subcontractor Cost	Invoice to: Atlantic Richfield Co.				
Lab Bottle Order No: Matrix	Preservative Requested Analysis	Turnaround Time				
	Hoso, of Containers Unpreserved Hoso, Hos	Sample Point Lat/Long and Comments				
1 11132 WINE 0810 168 X	01 5	5 Oxygenates = MTBE, DIPE				
1 11132WINE 0810 13 以 2 11132WINE 310 164 X	025 X XXX	TBA, ETBE, and TAME				
3						
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9						
10						
Sampler's Name: Chris Hill	Bringashed By / Affiliation Date Time	/ Accepted By / Affiliation Date Time				
Sampler's Company: Stratus Environmental, Inc.	Mally 5the 1200 1890	(TAMH) 11/24/07 1500				
Shipment Date: 1 (26.07)	121-11 1620	11/260/1670				
Shipment Method:	199					
Shipment Tracking No:						
Special Instructions: Please on results to bo	edf@broadbentinc.com					
•						
Custody Seals In Place: Yes / No. Temp Blank: Ye	28 (No) Cooler Temp on Receipt: 2-% F/C Trip Blank:	Yes /(No)) MS/MSD Sample Submitted: Yes / No)				

TEST AMERICA SAMPLE RECEIPT LOG

	Parketta Britania menderangan menderakan dan kelabahan berangan berangan berangan berangan berangan berangan b			LOG	Sarana a	PERMITTAN SERVICES	· · · · · · · · · · · · · · · · · · ·	
CLIENT NAME: NOID		DATE REC'D AT LAB;	11/260					
REC. BY (PRINT)		TIME REC'D AT LAB:	1620		For Regulatory Purposes? DRINKING WATER			
WORKORDER:MQ kD 3	74	DATE LOGGED IN:	11 27	A 72				
	_			0 7		ο		E WATER
CIRCLE THE APPROPRIATE R	CODOMOT 1					7.112 N	<u>श्चरित्र</u> OTHE	R
	ESPONSE LAB SAMPLE#	CLIENT ID	CONTAINER		pН	SAMPLE	DATE	REMARKS:
Custody Seal(s) Present /			DESCRIPTION	VATIVE	h.,	MATRIX	SAMPLED	CONDITION (ETC.)
Intact / B	. ,							
Chain-of-Custody Present / Traffic Reports or	Aosenc	-						
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Present /	Absent							
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7. Sample IDs: sted / N]				
	of-Custody		رن	,		/		
8. Sample Condition: opact / Br	roken*/		ુલ€ ,	N	\nearrow			
Leaking*				5.1		·		
9. Does Information on chain-of-co			11 3	' /				
traffic reports and sample label	T			/ 				
agree? (Ye	e / No*							
10. Sample received within								
	s / No*							
11. Adequate sampte volume				 -				
received?	8 / No*							
12. Proper preservatives used? Ye	s/No*		· ·					
13. Trip Blank / Temp Blank Received	13 ~ 44.8							
	8/10				 -			
14. Read Temp: 3. 8								
Correction Factor: - 1 0								
Corrected Temp: 2.8		/	-	·				
	No**	/ 						
**Exception (if any): Metals / Perchic					\dashv			
DFF on Ice or Problem COC					-			Ĭ,
**************************************			Section Contract Cont	1800 T 1800 X 1800	2250000			
SAMPLERECE/PTLOG	"IF CIRC	LED, CONTACT PROJEC	T MANAGER A	ND ATTA	CH R	ECORD O	F RESOLUT	ION.

SAMPLERECEIPTLOG Revision 9 (10/26/07)

Page _ _ of _ _



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]	Project: BP Heritage #11132, Oakland, CA	MQK0792
3330 Cameron Park Dr., Suite 550	Project Number: G07TS-0038	Reported:
Cameron Park CA, 95682	Project Manager: Jay Johnson	12/12/07 09:51

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.





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: 11/26/0	7 18:30 Rec	eived: 11/2	7/07 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 %	60-15	0	"	11	"	n	
Surrogate: Dibromofluoromethane		102 %	75-13	10	"	"	"	"	
Surrogate: Toluene-d8		105 %	75-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	55-13	0	"	"	n	"	
11132WINF (MQK0792-02) Water	Sampled: 11/27/0'	7 08:00 Rec	eived: 11/2	7/07 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 %	60-15	0	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	75-13	0	"	"	"	"	
Surrogate: Toluene-d8		101 %	75-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	55-13	0	"	"	"	"	
11132WINF (MQK0792-03) Water	Sampled: 11/27/07	7 12:45 Rec	eived: 11/2	7/07 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 %	60-15	0	"	"	"	"	
Surrogate: Dibromofluoromethane		113 %	75-13	0	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	55-13	0	"	"	"	"	





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	Note
11132WINF (MQK0792-01) Water	Sampled: 11/26/07	18:30 Rec	eived: 11/2	7/07 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	11	11	"	н	11	TI .	
tert-Butyl alcohol	610	20	0	11	n	U	H	11	
Di-isopropyl ether	ND	0.50	н	н	**	11	н	н	
Ethyl tert-butyl ether	ND	0.50	и	11	H	ti	11	11	
Ethylbenzene	31	0.50	11	н	"	н	11	n	
Methyl tert-butyl ether	150	0.50	**	"	It	н	11	u .	
Toluene	23	0.50	н	17	н	11	н	H	
Xylenes (total)	83	0.50	n	H				ti .	
Surrogate: Dibromofluoromethane		102 %	75-13	0	n	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-15	0	n	"	"	"	
Surrogate: Toluene-d8		105 %	75-12	0	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	55-13	0	"	"	"	"	
11132WINF (MQK0792-02) Water	Sampled: 11/27/07	08:00 Rec	eived: 11/2	7/07 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	11	н	"	**	11	11	
tert-Butyl alcohol	460	20	11	11	n	н	n n	u	
Di-isopropyl ether	ND	0.50	н	н	11	U	н	н	
Ethyl tert-butyl ether	ND	0.50	н	11	0	U	11	11	
Ethylbenzene	81	0.50	11	н	n	U	11	11	
						II.		"	
Methyl tert-butyl ether	100	0.50	11	11	U	.,	"		
Methyl tert-butyl ether Toluene	100 27	0.50 0.50	11	11	"	н	n	н	
· · · · · · · · · · · · · · · · · · ·									
Toluene	27	0.50	11	u u	n	н		н	
Toluene Xylenes (total)	27	0.50 0.50	lt It	0	H	н	н	11	
Toluene Xylenes (total) Surrogate: Dibromofluoromethane	27	0.50 0.50 101 %	75-13	" 0 0	n n	H H	n n	n n	





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 Rec	eived: 11/2	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	n	н	11	11	10	n	
tert-Butyl alcohol	1500	20	ü	11	0	**		ti	
Di-isopropyl ether	ND	0.50	н	н	11	н	11	n .	
Ethyl tert-butyl ether	ND	0.50	11	11	11	н	н	11	
Ethylbenzene	8.2	0.50	11	н	11	11	11	Ħ	
Methyl tert-butyl ether	37	0.50	н	U	11	n	11	Ħ	
Toluene	10	0.50	н	11	11	u	tr	II .	
Xylenes (total)	25	0.50	n .		н	н	н	11	
Surrogate: Dibromofluoromethane		113 %	75-13	30	"	"	n	"	
Surrogate: 1,2-Dichloroethane-d4		102 %	60-13	50	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-12	20	n	"	n	"	
Surrogate: 4-Bromofluorobenzene		98 %	55-13	30	"	"	"	n	





Project: BP Heritage #11132, Oakland, CA

Spike

Source

%REC

Project Number: G07TS-0038 Project Manager: Jay Johnson

MQK0792 Reported: 12/12/07 09:51

RPD

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

Reporting

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
L		Limit	Onto	20101	rooun	/01/11/	Dillita	IG D	Lilli	140108
Batch 7K28035 - EPA 5030B P/T / I	LUFT GCMS									
Blank (7K28035-BLK1)				Prepared	& Analyze	ed: 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-l	3S2)			Prepared	& Analyze	d: 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 (7K28	035-BSD2)			Prepared a	& Analyze	d: 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: M	QK0797-01		Prepared 6	& Analyze	d: 11/28/0	07			
Gasoline Range Organics (C4-C12)	590	50	ug/l	550	91.2	91	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.54		11	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: M	QK0797-01		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			





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
Batch 7K28035 - EPA 5030B P/	T / EPA 8260B					, , , , ,		IGB	Ennt	rotes
Blank (7K28035-BLK1)				Prepared	& Analyze	ed: 11/28/	07			
4 - 4 A 1 1 - 1 1	3.155	0.50								

Blank (7K28035-BLK1)				Prepared & An	alyzed: 11/28.	/07
tert-Amyl methyl ether	ND	0.50	ug/l			
Benzene	ND	0.50	11			
tert-Butyl alcohol	ND	20	н			
Di-isopropyl ether	ND	0.50	n			
Ethyl tert-butyl ether	ND	0.50	н			
Ethylbenzene	ND	0.50	11			
Methyl tert-butyl ether	ND	0.50	"			
Toluene	ND	0.50	н			
Xylenes (total)	ND	0.50	0			
Surrogate: Dibromofluoromethane	2.46		"	2.50	98	75-130
Surrogate: 1,2-Dichloroethane-d4	2.58		"	2.50	103	60-150
Surrogate: Toluene-d8	2.42		"	2.50	97	75-120
Surrogate: 4-Bromofluorobenzene	2.30		"	2.50	92	55-130
Laboratory Control Sample (7K28035-BS1)				Prepared & Ana	alyzed: 11/28/	707
tert-Amyl methyl ether	10.2	0.50	ug/l	10.0	102	75-125
Benzene	9.63	0.50	н	10.0	96	75-120
tert-Butyl alcohol	213	20	11	200	107	80-120
Di-isopropyl ether	9.59	0.50	tr	10.0	96	70-130
Ethyl tert-butyl ether	10.2	0.50	n	10.0	102	75-130
Ethylbenzene	10.3	0.50	0	10.0	103	80-125
Methyl tert-butyl ether	10.1	0.50	н	0.01	101	80-130
Toluene	9.91	0.50	**	10.0	99	80-120
Xylenes (total)	31.6	0.50	11	30.0	105	80-125
Surrogate: Dibromofluoromethane	2.56		"	2.50	102	75-130
Surrogate: 1,2-Dichloroethane-d4	2.43		"	2.50	97	60-150
Surrogate: Toluene-d8	2.62		"	2.50	105	75-120
Surrogate: 4-Bromofluorobenzene	2.50		"	2.50	100	55-130





Project: BP Heritage #11132, Oakland, CA

Project Number: G07TS-0038

MQK0792 Reported: 12/12/07 09:51

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

Project Manager: Jay Johnson

		Reporting		Spike	Source		%REC		RPD	1
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Matrix Spike (7K28035-MS1)	Source: MQ	K0797-01		Prepared	& Analyze	ed: 11/28	/07			
tert-Amyl methyl ether	11.1	0.50	ug/l	10.0	ND	111	75-140			***************************************
Benzene	10.0	0.50	17	10.0	0.120	99	80-120			
tert-Butyl alcohol	232	20	41	200	ND	116	80-125			
Di-isopropyl ether	10.1	0.50	11	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	н	10.0	ND	103	75-130			
Methyl tert-butyl ether	10.7	0.50	11	10.0	ND	107	75-145			
Toluene	10.2	0.50	"	10.0	0.360	99	80-125			
Xylenes (total)	31.5	0.50	н	30.0	0.340	104	75-125			
Surrogate: Dibromofluoromethane	2.57		"	2.50		103	75-130		,	
Surrogate: 1,2-Dichloroethane-d4	2.54		"	2.50		102	60-150			
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: MQ	K0797-01		Prepared:	11/28/07	Analyze	d: 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	11	10.0	0.120	98	80-120	0.4	20	
tert-Butyl alcohol	231	20	н	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	11	10.0	ND	104	80-135	3	25	
Ethylbenzene	10.4	0.50	0	10.0	ND	104	75-130	0.9	20	
Methyl tert-butyl ether	9.97	0.50	н	10.0	ND	100	75-145	7	25	
Toluene	10.3	0.50	н	10.0	0.360	99	80-125	0.6	25	
Xylenes (total)	31.7	0.50	н	30.0	0.340	104	75-125	0.6	20	
Surrogate: Dibromofluoromethane	2.65		"	2.50		106	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.44		"	2.50		98	60-150			
Surrogate: Toluene-d8	2.58		"	2.50		103	75-120			
Surrogate: 4-Bromofluorobenzene	2.54		"	2.50		102	55-130			





Project: BP Heritage #11132, Oakland, CA

MQK0792 Reported:

Project Number: G07TS-0038 Project Manager: Jay Johnson

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

A 8P affiliated company

Chain of Custody Record

Project Name:

ARCO Facility No. 2105 11137_

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):

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On-site Time: 0400	Тетр:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

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TEST AMERICA SAMPLE RECEIPT LOG

	CLIENT NAME:	MO 5 2		DATE DECOD AT LAD			9956: 55, ts	Constitution of Assertion of the Constitution		
+	REC. BY (PRINT)	ARCO 11132		DATE REC'D AT LAB:	11127/87					tory Purposes?
Ĭ	WORKORDER:	Mak0792		TIME REC'D AT LAB:	<u> </u>				DRINH	UNG WATER
1	TORROADER:	MUNU HIL		DATE LOGGED IN:	11 280	7			WAST	E WATER
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	CIRCLE THE APPRO	OPRIATE RESPONSE	LAB	CLIENT ID	CONTAINER		рH	SAMPLE	DATE	REMARKS:
<u> </u>			SAMPLE#		DESCRIPTION	VATIVE	hti	MATRIX	SAMPLED	CONDITION (ETC.)
7.	Custody Seal(s)	Present / Appent								
_		Intact / Broken*								
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3.	Traffic Reports or			<u> </u>						
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10.	Sample received with		***************************************		110	~				
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11.	Adequate sample vol									
	received?	Fee / No*								
12	Proper preservatives	used? Yes / No*								•
13.	. Trip Blank / Temp Bla	ank Received?	-3-4							
	(circle which, if yes)	Yes (No)								
14.	Read Temp:	_5.3°	7						<u> </u>	
	Correction Factor:	-1.0								
	Corrected Temp:	H-3°01								
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			W. Drawers		700 200 00 00 00 00 00 00 00 00 00 00 00	0.794 (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	1 72 A17 SAX	*** 700%-710(C) 100****	**************************************	

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

Page___uf__!



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.





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.





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	Note:
11132WINF (MQK0818-01) Water	Sampled: 11/27/07	7 17:30 Rec	eived: 11/2	28/07 17:	25				
Gasoline Range Organics (C4-C12)	330	50	ug/l	1	7K30013	11/30/07	12/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-15	50	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	75-130 "			"	"	"	
Surrogate: Toluene-d8		104 %	75-120 "			n	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	55-13	80	"	"	"	"	
11132WINF (MQK0818-02) Water	Sampled: 11/28/07	7 08:00 Rec	eived: 11/2	8/07 17:	25				
Gasoline Range Organics (C4-C12)	360	50	ug/l	1	7K30013	11/30/07	12/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		109 %	60-15	0	"	"	"	"	7.1111
Surrogate: Dibromofluoromethane		106 %	75-13	80	"	"	"	"	
Surrogate: Toluene-d8		106 %	75-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	55-13	0	"	"	"	"	
11132WINF (MQK0818-03) Water	Sampled: 11/28/07	13:30 Rec	eived: 11/2	8/07 17:	25				
Gasoline Range Organics (C4-C12)	470	50	ug/l	1	7K30013	11/30/07	12/01/07	LUFT GCMS	- 100
Surrogate: 1,2-Dichloroethane-d4		103 %	60-15	0	"	"	11	"	
Surrogate: Dibromofluoromethane		104 %	75-13	0	"	"	"	"	
Surrogate: Toluene-d8		106 %	% 75-120 " " " "			"			
Surrogate: 4-Bromofluorobenzene		103 %	55-13	0	"	"	"	"	





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	Note
11132WINF (MQK0818-01) Water	Sampled: 11/27/0	7 17:30 Rec	eived: 11/2	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	н	H	u	"	н	u	
tert-Butyl alcohol	1700	20	10	10	н	н	н	н	
Di-isopropyl ether	ND	0.50	**	Ħ	H	0	11	n .	
Ethyl tert-butyl ether	ND	0.50	н	11	п	**	н	н	
Ethylbenzene	6.3	0.50	10		11	11	U	**	
Methyl tert-butyl ether	47	0.50	"	*1	11	11	n	n	
Toluene	5.1	0.50	и	н	н	н	11	Ħ	
Xylenes (total)	16	0.50	11	11	**	11	"		
Surrogate: Dibromofluoromethane		101 %	75-13	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-15	50	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	55-13	80	"	n	"	"	
11132WINF (MQK0818-02) Water	Sampled: 11/28/07	7 08:00 Rec	eived: 11/2	8/07 17:2	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	R	н	"	"	н	41	
tert-Butyl alcohol	1000	20	н	11	н	11	9	H	
Di-isopropyl ether	ND	0.50	If	11	н	"	н	II .	
Ethyl tert-butyl ether	ND	0.50	н	II .	11	и	n n	н	
Ethylbenzene	24	0.50		11	u u	u	н	II .	
Methyl tert-butyl ether	57	0.50	н	н	н	н	11	**	
Toluene	21	0.50	11	"	11		"	•	
Xylenes (total)	110	0.50	н	н	н	н	11	н	
Surrogate: Dibromofluoromethane		97 %	75-13	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	60-15	0	"	"	"	"	
Surrogate: Toluene-d8		100 %	75-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	55-13	0	"	"	"	"	





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	Note
11132WINF (MQK0818-03) Water	Sampled: 11/28/07	13:30 Rec	eived: 11/2	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	0	**	II.	11	н	11	
tert-Butyl alcohol	280	20	11	"	0	11	11	u	
Di-isopropyl ether	ND	0.50	н		11	11	u	n	
Ethyl tert-butyl ether	ND	0.50	н	**	11	н	H.	и	
Ethylbenzene	19	0.50	11	17	11	16	н	**	
Methyl tert-butyl ether	84	0.50	11	n	n	11	11	н	
Toluene	16	0.50	н	H	n n	**	11	11	
Xylenes (total)	93	0.50	"	"	н	н	н	11	
Surrogate: Dibromofluoromethane		104 %	75-1.	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-13	50	"	"	"	"	
Surrogate: Toluene-d8		106 %	75-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	55-13	30	"	"	"	"	





Project: BP Heritage #11132, Oakland, CA

Spike

Source

Project Number: G07TS-0038 Project Manager: Jay Johnson

MQK0818 Reported: 12/13/07 11:29

RPD

%REC

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

1		Reporting		Spike	Source		70KEC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7K30013 - EPA 5030B P/T /]	LUFT GCMS									
Blank (7K30013-BLK1)				Prepared	& Analyz	ed: 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 (7K30013-1	BS2)			Prepared a	& Analyze	ed: 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 (7K30	013-BSD2)			Prepared &	& Analyze	ed: 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		n	2.50		106	55-130			
Matrix Spike (7K30013-MS1)	Source: Mo	QK0819-02		Prepared &	& Analyze	d: 11/30/0)7			
Gasoline Range Organics (C4-C12)	33100	2500	ug/l	27500	8420	90	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.50		11	2.50		100	60-150			
Surrogate: Dibromofluoromethane	2.50		"	2.50		100	75-130			
Surrogate: Toluene-d8	2.63		n	2.50		105	75-120			
Surrogate: 4-Bromofluorobenzene	2.59		"	2.50		104	55-130			
Matrix Spike Dup (7K30013-MSD1)	Source: MO	QK0819-02		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		n	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			





4.1. #1/20012 ED / #020D D/F / ED / 04/0D

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

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

MQK0818 Reported: 12/13/07 11:29

Cameron Park CA, 95682

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

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

Project Manager: Jay Johnson

Blank (7K30013-BLK1)				Prepared & Ar	nalyzed: 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	17				
Ethyl tert-butyl ether	ND	0.50	н				
Ethylbenzene	ND	0.50	**				
Methyl tert-butyl ether	ND	0.50	н				
Toluene	ND	0.50	11				
Xylenes (total)	ND	0.50	**				
Surrogate: Dibromofluoromethane	2.50		"	2.50	100	75-130	
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50	100	60-150	
Surrogate: Toluene-d8	2.50		"	2.50	100	75-120	
Surrogate: 4-Bromofluorobenzene	2.50		"	2.50	100	55-130	
Laboratory Control Sample (7K30013-l	BS1)			Prepared & An	nalyzed: 11/30/	07	
tert-Amyl methyl ether	11.6	0.50	ug/l	10.0	116	75-125	
Benzene	10.1	0.50	III	10.0	101	75-120	
tert-Butyl alcohol	224	20	н	200	112	80-120	
Di-isopropyl ether	10.6	0.50	11	10.0	106	70-130	
Ethyl tert-butyl ether	11.2	0.50	н	10.0	112	75-130	
Ethylbenzene	10.7	0.50	11	10.0	107	80-125	
Methyl tert-butyl ether	11.3	0.50	11	10.0	113	80-130	
Toluene	10.5	0.50	11	10.0	105	80-120	
Xylenes (total)	32.2	0.50	11	30.0	107	80-125	
Surrogate: Dibromofluoromethane	2.59		"	2.50	104	75-130	
Surrogate: 1,2-Dichloroethane-d4	2.66		"	2.50	106	60-150	
Surrogate: Toluene-d8	2.55		"	2.50	102	75-120	
Surrogate: 4-Bromofluorobenzene	2.60		"	2.50	104	55-130	





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

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

Matrix Spike (7K30013-MS1)	Source: MO	K0819-02		Prepared a	& Analyze	ed: 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	н	10000	ND	111	80-125			
Di-isopropyl ether	490	25	11	500	ND	98	75-135			
Ethyl tert-butyl ether	522	25	11	500	ND	104	80-135			
Ethylbenzene	789	25	11	500	274	103	75-130			
Methyl tert-butyl ether	2980	25	н	500	2520	92	75-145			BE
Toluene	570	25	10	500	70.0	100	80-125			
Xylenes (total)	1770	25	10	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: MQ	K0819-02		Prepared:	11/30/07	Analyze	d: 12/01/07			
tert-Amyl methyl ether	576	25	ug/l	500	71.5	101	75-140	6	25	
Benzene	2760	25	n	500	2470	57	80-120	0.4	20	BB, EY
tert-Butyl alcohol	11000	1000	11	10000	ND	110	80-125	0.9	25	
Di-isopropyl ether	476	25	п	500	ND	95	75-135	3	25	
Ethyl tert-butyl ether	504	25	н	500	ND	101	80-135	3	25	
Ethylbenzene	790	25	11	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	н	500	70.0	99	80-125	0.9	25	
Xylenes (total)	1800	25	0	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			





Project: BP Heritage #11132, Oakland, CA

Spike

Source

%REC

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0818 Reported: 12/13/07 11:29

RPD

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

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7L05008 - EPA 5030B P/T / EPA	8260B									
Blank (7L05008-BLK1)				Prepared	& Analyze	ed: 12/05/	07			
tert-Amyl methyl ether	ND	0.50	ug/l							***************************************
Benzene	ND	0.50	н							
tert-Butyl alcohol	ND	20	11							
Di-isopropyl ether	ND	0.50	н							
Ethyl tert-butyl ether	ND	0.50	11							
Ethylbenzene	ND	0.50	н							
Methyl tert-butyl ether	ND	0.50	**							
Toluene	ND	0.50	II .							
Xylenes (total)	ND	0.50	н							
Surrogate: Dibromofluoromethane	2.50		"	2.50		100	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.66		"	2.50		106	60-150			
Surrogate: Toluene-d8	2.46		"	2.50		98	75-120			
Surrogate: 4-Bromofluorobenzene	2.24		"	2.50		90	55-130			
Laboratory Control Sample (7L05008-BS1)				Prepared &	& Analyze	d: 12/05/0)7			
tert-Amyl methyl ether	10.3	0.50	ug/l	10.0		103	75-125			
Benzene	10.4	0.50	11	10.0		104	75-120			
ert-Butyl alcohol	184	20	n	200		92	80-120			
Di-isopropyl ether	10.9	0.50	**	10.0		109	70-130			
Ethyl tert-butyl ether	11.0	0.50	н	10.0		110	75-130			
Ethylbenzene	10.8	0.50	11	10.0		108	80-125			
Methyl tert-butyl ether	10.1	0.50	н	10.0		101	80-130			
Γoluene	9.98	0.50	0	10.0		100	80-120			
Xylenes (total)	32.5	0.50	н	30.0		108	80-125			
Surrogate: Dibromofluoromethane	2.52		"	2.50		101	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.73		"	2.50		109	60-150			
Surrogate: Toluene-d8	2.50		"	2.50		100	75-120			
Surrogate: 4-Bromofluorobenzene	2.51		"	2.50		100	55-130			





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

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

Batch 7	7L05008 -	EPA 5030B P/T /	EPA 8260B

Matrix Spike (7L05008-MS1)	Source: MQ	K0798-02		Prepared	& Analyze	ed: 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	н	200	5.85	89	80-125			
Di-isopropyl ether	10.4	0.50	н	10.0	ND	104	75-135			
Ethyl tert-butyl ether	10.6	0.50	n	10.0	ND	106	80-135			
Ethylbenzene	9.99	0.50	н	10.0	0.120	99	75-130			
Methyl tert-butyl ether	17.0	0.50	11	10.0	6.76	102	75-145			
Toluene	9.55	0.50	н	10.0	ND	96	80-125			
Xylenes (total)	28.4	0.50	н	30.0	0.130	94	75-125			
Surrogate: Dibromofluoromethane	2.55		"	2.50		102	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.68		"	2.50		107	60-150			
Surrogate: Toluene-d8	2.57		"	2.50		103	75-120			
Surrogate: 4-Bromofluorobenzene	2.53		"	2.50		101	55-130			
Matrix Spike Dup (7L05008-MSD1)	Source: MQ	K0798-02		Prepared	& Analyze	d: 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	11	10.0	0.620	100	80-120	3	20	
tert-Butyl alcohol	192	20	н	200	5.85	93	80-125	4	25	
Di-isopropyl ether	10.7	0.50	н	10.0	ND	107	75-135	3	25	
Ethyl tert-butyl ether	11.2	0.50	н	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	н	10.0	ND	100	80-125	4	25	
Xylenes (total)	30.5	0.50	0	30.0	0.130	101	75-125	7	20	
Surrogate: Dibromofluoromethane	2.47		"	2.50		99	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.53		"	2.50		101	60-150			
Surrogate: Toluene-d8	2.49		"	2.50		100	75-120			
Surrogate: 4-Bromofluorobenzene	2.64		"	2.50		106	55-130			



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

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

Project: BP Heritage #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

A BP affiliated company

Chain of Custody Record

Project Name:

ARCO Facility No. 113

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: 0500	Темр:	
Off-site Time: 1900	Тетр:	
Sky Conditions:	•	
Meteorological Byents:		
Wind Speed:	Direction;	

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TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ADD 1113 REC. BY (PRINT) DAL. WORKORDER: MQ CIRCLE THE APPROPRIATE RESPO	KOघाठ	DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	11 28 07 1725 1 29		,		DRINK WAST OTHE	
	SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION		рH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
Custody Seal(s) Present / Abset								
Intect / Broken					7.7/			
2. Chain-of-Gustody Present / Abso	आरं*	·						
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agree? (as)/ N	o*							
10. Sample received within					-,			
hold time? (res) / N	0*							
11. Adequate sample volume								:
received? ~ (ec/N								
12. Proper preservatives used? (Ye) / N	D*							
13. Trip Blank / Temp Blank Received?	7 7204							
(circle which, if yes) Yes / N	ற		<u> </u>					
14, Read Temp: ધ. હ				Ī				
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Corrected Temp: 3.4								
Is corrected temp. 0-6°C? Yes No	0**							
**Exception (if any): Metals / Perchlorate								
DFF on Ice or Problem COC	- 2							

"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.





Project: BP Heritage #11132, Oakland, CA

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0849 Reported: 12/13/07 16:48

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.





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
11132WINF (MQK0849-01) Water	Sampled: 11/28/07	18:00 Rec	eived: 11/	29/07 17:	:50				
Gasoline Range Organics (C4-C12)	520	50	ug/l	1	7L03001	12/03/07	12/03/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-1	50	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	75-1	30	"	"	"	"	
Surrogate: Toluene-d8		101 %	75-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	55-1	30	"	"	"	"	





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

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 Benzene 24 0.50 " " " " " tert-Butyl alcohol 190 20 " " " "	11	EPA 8260B	
Benzene 24 0.50 " " " "	11		1.40
2. 0.50		,,	
tert. Butyl alcohol 100 20 " " " "			
tert-Butyr alcohol		н	
Di-isopropyl ether ND 0.50 " " " "	11	"	
Ethyl tert-butyl ether ND 0.50 " " " "	н	11	
Ethylbenzene 18 0.50 " " "	н	11	
Methyl tert-butyl ether 110 0.50 " " "	u	"	
Toluene 13 0.50 " " "	н	"	
Xylenes (total) 88 0.50 " " "	11	n	
Surrogate: Dibromofluoromethane 100 % 75-130 " "	"	"	
Surrogate: 1,2-Dichloroethane-d4 110 % 60-150 " "	"	"	
Surrogate: Toluene-d8 101 % 75-120 " "	"	"	
Surrogate: 4-Bromofluorobenzene 102 % 55-130 " "	"	n	





Project: BP Heritage #11132, Oakland, CA

Spike

Source

Project Number: G07TS-0038 Project Manager: Jay Johnson

MQK0849 Reported: 12/13/07 16:48

RPD

%REC

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

!		Reporting		Бріке	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7L03001 - EPA 5030B P/T /]	LUFT GCMS									
Blank (7L03001-BLK1)				Prepared	& Analyze	ed: 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		11	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 (7L03001-1	BS2)			Prepared a	& Analyze	ed: 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 (7L03	001-BSD2)			Prepared a	& Analyze	d: 12/03/0	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		n	2.50		100	55-130			
Matrix Spike (7L03001-MS1)	Source: M	QK0850-03		Prepared &	& Analyze	d: 12/03/0)7			
Gasoline Range Organics (C4-C12)	508	50	ug/l	550	ND	92	25-150			
Surrogate: 1,2-Dichloroethane-d4	2.55		11	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: M	QK0850-03		Prepared &	& Analyze	d: 12/03/0)7			
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			





Project: BP Heritage #11132, Oakland, CA

Spike

Source

%REC

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0849 Reported: 12/13/07 16:48

RPD

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

Analyte	Result	Limit	Units	Level	Result	%REC	%REC Limits	DBD	KPD Umda	Mar
		Diffill	Omts	revel	Result	70KEC	Limis	RPD	Limit	Notes
Batch 7L03001 - EPA 5030B P/T	EPA 8260B									
Blank (7L03001-BLK1)				Prepared a	& Analyze	ed: 12/03/	07			
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	n							
tert-Butyl alcohol	ND	20	11							
Di-isopropyl ether	ND	0.50	u u							
Ethyl tert-butyl ether	ND	0.50	8							
Ethylbenzene	ND	0.50	11							
Methyl tert-butyl ether	ND	0.50	н							
Toluene	ND	0.50	U							
Xylenes (total)	ND	0.50	н							
Surrogate: Dibromofluoromethane	2.15		"	2.50		86	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.51		"	2.50		100	60-150			
Surrogate: Toluene-d8	2.36		"	2.50		94	75-120			
Surrogate: 4-Bromofluorobenzene	2.28		"	2.50		91	55-130			
Laboratory Control Sample (7L03001	-BS1)			Prepared &	& Analyze	d: 12/03/0)7			
ert-Amyl methyl ether	10.7	0.50	ug/l	10.0		107	75-125			
Benzene	10.9	0.50	11	10.0		109	75-120			
ert-Butyl alcohol	191	20	н	200		96	80-120			
Di-isopropyl ether	10.1	0.50	н	10.0		101	70-130			
Ethyl tert-butyl ether	10.7	0.50	н	10.0		107	75-130			
Ethylbenzene	11.0	0.50	11	10.0		110	80-125			
Methyl tert-butyl ether	10.5	0.50	н	10.0		105	80-130			
oluene	10.4	0.50	11	10.0		104	80-120			
(ylenes (total)	33.2	0.50	н	30.0		111	80-125			
'urrogate: Dibromofluoromethane	2.46		"	2.50		98	75-130			
'urrogate: 1,2-Dichloroethane-d4	2.40		"	2.50		96	60-150			
urrogate: Toluene-d8	2.52		"	2.50		101	75-120			
urrogate: 4-Bromofluorobenzene	2.52		"	2.50		101	55-130			





Project: BP Heritage #11132, Oakland, CA

Spike

Source

%REC

Project Number: G07TS-0038
Project Manager: Jay Johnson

MQK0849 Reported: 12/13/07 16:48

RPD

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

t Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Moto
							Dilling	Note
3								
e: MQK0850-03		Prepared	& Analyz	ed: 12/03/	07			
0.50	ug/l	10.0	ND	113	75-140	***************************************		
0.50	и	10.0	ND	104	80-120			
20	n	200	39.0	95	80-125			
0.50	11	10.0	ND	107	75-135			
0.50	u	10.0	ND	109	80-135			
0.50	п	10.0	ND	105	75-130			
0.50	11	10.0	0.110	102	75-145			
0.50	11	10.0	ND	99	80-125			
0.50	н	30.0	ND	107	75-125			
1	"	2.50	***************************************	105	75-130			
:	"	2.50		102	60-150			
	"	2.50		98	75-120			
	"	2.50		102	55-130			
: MQK0850-03		Prepared	& Analyze	d: 12/03/0	07			
0.50	ug/l	10.0	ND	114	75-140	1	25	
0.50	11	10.0	ND	98	80-120	6	20	
20	11	200	39.0	90	80-125	4	25	
0.50		10.0	ND	103	75-135	4	25	
0.50	11	10.0	ND	107	80-135	2	25	
0.50	н	10.0	ND	100	75-130	5	20	
0.50	58	10.0	0.110	104	75-145	2	25	
0.50	Ð	10.0	ND	95	80-125	4	25	
0.50	11	30.0	ND	100	75-125	6	20	
	"	2.50		102	75-130		11 11 11 11 11 11 11 11 11 11 11 11 11	
	"	2.50		106	60-150			
	"	2.50		97	75-120			
	"	2.50		100	55-130			
	: MQK0850-03 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	:: MQK0850-03	## MQK0850-03 Prepared 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.50 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.50 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.50 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.50 10.0 10.0 10.0 10.50 10.0 10.0 10.50 10.0 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.50 10.0 10.0 10.50 10.0 10.0 10.50 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.	## MQK0850-03 Prepared & Analyze	Prepared & Analyzed: 12/03/6	E: MQK0850-03 Prepared & Analyzed: 12/03/07 0.50	Prepared & Analyzed: 12/03/07 10.0 ND 113 75-140 10.50 " 10.0 ND 104 80-120 20 " 200 39.0 95 80-125 10.50 " 10.0 ND 107 75-135 10.50 " 10.0 ND 109 80-135 10.50 " 10.0 ND 105 75-130 10.50 " 10.0 ND 102 75-145 10.50 " 10.0 ND 99 80-125 10.50 " 30.0 ND 107 75-125 2.50 102 60-150 2.50 102 60-150 2.50 102 55-130 2.50 103 75-135 2.50 104 75-140 10.50 " 10.0 ND 98 80-120 2.50 " 2.50 39.0 90 80-125 2.50 " 2.50 39.0 90 80-125 2.50 " 2.50 98 75-120 2.50 " 30.0 ND 107 75-135 2.50 " 30.0 ND 107 75-135 2.50 " 30.0 ND 375-135 3.50 " 30.0 ND 375-125 3.50 " 30.0 ND 30.0 ND 30.0 ND 3.50 " 30.0 ND 30.0 ND 3.50 " 30.0 ND 30.0 ND 3.50 " 30.0 ND 30.0 ND 3.50 " 30.0 ND 30.0 ND 3.50 " 30.0 ND 30.0 ND 3.50 " 30.0 ND 30.0 ND 3.50 " 30.0 ND 3.50 " 30.0 ND 3.50 " 30.0 ND 3.50 " 30.0 ND 3.50 " 30.0 ND 3.50 " 30.0 ND 3.50 " 30.0 ND 3.50 " 30.0 ND 3.50 " 30.0 ND 3.50 " 30.0 ND 3.	Prepared & Analyzed: 12/03/07 1 0.50 ug/l 10.0 ND 113 75-140 1 0.50 " 10.0 ND 104 80-120 2 0 " 200 39.0 95 80-125 3 0.50 " 10.0 ND 107 75-135 0 0.50 " 10.0 ND 109 80-135 0 0.50 " 10.0 ND 105 75-130 0 0.50 " 10.0 ND 102 75-145 0 0.50 " 10.0 ND 99 80-125 0 0.50 " 10.0 ND 99 80-125 0 0.50 " 10.0 ND 107 75-125 " 2.50 102 60-150 " 2.50 98 75-120 EMQK0850-03 Prepared & Analyzed: 12/03/07 EMQK0850-03 Prepared & Analyzed: 12/03/07 EMQK0850-03 Prepared & Analyzed: 12/03/07 10.0 ND 98 80-125 4 25 0.50 " 10.0 ND 103 75-135 4 25 0.50 " 10.0 ND 103 75-135 4 25 0.50 " 10.0 ND 103 75-135 4 25 0.50 " 10.0 ND 107 80-135 2 25 0.50 " 10.0 ND 107 80-135 2 25 0.50 " 10.0 ND 100 75-130 5 20 0.50 " 10.0 ND 100 75-130 5 20 0.50 " 10.0 ND 95 80-125 4 25 0.50 " 10.0 ND 95 80-125 4 25 0.50 " 10.0 ND 100 75-125 6 20 " 2.50 " 10.0 ND 95 80-125 4 25 0.50 " 10.0 ND 100 75-130 5 20 0.50 " 10.0 ND 95 80-125 4 25 0.50 " 10.0 ND 95 80-125 4 25 0.50 " 10.0 ND 95 80-125 4 25 0.50 " 10.0 ND 95 80-125 6 20 " 2.50 " 2.50 106 60-150 " 2.50 " 75-130 " 2.50 " 75-130 " 2.50 " 75-130 " 2.50 " 75-120





Stratus Environmental Inc. [Arco] Project: BP Heritage #11132, Oakland, CA MQK0849
3330 Cameron Park Dr., Suite 550 Project Number: G07TS-0038 Reported:
Cameron Park CA, 95682 Project Manager: Jay Johnson 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



A BP affiliated company

Chain of Custody Record

Project Name:

ARCO Facility No.

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

Lab Name: TestAmerica						BP/AR Facility N	0		1113	2								Ç	ольи	Itani	l/Cor	utracto	NT.	:	Stratus Environme	tal, Inc.	
Address: 885 Jarvis Drive						BP/AR Facility A	ddre	s: 320	1 35d	Ava	nie, (Dakdao	ıd, C	A.				A	ddres	55.		3330	Cam	aero	m Park Drive, Su	ite 550	
Morgan Hill, CA 95937						Site Lat/Long:																Came	cron :	Par	k, CA 95682		
Lab PM: Lisa Race	,					California Global	ID N	a.:	T060	Ю100	213							C	onsul	ltant	t/Con	uracio	r Pro	ject	No.: E6106-01		
Tele/Fax: 408-782-8156/408-782-63	30					Enfos Project No.	:		G07	TS-00	38					7012		C	onsul	ltanı	VCon	tracto	r PM	f: Ja	y Johnson		
BP/AR PM Contact: Paul Supple		, = ,,				Provision or OOC	(cit	cle an	5)	Prov	vision	ı -						T	ele/Fa	ax.	1	(530)	676	-60	00 / (530) 676-6	05	
Address: 2010 Crow Canyon Place, Su	ite 150					Phase/WBS:		01-As	şesşm	eaut				-,				R	eport	Ту	pe &	QCL	evel:		Level 1	with EDF	
San Ramon, CA						Sub Phase/Task:		03-Ar	alytic	ı								E	-mail	ED	D To); S	hay	es(etratusinc.net		
Tele/Fax: 925-299-8891/925-299-883	72					Cost Element:		Subco	utact	or Cos	įt							In	(VO)ÓCE	e to:	Atk	antic I	Richt	ield	Co.		
Lab Bottle Order No:				Mat	rix				Ът	ezer y:	ative			Requ	ıeste	d A	nalysis			Ţu	FNET	ound	Time	e			
Item No. Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air	MQK-C849 Laboratory No.	No. of Containers	Unpreserved	H ₂ SO ₄	HNO3	HCI	Methanol		оно	BTEX	5-Oxygenates				24-hours	Standard				Sample Point Cosx	Lat/Long nents	g and
1 1/132 W INF	1800	H 28		X		Ø	牙				X-			刈					T		义	T	T	Ī	Oxygenates = N	ITBE, DI	lpe
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Sampler's Name: Chris	<i>4.11</i>	<u> </u>	<u> </u>				ngeis	hgel' By	/ Affij	iation	- 1		ᅦ))ate	1	T	ime	十	!	_!_	. L	ecente	d Bys	_ <u> </u> /_Afi	fillation	Date	Time
Sampler's Company: Stratus Enviro Shipment Date:	nmental,	Inc.				1-111	I.	,		Ser			Ti	12%	Zİ	69	30	Ti-	le	Z	24		7	-		11/20	087
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hipment Tracking No:	/Ł	V						~+		1									V	_							
ecial Instructions:		Please	co re	sults	to by	edf@broadbentin	c.c0	H1.	ζ.	7																	
1		<u> </u>																	_				***************************************				
Custody Seals In Place:)	res / 1/1g/	7 1 1	emp	Bla	nk: Y	es/No// Co	oler	Temp	on R	eccip	<u>t 1</u>	٠ ١ •	F/C		7	Trip :	Blank: Y	les/Y	(o)	1	M	S/MS	D Se	aonp	le Submitted: Ye	/ ON Je	
7	\cup									,															RP CAC I	ev 5 land	ranas

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	MOK0849		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	11129107 1780 1430 67		For Regulatory Purposes? DRINKING WATER WASTE WATER OTHER			
CIRCLE THE APPI	ROPRIATE RESPONSE	LAB SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION		рН	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent								
	Intact / Broken*								
2. Chain-of-Custody	P(esent / Absent*					***************************************			
Traffic Reports or	_		·						
Packing List:	Present / Atbeent								
4. Airbill:	Airbill / Sticker					·····		. /	
	Present / Absent								
5. Airbill #:									
6. Sample Labels:	Present / Absent					_			
7. Sample IDs:	Listed / Not Listed	•],	210			
	on Chain-of-Custody			- 1	114		/		
8. Sample Condition:	Intac / Broken* /			l L					
	Leaking*			101					
9. Does information on chain-of-custody,									
traffic reports and sample labels			4 9	58°	/ ,,				
agree?	Yea / No*								
Sample received wi				1/					
hold time?	Yell No*			<i>y</i>					
11. Adequate sample volume									
received?	(e / No*								
12. Proper preservatives used? (es / No*									
13. Trip Blank / Temp E		y <u>-</u>							
(circle which, if yes)	Yes /(Ng)								
14. Read Temp.	3.4°								
Correction Factor:	-1.0"								
Corrected Temp:	24"								
Is corrected temp. 0-6°C? (res) No**									
**Exception (if any): Metals / Perchlorate									
DFF on Ice or Probl	em COC								

SAMPLERECEIPTLOG Revision 9 (10/28/07) *IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

Paga____of___