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Atlantic Richfield Company (a BP affiliated company)

P.O. Box 1257 San Ramon, CA 94583 Phone: (925) 275-3801 Fax: (925) 275-3815

10 April 2007

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

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

Submitted by:

l Just

Paul Supple Environmental Business Manger



Prepared for:

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

SOIL & GROUND-WATER INVESTIGATION AND FIRST QUARTER 2007 GROUND-WATER MONITORING REPORT

Former BP Station #11124 3315 High Street Oakland, California

Prepared by:

BROADBENT & ASSOCIATES, INC. 1324 Mangrove Ave., Suite 212 Chico, California 95926 (530) 566-1400 www.broadbentinc.com

10 April 2007

Project No. 06-08-652



10 April 2007

Project No. 06-08-652

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

Attn.: Mr. Paul Supple

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

Dear Mr. Supple:

Broadbent & Associates, Inc. (BAI) is pleased to submit this *Soil & Ground-Water Investigation and First Quarter 2007 Ground-Water Monitoring Report* for Former BP Station #11124 (herein referred to as Station #11124) located at 3315 High Street, Oakland California (Site). This report presents a description of field activities conducted and analytical results obtained during installation of two new monitoring wells on the Site. This report also presents a summary of results from ground-water monitoring and sampling conducted during the First Quarter of 2007.

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

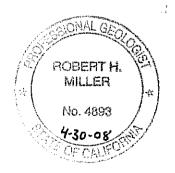
Sincerely, BROADBENT & ASSOCIATES, INC.

Thomas A. Venus Senior Engineer, P.E.

hat 7. The

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

Enclosures



Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)
 Ms. Shelby Lathrop, ConocoPhillips (Submitted via WebXtender)
 Electronic copy uploaded to GeoTracker

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ATTACHMENTS

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- Site Map with Monitor Well Locations, Former Station #11124, 3315 High Street, Drawing 2 Oakland, California
- Drawing 3 Ground-Water Elevation Contours and Analytical Summary Map, 13 March 2007, Former Station #11124, 3315 High Street, Oakland, California
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APPENDICES

- Stratus Well Installation Data Package (Includes Field Data Sheets, Laboratory Appendix A Analytical Reports with Chain-of-Custody Documentation, Lithologic Boring Logs, and Well Construction Logs)
- Appendix B Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets and Laboratory Analytical Reports with Chain-of-Custody Documentation)
- GeoTracker Upload Confirmation Reports Appendix C

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1.0 INTRODUCTION

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

2.0 SOIL & GROUND-WATER INVESTIGATION

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

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

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

2.1 Soil Borings

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

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

2.2 Soil Sampling

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

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

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

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

2.3 Monitoring Well Construction

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

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

2.4 Well Surveying and Development

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

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

2.5 Investigation-derived Residuals Management

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

3.0 GROUND-WATER MONITORING AND SAMPLING

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

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

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

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

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

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

	2/6/200	7 Well Sam	ples – Labor	atory Analy	tical Result	з (цg/L)	
Well ID	GRO	DRO	B		E	<u> </u>	MTBE
MW-1	<50		< 0.50	< 0.50	< 0.50	< 0.50	11
MW-2	<50		< 0.50	< 0.50	< 0.50	< 0.50	<0.50
MW-4	<50		< 0.50	< 0.50	< 0.50	< 0.50	<0.50
MW-5							-0.50
MW-6							

	3/13/200	7 Well Sam	ples – Labo	ratory Anal	ytical Resul	ts (ug/L)	
Well ID	GRO	DRO	В	T	E	X	MTBE
MW-1	****	<48					
MW-2	***	52					
MW-4		<49					
MW-5	880	<48	< 0.50	< 0.50	< 0.50	< 0.50	1,400
MW-6	86	<48	< 0.50	< 0.50	< 0.50	< 0.50	88

In addition, TAME was detected above the laboratory reporting limit in well MW-5 at a concentration of 6.5 micrograms per liter (μ g/L). The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the five wells sampled this quarter. Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well. Ground-water monitoring data (GEO_WELL files) and laboratory analytical results (EDFs) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix C.

The following data summarizes the quarterly monitoring information:

WORK PERFORMED THIS QUARTER (First Quarter 2007):

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

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2007):

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

QUARTERLY RESULTS SUMMARY:

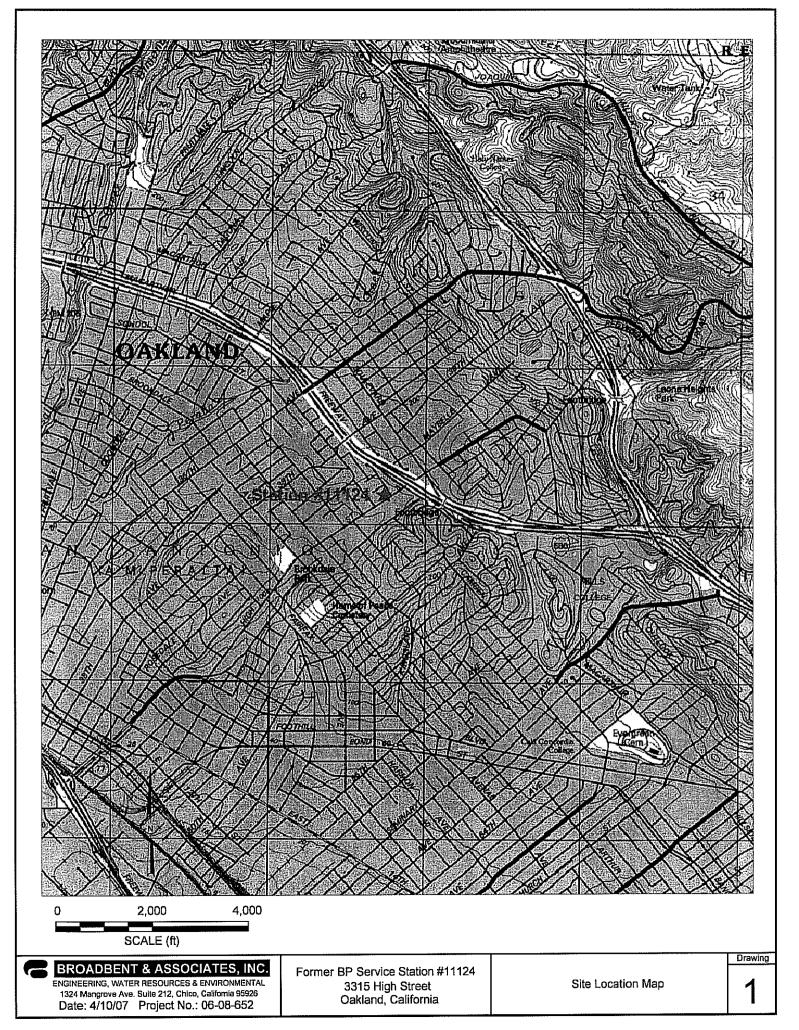
Current phase of project:	Ground-Water Monitoring/Sampling
Frequency of ground-water monitoring:	Quarterly: Wells MW-1, MW-2, MW-4, MW-5, MW-6
Frequency of ground-water sampling:	Quarterly: Wells MW-1, MW-2, MW-4, MW-5, MW-6
Is free product (FP) present on-site:	No
FP recovered this quarter:	None
Cumulative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

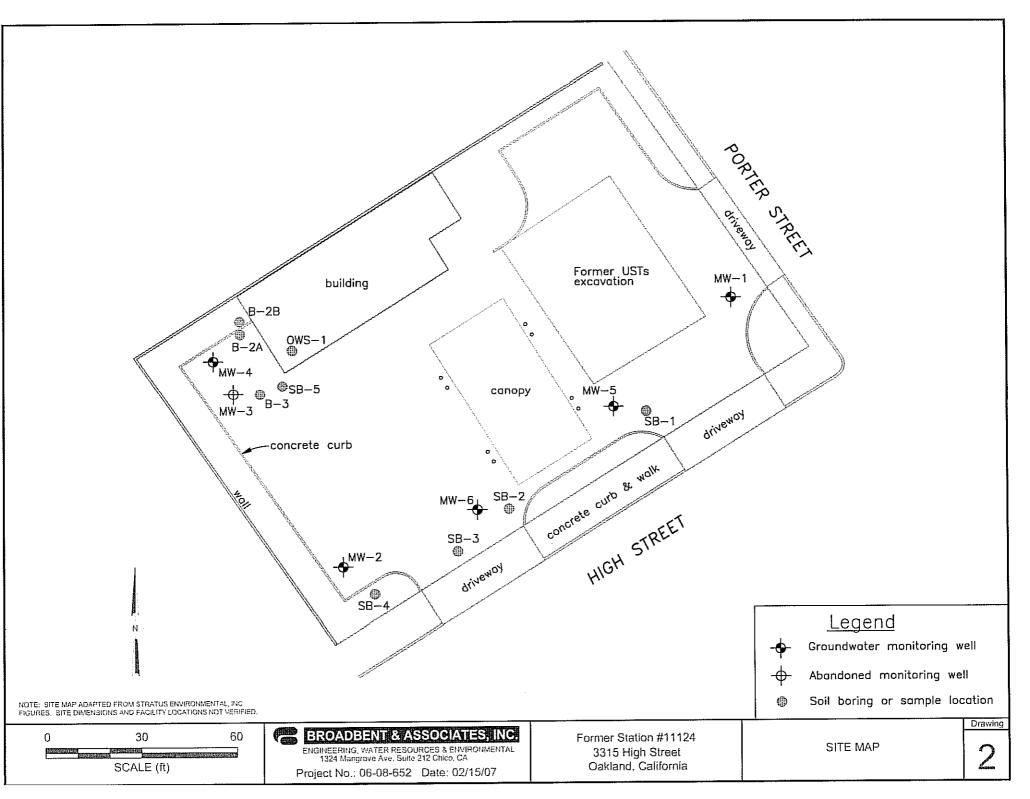
4.0 CONCLUSIONS AND RECOMMENDATIONS

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

5.0 CLOSURE

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





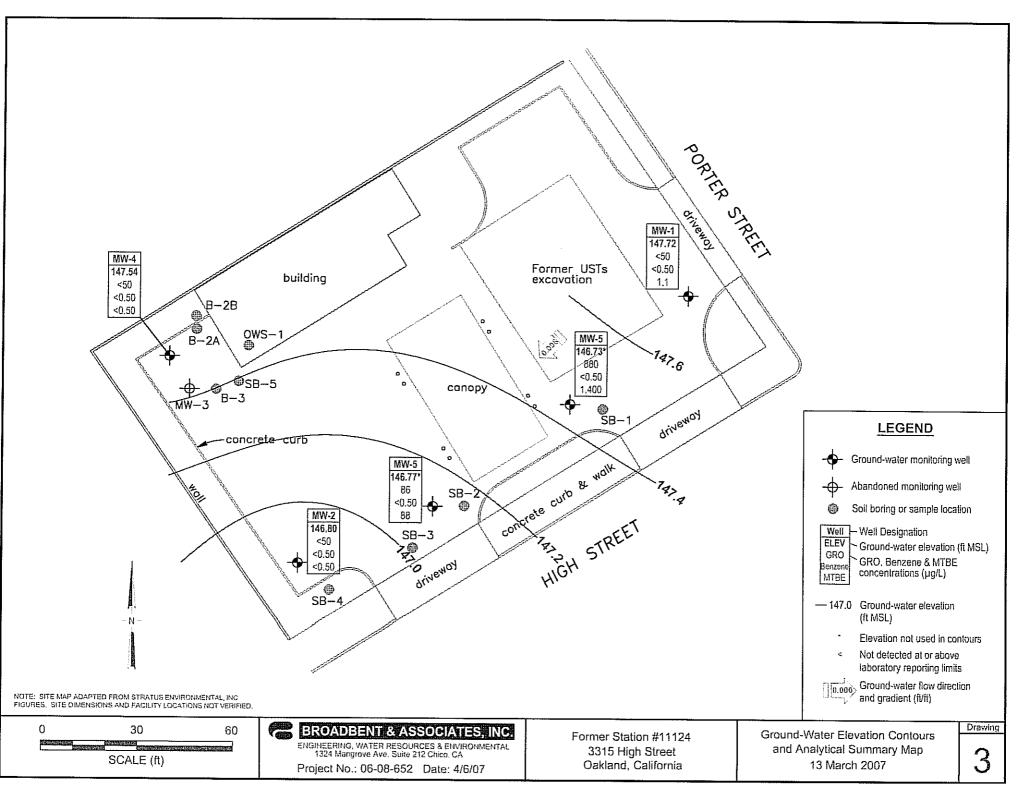


Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

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

			тос		Product	Water Level		C	oncentratio	ons in (µg/	L)					DRO/	
Well and			Elevation	DTW	Thickness	Elevation	GRO/			Ethyl-	Total		DO			TPHd	TOG
Sample Date	P/NP	Footnote	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluenc	Benzene	Xylenes	MtBE	(mg/L)	Lab	рН	(µg/L)	(μg/L
MW-1																	
10/19/2004	P		154.99	10.50		144,49	<50	<0.50	<0.50	<0.50	<0.50	14	0.96	SEQM	6,9		
01/13/2005	P		154.99	9.00		145.99	<50	<0.50	<0.50	<0.50	<0.50	33	2.5	SEQM	6.4		
02/24/2006	P		154.99	10.42		144.57	55	<0.50	<0.50	<0.50	<0,50	51		SEQM	6.8		
5/30/2006	Р		154.99	10.94		144.05	50	<0.50	<0.50	<0.50	<0.50	58		SEQM	6.6		
8/28/2006	P		-154.99	10.61		144.38	50	<0,50	<0.50	<0.50	<0.50	<0.50		TAMO	7.0		<u> </u>
11/2/2006	Р		154.99	10.83		144.16	<50	<0.50	<0.50	<0.50	<0.50	9.8	1.40	TAMC	6.99		
2/6/2007	P.	d	157:34	9,88		147.46	<50	<0.50	<0.50	<0.50	<0.50	1.1	2.76	TAMC	7,10		
3/13/2007	Р		157.34	9.62		147.72						-	2.63	TAMC	7.30	<48	
MW-2																	
10/19/2004		Ь	152.02	9.45		142,57											-
01/13/2005	P		152.02	6.43		145.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.47	SEQM	6.4		
02/24/2006	P		152.02	7.88		144,14	<50	<0.50	<0.50	-<0.50	<0.50	<0.50		SEQM	6.7	-	
5/30/2006	P	21121122217278+1000424984	152.02	7.98		144.04	<50	<0.50	<0.50	<0.50	<0.50	<0.50		SEQM	6.7	184 (MARCA STREE 1932)250	
8/28/2006	Р		152,02	9:38		142;64	<50	<0.50	<0.50 ii	<0.50	<0.50	<0.50		TAMC	6.7		l III
11/2/2006			152.02	9.85		142.17											
2/6/2007	P	d	154.35	8.40		145.95	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.10	TAMC	7.02		
3/13/2007	P		154.35	7.55		146.80		-		-			4.83	TAMC	7.17	52	
MW-4																	
10/19/2004	P. I.		152.77	9.55		143.22	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.82	SEQM	7.0		4
01/13/2005		a	152.77									-		-			
02/24/2006	P		152.77	7.86		144.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	-	SEQM	7.1		
5/30/2006	P	1997) +49997 (Mag and phone).	152.77	8.04		144.73	<50	<0.50	<0.50	<0.50	<0.50	<0.50		SEQM	6.9		
8/28/2006	P		152.77	9,36		.143.41	<50	<0.50	<0.50	<0.50	<0.50	16		TAMC	6.5		
11/2/2006	P		152.77	9.92		142.85	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.23	TAMC	6.79		
2/6/2007	P	d	155.10	8.40		146;70	<50	<0.50	<0,50	<0.50	<0.50	<0.50	1.43	TAMC	7.10		
3/13/2007	P		155.10	7.56		147.54	-						2.53	TAMC	7.18	<49	
MW-5																	
3/13/2007	P P	d	155.45	8.72		146.73	880	<0.50	<0.50	<0.50	<0.50	1,400	1.84	TAMC	7.36	<48	

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

			тос		Product	Water Level		Concentrations in (µg/L)						Concentrations in (µg/L)							DRO/	
Well and	Ì		Elevation	DTW	Thickness	Elevation	GRO/			Ethyl-	Tota]		DO			TPHd	TOG					
Sample Date	P/NP	Footnote	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MtBE	(mg/L)	Lab	pН	(µg/L)	(µg/L)					
MW-6							-															
3/13/2007	P	d	154.59	7.82		146.77	86	<0.50	<0.50	<0.50	<0.50	88	1.92	TAMC	7.21	<48						

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

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

FOOTNOTES:

a = Well inaccessible.

b = Well is dry.

- c = Hydrocarbon result for GRO partly due to individual peak(s) in quantitative range.
- d = Well survey by Morrow Surveying on 12/27/2006.

NOTES:

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

Values for DO and pH were obtained through field measurements.

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

Table 2. Summary of Fuel Additives Analytical Data

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

Well and				Concentratio	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-1									
10/19/2004	<100	<20	14	<0.50	E <0.50	<0.50	<0.50	<0.50	
01/13/2005	<100	<20	33	<0.50	<0.50	<0.50	<0.50	<0.50	
D2/24/2006	<300	<20	51	<0.50	<0,50	<0.50	<0.50	<0.50	
5/30/2006	<300	<20	58	<0.50	<0.50	<0.50	<0.50	<0.50	
8/28/2006	<300	<20	≪0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/2/2006	<300	<20	9.8	<0.50	<0.50	<0.50	<0.50	<0.50	
2/6/2007	<300	≪20	- 1.1	<0.50	<0.50	<0.50	<0,50	<0.50	
MW-2									
01/13/2005	<100	≪20	<0.50	<0.50	<0,50	<0.50	<0.50	<0.50	
02/24/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
5/30/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/28/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/6/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4									
10/19/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/24/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
5/30/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0:50	<0.50	
8/28/2006	<300	<20	16	<0.50	<0.50	<0.50	<0.50	<0.50	
(1/2/2006	<300	<20	<0.50	<0.50	<0,50	<0.50	<0,50	<0.50	
2/6/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5									
3/13/2007	3,000	<200	1,400	<5.0	~5 .0	6.5	<5.0	<5.0	
3/13/2007	300	<20	88	<0.50	<0.50	<0.50	<0.50	<0.50	

ABBREVIATIONS AND SYMBOLS: TBA = tert-Butyl alcohol MTBE = Methyl tert-butyl ether DIPE = Di-isopropyl ether ETBE = Ethyl tert-butyl ether TAME = tert-Amyl methyl ether 1,2-DCA = 1,2-Dichloroethane EDB = 1,2-Dibromomethane µg/L = micrograms per liter < = Not detected at or above laboratory reporting limit

NOTES:

All fuel oxygenate compounds are analyzed using EPA Method 8260B.

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

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
11/12/1990		
7/15/1991	Southwest	0.0174
10/15/1991	Southwest	
1/15/1992	South-Southwest	0.014
4/17/1992	South	
9/30/1992	South-Southwest	D , Q1 8
12/17/1992	North	
3/15/1993	South	0.007
10/19/2004	South-Southwest	0.022
1/13/2005		
2/24/2006	Southeast	
5/30/2006	East-Southeast	0.007
8/28/2006	South	0.012
11/2/2006	South	0.013
3/13/2007	Southwest	0.006

Table 3. Historical Ground-Water Flow Direction and Gradient Station #11124, 3315 High St., Oakland, CA

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

APPENDIX A

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



RECEIVED	
FEB 0 2 2007	1
BY:	

January 26, 2007

FEB 0 5 2007

ENTEL

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

Reno, Nevada 89502 Re: Well Installation Data Package, Former BP Service Station No. 11124, located at 3315 High Street, Oakland, California (utility locating and assessment activities

General Information

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

performed between November 20 and January 17, 2007)

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

Date:December 11, 2006Arrival: 07:45Departure: 15:30On-Site Supplier Representative:Scott BittingerScope of Work Performed:Air knifed holes for drilling eventVariations from Work Scope:None notedWeather Conditions:Not notedUnusual Field Conditions:None noted

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

Mr. Rob Miller, Broadbent & Associates Well Installation Data Package Former BP 11124, Oakland, CA Page 2

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

This submittal presents the data collected in association with the installation of two groundwater monitoring wells. The attachments include field data sheets, boring log, well details, well completion reports, and well installation permit. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

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

Jay R. Johnson, P. OF CALIFORNIA Project Manager

Attachments:

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

AND

Former BP 11124, Ocil(land Ousile 8:55 u/ avis from Guz Bulliers, Site is a closed down sorving station, Property is currently vacant. Afire Station (Engine 17) is directly across to street. Mw-less asphalt, Mw-5 could be place on concrete or applicated. (preferrally) Markboring for USA. No Balthown onsite worker may not be available Ath No visible signs of UST's in sound. Fuel pumps and removed. Hot work plennint & fine which shouldn't be reacted all S.R. 9:30. Sill Giltyn Status Environ mendal, Inc. 11-20-06

Former BP 11124, 3315 High St., Oakland 12-11-00

Onsile at 7:45 Det Airknift Clew aniver 8:10-8:15. Diskuy work 4H+5 issues Beg, ~ Vac-clearing at 9:00 at MW-6. Soil is fine grinned, so vac Cheering is stow i pridle 4 concelli pieces and mixed in with Hudint finish MW-4 clearing at 11:70 Mure lother-5. Begin at 11:45. Finish MW-5 location at 15:00

Offsik 15:30

SuttGAz

Stats Environmental, Inc.

Former BP # 11124 2-12-03 Onsite 7:40 for well installations. Drill crew late, arriving at 8:45 (diller's helper) + 9:55. Chiller wildfill sig). Dill MW-5 between 10.15+1:00. Paul S-My hom BP Ario, 4 Rob Miller hom Bradberd + Associates ensite dury adament of Wars , Boring was completed to 30' bigs, after observing weter in loyal sampler, Starts regrested that the drill crew rain the angen up to 26'655 10 alban In minutoring of recting. After maxim charl 0.8' rectange in about 2.5' min, we deade to screen MW-5 from 25-3'. Vick Hamlin, From Alamoda boundry observed Growtingof MW-5. Sho agked that the original copies of DwR packed be sent to them first, i then they will send 12 5 talk. Paul & Rob show to dolling of MW-6 Violi from Alamily boundy white 15:15 - 15:30. Drill My - 5 hickey 1:30+ 3:30. Well MW-S Solw / Samy Spece as MW-S 4 drums-soil Y drums - Water-soil- delvis mixtere. diam anent 10/1011 - devicent & Waters 2010m5 / msaly water N 451R1:00 Sign Silten Stadus Enviro.

STKA7US ENVIRONMENTAL, INC.

Original Site Address: <u>3315 High</u> ST. City <u>Childenel C4</u> Site Number: BP11124 Project No. Sampled By G. Wilkins / V. Zuluthan Project PM Date Sampled UL-L7-07 1.4.2

Site Con	tact Phon	e No.						(10x)) (Date	oampieu	01-11
	Water Le	evel Data	·····			Purge Vol	lume Calcu	lations			Well F	'urge M	lethod	Sa	mple Rec	cord	Field
		Depth to water	Screen	Total Depth of Well	Casing Water Column	Well Diameter		Volumes	Actual Water Purged	No				DTW At Sample	Sample	Sample	Data Dissolver
Well ID	Time	feet	feet	feet	(A)	(inches)	(B)	(gallons)	(gallons)	Purge	Bailer	Pump	Other	Time	I.D.	Time	(mg/L)
MW-5	0513	8.8		29.75		-		33.52	119	Dvy	X						
MW-G	0442	8.15		24,45	Z1,30			34,08	259	D.',	X	X					
										1				-			
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					ا س <i>ب</i> ہ												

MW-5 takes 18 min for Water to reach Correct measure

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(A) Casing water Column Depth wtr. Depth to Bottom Multiplier Values 2"=0.5[°] 4"=2.0 6"=4.4 т I.

Client	t	Former Bl	Statio	n #111	24		Date	e 12/12/2006				
Addre	255	3315 High				- Drillin		Woodward Drilling rig type: Mobile Drill B-57				
		Oakland,	Californ	ia		_	Driller	Jason/Chris				
Proje	ct No.	E-11124-0)1			_	Method	Hollow Stem Auger hole diam.: 8"				
Logge	ogged By: Scott Bittinger											
Well I	Pack	sand: 23	ft. to	30 ft.		Well C	Construction	casing: PVC screen interval: 25'-30'				
		bent.: 20 ft. to 23 ft.				-		casing diam.: 2" screen slot size: 0.02"				
		grout: 0	it. to :	20 ft.		_ De	epth to GW:	V first encountered groundwater Static groundwater				
			1			1	I .		T			
	ample	Blow		nple I	Well Constru	Depth	LITHO	Descriptions of Materials	PID			
Туре	No.	Count	Time	Recov.	ct.	Scale	COLUMN	and Conditions Asphalt surface	(PPM			
						_ 1						
		T										
		+				— ²						
						<u> </u>		fine grained fill soil with construction debris (bricks, rocks, concrete)				
						— ₄						
	·					3 						
		3				— ⁵						
		3						CLAYEY SAND, strong brown, 65% fine to coarse grained sand, 35%				
S	MW5-6	8	10:26	90		=	sc	clayey fines, moist				
	·					'			+			
						8 _ 8			. <u> </u>			
					•							
		4				<u>1</u> 0	sc	CLAYEY SAND, strong brown, 55% fine to coarse grained sand, 45%				
		14				8 		clayey fines, moist (10'-11')				
S	MW5-11	11	10:36	100					[
	·	+	+	 		<u>1</u> 2		SANDY CLAY, light olive brown, 85% clayey fines, 15% predominately fine grained sand, trace coarse grained sand, dry (11'-11.5')	<u> </u>			
				ļ		<u> </u>			<u> </u>			
						$ \begin{array}{c} \hline 1 \\ \hline 1 \\ \hline 1 \\ \hline 5 \\ \hline 1 \\ \hline 6 \\ \hline 1 \\ \hline 7 \\ \hline 1 \\ \hline 8 \\ \end{array} $			1			
		5		 		5						
		9				1 6						
S	MW5-16	13	10:53	100		<u> </u>	CL	CLAY with SAND, dark yellowish brown, 85-90% clay, trace silt, 10-15% fine to coarse grained sand, dry				
		+				<u> </u>			+			
		.		 	,							
						<u> </u>						
									1			
						2 0	SC	Comments: Sampled to 31.5' bgs, drilled to 30' bgs to complete well.	<u> </u>			
								STRATUS				
								ENVIRÓNMENTAL, INC.				

SOIL BORING LOG

Boring No. <u>MW-5</u>

Sheet 2 of 2

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

	Sample Blow Sample Well Denth						r			
	Sample	Blow Sample			Construc		LITHO	Descriptions of Materials		
Туре	No.	Count	Time	Recov.	t.	Scale	COLUMN	and Conditions	(PPM)	
		4					SC	CLAYEY SAND 20'-20.4', dark yellowish brown, 65% fine to coarse		
	101/5 04	9	14.00			2 1	CL	grained sand, 35% clayey fines, moist CLAY, light olive brown with iron oxide stains, <4% fine to coarse		
S	MW5-21	20	11:00	100				CLAY, light olive brown with iron oxide stains, <4% tine to coarse	2	
						2 2		grained sand, trace silt, moist (20.4'-21.5')		
						2 3				
						<u> </u>				
						4				
						i — "				
						_2 5				
	*************	7								
		10				6	CL	CLAY, dark yellowish brown, trace silt, <2% fine to coarse grained sand,	0	
S	MW5-26	13	11:10	100				moist		
						7				
					∇					
					, v	2 B				
			ļ			9				
						<u>3</u> 0 <u>3</u> 1				
						30	CL			
		8				<u> </u>		CLAY, dark yellowish brown, trace silt, <2% fine to coarse grained sand,	0	
S	MW5-31	<u>8</u> 12	11:35	100				moist		
3	101040-01	12	11:55	100						
						—				
						—				
			ł							
			********	****						
						<u> </u>				
			 							
	<u> </u>		I	L	l	I	I	Comments: Groundwater first observed between 25' and 30' bgs. Prior to	.L	
								selecting screening interval, the augers used to advance the borehole were		
								retracted from 30' to 26' bgs. Approximately 0.8' of groundwater recharge int	o the	
								borehole wasmeasured within approximately 2 minutes; Stratus subsequently		
								selected a screening interval of 25' to 30' bgs for the well.		
1										
L								1		

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Client	Former Bl	Statio	n #111	24		Date	12/12/2006				
Address	3315 High				- Drillin		Woodward Drilling rig type: Mobile Drill B-57				
	Oakland,				_		Jason/Chris				
Project No.	E-11124-()1			_	Method	l Hollow Stem Auger hole diam.: 8"				
Logged By:	Scott Bitti	nger			-		· · · · · · · · · · · · · · · · · · ·				
Well Pack	sand: 23	ft. to	30 ft		Well C	Construction	casing: PVC screen Interval: 25'-30'				
	bent.: 20	ft. to	23 ft.		-		casing diam.: 2" screen slot size: 0.02"				
	grout: 0 f				 D(epth to GW:					
					-						
Sample	Blow	Sa	mple	Well	Depth		Descriptions of Materials	PID			
Type No.	Count	Time	Recov.	Constru ct.	Scale	LITHO COLUMN	and Conditions	(PPM)			
							Asphalt surface				
			+		1						
					2						
							fine grained fill sell with construction debrin (bricks, racks, construct)				
					3 4 5		fine grained fill soil with construction debris (bricks, rocks, concrete)				
					4						
					— "						
	- 9	•	+	·							
	19				6	SC	CLAYEY SAND with GRAVEL, dark gray, 40% clayey fines, 50% fine to	3			
S MW6-6	20	20 13:47 90		_ "		coarse grained sand, 10% gravel (pieces exceed 2" in diameter), moist					
}		-		-	-'						
					8 <u> </u>						
				•							
					- "						
			ļ								
	7				<u> </u>	sc	CLAYEY SAND 10'-11.3', dark yellowish brown, 65-70% fine to coarse grained sand, 30-35% clayey fines, moist				
S MW6-11		13:55	100					174			
			<u>1</u> 2	CL	CLAY with SAND 11.3'-11.5', dark yellowish brown, 90-95% clayey fines, 5-10% fine to coarse grained sand, dry						
				<u> </u>		5-10% fine to coarse grained sand, dry					
					1 4						
					5						
	12										
S MW6-16	12	14:00	70			CL	SANDY CLAY, dark yellowish brown, 85% clayey fines, 15% fine to coarse	1			
	14	14.00			<u> </u>						
		• • • • • • • • • • • • • • • • • • • •			1 - 1 8						
					9						
					2 0						
					20	1	Comments: Sampled to 29' bgs, drilled to 30' bgs to complete well.				
							STRATUS ENVIRONMENTAL, INC.				

SOIL BORING LOG

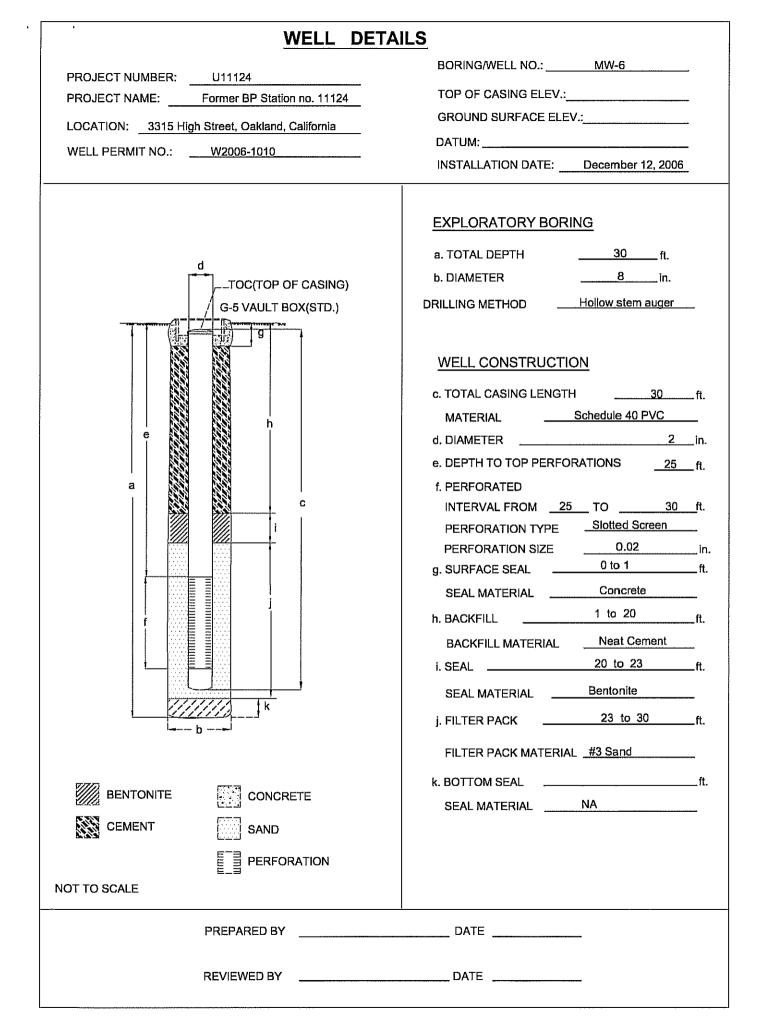
Boring No. <u>MW-6</u>

Sheet <u>2</u> of <u>2</u>

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

	Sample	Blow	Blow Sample			Depth	LITEO	Descriptions of Materials	PID
Туре	No.	Count	Time	Recov.		Scale	COLUMN	and Conditions	(PPM)
Туре S				Recov.	t.	Scale	CL	and Conditions CLAY with SAND, dark yellowish brown, 5-8% fine to medium grained sand, trace silt, trace manganese oxide staining, moist SANDY CLAY, dark yellowish brown, 15-20% fine to coarse grained sand, trace fine gravel, moist	(PPM) 0
S	MW6-28	3 6 16	14:30				SC	CLAYEY SAND 27.5'-28.6', 77% fine grained sand, 3% coarse grained sand, 20% clayey fines, damp CLAY 28.6'-29', dark yellowish brown, 3-5% fine to coarse grained sand, moist	

WELL DETA	ILS
PROJECT NUMBER: U11124	BORING/WELL NO.: MW-5
PROJECT NAME: Former BP Station no. 11124	TOP OF CASING ELEV.:
LOCATION: 3315 High Street, Oakland, California	GROUND SURFACE ELEV.:
WELL PERMIT NO.: <u>W2006-1009</u>	DATUM:
	INSTALLATION DATE:December 12, 2006
d -TOC(TOP OF CASING) G-5 VAULT BOX(STD.) 0 0	EXPLORATORY BORING a. TOTAL DEPTH 30 ft. b. DIAMETER 8 in. DRILLING METHOD Hollow stem auger WELL CONSTRUCTION c. TOTAL CASING LENGTH 30 ft. MATERIAL Schedule 40 PVC d. DIAMETER 2 in. e. DEPTH TO TOP PERFORATIONS 25 ft. f. PERFORATED INTERVAL FROM 25 TO 30 ft. PERFORATION SIZE 0.02 in. g. SURFACE SEAL 0 to 1 ft. SEAL MATERIAL Concrete h. BACKFILL h. BACKFILL 1 to 20 ft. j. FILTER PACK 23 to 30 ft. j. FILTER PACK MATERIAL Bentonite j. j. FILTER PACK MATERIAL X3 Sand ft. K. BOTTOM SEAL NA ft.
PREPARED BY	DATE
REVIEWED BY	DATE



CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

Alameda County Public Works Agency - Water Resources Well Permit

Contraction of the second	
Public	
CL.	

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

Application Approved on: 12/01/2006 By jamesy Permit Numbers: W2006-1009 to W2006-1010 Permits Valid from 12/12/2006 to 12/13/2006 Application Id: 1164931003388 City of Project Site:Oakland Site Location: 3315 High St. Oakland, CA 94619 Project Start Date: 12/12/2006 Completion Date:12/13/2006 Extension Start Date: 12/12/2006 Extension End Date: 12/13/2006 Extension Count: Extended By: vickyh1 Applicant: Stratus Environmental - Scott Bittinger Phone: 530-676-2062 3330 Cameron Park Dr #550, Cameron Park, CA 95682 **Property Owner:** BP ARCO Phone: 925-946-1085 4 Centerpointe Dr., La Palma, CA 90623 Client: ** same as Property Owner ** Total Due: \$600.00 Receipt Number: WR2006-0531 **Total Amount Paid:** \$600.00 PAID IN FULL Payer Name : Stratus Environmental Paid By: CHECK Works Requesting Permits: Well Construction-Monitoring-Monitoring - 2 Wells Driller: Woodward Drilling - Lic #: 710079 - Method: auger Work Total: \$600.00 Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2006- 100 9	12/01/2006	03/18/2007	MW-5	8.00 in.	2.00 in.	25.00 ft	40.00 ft
W2006- 1010	12/01/2006	03/18/2007	MW-6	8.00 in.	2.00 in.	25.00 ft	40.00 ft

Specific Work Permit Conditions

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

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

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

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

Alameda County Public Works Agency - Water Resources Well Permit

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

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

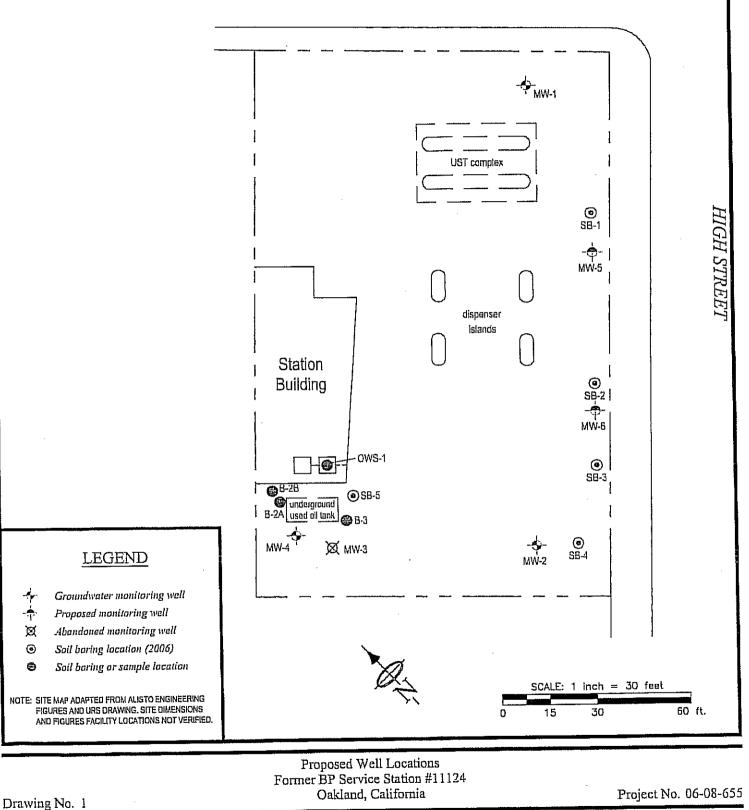
6. Minimum surface seal thickness is two inches of cement grout placed by tremie

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

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

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

PORTER STREET

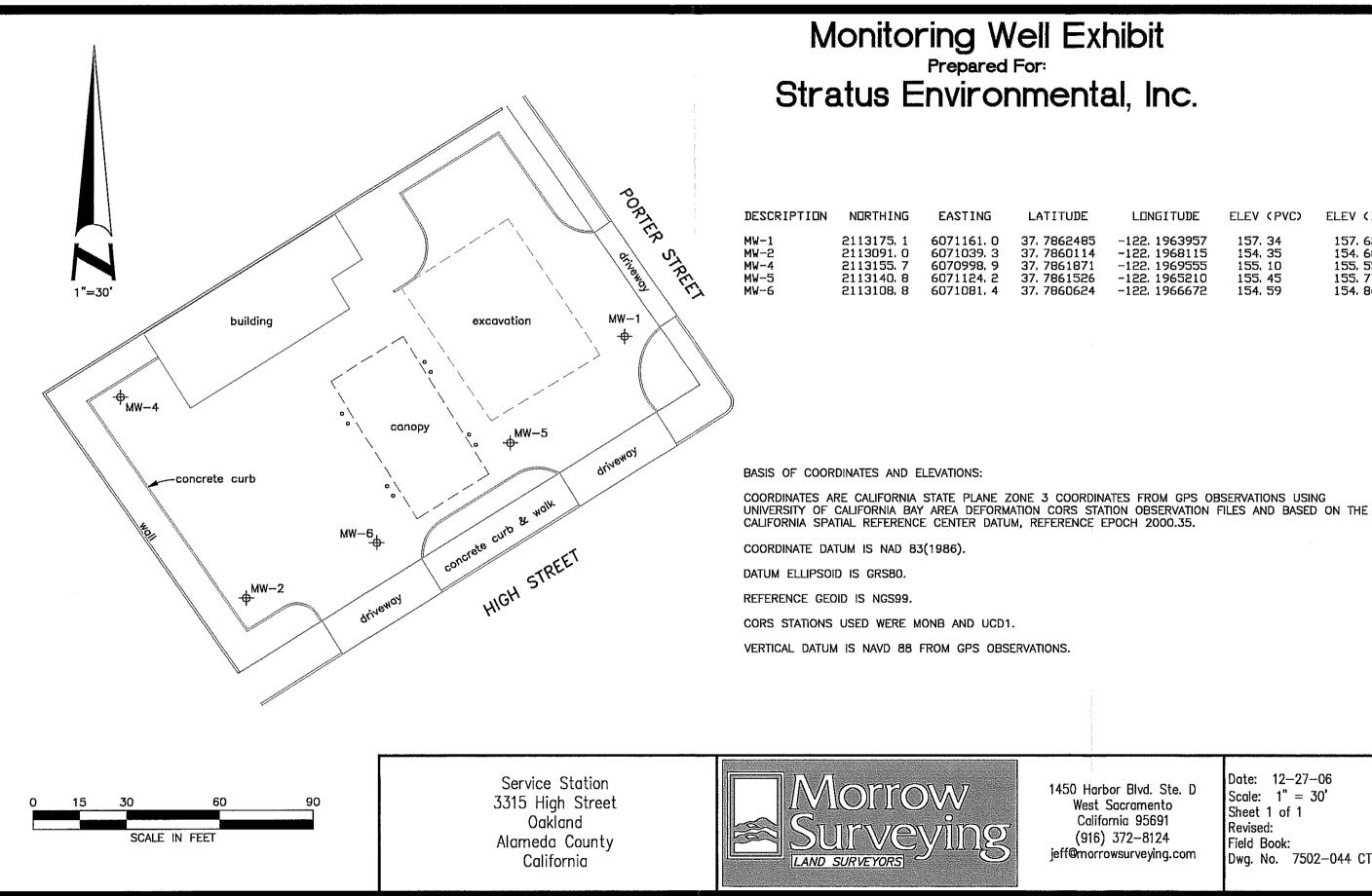


Prepared by: <u>JTG</u> Approved by: <u>TAV</u> Date: <u>11/03/200</u>6

File Name: Proposed Northin Yes Louriband. 1949

BROADBENT & ASSOCIATES, INC. Environmental, water resources & engineering consultants

e



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Ε	LONGITUDE	ELEV (PVC)	ELEV (BOX)
85	-122. 1963957	157. 34	157.62
14	-122. 1968115	154. 35	154.60
71	-122. 1969555	155. 10	155.55
26	-122. 1965210	155. 45	155.77
24	-122. 1966672	154. 59	154.86

1450 Harbor Blvd. Ste. D West Sacramento California 95691 (916) 372-8124 jeff@morrowsurveying.com Date: 12-27-06 Scale: 1" = 30' Sheet 1 of 1 Revised: Field Book: Dwg. No. 7502-044 CT



2 January, 2007

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

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

Enclosed are the results of analyses for samples received by the laboratory on 12/14/06 11:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race Senior Project Manager

CA ELAP Certificate # 1210

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

Page 1 of 16



MW6-28

12/14/06 11:00

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage Project Number: G099D-001 Project Manager: Jay Johnsor	4	d ,CA	MPL0517 Reported: 01/02/07 16:13
	ANALYTICAL REPORT FOR SAMP	LES		
Sample 1D	Laboratory ID	Matrix	Date Sampled	Date Received
MW5-11	MPL0517-01	Soil	12/12/06 10:36	12/14/06 11:00
MW5-21	MPL0517-02	Soil	12/12/06 11:00	12/14/06 11:00
MW5-31	MPL0517-03	Soil	12/12/06 11:35	12/14/06 11:00
MW6-11	MPL0517-04	Soil	12/12/06 13:55	12/14/06 11:00
MW6-21	MPL0517-05	Soil	12/12/06 14:10	12/14/06 11:00

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.

MPL0517-06

Soil

12/12/06 14:30

TestAmerica - Morgan Hill, CA



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682			oject: BP I mber: G09 1ager: Jay .	9D-0014		MPL0517 Reported: 01/02/07 16:13			
Το	tal Purgeabl Tes	e Hydro tAmeric		-		'A LUF	Г)		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Anaiyzed	Method	Note
MW5-11 (MPL0517-01) Soil Sampled	: 12/12/06 10:36	Received:	12/14/06 1	1:00					
Gasoline Range Organics (C4-C12)	ND	0,10	mg/kg	1	6L20025	12/20/06	12/20/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		94 %	55-1	35	11	п	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-1	20	ų	и	"	"	
Surrogate: Dibromofluoromethane		96 %	45-1	30	11	"	"	11	
Surrogate: Toluene-d8		98 %	70-1	20	n		н	"	
MW5-21 (MPL0517-02) Soil Sampled	: 12/12/06 11:00	Received:	12/14/06 1	1:00					
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	I	6L20025	12/20/06	12/20/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		98 %	55-1	55-135		"	tt	0	
Surrogate: 4-Bromofluorobenzene		96 %	60-1	20	"	v	"	н	
Surrogate: Dibromofluoromethane		99 %	45-1	30	п	"	n	0	
Surrogate: Toluene-d8		98 %	70-1	20	"	"	"		
MW5-31 (MPL0517-03) Soil Sampled	: 12/12/06 11:35	Received:	12/14/06 1	1:00					
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	t	6L20025	12/20/06	12/20/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		94 %	55-1	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97 %	60-1	20	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	45-1	30	"	"	"	п	
Surrogate: Toluene-d8		96 %	70-1	20	17	9	"	"	
MW6-11 (MPL0517-04) Soil Sampled	: 12/12/06 13:55	Received:	12/14/06 1	1:00					
Gasoline Range Organics (C4-C12)	56	2.5	mg/kg	1	6L21016	12/14/06	12/22/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	55-1	35	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	60-1	20	11	"	"	"	
Surrogate: Dibromofluoromethane		98 %	45-1	30	"	"	n	11	
Surrogate: Toluene-d8	102 %	70-1	70	"	n	n	н		



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		MPL0517 Reported: 01/02/07 16:13							
Το	-	•		-	-	CA LUF	Г)		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW6-21 (MPL0517-05) Soil Sampled:	12/12/06 14:10	Received:	12/14/06 1	1:00					
3330 Cameron Park Dr., Suite 550 Project Number: G099D-0014 Repo Cameron Park CA, 95682 Project Manager: Jay Johnson 01/02/0 Total Purgeable Hydrocarbons by GC/MS (CA LUFT) TestAmerica - Morgan Hill, CA Analyte Reporting Limit Dilution Batch Prepared Analyzed Method MW6-21 (MPL0517-05) Soil Sampled: 12/12/06 14:10 Received: 12/14/06 11:00 Batch Prepared Analyzed Method Gusoline Range Organics (C4-C12) ND 0.10 mg/kg 1 6L20025 12/20/06 12/20/06 LUFT GCMS Surrogate: 1,2-Dichloroethane-d4 96 % 55-135 " " " " Surrogate: Dibmon/fluorobenzene 97 % 60-120 " </td <td></td>									
Surrogate: 1,2-Dichloroethane-d4		96 %	55-13	15	"	л	"	"	
Surrogate: 4-Bromofluorobenzene		97 %	60-12	20	"	#1	"	"	
Surrogate: Dibromofluoromethane		95 %	45-130 "			в	n	"	
Surrogate: Toluene-d8		97 %	70-12	20	"	"	"	"	
MW6-28 (MPL0517-06) Soil Sampled	12/12/06 14:30	Received:	12/14/06 1	1:00					
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	61,20025	12/20/06	12/20/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		96 %	55-13	15	n	11	11	tt	
Surrogate: 4-Bromofluorobenzene		93 %	60-12	20	н		**	"	
Surrogate: Dibromofluoromethane		95 %	45-13	10	11	n	n	"	
Surrogate: Toluene-d8		98 %	70-12	20	"	"	"	"	



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		Pr Project Nu Project Mar	mber: G0	99D-0014	4111 2 4, Oa	kland ,CA		MPL0517 Reported: 01/02/07 16:13	
Extractable H	•				-	by EPA	8015B		
	Tes	tAmeric	a - 19101	rgan El	II, CA				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW5-11 (MPL0517-01) Soil Sampled: 12/12/	06 10:36	Received:	12/14/06	11:00					
Diesel Range Organics (C10-C36)	1.7	1.0	mg/kg	1	6L19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: n-Octacosane		103 %	40-	120	<i>n</i>	"	"	n	
MW5-21 (MPL0517-02) Soil Sampled: 12/12/	06 11:00	Received:	12/14/06	11:00					
Diesel Range Organics (C10-C36)	1.6	1.0	mg/kg	1	6L19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: n-Octacosane		96 %	40-120		11	"	"	11	
MW5-31 (MPL0517-03) Soil Sampled: 12/12/	06 11:35	Received:	12/14/06	11:00					
Diesel Range Organics (C10-C36)	1.4	1.0	mg/kg	1	61,19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: n-Octacosane		102 %	40-	120	"	"	"	11	
MW6-11 (MPL0517-04) Soil Sampled: 12/12/	06 13:55	Received:	12/14/06	11:00					
Diesel Range Organics (C10-C36)	9.5	1.0	mg/kg	1	6L19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: n-Octacosane		101 %	40-	120	"	n	"	"	
MW6-21 (MPL0517-05) Soil Sampled: 12/12/	06 14:10	Received:	12/14/06	11:00					
Diesel Range Organics (C10-C36)	1.3	1.0	mg/kg	l	6L19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: n-Octacosane		98 %	40-	120	"	11	н	11	
MW6-28 (MPL0517-06) Soil Sampled: 12/12/	06 14:30	Received:	12/14/06	11:00					
Diesel Range Organics (C10-C36)	1.4	1.0	mg/kg	1	6L19012	12/19/06	12/21/06	EPA 8015B-SVOA	HD
Surrogate: n-Octacosane		94 %	40	120	17	"	л	11	



Stratus Environmental Inc. [Ard 3330 Cameron Park Dr., Suite Cameron Park CA, 95682		Pr Project Nu Project Mar	mber: G0	99D-0014	411124, Oa	kland ,CA		MPL0517 Reported: 01/02/07 16:13	
.	Volatile Organ	nic Com	pounds	by EPA	A Metho	od 8260]	B		
	Tes	tAmeric	a - Mo	rgan Hi	ll, CA				
Analyte	Result	Reparting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW5-11 (MPL0517-01) Soil	Sampled: 12/12/06 10:36	Received:	12/14/06	11:00					
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	6L20025	12/20/06	12/20/06	EPA 8260B	
Benzene	ND	0.0050	q	It	It.	U	н	a	
tert-Butyl alcohol	ND	0.020	0	"	и	U	ti	a	
Di-isopropyl ether	ND	0.0050	0	11	14	12	11	u	
Ethyl tert-butyl ether	ND	0.0050	0	It	и	ņ	ti	u	
Ethylbenzene	ND	0.0050	9	н	н	Ð	ţI	(I	
Methyl tert-butyl ether	0.22	0.0050	v	н	H	0	સ	0	
Toluene	ND	0.0050	0	H	μ	0	łi –	0	
Xylenes (total)	ND	0.0050	v	n	и		u	u	
Surrogate: Dibromofluorometha	ne	96 %	45-	130	tt	11	"	n	
Surrogate: 1,2-Dichloroethane-a	14	94 %	55-	135	"	"			
Surrogate: Toluene-d8		98 %	70-	120	"	"		"	
Surrogate: 4-Bromofluorobenzen	ne.	96 %	60-	120	п	"	н		
MW5-21 (MPL0517-02) Soil									
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	6L20025	12/20/06	12/20/06	EPA 8260B	
Benzene	ND	0.0050	"	*1	a	н	n	IJ	
tert-Butyl alcohol	ND	0.020	н	łI	U	н	n	D	
Di-isopropyl ether	ND	0.0050	н	11	U	я	n	U	
Ethyl tert-butyl ether	ND	0.0050	м	11	a	Ħ	H	D	
Ethylbenzene	ND	0.0050	и	a	U	11	17	U	
Methyl tert-butyl ether	0.073	0.0050	н	0	0	"	11	0	
Toluene	ND	0.0050	м	0	0	11	14	D	

ND

0.0050

99 %

98 %

 $98\,\%$

96 %

п

45-130

55-135

70-120

60-120

Xylenes (total)

Surrogate: Toluene-d8

Surrogate: Dibromofluoromethane

Surrogate: 1,2-Dichloroethane-d4

Surrogate: 4-Bromofluorobenzene

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.

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Stratus Environmental Inc. [Ard 3330 Cameron Park Dr., Suite 5 Cameron Park CA, 95682		Project: BP Heritage #11124, Oakland ,CA Project Number: G099D-0014 Project Manager: Jay Johnson								
	Volatile Orga			-		od 82601	B			
	Tes	tAmeric	a - Mor	gan Hi	ll, CA					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
MW5-31 (MPL0517-03) Soil	Sampled: 12/12/06 11:35	Received:	12/14/06 1	1:00						
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	6L20025	12/20/06	12/20/06	EPA 8260B		
Benzene	ND	0.0050	6	0	и	6	и	"		
tert-Butyl alcohol	ND	0.020	0	0	н	67	н	н		
Di-isopropyl ether	ND	0.0050	17	U	μ	17	н	н		
Ethyl tert-butyl ether	ND	0.0050	H.	U	н	и	н	я		
Ethylbenzene	ND	0.0050	u	H	н	и	н	н		
Methyl tert-butyl ether	ND	0.0050	н	19	a	и	N	и		
Toluene	ND	0.0050	μ	11	41	и	11	11		
Xylenes (total)	ND	0.0050	N	14	U	м	0	11		
Surrogate: Dibromofluorometha	12	96 %	45-1	30	п	11	n	н		
Surrogate: 1,2-Dichloroethane-d	4	94 %	55-1	35	п	11	"	"		
Surrogate: Toluene-d8		96 %	70-1	20	n	11	"	"		
Surrogate: 4-Bromofluorobenzen	е	97 %	60-1	20	н	л	"	н		
MW6-11 (MPL0517-04) Soil	Sampled: 12/12/06 13:55	Received:	12/14/06 1	1:00						
tert-Amyl methyl ether	ND	0.025	mg/kg	1	6L21016	12/14/06	12/22/06	EPA 8260B		
Benzene	0.41	0.050	0	0	н	D	H	0		
tert-Butyl alcohol	ND	5.0	9	a	н	0	н	Ð		
Di-isopropyl ether	ND	0.025	u		н	U	It	н		
Ethyl tert-butyl ether	ND	0.025	0	4	н	0	H.	U		
Ethylbenzene	0.92	0.050	0	11	lt.	0	н	0		
Methyl tert-butyl ether	ND	0.025	U	41	H.	U	H	U		
Toluene	ND	0.050	4	11	It	0	tt.	*1		
Xylenes (total)	5.2	0.050	¢I	11	It	n	It	ti		
Surrogate: Dibromofluoromethal	10	98 %	45-1	30	n	"	n	"		
Surrogate: 1,2-Dichloroethane-d	4	100 %	55-1	35	"	ш	"			
Surrogate: Toluene-d8		102 %	70-1		"	"	"	п		
Surrogate: 4-Bromofluorobenzen	е	109 %	60-1		"	"	"	"		



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		Project: BP Heritage #11124, Oakland ,CA Project Number: G099D-0014 Project Manager: Jay Johnson							
v	olatile Orga		•	-		od 8260]	В		
	Tes	tAmeric	a - Mor	gan Hi	II, CA				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW6-21 (MPL0517-05) Soil Sampled	: 12/12/06 14:10	Received:	12/14/06 1	1:00					
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	6L20025	12/20/06	12/20/06	EPA 8260B	
Benzene	ND	0.0050	14	Ð	*1	U	и	м	
tert-Butyl alcohol	ND	0.020	н	11	11		и	11	
Di-isopropyl ether	ND	0.0050	н	**	a	0	Ħ	ti	
Ethyl tert-butyl ether	ND	0.0050	и	It	0	Ð	11	м	
Ethylbenzene	ND	0.0050	н	It	0	19	н	и	
Methyl tert-butyl ether	0.012	0.0050	"	H.	0	6	ŧ	м	
Toluene	ND	0.0050	"	17	U	17	11	м	
Xylenes (total)	ND	0.0050	н	17	U	17	ti	М	
Surrogate: Dibromofluoromethane		95 %	45-1.	30	н	n	н	п	
Surrogate: 1,2-Dichloroethane-d4		96 %	55-I.	35	л	"		"	
Surrogate: Toluene-d8		97 %	70-1.	20	н	n	"	n	
Surrogate: 4-Bromofluorobenzene		97 %	60-1.	20	"	и		n	
MW6-28 (MPL0517-06) Soil Sampled	: 12/12/06 14:30	Received:	12/14/06 1	1:00					
tert-Amyl methyl ether	ND	0.0050	mg/kg	l	61,20025	12/20/06	12/20/06	EPA 8260B	
Benzene	ND	0.0050	и	0	11	0	м	"	
tert-Butyl alcohol	ND	0.020	и	0	11	a	н	H	
Di-isopropyl ether	ND	0.0050	н	0	41	п	И	н	
Ethyl tert-butyl ether	ND	0.0050	н	.,	ŧ	0	II	н	
Ethylbenzene	ND	0.0050	н	9	41	0	и	U.	
Methyl tert-butyl ether	ND	0.0050	м		0	0	и	"	
Toluene	ND	0.0050	N	**	0	U	н	B	
Xylenes (total)	ND	0.0050	11	It	U	0	H	It	
Surrogate: Dibromofluoromethane		95 %	45-1	30	11	н	"	"	
Surrogate: 1,2-Dichloroethane-d4		96 %	55-1.	35	н	"	0	"	
Surrogate: Toluene-d8		98 %	70-1.	20	п	n	п	"	
Surrogate: 4-Bromofluorobenzene		93%	60-1.		л	"		"	



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

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

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Límits	RPD	RPD Limit	Notes
Batch 6L20025 - EPA 5030 (pres -						,				
Blank (6L20025-BLK1)				Prepared &	& Analyza	ed: 12/20/	06			
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.00474			0.00500		95	55-135		******	
Surrogate: 4-Bromofluorobenzene	0.00488		11	0.00500		98	60-120			
Surrogate: Dibromofluoromethane	0.00480		"	0.00500		96	45-130			
Surrogate: Toluene-d8	0.00488		11	0.00500		98	70-120			
Laboratory Control Sample (6L20025	5-BS2)			Prepared &	& Analyze	ed: 12/20/	06			
Gasoline Range Organics (C4-C12)	0.797	0.10	mg/kg	1.00		80	75-140		****	4
Surrogate: 1,2-Dichloroethane-d4	0.00478		n	0.00500		96	55-135	· · ·	<u> </u>	
Surrogate: 4-Bromofluorobenzene	0.00512		11	0.00500		102	60-120			
Surrogate: Dibromofluoromethane	0.00480		11	0.00500		96	45-130			
Surrogate: Toluene-d8	0.00496		n	0.00500		<i>99</i>	70-120			
Laboratory Control Sample Dup (6L2	20025-BSD2)			Prepared &	& Analyze	ed: 12/20/	06			
Gasoline Range Organics (C4-C12)	0.814	0.10	mg/kg	1.00		81	75-140	2	35	
Surrogate: 1,2-Dichloroethane-d4	0.00500		it	0.00500		100	55-135			
Surrogate: 4-Bromofluoroben=ene	0.00522		n	0.00500		104	60-120			
Surrogate: Dibromofluoromethane	0.00484		и	0.00500		97	45-130			
Surrogate: Toluene-d8	0.00498		"	0.00500		100	70-120			

Blank (6L21016-BLK1)				Prepared & Ana	alyzed: 12/21/	06	
Gasoline Range Organics (C4-C12)	ND	2.5	mg/kg				
Surrogate: 1,2-Dichloroethane-d4	0.00241	*****))	0.00250	96	55-135	
Surrogate: 4-Bromofluorobenzene	0.00254		n	0.00250	102	60-120	
Surrogate: Dibromofluoromethane	0.00243		п	0.00250	97	45-130	
Surrogate: Toluene-d8	0.00253		n	0.00250	101	70-120	



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Stratus Environmental Inc. [Arco]	· · · · · · · · · · · · · · · · · · ·											
3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		Project Ma		Reported: 01/02/07 16:13								
Total Pur	geable Hydro	carbons	by GC/	/MS (CA	LUFT	") - Qua	lity Co	ntrol				
	Te	stAmeric	a - Mo	rgan Hil	l, CA							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch 6L21016 - EPA 5030B/5035	5A MeOH / LUI	T GCMS										
Laboratory Control Sample (6L2101	6-BS2)			Prepared &	& Analyza	ed: 12/21/	06					
Gasoline Range Organics (C4-C12)	18.1	2,5	mg/kg	20.0		90	75-140					
Surrogate: 1,2-Dichloroethane-d4	0.00234		"	0.00250		94	55-135					
Surrogate: 4-Bromofluorobenzene	0.00260		"	0.00250		104	60-120					
Surrogate: Dibromofluoromethane	0.00238		"	0.00250		95	45-130					
Surrogate: Toluene-d8	0.00254		"	0.00250		102	70-120					
Laboratory Control Sample Dup (6L	21016-BSD2)			Prepared d	& Analyze	ed: 12/21/	06					
Gasoline Range Organics (C4-C12)	18.4	2.5	mg/kg	20.0		92	75-140	2	35			
Surrogate: 1,2-Dichloroethane-d4	0.00241		"	0.00250		96	55-135					
Surrogate: 4-Bromofluorobenzene	0.00264		11	0.00250		106	60-120					
Surrogate: Dibromofluoromethane	0.00241		0	0.00250		96	45-130					
Surrogate: Toluene-d8	0.00253		"	0.00250		101	70-120					



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		Repo	MPL0517 Reported: 01/02/07 16:13								
Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B - Quality Control TestAmerica - Morgan Hill, CA											
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 6L19012 - EPA 3550B / EPA 8	8015B-SVOA										
Blank (6L19012-BLK1)				Prepared:	12/19/06	Analyzed:	12/20/06				
Diesel Range Organics (C10-C36)	ND	1.0	mg/kg						******	*****	
Surrogate: n-Octacosane	1.52		11	1.67		91	40-120	*****			
Laboratory Control Sample (6L19012-B	S1)			Prepared:	12/19/06	Analyzed:	12/20/06				
Diesel Range Organics (C10-C36)	17.1	1.0	mg/kg	16.7		102	60-115				
Surrogate: n-Octacosane	1,60		и	1.67		96	40-120				
Matrix Spike (6L19012-MS1)	Source: M	PL0582-06		Prepared:	12/19/06	Analyzed:	12/20/06				
Diesel Range Organics (C10-C36)	325	10	mg/kg	16.7	290	210	60-115			LM,AY	
Surrogate: n-Octacosane	3.11		ł	1.67		186	40-120			LH,AY	
Matrix Spike Dup (6L19012-MSD1)	Source: M	PL0582-06		Prepared:	12/19/06	Analyzed:	12/20/06				
Diesel Range Organics (C10-C36)	321	10	mg/kg	16.7	290	186	60-115	1	40	LM,AY	
Surrogate: n-Octacosane	2.85		п	1.67		171	40-120			LH,AY	



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		Project: BP Heritage #11124, Oakland ,CA Project Number: G099D-0014 Project Manager: Jay Johnson										
Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA												
Analyte	Result	Reporting	Units	Spike	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch 6L20025 - EPA 5030 (pres 4			01113		1115001	MILLE				10003		
· · · · · · · · · · · · · · · · · · ·	011/30337 Era	0200D		Prepared d	R. A	4. 12/20/	16					
Blank (6L20025-BLK1) ert-Amyl methyl ether	ND	0.0050	mg/kg	Prepared d	x Analyze	a: 12/20/0	./0					
Benzene	ND	0.0050	mg/kg									
ert-Butyl alcohol	ND	0.020	u									
Di-isopropyl ether	ND	0.0050	ą									
Ethyl tert-butyl ether	ND	0.0050	a									
Ethylbenzene	ND	0.0050	ø									
Viethyl tert-butyl ether	ND	0.0050	0									
Foluene	ND	0.0050	0									
Kylenes (total)	ND	0.0050	0									
Surrogate: Dibromofluoromethane	0.00480		и	0.00500		96	45-130					
Surrogate: 1,2-Dichloroethane-d4	0.00474		"	0.00500		95	55-135					
Surrogate: Toluene-d8	0.00488		0	0.00500		98	70-120					
Surrogate: 4-Bromofluorobenzene	0.00488		"	0.00500		98	60-120					
Laboratory Control Sample (6L20025	-BS1)			Prepared &	& Analyze	ed: 12/20/)6					
ert-Amyl methyl ether	0.0241	0.0050	mg/kg	0.0200		120	65-140					
Benzene	0.0229	0.0050	ų	0.0200		114	70-130					
ert-Butyl alcohol	0.413	0.020	0	0.400		103	75-130					
Di-isopropyl ether	0.0220	0.0050	0	0.0200		110	70-130					
Ethyl tert-butyl ether	0.0224	0.0050	17	0.0200		112	70-125					
Ethylbenzene	0.0220	0.0050	11	0.0200		110	75-130					
viethyl tert-butyl ether	0.0231	0.0050	ut.	0.0200		116	75-130					
Foluene	0.0235	0.0050		0.0200		118	75-130					
Kylenes (total)	0.0678	0.0050	*	0.0600		113	75-135					
Surrogate: Dibromofluoromethane	0.00496		"	0.00500		<i>99</i>	45-130					
Surrogate: 1,2-Dichloroethane-d4	0.00492		"	0.00500		98	55-135					
Surrogate: Toluene-d8	0.00494		n	0.00500		99	70-120					
Surrogate: 4–Bromofluorobenzene	0.00466		n	0.00500		<i>93</i>	60-120					



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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6L20025 - EPA 5030 (pres 481	h)/5035 / EPA	8260B								
Matrix Spike (6L20025-MS1)	Source: M	PL0463-01F	E1	Prepared	& Analyze	d: 12/20/)6			
tert-Amyl methyl ether	0.0249	0.0050	mg/kg	0.0200	ND	124	65-140			
Benzene	0.0246	0.0050	н	0.0200	ND	123	70-130			
tert-Butyl alcohol	0.390	0.020	н	0.400	ND	97	75-130			
Di-isopropyl ether	0.0228	0.0050	н	0.0200	ND	114	70-130			
Ethyl tert-butyl ether	0.0231	0.0050	н	0.0200	ND	116	70-125			
Ethylbenzene	0.0218	0.0050	Ħ	0.0200	ND	109	75-130			
Methyl tert-butyl ether	0.0232	0.0050	н	0.0200	ND	116	75-130			
Toluene	0.0250	0.0050	*	0.0200	0.00022	124	75-130			
Xylenes (total)	0.0670	0.0050	Ħ	0.0600	ND	112	75-135			
Surrogate: Dibromofluoromethane	0.00518		н	0.00500		104	45-130			
Surrogate: 1,2-Dichloroethane-d4	0.00494		11	0.00500		<i>99</i>	55-135			
Surrogate: Toluene-d8	0.00530		н	0.00500		106	70-120			
Surrogate: 4-Bromofluorobenzene	0.00482		11	0,00500		96	60-120			
Matrix Spike Dup (6L20025-MSD1)	Source: M	PL0463-01F	E1	Prepared	& Analyze	d: 12/20/0)6			
tert-Amyl methyl ether	0.0239	0.0050	mg/kg	0.0200	ND	120	65-140	4	25	
Benzene	0.0240	0.0050	11	0.0200	ND	120	70-130	2	25	
tert-Butyl alcohol	0.371	0.020	14	0.400	ND	93	75-130	5	25	
Di-isopropyl ether	0.0224	0.0050	R	0.0200	ND	112	70-130	2	40	
Ethyl tert-butyl ether	0.0226	0.0050	п	0.0200	ND	113	70-125	2	30	
Ethylbenzene	0.0212	0.0050	н	0.0200	ND	106	75-130	3	30	
Methyl tert-butyl ether	0.0222	0.0050	"	0.0200	ND	111	75-130	4	25	
Toluene	0.0244	0.0050	"	0.0200	0.00022	121	75-130	2	20	
Xylenes (total)	0.0651	0.0050	11	0.0600	ND	108	75-135	3	25	
Surrogate: Dibromofluoromethane	0.00516		"	0.00500		103	45-130			
Surrogate: 1,2-Dichloroethane-d4	0.00472		"	0.00500		94	55-135			
Surrogate: Toluene-d8	0.00526		n	0.00500		105	70-120			
Surrogate: 4-Bromofluorobenzene	0.00474		"	0.00500		95	60-120			



Stratus Environmental Inc. [Arco]

MPL0517

3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		Project Number: G099D-0014 Project Manager: Jay Johnson											
Volatile (Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA												
Analyte	Result	Reporting Limit	Unils	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes			
Batch 6L21016 - EPA 5030B/5035	5A MeOH / EPA	8260B											
Blank (6L21016-BLK1)				Prepared &	& Analyze	ed: 12/21/	06						
tert-Amyl methyl ether	ND	0.025	mg/kg										
Benzene	ND	0.050	11										
tert-Butyl alcohol	ND	5,0	11										
Di-isopropyl ether	ND	0.025	41										
Ethyl tert-butyl ether	ND	0.025	a										
Ethylbenzene	ND	0.050											
Methyl tert-butyl ether	ND	0.025	0										
Toluene	ND	0.050	9										
Xylenes (total)	ND	0.050	17										
Surrogate: Dibromofluoromethane	0.00243		ti	0.00250		97	45-130						
Surrogate: 1,2-Dichloroethane-d4	0.00241		"	0.00250		96	55-135						
Surrogate: Toluene-d8	0.00253		17	0.00250		101	70-120						
Surrogate: 4-Bromofluorobenzene	0.00254		"	0.00250		102	60-120						
Laboratory Control Sample (6L21016	5-BS1)			Prepared &	& Analyza	ed: 12/21/	06						
tert-Amyl methyl ether	0.620	0.025	mg/kg	0.500		124	65-140		*******				
Benzene	0.568	0.050	11	0.500		114	70-130						
tert-Butyl alcohol	9.68	5.0	н	10.0		97	75-130						
Di-isopropyl ether	0.521	0.025	n	0.500		104	70-130						
Ethyl tert-butyl ether	0.562	0.025	*1	0.500		112	70-125						
Ethylbenzene	0.547	0.050	H	0.500		109	75-130						
Methyl tert-butyl ether	0.578	0.025	"	0.500		116	75-130						
Toluene	0.589	0.050	*	0.500		118	75-130						
Xylenes (total)	1.69	0.050	н	1.50		113	75-135						
Surrogate: Dibromofluoromethane	0.00250		"	0.00250		100	45-130						
Surrogate: 1,2-Dichloroethane-d4	0.00247		п	0.00250		99	55-135						
Surrogate: Toluene-d8	0.00254		Ħ	0.00250		102	70-120						
Surrogate: 4-Bromofluorobenzene	0.00240		н	0.00250		96	60-120						

Project: BP Heritage #11124, Oakland ,CA

TestAmerica - Morgan Hill, CA



Stratus Environmental Inc. [Arco]	Project:		MPL0517
3330 Cameron Park Dr., Suite 550	Project Number:		Reported:
Cameron Park CA, 95682	Project Manager:		01/02/07 16:13
Volatile Organi	e Compounds by El	PA Method 8260B - Quality Contr	ol

TestAmerica - Morgan Hill, CA

		B		C	P		NDEC		800	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6L21016 - EPA 5030B/503	5A MeOH / EPA	8260B								
Laboratory Control Sample Dup (61	21016-BSD1)			Prepared	& Analyze	ed: 12/21/	06			
tert-Amyl methyl ether	0,562	0,025	mg/kg	0.500		112	65-140	10	25	
Benzene	0.541	0.050	a.	0.500		108	70-130	5	25	
tert-Butyl alcohol	9.35	5.0	ų	10.0		94	75-130	3	25	
Di-isopropyl ether	0.486	0.025	0	0.500		97	70-130	7	40	
Ethyl tert-butyl ether	0.519	0.025	0	0.500		104	70-125	8	30	
Ethylbenzene	0.535	0.050	0	0.500		107	75-130	2	30	
Methyl tert-butyl ether	0.514	0.025	н	0.500		103	75-130	12	25	
Toluene	0.556	0.050	н	0.500		111	75-130	6	20	
Xylenes (total)	1.63	0.050	Ð	1.50		109	75-135	4	25	
Surrogate: Dibromofluoromethane	0.00240		"	0.00250		96	45-130			
Surrogate: 1,2-Dichloroethane-d4	0.00234		"	0.00250		94	55-135			
Surrogate: Toluene-d8	0.00251		n	0.00250		100	70-120			
Surrogate: 4-Bromofluorobenzene	0.00239		н	0.00250		96	60-120			



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

3330 Carr	uvironmental Inc. [Arco] ueron Park Dr., Suite 550 Park CA, 95682	Project: Project Number: Project Manager:		MPL0517 Reported: 01/02/07 16:13				
		Notes and De	finitions					
SG	A silica gel cleanup procedure was p	erformed.						
LM,AY	M,AY MS and/or MSD above acceptance limits. See Blank Spike(LCS). Matrix interference suspected.							
LH,AY Surrogate recovery above the acceptance limits. Matrix interference suspected.								
HD	Chromat. profile inconsistent with pa	ttern(s) of ref. fuel stnds.						
DET	Analyte DETECTED							
ND	Analyte NOT DETECTED at or above the	e reporting limit or MDL, if M	DL is specified					
NR	Not Reported							
dry	Sample results reported on a dry weight b	asis						
RPD	Relative Percent Difference							

Address: Abio Concernation Abio Company Lab Name: Test America Address: 885 Jarvis Dr. Mergan Hill CA 99 Lab PM: Lisa Race Tele/Fax: 408-782-8156 BP/AR EBM: P. Supple Address: 2010 Concernation San Ramon A Tele/Fax: 975-275-3506 Lab Bottle Order No:	Pl. # 150 Matrix	Orwein BP 1 24 os Segment: Alameda nry Agency: Alameda hequested Due Date (mm/dd/yy) BP/AR Facility No.: [1]24 BP/AR Facility No.: [1]24 BP/AR Facility No.: [1]24 BP/AR Facility No.: [1]24 BP/AR Facility Address: 3315 Site Lat/Long: California Global 1D No.: California Global 1D No.: [1]6 Enfos Project No.: (099 D-1) Provision or OOC (circle one) [1]7 PinserWBS: 01- assessment Sub Phase/Task: 03- analy fr Cost Element: 01- (protrails E [2]	Gunty Env. Itral Std. TA High St, Oakle 00100919 DI4 Gl Labor eservative	ILA N T Cand Ad Cand	Disultant/Contractor Pro- Desultant/Contractor Pro- Desultant/Contractor PA Ne/Fax: 53c port Type & QC Level: mail EDD To: Poice to: Consultant or ed Analysis	Men Park Dr. Alark , UA 95680 oject No.: E-11124 A: J. Blonson -676-6000 Elevel I w/EDF BP of Atlantic Richfield C	# 550
ivo.			HCl Methanol		A LA	Sample Point La Commen	
$\frac{1}{2} \frac{1}{100} \frac{1}{1$	0:36 12-12	No. of H ₃ SO ₄	HCI HICI			MPL 051	
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Sampler's Name: Sutt Billing	<u>ll_l_l_l_l</u>			╆╌┼╾┼╴	╺┼╸┼╸┼╶╢		
Sampher's Company: Stratus Bul.	Inc.	Si Al Grand	on Date	Time	Accepted By / A	filiation	ate Time
Shipment Method: C.J.C.V			<u> </u>			· //	11:00
hipment Tracking No:	· · · ·			┟╌───			
MInstructions: CC: Roh Mill	er, Broadberot + Asse	riates					
Seals In Place: Yes (No)							
	Temp Blank: Yes No	Cooler Temp on Receipt;	5.2°FO Tr	ip Blank: Yes M	NO I MS/MED	Security O. L. Starting	

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MS/MSD Samula Substitution of the Tax

		TEST	AMERICA SAMPL	E RECEIPT	LOG		illerichten einer if ditte		a presidenti di la superiore presidente a constante de la constante de la constante de la constante de la const	
Client NAME: Rec. by (print) Workorder:	REC. BY (PRINT) <u>LiP</u> , WORKORDER: <u>NPL 0517</u>		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	12-14-06 11:00 12-15-02				-	gulatory Purposes? NG WATER YES (NG WATER YES NO	
CIRCLE THE APPROI	PRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESER VATIVE	pН	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)	
1. Custody Seal(s)	Present / Absent									
	intact / Broken*			core						
2. Chain-of-Custody	Present / Absent*									
3. Traffic Reports or Packing List:	Present (Absont								/	
4. Airbill:	Airbill / Sticker								<u></u>	
	Present / Absent			1						
5. Airbill #: Fealt 83		-								
6. Sample Labels:	Present / Absent									
7. Sample IDs:	Listed / Not Listed									
r. oumpio 126.	on Chain-of-Custody						1			
8. Sample Condition: (Intact / Broken* /									
	Leaking*				200					
9. Does information on										
traffic reports and sa				1	1					
agree?	Yes / No*			4/						
10. Sample received within hold time?				R/						
11. Adequate sample volu			/	1						
received?	Yes / No*		/							
12. Proper preservatives L			/							
13. Trip Blank / Temp Bla	nk Received?	· ·								
(circle which, if yes)	Yes									
14. Read Temp:	4.24		7							
Corrected Temp	575		1							
Is corrected temp 4 +	1-2°C? Ves No**		7							
(Acceptance range for samples re	quiring thermal pres.)									
**Exception (if any): MET										
or Problem COC		12								
evision 8 Rev 7 (07/19/05) کالات	nade Star Harmon (nichter einen son (die Hereinen (die Hereinen (die Hereinen (die Hereinen (die Hereinen (die H	*IF CIR(CLED, CONTACT PROJE	CT MANAGER	AND AT	TACH	RECORD		UTION.	

APPENDIX B

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

06-08-652



INCOMA BACK TO RESAMPLE 3 6.

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

March 6, 2007

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

Re: Groundwater Sampling Data Package, BP Service Station No. 11124, located at 3315 High Street, Oakland, California (Quarterly Monitoring performed on February 6, 2007)

General Information

Data Submittal Prepared / Reviewed by:Sandy Hayes / Jay JohnsonPhone Number:(530) 676-6000On-Site Supplier Representative:Jerry GonzalesDate:February 6, 2007Arrival:16:00Departure:017:40Weather Conditions:ClearUnusual Field Conditions:NoneScope of Work Performed:Quarterly monitoring and samplingVariations from Work Scope:None noted

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

Sincerely, STRATUS ENVIRONMENTAL, INC. SIONAL Jay R. Johnson No. 5867 Johnson, P.G. R STATE Project Manager OFCA

Attachments:

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

CC: Mr. Paul Supple, BP/ARCO

BP GEM OIL COMPANY

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

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

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

TYPE A BIL	L OF LADING
11124	
Station #	
Oakland – 3315 High Street	· ·
Station Address	••••••••••••••••••••••••••••••••••••••
Total Gallons Collected From Gr	oundwater Monitoring Wells:
Added Equipment Rinse Water5	Any Other. Adjustments
TOTAL GALS. RECOVERED <u>3/</u>	loaded onto Doulos vehicle #
Stratus Project #	time date 1730 <u>216107</u>
Signature Jeur	6
* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
	time date
$\frac{\beta P 5786}{\text{Unloaded by}}$ Signature	9:05 2 1/9107
	faced 21 1/27

•							R <i>TFOLI</i> a sheet	10					
	Gauge Date: Technician:	2/61	107		Project Name: <u>Oakland - 3315 High Street</u>								
Field	Technician:	Jer	-19		Project Number: <u>11124</u>								
	TOC = Top of W DTP = Depth to DTW = Depth to DTB = Depth to	Free Product Groundwate	(FP or NAPH r Below TOC				DIA = Well C ELEV = Grou DUP = Duplic	asing Diameter Indwater Elevation cate					
WELL OR LOCATION	TIME		1	MEASU	REMENT			PURGE & SAMPLE	SHEEN CONFIRMATION	COMMENTS			
		тос	DTP	DTW	DTB	DIA	ELEV						
M-1	16:10			9.88	34.47	211		yes	(w/bailer)				
MW-2	16:13			8.40	10.12	z"1		yes		w			
MW-4	16:15			8.40	30.18	211		4-5					
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	EDA PORTFOLIO PLE FIELD DATA SHEET
PROJECT #: 11124 PURGED BY: CLIENT NAME: SAMPLED BY LOCATION: Oakland - 3315 High Street	Jo WELLID .: MUN/
DATE PURGED $7/6/07$ START (2400h) DATE SAMPLED $7/6/07$ SAMPLE TIME SAMPLE TYPE: Groundwater x Surface W	3 (2400hr) 19120
CASING DIAMETER: 2" 2" 3" (0.38)	$4'' \frac{5''}{(0.67)} \frac{5''}{(1.02)} \frac{6''}{(1.50)} \frac{8''}{(2.60)} \frac{0}{(1.50)}$
DEPTH TO BOTTOM (feet) = 34.41 DEPTH TO WATER (feet) = 938 WATER COLUMN HEIGHT (feet) = 25.0	CASING VOLUME (gal) = $\frac{12.7}{2}$ CALCULATED PURGE (gal) = $\frac{12.7}{3}$
FIELD	MEASUREMENTS
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} CONDUCTIVITY & pH & COLOR & TURBIDITY \\ (umhos/cm) & , (units) & (visual) & (NTU) \\ \hline 3 & 7 & 7 & 7 \\ \hline 3 & 0 & 7 & 7 & 6 \\ \hline \hline 3 & 0 & 7 & 7 & 6 \\ \hline \hline$
SAMPLE DEPTH TO WATER: 10, 43	LE INFORMATION SAMPLE TURBIDITY:
80% RECHARGE: VES NO ANA	ALYSES: See Wat ordorn
	VATIVE: Voa-HCL
PURGING EQUIPMENT	SAMPLING EQUIPMENT
Bladder Pump Bailer (Teflon) Centrifugal Pump Bailer (PVC) Submersible Pump Bailer (Stainless Steel) Peristalic Pump Dedicated Other: Dedicated	Bladder Pump Bailer (Teflon) Centrifugal Pump Bailer (PVC or disposable) Submersible Pump Bailer (Stainless Steel) Peristalic Pump Dedicated Other:
Pump Depth: 25	
Well integrity: $\underline{a} osc$ remarks: $\underline{D} \cdot \underline{O} \cdot \underline{7} \cdot \underline{6}$	LOCK#: MRSTer
SIGNATURE: Name	Page of
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· · · · · · · · · · · · · · · · · · ·	BP ALAMEDA	PORTFOLIO	
W	ATER SAMPLE F	ELD DATA SHEET	
PROJECT #: 11124 CLIENT NAME: LOCATION: Oakland - 3315 High St	PURGED BY:	WELL I.D.: M SAMPLE I.D.: M QA SAMPLES:	
DATE PURGED Z/G/05 DATE SAMPLED Z/G/05 SAMPLE TYPE: Groundwater x	START (2400hr) SAMPLE TIME (2400) Surface Water	16:40 END (2400hr) 16	:43
CASING DIAMETER: Casing Volume: (gallons per foot) 2" (0.17)	- 3" - 4" - (0.38)	$\frac{5^{"}}{(1.02)} = \frac{6^{"}}{(1.50)} = \frac{8^{"}}{(2.60)}$	Other
DEPTH TO BOTTOM (feet) = DEPTH TO WATER (feet) = WATER COLUMN HEIGHT (feet) = / . (7	CASING VOLUME (gal) = \bigcirc	
DATE TIME VOLUME $\begin{array}{c} (2400hr) & (gal) \\ \hline \hline$	FIELD MEAS TEMP. CO (degrees F) $-\frac{19.9}{-9}$	REMENTS DUCTIVITY pH COLOR umhos/cm) (units) (visual) $5 \frac{6}{1} \frac{7.06}{2.03} \frac{2.6.57}{1}$ $5 \frac{2}{5} \frac{7}{7} \frac{7.02}{7.02} \frac{1}{1}$	TURBIDITY (NTU)
SAMPLE DEPTH TO WATER: 8.75	SAMPLE INF		st in color
80% RECHARGE: YES NO ODOR: MO SAMPLE V	ANALYSE ESSEL / PRESERVATIVE	See Work Ordon	
		SAMPLING EQUIPMENT Bladder Pump Bailer (Teflon) Centrifugal Pump Mailer (P Submersible Pump Bailer (Stainless S Peristalic Pump Dedicated Other:	teel)
well integrity: $\underline{\mathcal{ROL}}$ remarks: \underline{DO} 5, \underline{O}	·····	LOCK#: Mante	<u> </u>
^		······································	

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	BP ALAMEDA WATER SAMPLE FI				
PROJECT #: 11124 CLIENT NAME: LOCATION: Oakland - 3315 High	SAMPLED BY:	6 E	WELL I.I SAMPLE QA SAM	·	4
DATE PURGED <u>~/6/6</u> DATE SAMPLED <u>~/6/6</u> SAMPLE TYPE: Groundwater <u>x</u>	START (2400hr) SAMPLE TIME (2400h Surface Water		END (24)	00hr) <u>6</u> - Other	.'23
CASING DIAMETER: 2" Casing Volume: (gallons per foot) (0.1	3" <u>4</u> " (0.38)	.67) 5" (1.02)	6" (1.50)	8" (2.60)	Other ()
DEPTH TO BOTTOM (feet) = 3 DEPTH TO WATER (feet) = 8 WATER COLUMN HEIGHT (feet) = 2	0-18 40 1- 7	CALCUL	VOLUME (gal) = .ATED PURGE (ga . PURGE (gal) =		, , ,
	FIELD MEAS	UREMENTS			
DATE TIME VOLUME (2400hr) (gal) $(2400hr)$ (gal) $(2400hr)$ $(16:2()$ (3.7) $(2400hr)$ $(16:2()$ (3.7) $(16:2)$ $(16:$	$ \begin{array}{c} \text{TEMP.} & \text{CO} \\ (degrees F) \\ \hline /7.5 \\ \hline /7.7 \\ \hline /8.0 \\ \hline \end{array} $	NDUCTIVITY (umhos/cm) 736.7 7997.7 4695	pH 9(µnits)2 7.12 7.12	COLOR (visual) Clear Clear Clear	TURBIDITY (NTU)
SAMPLE DEPTH TO WATER: 9.2	SAMPLE INFO	DRMATTON	SAMPLE TURBI	 DITY: C/e	
80% RECHARGE: YES NO	ANALYSE	S: See M	lesk order	*	
	E VESSEL / PRESERVATIVE				
PURGING EQUIPMENT Bladder Pump Baile Centrifugal Pump Baile Submersible Pump Baile	er (Teflon) er (PVC) er (Stainless Steel) cated	Bladder Pump Centrifugal Pur Submersible Pu Peristalic Pump Other:	SAMPLING EQU npBail impBail oDed	er (Teflon) er (PVC er (Stainless Steel icated	or <u>k</u> disposabl
WELL INTEGRITY: <u>AOOR</u> REMARKS: <u>1201513</u>		•	LOCK#: <u>M</u>	rister	
SIGNATURE:					Page of

Wellhead Observation Form

Account: Date: 2/6/07 Sampled by: Jerry

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'I Notes and Other Stuff
MW-4	Yes	NO	NO	yes	pe	NO	yes			
MW-2 MW-1	4.08	10	NO	v						Slip ON LID Needs No 130115
MW-1	yees	NO	NO						,	Slip ON LID Needs NO 130175 Slip ON Lid Needs NO BOITS
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	Atlantic Richfield Company A BP affiliated company	Proje BP B	ain o ect Nai 3U/AR e or Le:	me: Regio	n/Enfé gulato:	B) Ds Seg ry Ag				merica		est > 1	Retail >	>CA>	Alan	neda>	<u>1</u> 1124 	ŧ	Off- Sky	site Cone corol	Tim Tim dition ogica	e: s;	<u>n</u>	40 U) 2	Temp: Temp:		
Lab	Name: TestAmerica					BP	/AR Facility N	o.:		11124									Cons	ailtar	1t/Co	ntrac	tor		Stratus En	uironme	stal Tee	
Add	ress: 885 Jarvis Drive						/AR Facility A		ss:	33	15 Hi	igh S	treet	. Oak	land	1			Add	-				mei	ron Park D			
Mor	gan Hill, CA 95937			BP/AR Facility Address: 3315 High Street, Oakland Site Lat/Long:															_		ark, CA 95		110 350					
Lab	PM: Lisa Race					Cal	ifornia Global	ID #	: T	06001	0019	19							Cons	ultar					ct No.:	E11124	-04	
Tele/	Fax: 408-782-8156 408-782-63	08 (fax)				Ent	fos Project No.:	:	G	099D	0012	2									t/Cor			_		Jay John		
BP//	R PM Contact; Paul Supple					Рго	vision or RCO	P (c	ircle	one)		Pro	visior	1					Tele/	Fax:	((530) 67	6-6	000 / (530) 676-6(005	·
Addı	ess: 2010 Crow Canyon Place, Sui	ite 150				Pha	se/WBS:		04	-Mon	itorin	g			·				Repo	rt Ty							with EDF	
	San Ramon, CA					Sut	Phase/Task:		03	-Anal	ytical	1													Dstratusir			<u> </u>
Tele/	Fax: 925-275-3506					Cos	t Element:	_	01	-Cont	racto	r labo	or						Invoi	ce to	: Atl	antic	Ric	hfiel	d Ċo.			
Lab	Bottle Order No:				I atrix	_]	Prese	rvati	ive				J	Requ	ested	Ana	lysis							
Item No.	Sample Description	Time	Date	Soil/Solid	Air	L	iboratory No.	No. of Containers	Unpreserved	H _z SO ₄	HNO3	HCI	Methanol		GRO/BTEX/Oxy*	1,2 DCA	EDB	Ethanol by 8260							Sam *Oxy = M	Com TBD, TA	t Lat/Long iments AME, ETI BA	
1	MW-1	1722	2/10	x k				16	,			x				x		x	Ī	T			T					·
	 MW-2	1647	11	x				3		-		x					- 1	x			\neg							
	MW-4	1625						3		-	\square	x						$\frac{x}{x}$		+								
	тв 11124 /\20607	500						2		+											-+-		-+					
	1B 11124 2)001	1300	┢───	╢┼╴		╢──	<u> </u>	┞╧				x			<u>x</u>	X	x	<u>x</u>	-+	+		_	-+		HOLD	* <u></u>		
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	ler's Name:		<u> </u>	<u> </u>		╡╞╼╼╍	D aller a	<u> </u>	<u> [</u>	1.1.10					<u></u>							<u> </u>			(FT1			
	bler's Name:	<u> </u>	aus			171	Reling			r / All	014(10)				Dat Z/m		Tin Ma		-7	₩	Ë		CU BY	/ Al	filiapion		Dette/	Time
	nent Date:						me vier	<u>mel</u>	1_					-	2/9/	0/	165	ာ	H	11.12	W.L	l			//A-)	DR	2/4/47	4655
	nent Method:	·······				-∦-/-		-						_ -					-									╢────┤
	nent Tracking No:					╢──								— -														
-	al Instructions:	Please	cc resul	ts to: r	miller@)broad	lbentinc.com							1		ال		ال_										i L /
				-																								
	Custody Seals In Place: Yes / N	No	Temp	Blank	: Yes /]	No	Cooler 7	Гem	p on	1 Rec	eipt:		°F/	/C	1	Tri	p Bl	ank:	Yes.	/No]	MS/	MSI	D Sample	Submitt	ed: Yes /	No

BP COC Rev. 5 10/11/2006

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

26 February, 2007

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

RE: BP Heritage #11124, Oakland ,CA Work Order: MQB0414

Enclosed are the results of analyses for samples received by the laboratory on 02/13/07 07:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race Senior Project Manager

CA ELAP Certificate # 1210

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

Page 1 of 11



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Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritag Project Number: G099D-001 Project Manager: Jay Johnson	2	d ,CA	MQB0414 Reported: 02/26/07 15:46
	ANALYTICAL REPORT FOR SAMP	LES		
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQB0414-01	Water	02/06/07 17:20	02/13/07 07:55
MW-2	MQB0414-02	Water	02/06/07 16:47	02/13/07 07:55
MW-4	MQB0414-03	Water	02/06/07 16:25	02/13/07 07:55
TB11124020607	MQB0414-04	Water	02/06/07 05:00	02/13/07 07:55

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

1	(
Test/Americ	a
ANALYTICAL TESTING CORPORA	TION

7

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		Project Nun Project Mana	nber: G0	99D-0012	411124, Oa	kland ,CA		Rep	B0414 10rted: 107 15:46
Total	Purgeable Test	e Hydroc tAmerica		-	•	CA LUF	Г)		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQB0414-01) Water Sampled: 02	/06/07 17:20	Received:	02/13/07	07:55					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7B17006	02/17/07	02/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		9 7 %	60-	145	"	n	"	"	1
MW-2 (MQB0414-02) Water Sampled: 02	/06/07 16:47	Received:	02/13/07	07:55					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7B17001	02/17/07	02/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	60	145	11	"	tt	π	
MW-4 (MQB0414-03) Water Sampled: 02	/06/07 16:25	Received:	02/13/07	07:55					
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7B17001	02/17/07	02/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		91%	60-	145	"	It	"	ц	

3330 Cameron Park Dr., Suite 55 Cameron Park CA, 95682	0		nber: G0991 ager: Jay Jo	Reported: 02/26/07 15:46					
	Volatile Organ				A Metho	od 8260]	3		15.10
			a - Morg						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-1 (MQB0414-01) Water Sa	ampled: 02/06/07 17:20	Received:	02/13/07 07	:55					
tert-Amyl methyl ether	ND	0.50	ug/l	I	7B17006	02/17/07	02/17/07	EPA 8260B	
Benzene	ND	0.50	"	U	**	н	n	*1	
tert-Butyl alcohol	ND	20	"	0	u	"	14	a	
Di-isopropyl ether	ND	0.50	U	IP.		"	14	0	
1,2-Dibromoethane (EDB)	ND	0.50	Ð)r	U	u .	1t	ų.	
1,2-Dichloroethane	ND	0.50	H.	и	11	U	*1	Ð	
Ethanol	ND	300	и	41		н	н	t i	
Ethyl tert-butyl ether	ND	0.50	*	4	н	H	u	и	
Ethylbenzene	ND	0.50	*1	U	н	и	U	и	
Methyl tert-butyl ether	1.1	0.50	u	U U	*	11	н	н	
Гоluene	ND	0.50	U	It	a	*1	11	Ħ	
Xylenes (total)	ND	0.50	0	и		ti	R	n	
Surrogate: Dibromofluoromethane		102 %	75-130)	n		"	п	
Surrogate: 1,2-Dichloroethane-d4		97 %	60-145	7	tt	"	n	"	
Surrogate: Toluene-d8		98 %	70-130)	"	"	и	"	
Surrogate: 4-Bromofluorobenzene		87 %	60-120)	"	"	11	n	
MW-2 (MQB0414-02) Water Sa	ampled: 02/06/07 16:47	Received:	02/13/07 07	:55					
ert-Amyl methyl ether	ND	0.50	ug/l	t	7B17001	02/17/07	02/17/07	EPA 8260B	
Benzene	ND	0.50	ŧ	U I	н	и	0	H.	
ert-Butyl alcohol	ND	20	u	0			11		
Di-isopropyl ether	IND .	20			"				
	ND	0.50	0		" 11		н	к	
1,2-Dibromoethane (EDB)			o V		॥ स स	11 11		R	
I,2-Dibromoethane (EDB)I,2-Dichloroethane	ND	0.50		17			н	н н н	
• • •	ND ND	0.50 0.50	U	17	સ		69 19	н И П	
I,2-Dichloroethane Ethanol	ND ND ND	0.50 0.50 0.50	U D	17	સ	11 31	89 19 19		
1,2-Dichloroethane	ND ND ND ND	0.50 0.50 0.50 300	U D D	17	स स U	91 91 41	1) 1) 1) 1)	н И И И И	
I,2-Dichloroethane Ethanol Ethyl tert-butyl ether	ND ND ND ND ND	0.50 0.50 0.50 300 0.50	U D D	17	સ લ પ વ	91 91 91 91	1) 19 19 19		
I,2-Dichloroethane Ethanol Ethyl tert-butyl ether Ethylbenzene	ND ND ND ND ND ND	0.50 0.50 0.50 300 0.50 0.50	U U H H	17 19 19 19 19 10 11 11 11 11 11 11 11 11 11 11 11 11	8 0 11	91 91 93 93 94 94 94 94 94 94 94 94 94 94 94 94 94	1) 19 19 19 19 11		
I,2-Dichloroethane Ethanol Ethyl tert-butyl ether Ethylbenzene Methyl tert-butyl ether	ND ND ND ND ND ND	0.50 0.50 300 0.50 0.50 0.50	U D H H	17 19 19 19 19 11 11 11	4 0 11 11	91 91 93 93 93 93 93 93 93 93 93 93 93 93 93	1) 19 19 19 19 19 11	()	
I,2-Dichloroethane Ethanol Ethyl tert-butyl ether Ethylbenzene Methyl tert-butyl ether Foluene	ND ND ND ND ND ND ND	0.50 0.50 300 0.50 0.50 0.50 0.50	U D H H	17 19 19 19 10 11 11 11	8 0 0 0 0 0	я я и и и	и и и и ц	a U	
I,2-Dichloroethane Ethanol Ethyl tert-butyl ether Ethylbenzene Methyl tert-butyl ether Foluene Kylenes (total)	ND ND ND ND ND ND ND	$\begin{array}{c} 0.50\\ 0.50\\ 300\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ \end{array}$	U U H H N N	17 19 14 14 14 11 11 11	4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	11 11 12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	и 19 19 19 19 11 11 11 11 11 11 11 11 11	9 11 11	
1,2-Dichloroethane Ethanol Ethyl tert-butyl ether Ethylbenzene Methyl tert-butyl ether Foluene Xylenes (total) Surrogate: Dibromofluoromethane	ND ND ND ND ND ND ND	0.50 0.50 300 0.50 0.50 0.50 0.50 0.50 0	0 9 9 9 9 9 75-130	17 17 18 18 18 19 19 19	4 4 9 9 9 9 9 9 9 9	4 4 6 7 7 7 7 7	1) 1) 14 14 14 14 14 17	0 11 11	

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



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

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

MQB0414 Reported:



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		Project Nu Project Man	_	D-0012 ohnson				MQB(Repar 02/26/07	ted:
	Volatile Organ	ic Comj Americ		-		od 8260]	B		
	1 050	Reporting	a - 19101 §	3an 111	II, CA				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-4 (MQB0414-03) Water Sam	pled: 02/06/07 16:25	Received:	02/13/07 0	7:55					
ert-Amyl methyl ether	ND	0.50	ug/l	I	7B17001	02/17/07	02/17/07	EPA 8260B	
Benzene	ND	0.50	n	It	11	Ħ	И	и	
ert-Butyl alcohol	ND	20	0	n	14	4	**	*1	
Di-isopropyl ether	ND	0.50		н	и	"	ti	**	
1,2-Dibromoethane (EDB)	ND	0.50	н	*1	н	U	n	11	
1,2-Dichloroethane	ND	0.50	14	n	н	U	u.	11	
Ethanol	ND	300	If	ŧ	11	u	н	11	
Ethyl tert-butyl ether	ND	0.50	н	0	ł1	11	н		
Ethylbenzene	ND	0.50	н	U	ei.	17	U II	**	
Methyl tert-butyl ether	ND	0.50	и	u	a	I)	0	U	
Foluene	ND	0.50	н	0	ti	I7	Ð	U	
Xylenes (total)	ND	0.50	μ	0	41	It	ŋ	tı	
Surrogate: Dibromofluoromethane		102 %	75-13	10	11	"	n	н	
Surrogate: 1,2-Dichloroethane-d4		91%	60-14	15	л	"	"	n	
Surrogate: Toluene-d8		95 %	70-13	10	"	"	"	н	
Surrogate: 4-Bromofluorobenzene		86 %	60-12	20	n	"	"	"	

Test

America ANALYTICAL TESTING CORPORATION

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.

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Stratus Environmental Inc. [Arco]	Project: BP Heritage #11124, Oakland, CA	MQB0414
3330 Cameron Park Dr., Suite 550	Project Number: G099D-0012	Reported:
Cameron Park CA, 95682	Project Manager: Jay Johnson	02/26/07 15:46
,		· · · · · · · · · · · · · · · · · · ·

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

TestAmerica	- Morgan	Hill, CA	

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 7B17001 - EPA 5030B P/T / LU	JFT GCMS										
Blank (7B17001-BLK1)		Prepared & Analyzed: 02/17/07									
Gasoline Range Organics (C4-C12)	ND	50	ug/l								
Surrogate: 1,2-Dichloroethane-d4	2,54		"	2.50		102	60-145				
Laboratory Control Sample (7B17001-BS	52)	& Analyzed: 02/17/07									
Gasoline Range Organics (C4-C12)	536	50	ug/l	500		107	75-140			****	
Surrogate: 1,2-Dichloroethane-d4	2,70		n	2.50		108	60-1-15				
Laboratory Control Sample Dup (7B1700)1-BSD2)			Prepared	& Analyze	ed: 02/17/	07				
Gasoline Range Organics (C4-C12)	503	50	ug/l	500		101	75-140	б	20		
Surrogate: 1,2-Dichloroethane-d4	2.68		n	2.50		107	60-145				
Batch 7B17006 - EPA 5030B P/T / LU	JFT GCMS										
Blank (7B17006-BLK1)		Prepared & Analyzed: 02/17/07									
Gasoline Range Organics (C4-C12)	ND	50	ug/l								
Surrogate: 1,2-Dichloroethane-d4	2.33		н	2.50		93	60-145				
Laboratory Control Sample (7B17006-BS	itrol Sample (7B17006-BS2)				Prepared & Analyzed: 02/17/07						
Gasoline Range Organics (C4-C12)	496	50	ug/l	500		99	75-140				
Surrogate: 1,2-Dichloroethane-d4	2,39		11	2.50		96	60-145				
Laboratory Control Sample Dup (7B1700	6-BSD2)			Prepared	& Analyze	ed: 02/17/	07				
Gasoline Range Organics (C4-C12)	507	50	ug/l	500		101	75-140	2	20		
Surrogate: 1,2-Dichloroethane-d4	2.47		tt	2.50		99	60-145	*****	*****		

Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7B17001 - EPA 5030B P/T /	EPA 8260B									
Blank (7B17001-BLK1)				Prepared	& Analyze	ed: 02/17/	07			
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	14							
tert-Butyl alcohol	ND	20	н							
Di-isopropyl ether	ND	0.50	н							
I,2-Dibromoethane (EDB)	ND	0.50	11							
1,2-Dichloroethane	ND	0.50	u							
Ethanol	ND	300	ų							
Ethyl tert-butyl ether	ND	0,50	v							
Ethylbenzene	ND	0.50	.,							
Methyl tert-butyl ether	ND	0.50	*							
Toluene	ND	0.50	H							
Xylenes (total)	ND	0.50	и							
Surrogate: Dibromofluoromethane	2.50		rt	2.50		100	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.54			2.50		102	60-145			
Surrogate: Toluene-d8	2.40			2.50		96	70-130			
Surrogate: 4-Bromofluorobenzene	2,31		11	2.50		92	60-120			
Laboratory Control Sample (7B17001	-BS1)			Prepared a	& Analyze	ed: 02/17/	07			
ert-Amyl methyl ether	9.03	0.50	ug/l	10.0		90	65-135			
Benzene	8.99	0.50	0	10,0		90	70-125			
ert-Butyl alcohol	163	20	0	200		82	60-135			
Di-isopropyl ether	7.56	0.50	U	10,0		76	70-130			
1,2-Dibromoethane (EDB)	9.43	0.50	0	10,0		94	80-125			
1,2-Dichloroethane	9.36	0.50	0	10.0		94	75-125			
Ethanol	176	300	н	200		88	15-150			
Ethyl tert-butyl ether	8.23	0.50	U	10,0		82	65-130			
Ethylbenzene	9.07	0,50	ų	10.0		91	70-130			
Methyl tert-butyl ether	8.19	0.50	н	10.0		82	50-140			
l'oluene	8.51	0.50	14	10.0		85	70-120			
(vienes (total)	26,3	0.50	14	30.0		88	80-125			
Surrogate: Dibromofluoromethane	2.58		"	2.50		103	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.52		"	2,50		101	60-145			
Surrogate: Toluene-d8	2.48		"	2.50		99	70-130			
Surrogate: 4-Bromofluorobenzene	2.49		11	2.50		100	60-120			

Stratus Environmental Inc. [Arco]

ANALYTICAL TESTING CORPORATION

Test

Project: BP Heritage #11124, Oakland ,CA Project Number: G099D-0012 Project Manager: Jay Johnson MQB0414 Reported:

885 Jarvis Drive

Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308

www.testamericainc.com

02/26/07 15:46

TestAmerica - Morgan Hill, CA

Stratus Environmental Inc. [Arco]	Project:	BP Heritage #11124, Oakland ,CA	MQB0414
3330 Cameron Park Dr., Suite 550	Project Number:	G099D-0012	Reported:
Cameron Park CA, 95682	Project Manager:	Jay Johnson	02/26/07 15:46

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7B17001 - EPA 5030B P/T / E	PA 8260B									
Matrix Spike (7B17001-MS1)	Source: M	QB0412-01		Prepared	& Analyze	ed: 02/17/	07			
tert-Amyl methyl ether	19.8	1.0	ug/l	20.0	ND	99	65-135			
Benzene	19.8	1.0	и	20.0	0.28	98	70-125			
tert-Butyl alcohol	392	40	н	400	45	87	60-135			
Di-isopropyl ether	15.7	1.0	Ð	20.0	ND	78	70-130			
I,2-Dibromoethane (EDB)	22.8	1.0	0	20.0	ND	114	80-125			
1,2-Dichloroethane	18.5	1.0	0	20,0	ND	92	75-125			
Ethanol	329	600	u	400	ND	82	15-150			
Ethyl tert-butyl ether	17.2	1.0	11	20.0	ND	86	65-130			
Ethylbenzene	24.0	1.0	14	20.0	5.2	94	70-130			
Methyl tert-butyl ether	29.4	1.0	н	20.0	13	82	50-140			
Foluene	19.9	1.0	11	20.0	0.88	95	70-120			
Xylenes (total)	59.0	1.0	н	60.0	1.3	96	80-125			
Surrogate: Dibromofluoromethane	2.48		n	2.50		99	75-130			********
Surrogate: 1,2-Dichloroethane-d4	2.35		"	2.50		94	60-145			
Surrogate: Toluene-d8	2.52		(r	2.50		101	70-130			
Surrogate: 4-Bromofluorobenzene	2.61		"	2.50		104	60-120			
Matrix Spike Dup (7B17001-MSD1)	Source: M	QB0412-01		Prepared of	& Analyze	d: 02/17/	07			
ert-Amyl methyl ether	20.1	1.0	ug/l	20.0	ND	100	65-135	2	25	
Benzene	20.3	1.0	n	20,0	0.28	100	70-125	2	15	
ert-Butyl alcohol	396	40	11	400	45	88	60-135	1	35	
Di-isopropyl ether	16.0	1.0	а	20.0	ND	80	70-130	2	35	
1,2-Dibromoethane (EDB)	22.8	1.0	U	20.0	ND	114	80-125	0	15	
1,2-Dichloroethane	18.6	1.0	н	20.0	ND	93	75-125	0.5	10	
Ethanol	342	600		400	ND	86	15-150	4	35	
Ethyl tert-butyl ether	18.3	1,0		20.0	ND	92	65-130	6	35	
Ethylbenzene	24.1	1.0	и	20.0	5.2	94	70-130	0.4	15	
Methyl tert-butyl ether	29,6	1.0	н	20.0	13	83	50-140	0.7	25	
Foluene	20,5	1.0		20.0	0.88	98	70-120	3	15	
Xylenes (total)	59.7	1.0	н	60.0	1.3	97	80-125	T	15	
Surrogate: Dibromofluoromethane	2.47		11	2.50		99	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.31		"	2.50		92	60-145			
Surrogate: Toluene-d8	2.54		"	2.50		102	70-130			
Surrogate: 4-Bromofluorobenzene	2.58			2.50		103	60-120			

Test

ANALYTICAL TESTING CORPORATION

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.

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FAX (408) 782-6308

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682			mber: G(9 Heritage # 999D-0012 9 Johnson	11124, O	akland ,C/	A		Rep	30414 orted:)7 15:46
Volatile O	rganie Com	pounds b	y EPA	Method	826 0E	- Qual	ity Con	itrol		
	Te	stAmeric	a - Mo	rgan Hi	ll, CA					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7B17006 - EPA 5030B P/T / E	EPA 8260B									
Blank (7B17006-BLK1)				Prepared	& Analyz	ed: 02/17/	07			
ert-Amyl methyl ether	חא	0.50	ug/l					-		
Benzene	ND	0.50	н							
ert-Butyl alcohol	ND	- 20	11							
Di-isopropyl ether	ND	0.50	IF.							
,2-Dibromoethane (EDB)	ND	0.50	11							
,2-Dichloroethane	ND	0.50	и							
Ethanol	ND	300	11							
Ethyl tert-butyl ether	ND	0.50	*1							
Ethylbenzene	ND	0.50	*1							
Methyl tert-butyl ether	ND	0.50	*1							
Foluene	ND	0.50	11							
Xylenes (total)	ND	0.50	11							
Surrogate: Dibromofluoromethane	2.29		11	2,50		92	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.33		л	2.50		93	60-145			
Surrogate: Toluene-d8	2.38		"	2,50		95	70-130			
Surrogate: 4-Bromofluorobenzene	2.13		"	2,50		85	60-120			
Laboratory Control Sample (7B17006-E	3S 1)			Prepared a	& Analyz	ed: 02/17/	07			
ert-Amyl methyl ether	8.89	0,50	ug/l	10.0		89	65-135			
Benzene	8,48	0,50	14	10.0		85	70-125			
ert-Butyl alcohol	181	20	Ił	200		90	60-135			
Di-isopropyl ether	8.34	0.50	Ħ	10.0		83	70-130			
,2-Dibromoethane (EDB)	9,70	0.50	*1	10.0		97	80-125			
,2-Dichloroethane	9.35	0.50	ti	10.0		94	75-125			
Ethanol	221	300	u	200		110	15-150			
Ethyl tert-butyl ether	8.55	0.50	u	10,0		86	65-130			
Ethylbenzene	9.04	0.50		10.0		90	70-130			
Methyl tert-butyl ether	8.96	0.50	н	10.0		90	50-140			
Foluene	9.15	0.50	U	10.0		92	70-120			
Sylenes (total)	27.4	0.50	U	30.0		91	80-125			
Surrogate: Dibromofluoromethane	2,33		11	2.50		93	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.35		"	2,50		94	60-145			
Surrogate: Toluene-d8	2.24		**	2,50		90	70-130			
Surrogate: 4-Bromofluorobenzene	2.24		н	2.50		90	60-120			

Test

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ANALYTICAL TESTING CORPORATION

The results in this report apply to the samples analyzed in a coordance 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.

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Stratus Environmental Inc. [Arco]	Project: BP Heritage #11124, Oakland ,CA	MQB0414
3330 Cameron Park Dr., Suite 550	Project Number: G099D-0012	Reported:
Cameron Park CA, 95682	Project Manager: Jay Johnson	02/26/07 15:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

					-					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
		Guilt	Units	1.0461	Kesul	ANCE	Linna		LIIIII	roles
Batch 7B17006 - EPA 5030B P/T / E	PA 8260B									
Matrix Spike (7B17006-MS1)	Source: M	QB0414-01		Prepared	& Analyze	ed: 02/17/	07			
tert-Amyl methyl ether	9.34	0.50	ug/l	10.0	ND	93	65-135			
Benzene	9.42	0.50	н	10,0	ND	94	70-125			
tert-Butyl alcohol	204	20	н	200	ND	102	60-135			
Di-isopropyl ether	9.17	0.50	41	10,0	ND	92	70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	41	10,0	ND	104	80-125			
1,2-Dichloroethane	10.2	0.50	a	10.0	ND	102	75-125			
Ethanol	224	300	U	200	ND	112	15-150			
Ethyl tert-butyl ether	9.42	0.50	0	10.0	ND	94	65-130			
Ethylbenzene	10.0	0.50	U	10.0	ND	100	70-130			
Methyl tert-butyl ether	10.7	0.50	0	10.0	1.1	96	50-140			
Toluene	9.70	0.50	11	10.0	ND	97	70-120			
Xylenes (total)	30.2	0.50	19	30.0	ND	101	80-125			
Surrogate: Dibromofluoromethane	2.36		n	2,50		94	75-130			
Swrogate: 1,2-Dichloroethane-d4	2.17		11	2.50		87	60-145			
Surrogate: Toluene-d8	2.26		IT	2,50		90	70-130			
Surrogate: 4-Bromofluorobenzene	2.24		н	2,50		90	60-120			
Matrix Spike Dup (7B17006-MSD1)	Source: M	QB0414-01		Prepared	& Analyze	ed: 02/17/	07			
tert-Amyl methyl ether	10.0	0.50	ug/1	10.0	ND	100	65-135	7	25	
Benzene	9.27	0.50	11	10.0	ND	93	70-125	2	15	
tert-Butyl alcohol	199	20	14	200	ND	100	60-135	2	35	
Di-isopropyl ether	9.23	0.50	17	10.0	ND	92	70-130	0.7	35	
1,2-Dibromoethane (EDB)	11.1	0.50	1+	10.0	ND	111	80-125	7	15	
1,2-Dichloroethane	10.2	0.50	и	10.0	ND	102	75-125	0	10	
Ethanol	198	300	и	200	ND	99	15-150	12	35	
Ethyl tert-butyl ether	9.63	0.50	и	10.0	ND	96	65-130	2	35	
Ethylbenzene	9.66	0.50	и	10.0	ND	97	70-130	3	15	
Methyl tert-butyl ether	11.1	0.50	н	10.0	1,1	100	50-140	4	25	
Toluene	9.75	0.50	и	10.0	ND	98	70-120	0.5	15	
Xylenes (total)	30.3	0.50	н	30.0	ND	101	80-125	0.3	15	
Surrogate: Dibromofluoromethane	2.38		17	2.50		95	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.42		"	2.50		97	60-145			
Surrogate: Toluene-d8	2.34		н	2.50		94	70-130			
Surrogate: 4-Bromofluorobenzene	2.21		11	2,50		88	60-120			





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3330 Ca	Environmental Inc. [Arco] meron Park Dr., Suite 550 n Park CA, 95682	Project: BP Heritage #11124, Oakland ,CA Project Number: G099D-0012 Project Manager: Jay Johnson	MQB0414 Reported: 02/26/07 15:46
		Notes and Definitions	
DET	Analyte DETECTED		
ND	Analyte NOT DETECTED at or above	the reporting limit or MDL, if MDL is specified	
NR	Not Reported		
dry	Sample results reported on a dry weight	t basis	

RPD Relative Percent Difference

	Atlantic Richfield Company A BP affiliated company	Proje BP Bl	et Nan U/AR I	ie: Regioi	ı/Enfos ulator;	y Record BP 11124 s Segment: y Agency: quested Due Date					st > Re	etail >	<u>CA ></u>	Alun	neda>	1112/ 	1	Off- Sky Metr	site Con	Tim Tim ditior ogicz eed:	e; 1s:	17	4î 16)	Temp: Temp:		
	Jame: TestAmerica	· · · · ·				BP/AR Facility No	.:	11	124									Con	sulta	nt/Co	ontrac	ctor:		Stratus E	nvironm	ental. Inc.	
1	ess: 885 Jarvis Drive					BP/AR Facility Ad	dress	:	3315	5 Hi	gh St	treet,	Oak	land	I			Add	ress:		333	0 Ca	mer	ron Park I			
	an Hill, CA 95937					Site Lat/Long:															Can	nero	n Pa	ırk, CA 9	5682		
	M: Lisa Race	0.70				California Global I	D#:				9							Con	sultar	nt/Co	ntrac	tor P	Proje	ct No.:	E1112	4-04	
	ax: 408-782-8156 408-782-630	8 (fax)				Enfos Project No.:			99D-0									Cons	sultar	nt/Co	ntrac	tor P	M:		Jay Jol	nison	
	R PM Contact: Paul Supple ass: 2010 Crow Canyon Place, Suit	100			∦	Provision or RCOF	(cir		-			vision						Tele/			_		_	000 / (53)) 676-6	005	
Audi	San Ramon, CA	e 150				Phase/WBS:			Monit		· · · ·			·				Repo		_						with EDF	
Tele/I					·	Sub Phase/Task: Cost Element:			Anely															@stratus	<u>nc.net</u>		
	Bottle Order No:			M	latrix	Cost Element		01-U	Contra		vati					·	Deer		_			c Ric	hfiel	ld Co.		·	
Item No.	Sample Description	Time	Date	Soil/Solid Water/Limid	Air	Laboratory No.	No. of Containers	Inpreserved		3,	HCI	Methanol		GRO/BTEX/Oxy*	I,2 DCA	EDB	al by 8260	ested	TAI		•				Co 1TBD, 1	nt Lat/Long mments FAME, ET FBA	-
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2	MW-2	1647	10101	x		02	3										t										
			┝─ <u></u> ┣──								x						x	_									
	MW-4	1625	⊢-/			03	3				X			x	x	X	х										
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. ``	Custody Seals In Place: (Yes) N	lo	Temp	Blank	Yes/ N	No Cooler 7	emn	(nn)	Recei	int.		°F(r J	1	Τ-	n P	lonk	(Yes	V NT-			7404	A 4 611	D. Cameric	<u> </u>	1. 1. 1. 1.	
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and a second	TEST	AMERICA SAMPI	E RECEIP	<u>r log</u>					
CLIENT NAME: <u>BP</u> REC. BY (PRINT) <u>A.M.</u> WORKORDER: <u>MQB0414</u>	··· · · · · · · · · · · · · · · · · ·	DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:		-07 35 19	2113		-	tory Purpose WATER YES ATER YES	
CIRCLE THE APPROPRIATE RESPONSE	LAB ·SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION		рН	SAMPLE	DATE SAMPLED	REMARI CONDITION	1
1. Custody Seal(s) (Present) Absent (Intacty Broken*		· · · · · · · · · · · · · · · · · · ·						· · ·	=7
2. Chain-of-Custody . Presently Absent*			r			•		<u>·</u>	\vdash
3. Traffic Reports or Packing List: Present / Absent									
4. Airbill: Airbill) Sticker					•			·	<u> </u>
5. Airbill #: See Attached		· · · · · · · · · · · · · · · · · · ·				· .	di	· · · ·	
6. Sample Labels: Present / Absent		· · · · · · · · · · · · · · · · · · ·		·		· · · · · · · · · · · · · · · · · · ·			· • •
on Chain-of-Custody		•				St.			
8. Sample Condition: (htac? / Broken* / Leaking*		· · · · · · · · · · · · · · · · · · ·							·
9. Does information on chain-of-custody, traffic reports and sample labels			· · · · · · · · · · · · · · · · · · ·		- • •		· · ·		· ·
agree? Yesy No*			- 5/					·	
0. Sample received within hold time?			······································		· · · ·			<u> </u>	· · · ·
1. Adequate sample volume			<u>.</u>				·]	·	•
received? (es/ No* 2. Proper preservatives used? (res / No*			·		· · · ·			· · · ·	·
3. Trip Blank / Temp Blank Received?					·		·		
(circle which, if yes) (es) No* 4. Read Temp; (g*C	· · ·	······································	·					· · · · · · · · · · · · · · · · · · ·	···
Corrected Temp: 6°C						·.		·	
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Exception (if any): METALS / DFF ON ICE or Problem COC			· · · · ·	· · · · · · · · · · · · · · · · · · ·	· · ·				
SRL Revision 8 Replaces Rev 7 (07/19/05) Effective 09/13/06	*IF.CIRCLE	D, CONTACT PROJECT	MANAGER ANI	D.ATTACH	REC		RESOLUTIO Pag	N	
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California Overnight Shipping Label



1-808-334-5000 / www.calover.com

Date Printed 2/12/2007

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



Tracking#D10010120563667

Sent By: TIM ALBRIGHT Phone#: (916)921-9600 wgt(lbs): 60 Reference: Decl. Value: \$0.00

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

Service: **S** Sort Code: **SJC**

Special Services:



APR 0 2 2007

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

March 30, 2007

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

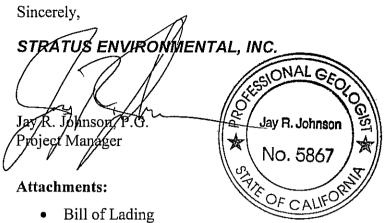
APR 0 4 2007

Re: Groundwater Sampling Data Package, BP Service Station No. 11124, located at 3315 High Street, Oakland, California (Quarterly Monitoring performed on March 15, 2007)

General Information

Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson Phone Number: (530) 676-6000 On-Site Supplier Representative: Jerry Gonzales Date: February 6, 2007 $- \frac{3}{13}/2007$ TV Arrival: 16:00 Departure: 017:40 Weather Conditions: Clear Unusual Field Conditions: None Scope of Work Performed: Quarterly monitoring and sampling Variations from Work Scope: Site was re-visited to collect samples from the two new monitoring wells MW-5 and MW-6.

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



• Field Data Sheets

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- Chain of Custody Documentation
- Certified Analytical Results

CC: Mr. Paul Supple, BP/ARCO

BP GEM OIL COMPANY

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

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

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

11124 Station # Oakland – 3315 High Street Station Address Total Gallons Collected From Groundwater Monitoring Wells: 59 Added Equipment Any Other. Rinse Water \mathcal{O} Adjustments TOTAL GALS. loaded onto RECOVERED Doulos vehicle # Stratus Project # time date <u>1100 3113107</u> Signature

RECEIVED AT

Unloaded by

Signature

TYPE **A** BILL OF LADING

Forred \$19/07

date

time

BP 5786 2100 31 15 107

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AK-8	530 -	1100		HY	DROLOG	GIC DAT	'A SHEET			
	Gauge Date				_	Pro	ject Name	: Oakland - 33.	15 High Street	
Field	Technician	: Jei	rç		_	Proje	ct Number:	11124		
	TOC = Tep of DTP = Depth to DTW = Depth to DTB = Depth to	Free Product	t (FP or NAP1 rr Below TOC		•			Casing Diameter andwater Elevation cate		
WELL OR LOCATION	TIME			MEASU	REMENT			PURGE & SAMPLE	SHEEN CONFIRMATION	COMMENTS
		тос	DTP	DTW	DTB	DIA	ELEV		(w/bailer)	
New-1	8:50			1 /	1					
NW-1 NW 2 NW-4 NW 5 NW 6	8.58			7.55	2.8.80					25.72
un 4	8:55			7.56	3018					
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MN 6	9:05			782	29.55					
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•	BP ALAMEDA P	··· · · · · · ·	
• •	WATER SAMPLE FIEI	D DATA SHEET	
PROJECT #: 11124	PURGED BY:	WELL I.D.: MC-/	
CLIENT NAME:	SAMPLED BY: 5	WELL I.D.: SAMPLE I.D.:	
LOCATION: Oakland - 3315 Hig	h Street	QA SAMPLES:	
7	· •		
DATE PURGED 3イラーク	START (2400hr)		
DATE SAMPLED 3-13-07	SAMPLE TIME (2400hr)	9:20	
SAMPLE TYPE: Groundwater	x Surface Water	Trestment Effluent Other	
CASING DIAMETER: 2" Casing Volume: (gallons per foot) ((3* 4 ⁻ (0.38)	$- \frac{5^{*}}{(1.02)} \frac{6^{*}}{(1.50)} \frac{8^{*}}{(2.60)} \frac{0}{(1.60)}$	
	1.45		
	<u>462</u>	CASING VOLUME (gal) = $4 \cdot 2$	
DEPTH TO WATER (feet) = WATER COLUMN HEIGHT (feet) =	24.8	CALCULATED PURGE (gal) = $\frac{72.5}{3.0}$	
WATER COLUMIN REIGHT (IEEI) =		ACTUAL PURGE (gal) = / 5.0	
	FIELD MEASURE	MENTS	
DATE TIME VOLUM (2400hr) (gal) $3/3\cdot37$ $9:/3$ $4-$		JCTIVITY pH COLOR TURBIDIT hos/cm) (units) (visual) (NTU)	
$\frac{3(3)}{1}$ $\frac{7(1)}{9:14}$ $\frac{4-}{8}$	7 700 70	12 772 4	
9:15 13.0	20.5 28	94 730	
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126	SAMPLE INFORM	ATION	
SAMPLE DEPTH TO WATER: 12.6		SAMPLE TURBIDITY: <u>Clean</u>	<u></u>
80% RECHARGE: XYES NO	ANALYSES:	see work orda	
ODOR: NO SAMP		1. LT. AMBER NP	
PURGING EQUIPMEN	-		
~	iler (Teflon)	SAMPLING EQUIPMENT Bladder Pump Bailer (Teflon)	
Centrifugal Pump Ba	iler (PVC)	Centrifugal Pump Bailer (PVC or Coispo	osal
	iler (Stainless Steel)	Submersible Pump Bailer (Stainless Steel)	
Other:		Peristalic Pump Dedicated	
Pump Depth: 2.5	Othe	l	
		11	
WELL INTEGRITY:		LOCK#: MOEFE	
REMARKS: 120 2.63			
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	BP ALAMEDA PORTFOLIO
, 	WATER SAMPLE FIELD DATA SHEET
PROJECT #: 11124 CLIENT NAME: LOCATION: Oakland - 3315 High	PURGED BY: J-O WELL I.D.: MW-2 SAMPLED BY: SAMPLE LD.: MW-2
DATE PURGED <u>3.13.85</u> DATE SAMPLED <u>3.13.97</u> SAMPLE TYPE: Groundwater	START (2400hr) 936 END (2400hr) 9'39 SAMPLE TIME (2400hr) 9'45 Surface Water Trestment Effluent Other
CASING DIAMETER: 2" Casing Volume: (gallons per foot) (0.1	$\frac{3^{*}}{77} \frac{3^{*}}{(0.38)} \frac{4^{*}}{(0.67)} \frac{5^{*}}{(1.02)} \frac{6^{*}}{(1.50)} \frac{8^{*}}{(2.60)} \frac{0}{(1.60)} \frac{1}{(1.60)} \frac{1}{(1.60)} $
DEPTH TO BOTTOM (feet) = $\frac{2.8}{5.5}$ DEPTH TO WATER (feet) = $\frac{5.5}{2.6}$ WATER COLUMN HEIGHT (feet) = $\frac{2.8}{2.6}$	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array} \end{array} \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \\ \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $
••••••••••••••••••••••••••••••••••••••	FIELD MEASUREMENTS
DATE TIME VOLUM (2400hr) (gal) (2400hr) $(J-G)(J-G)$ $(J-G)$ $(J-G)(J-G)$ $(J-G)(J-G)$ $(J-G)$ $(J-G)$ $(J-G)(J-G)$ $(J-G)$ $(J-G)$ $(J-G)(J-G)$ $(J-G)$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
SAMPLE DEPTH TO WATER: 8. /	SAMPLE INFORMATION SAMPLE TURBIDITY: Clocky
80% RECHARGE: <u>Y</u> ES NO ODOR: <u>1</u> SAMPLE	ANALYSES: <u>See</u> work order
Centrifugal Pump Baile	SAMPLING EQUIPMENT r (Teflon) r (PVC) r (Stainless Steel) Submersible Pump Bailer (Peristalic Pump Dedicated
REMARKS: <u>Do 4.83</u>	
SIGNATURE:	Page of
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t	W	ATER SAMP	LE FIELD I	DATA SHEI	<u>ET</u>		
PROJECT #: 11124		PURGED BY:	te		WELL I.	D.: 1	-4
CLIENT NAME:		SAMPLED BY:	Ð		SAMPLI		1. 01
LOCATION: Oakland - 3	315 High Str	eet			QA SAM		
DATE PURGED 3-/3-0	خ ל		9	25		Q 7	28
DATE PURGED $5-/3-0$ DATE SAMPLED $3-/3-0$	<u>/</u> 24	START (2400br)		7:32	END (24	00hr)	2 (r)
	ndwater x	SAMPLE TIME Surface Wa	· · ·	Treatment Ef		– Other	
CASING DIAMETER: Casing Volume: (gallons per foot)	2* (0.17)	3* (0.38)	4" (0.67)	5" (1.02)	6* <u>(1.50)</u>	8" (2.60)	Other ()
DEPTH TO BOTTOM (feet) =	30.18	r		CASING VO	LUME (gal) =	3.8	2
DEPTH TO WATER (feet) =	7.5.	5			ED PURGE (gz		
WATER COLUMN HEIGHT (feet)	= 72	. 6		ACTUAL PU			.0
		FIELD	MEASUREMEN	ITS		······	
DATE TIME	VOLUME	TEMP.	CONDUCTI		pН	COLOR	TURBIDITY
3-13-11 (2400hr) 3-13-11 9-76	(gal)	(degrees E)	(umhos/c			(visual)	(NTU)
1 927		10.7	455		572	<u>clean</u>	<u> </u>
	-75	145	1/65		7.5		
	1.6	101	2765	<u> </u>	1.10		
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SAMPLE DEPTH TO WATER: _	7.83	SAMPL	E INFORMATIC		MPLE TURBI	олту: <u>/</u> е	
80% RECHARGE: \angle YES	NO	ANA	LYSES: <u>Se</u>	ewerk	order		
ODOR:	SAMPLE VES	SEL / PRESERVA	TIVE: <u>7</u>	LTAM	Ber A	A	
PURGING EC	UIPMENT	·		SA	MPLING EQUI	PMENT	
Bladder Pump	Bailer (Te			lder Pump		ੜ (Teflon)	
Centrifugal Pump Submersible Pump	Bailer (PV	C) inless Steel)		trifugal Pump	Baile	T (PVC	or
Peristalic Pump	Bailer (Sta Dedicated			mersible Pump stalic Pump	Baile	r (Stainless Steel cated	9 .
Other:			Other:				
Pump Depth: 25					<u> </u>	·	
WELL INTEGRITY: COS	l	······································	1	I	.оск#: 14	Insta	. <u></u> .
	53						
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PROJECT #: 11124	WATER SAMPLE FD			
PROJECT #: 11124		LD DATA SHE	ET	
	PURGED BY:		WELL I.D.:	M-5
CLIENT NAME:	SAMPLED BY:	25	SAMPLE I.D.:	aus
LOCATION: Oakland - 3315 High	Street		QA SAMPLES:	1
DATE PURGED 313.07	START (2400hr)	0:16	END (2400br)	0:18
DATE PORGED 3/3.0/	SAMPLE TIME (2400hr)			<u> </u>
SAMPLE TYPE: Groundwater x		Treatment Ei		•
	~			
CASING DIAMETER: 2* 2 Casing Volume: (gallons per foot) (0.1	7) 3" (0.38) 4" (0.6	7) 5" (1.02)	6" <u>8"</u> (2.)	60) Other (
DEPTH TO BOTTOM (feet) = 28	-82	CASING VO)LUME (gal) = 3	.5
DEPTH TO WATER (feet) = $\frac{\mathcal{S}_{c}}{\mathcal{S}_{c}}$	72			10.7
WATER COLUMN HEIGHT (feet) =	د (ACTUAL PL	JRGE (gal) =/	11.0
	FIELD MEASU	EMENTS		
DATE TIME VOLUMI	TEMP. CON	UCTIVITY	pH COLO	R TURBIDITY
(2400hr) (gal) 3-13-57 10:19 3-5	(degrees F) (i	mhos/cm)	(units) (visual)	
10:18 200		567	<u>738 c/00</u>	<u></u>
10:19 11.0	$-\frac{-}{22-1}$	65 -	7.36 2/00	<u>~ </u>
		<u> </u>		• <u>•</u> ••••••••••••••••••••••••••••••••••
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			·····	
SAMPLE DEPTH TO WATER: 1.3-7	SAMPLE INFOR		MPLE TURBIDITY:	C/ear
10% RECHARGE: <u>V</u> YES NO	ANALYSES:	Seework	cordur	
	VESSEL / PRESERVATIVE:	3Voa-Hcc	1. LTAMB	er NP
PURGING EQUIPMENT		SA	MPLING EQUIPMENT	****
	r (Teflon)	Bladder Pump	Bailer (Teflon)	
	r (PVC)	Centrifugal Pump Submersible Pump	Bailer (Bailer (Stainles	_PVC or disposa
	aled	Peristalic Pump	Dedicated	········
Diher:	O	ier:		
ump Depth: 25				
VELL INTEGRITY: 500-9			LOCK#: DOIL	na
EMARKS: 10 1-84	· · · · · · · · · · · · · · · · · · ·			
EMARKS: 10 10		<u></u>	· · · · · · · · · · · · · · · · · · ·	
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	BP ALAMEDA P	ORTFOLIO	<u> </u>	
	WATER SAMPLE FIEL	D DATA SHEET		
PROÆCT#: <u>11124</u>	_ · · · · · · · · · · · · · · · · · · ·		WELL I.D.: M	v. 6
CLIENT NAME: LOCATION: Oakland - 3315 High	SAMPLED BY:		SAMPLE I.D.: M	6
	Sueei	·····	QA SAMPLES:	
DATE PURGED7	START (2400hr)		END (2400hr)	58
DATE SAMPLED 3-13 32	SAMPLE TIME (2400hr)	10.08		
SAMPLE TYPE: Groundwater	Surface Water	- Treatment Effluent	Other .	
CASING DIAMETER: 2* X Casing Volume: (gallons per foot) (0.1	3" 4" 7) (0.38) 4" (0.67)	- ⁵ <u>(1.02)</u> ⁶	(1.50) 8" (2.60)	Other
DEPTH TO BOTTOM (feet) = 29	.55	CASING VOLUMI	E(eal) = 3.6	>
DEPTH TO WATER (feet) = 7	53	CALCULATED PL		0
	1.5	ACTUAL PURGE		
	FIELD MEASURE	MENTS		
DATE TIME VOLUME (2400hr) (gal)	E TEMP. CONDU (degrees F) (uml	CTIVITY pH los/cm) (ynits)	COLOR (visual)	TURBIDITY (NTU)
3-13-17 9:56 7.6	- 223 6	$\frac{2}{7}$ $\frac{1}{7}$	$\frac{\gamma}{27} - \frac{C/\alpha d \alpha}{1}$	1
7:57 716	22.9 6	85 7.2	7	
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<u> </u>				
SAMPLE DEPTH TO WATER: 9-0	SAMPLE INFORM.	SAMPLE	TURBIDITY: <u>cle</u>	<u>en</u>
80% RECHARGE: YES NO	ANALYSES: <u>_</u>	here work and	lec	
ODOR: SAMPLE	VESSEL / PRESERVATIVE:	Noa-Hec - 1	LT AMBOR N	q'
PURGING EQUIPMENT			NG EQUIPMENT	
		Bladd er Pump	Bailer (Teflon)	
		Centrifugal Pump	Bailer (PVC Bailer (Stainless Stee	or disposable)
Peristalic Pump Dedic		Peristalic Pump	Dedicated	
Other:	Other	•		
Pump Depth: 25			—	
WELL INTEGRITY: 5000		LOCK	: Dolpen	
REMARKS: DO 1.92				
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	MaL .		State	or Lea	d R	egu		-	Agency:										-							~	me c			
Ę	A BP affiliated c	ompany					R	equ	iested Due Date	(mn	n/dd	l/yy)	:	<u> </u>		<u></u>		·	-		Win	d Sp	eed;	\mathcal{O}		178 MR 194	v film hav sloan strengt	Directio	n: -O-	Ng
Lab ⁱ 1	Name: TestAmerica							1	BP/AR Facility No).;	1	1124	-				<u></u>	<u></u>			Con	sulta	nt/Cu	mtra	ctor:		Stratus F	Invironmer	ital Inc	
Add	ress: 885 Jarvis Driv	e							BP/AR Facility Ad					lgh S	Stree	t, Oak	land	1			1	ress;				imer		Drive, Su		
Morg	gan Hill, CA 95937	-							Site Lat/Long:																		rk, CA S			
	PM: Lisa Race								California Global I		TO	6001	0019	919							Con	sulta	nt/Co	ontra	otor I	roje	ct No.:	B11124	-04	
-	Fax: 408-782-8156		8 (fax)						Enfos Project No.:)99D	-001								Con	sulta	_		ctor I			Jay Johr		
	R PM Contact: Pau				····.				Provision or RCOI	<u>' (ci</u>		_			ovisi	on					<u>ا</u>	/Fax:					000 / (53	0) 676-60	105	
Addr	ress: 2010 Crow Cany		e 150				-		Phase/WBS:	·		-Mor							· · · ·						l lov				with EDF	
T-1-1	San Ramon, CA Fax: 925-275-3506								Sub Phase/Task:		_	-Ana	Z		.												Polratu	<u>Inc.net</u>		
	Bottle Order No:) 			1	Ma	trix.	╡	Cost Element:	<u>.</u>		-Con		or lab ervai						17					e Ric	hille	d Co.			
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Item No.	Sample Desc	cription	Time	Date	Soil/Solid	WaterLiquid	Aīr		Laboratory No.	No. of Container	Undreserved	H ₂ SO4	HNO,	HCI	Methanol		GRO/BTEX/Oxy*	1,2 DCA	EDB	Ethanol by \$260	DRO							Con MTBD, T.	t Lat/Long iments AME, ETI 'BA	•
1	MW-1		920	3-13-7		x				17		T		x	T		-24	[X									
2	MW-2		945	1	Γ	x				17		1.		x							x									
3	MW-4		9:32			x				1			1	x	\top	┤╴╢			1		x				·	1				
4	MW-5		10:42			x				4		1		x	-		x	x	x	x	x									
5	MW-6		10 68	Π		x				4		1		x					x											
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	al Instructions:		Please c	e resul	ts to:	: rm	iller(ال Dbr	roadbentinc.com							ال		الحج												<u> </u>
	Custody Seals In P	lace: Yes / No		Temp	Bla	nk: `	Yes /	No	Cooler T	'em:	1.05	Rec	alet		01	E/C	1		I 17	lavel.	. 17	/			1.4=					
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885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.testamericainc.com

23 March, 2007

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

RE: BP Heritage #11124, Oakland ,CA Work Order: MQC0512

Enclosed are the results of analyses for samples received by the laboratory on 03/15/07 08:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race Senior Project Manager

CA ELAP Certificate # 1210

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

Page 1 of 12



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: BP Heritage Project Number: G099D-001 Project Manager: Jay Johnson	2	d ,CA	MQC0512 Reported: 03/23/07 11:13
	ANALYTICAL REPORT FOR SAMP	LES		
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQC0512-01	Water	03/13/07 09:20	03/15/07 08:30
MW-2	MQC0512-02	Water	03/13/07 09:45	03/15/07 08:30
MW-4	MQC0512-03	Water	03/13/07 09:32	03/15/07 08:30
MW-5	MQC0512-04	Water	03/13/07 10:42	03/15/07 08:30
MW-6	MQC0512-05	Water	03/13/07 10:08	03/15/07 08:30
TB 11124	MQC0512-06	Water	03/13/07 06:00	03/15/07 08:30

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with no custody seals.

TestAmerica - Morgan Hill, CA



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		Project Nur Project Man	nber: G(‡11124, Oa	kland ,CA		MQC Repo 03/23/0	rted:
Tota	l Purgeable Test	e Hydrod Americ:		-	-	CA LUF	Г)		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Anatyzed	Method	Notes
MW-5 (MQC0512-04) Water Sampled: (03/13/07 10:42	Received:	03/15/0	7 08:30					
Gasoline Range Organics (C4-C12)	880	250	ug/l	5	7C21023	03/21/07	03/22/07	LUFT GCMS	**************************************
Surrogate: 1,2-Dichloroethane-d4		99 %	60-	-145	11	11	11	II	
MW-6 (MQC0512-05) Water Sampled: (03/13/07 10:08	Received:	03/15/0	7 08:30					
Gasoline Range Organics (C4-C12)	86	50	ug/l	1	7C20015	03/20/07	03/21/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		107 %	60-	-145	"	"	11	"	



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	,	Project Nur Project Man	- nber: G(411124, Oa	kland ,CA		MQC Repo 03/23/0	
Extractable I	•				-	by EPA	8015B		
	Tes	tAmeric	a - Mo	rgan Hi	ll, CA				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MQC0512-01) Water Sampled: 03/13	3/07 09:20	Received:	03/15/0	7 08:30					
Diesel Range Organics (C10-C36)	ND	48	ug/l	1	7C19016	03/19/07	03/21/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		77 %	30-	115	"	11	"	ti	
MW-2 (MQC0512-02) Water Sampled: 03/13	3/07 09:45	Received:	03/15/0	7 08:30					
Diesel Range Organics (C10-C36)	52	48	ug/l	I	7C19016	03/19/07	03/21/07	EPA 8015B-SVOA	HD
Surrogate: n-Octacosane		83 %	30-	115	"	л	"	tt	
MW-4 (MQC0512-03) Water Sampled: 03/13	3/07 09:32	Received:	03/15/0	7 08:30					
Diesel Range Organics (C10-C36)	ND	49	ug/l	l	7C19033	03/19/07	03/20/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		96 %	30-	115	*	11	11	n	
MW-5 (MQC0512-04) Water Sampled: 03/13	3/07 10:42	Received:	03/15/0	7 08:30					
Diesel Range Organics (C10-C36)	ND	48	ug/l	I	7C19033	03/19/07	03/20/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		95 %	30-	115	n	11	"	#	
MW-6 (MQC0512-05) Water Sampled: 03/13	3/07 10:08	Received:	03/15/0	7 08:30					
Diesel Range Organics (C10-C36)	ND	48	ug/l	I	7C19033	03/19/07	03/20/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		90 %	30-	115	n	21	"	**	



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		Pr Project Nur Project Mar	mber: G0	99D-0012	ŧ11124, Oa	kland ,CA		MQC(Repor 03/23/07	ted:
	Volatile Organ	-	•	•		od 8260]	В		
1	Test	Americ	a - Moi	rgan Hi	ll, CA				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-5 (MQC0512-04) Water San	apled: 03/13/07 10:42	Received:	: 03/15/07	08:30					
tert-Amyl methyl ether	6.5	5.0	ug/l	10	7C20015	03/20/07	03/21/07	EPA 8260B	
Benzene	ND	5.0		*1	и	и	u	U	
tert-Butyl alcohol	ND	200	6	+1	и	и	u	U	
Di-isopropyl ether	ND	5.0	u	41	м	н	U	v	
1,2-Dibromoethane (EDB)	ND	5.0	n	11	н	и	н	п	
1,2-Dichloroethane	ND	5.0	4	u	н	11	U	IJ	
Ethanol	ND	3000	11	*1	"	11	U	U	
Ethyl tert-butyl ether	ND	5.0	17	"	1	и	0 0		
Ethylbenzene	ND	5.0							
Methyl tert-butyl ether	1400	5.0	17		н	n	U U	U	
Toluene	ND	5.0	17	0 1)	м	н н	0	u u	
Xylenes (total)	ND	5,0							
Surrogate: Dibromofluoromethane		100 %	75-	130		u.	"	n	
Surrogate: 1,2-Dichloroethane-d4		104 %	60-	145	II.	ir.	"	n	
Surrogate: Toluene-d8		96 %	70-	130	17	"	"	"	
Surrogate: 4-Bromofluorobenzene		90 %	60-	120	"	л	"	"	
MW-6 (MQC0512-05) Water San	npled: 03/13/07 10:08	Received:	03/15/07	08:30					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7C19015	03/19/07	03/20/07	EPA 8260B	
Benzene	ND	0.50	11	н	11	H	0	и	
tert-Butyl alcohol	ND	20	*1	н	11	H.	0	н	
Di-isopropyl ether	ND	0.50	a	"	H	14	U	и	
1,2-Dibromoethane (EDB)	ND	0.50	U	Ħ	и	H.	U	н	
1,2-Dichloroethane	ND	0.50	U	ท	и	н	U	н	
Ethanol	ND	300	U	11	и	41	n	п	
Ethyl tert-butyl ether	ND	0.50	0	0	н	"	0	и	
Ethylbenzene	ND	0.50	17	a	"	"	0	н	
Methyl tert-butyl ether	88	0.50	17	a	"	"	H.	и	
Toluene	ND	0.50	и	0	11	n	14	и	
Xylenes (total)	ND	0.50	и	0	ti	n	17	H	·····
Surrogate: Dibromofluoromethane		92 %	75-,	130	11	н	"	"	
Surrogate: 1,2-Dichloroethane-d4		88 %	60-	145	17	н	n	п	
Surrogate: Toluene-d8		94 %	70	130	17	tt	"	"	
Surrogate: 4-Bromofluorobenzene		86 %	60-	120	11	"	"	"	



Stratus Environmental Inc. [Arco]	Project: BP Heritage #11124, Oakland ,CA	MQC0512
3330 Cameron Park Dr., Suite 550	Project Number: G099D-0012	Reported:
Cameron Park CA, 95682	Project Manager: Jay Johnson	03/23/07 11:13
·		

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

TestAmerica - Morgan Hill, CA

				0						
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7C20015 - EPA 5030B P/T / LUF	r gcms									
Blank (7C20015-BLK1)				Prepared:	03/20/07	Analyzed	l: 03/21/07			
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.47		11	2.50		99	60-145			
Laboratory Control Sample (7C20015-BS2)				Prepared	& Analyze	ed: 03/20/	07			
Gasoline Range Organics (C4-C12)	494	50	ug/i	500		99	75-140			
Surrogate: 1,2-Dichloroethane-d-l	2.50		"	2.50		100	60-145			
Laboratory Control Sample Dup (7C20015-I	BSD2)			Prepared	& Analyze	ed: 03/20/	07			
Gasoline Range Organics (C4-C12)	488	50	ug/l	500		98	75-140	1	20	
Surrogate: 1,2-Dichloroethane-d4	2.50		n	2.50		100	60-1-15			
Batch 7C21023 - EPA 5030B P/T / LUF	r GCMS									
Blank (7C21023-BLK1)				Prepared:	03/21/07	Analyzed	l: 03/22/07			
Gasoline Range Organics (C4-C12)	ND	50	ug/l		*******		*****			*******
Surrogate: 1,2-Dichloroethane-d4	2,57		n	2.50		103	60-1-15		,	
Laboratory Control Sample (7C21023-BS2)				Prepared	& Analyza	:d: 03/21/	07			
Gasoline Range Organics (C4-C12)	449	50	ug/l	500	·	90	75-140			
Surrogate: 1,2-Dichloroethane-d4	2.41		11	2,50		96	60-145			
Laboratory Control Sample Dup (7C21023-I	BSD2)			Prepared	& Analyze	ed: 03/21/	07			
Gasoline Range Organics (C4-C12)	445	50	ug/l	500		89	75-140	0.9	20	
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-145			



Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682			nber: G	P Heritage # 099D-0012 y Johnson	111 24, O	akland ,C	4		Repo	C0512 orted: 17 11:13
Extractable Hydrocar		vith Silica stAmerica		-	-	8015B	- Qualit	y Cont	trol	
		Reporting	μ - 1 11 0	Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7C19016 - EPA 3510C / EPA 8015	B-SVOA									
Blank (7C19016-BLK1)				Prepared:	03/19/07	Analyzed	i: 03/20/07			
Diesel Range Organics (C10-C36)	ND	50	ug/1	-		_				
Surrogate: n-Octacosane	46.2		"	50.0		92	30-115			
Laboratory Control Sample (7C19016-BS1)				Prepared:	03/19/07	Analyzed	I: 03/20/07			
Diesel Range Organics (C10-C36)	361	50	ug/l	500		72	40-140			
Surrogate: n-Octacosane	39.7		17	50.0		79	30-115			
Laboratory Control Sample Dup (7C19016-BS	SD1)			Prepared:	03/19/07	Analyzed	1: 03/20/07			
Diesel Range Organics (C10-C36)	358	50	ug/l	500		72	40-140	0.8	35	
Surrogate: n-Octacosane	12.0		11	50.0		84	30-115			
Batch 7C19033 - EPA 3510C / EPA 80151	B-SVOA									
Blank (7C19033-BLK1)				Prepared:	03/19/07	Analyzed	l: 03/20/07			
Diesel Range Organics (C10-C36)	ND	50	ug/l							
Surrogate: n-Octacosane	38.7		11	50.0		77	30-115			
Laboratory Control Sample (7C19033-BS1)				Prepared:	03/19/07	Analyzed	1: 03/20/07			
Diesel Range Organics (C10-C36)	319	50	ug/l	500		64	40-140			
Surrogate: n-Octacosane	39.6	******	11	50.0		79	30-115		*******	
Laboratory Control Sample Dup (7C19033-BS	SD1)			Prepared:	03/19/07	Analyzed	1: 03/20/07			
Diesel Range Organics (C10-C36)	318	50	ug/l	500		64	40-140	0.3	35	
Surrogate: n-Octacosane	38.7		"	50.0		77	30-115			



Stratus Environmental Inc. [Arco]

MQC0512

3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682		Project Nur Project Mar		99D-0012 Johnson		·			Repo 03/23/0	rted: 7 11:13
Volatile Or	ganic Com	pounds by stAmeric	-			- Qual	ity Con	trol		
	16		a - 1910	<u> </u>	-					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7C19015 - EPA 5030B P/T / E	PA 8260B									
Blank (7C19015-BLK1)				Prepared:	03/19/07	Analyzed	: 03/20/07			
tert-Amyl methyl ether	ND	0.50	ug/l					*****	***********	*******
Benzene	ND	0.50	11							
tert-Butyi alcohol	ND	20	Ð							
Di-isopropyl ether	ND	0.50	11							
1,2-Dibromoethane (EDB)	ND	0.50	и							
I,2-Dichloroethane	ND	0.50	н							
Ethanol	ND	300	μ							
Ethyl tert-butyl ether	ND	0.50	н							
Ethylbenzene	ND	0.50	н							
Methyl tert-butyl ether	ND	0.50	н							
Foluene	ND	0.50	μ							
Xylenes (total)	ND	0,50	и							
Surrogate: Dibromofluoromethane	2.57		"	2.50		103	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.41		"	2.50		96	60-145			
Surrogate: Tohiene-d8	2.40		"	2.50		96	70-130			
Surrogate: 4-Bromofluorobenzene	2.37		"	2.50		95	60-120			
Laboratory Control Sample (7C19015-B	S1)			Prepared a	& Analyze	ed: 03/19/0)7			
tert-Amyl methyl ether	8.42	0.50	ug/l	10.0	-	84	65-135			
Benzene	9.65	0.50	μ	10.0		96	70-125			
ert-Butyl alcohol	193	20	41	200		96	60-135			
Di-isopropyl ether	8.25	0.50	41	10.0		82	70-130			
1,2-Dibromoethane (EDB)	9.51	0.50	41	10.0		95	75-140			
1,2-Dichloroethane	9.60	0.50	ti	10.0		96	75-125			
Ethanol	234	300	Ħ	200		117	15-150			
Ethyl tert-butyl ether	8.80	0.50	U	10.0		88	65-130			
Ethylbenzene	11.2	0,50	D	10.0		112	70-130			
Methyl tert-butyl ether	8.94	0.50	tr	10.0		89	50-140			
Toluene	10.3	0.50	11	10.0		103	70-120			
Xylenes (total)	32.6	0.50	II	30.0		109	80-125			
Surrogate: Dibromofluoromethane	2.25		11	2.50		90	75-130			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Surrogate: 1,2-Dichloroethane-d4	2.23		н	2.50		89	60-145			
Surrogate: Toluene-d8	2.32		"	2.50		93	70-130			
Surrogate: 4-Bromofluorobenzene	2.23		"	2.50		89	60-120			

Project: BP Heritage #11124, Oakland ,CA



Stratus Environmental Inc. [Arco]	Project: B	BP Heritage #11124, Oakland ,CA	MQC0512
3330 Cameron Park Dr., Suite 550	Project Number: C		Reported:
Cameron Park CA, 95682	Project Manager: J		03/23/07 11:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
		Linik	Units	LEVEI	Result	7010.0	12111113		Can	Hutea
Batch 7C19015 - EPA 5030B P/T / E										
Matrix Spike (7C19015-MS1)	*********	QC0475-09					1: 03/20/07			
tert-Amyl methyl ether	9,46	0.50	ug/1 "	10.0	ND	95	65-135			
Benzene	8.92	0.50		10.0	ND	89	70-125			
tert-Butyl alcohol	178	20	0	200	ND	89	60-135			
Di-isopropyl ether	8.58	0.50		10.0	ND	86	70-130			
1,2-Dibromoethane (EDB)	10.7	0.50	0	10.0	ND	107	75-140			
1,2-Dichloroethane	10.2	0.50	a	10.0	ND	102	75-125			
Ethanol	188	300	u	200	ND	94	15-150			
Ethyl tert-butyl ether	9.85	0.50	0	10.0	ND	98	65-130			
Ethylbenzene	9.55	0.50	U	10.0	ND	96	70-130			
Methyl tert-butyl ether	31.6	0.50	0	10.0	23	86	50-140			
Toluene	9.59	0.50	0	10.0	ND	96	70-120			
Xylenes (total)	28.5	0.50	U	30.0	ND	95	80-125			
Surrogate: Dibromofluoromethane	2.39		п	2.50		96	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.47		n	2.50		9 9	60-145			
Surrogate: Toluene-d8	2.39		#	2.50		96	70-130			
Surrogate: 4-Bromofluorobenzene	2.42		"	2.50		97	60-120			
Matrix Spike Dup (7C19015-MSD1)	Source: M	QC0475-09		Prepared:	03/19/07	Analyzed	1: 03/20/07			
tert-Amyl methyl ether	7.82	0.50	ug/l	10.0	ND	78	65-135	19	25	
Benzene	9.44	0.50	н	10.0	ND	94	70-125	6	15	
tert-Butyl alcohol	196	20	л	200	ND	98	60-135	10	35	
Di-isopropyl ether	7.69	0.50	и	10.0	ND	77	70-130	11	35	
1,2-Dibromoethane (EDB)	9.65	0.50	и	10.0	ND	96	75-140	10	15	
1,2-Dichloroethane	9.39	0.50	*1	10.0	ND	94	75-125	8	20	
Ethanol	245	300	11	200	ND	122	15-150	26	35	
Ethyl tert-butyl ether	8.39	0.50	11	10.0	ND	84	65-130	16	35	
Ethylbenzene	11.2	0.50	**	10.0	ND	112	70-130	16	15	1
Methyl tert-butyl ether	25.2	0.50	Ħ	10.0	23	22	50-140	23	25	1
Foluene	9.98	0.50	*1	10.0	ND	100	70-120	4	15	
Xylenes (total)	33.0	0.50	*1	30.0	ND	110	80-125	15	15	
Surrogate: Dibromofluoromethane	2.20		11	2.50		88	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.15		"	2.50		86	60-145			
Surrogate: Toluene-d8	2.35		"	2,50		94	70-130			
Surrogate: 4-Bromofluorobenzene	2.19			2.50		88	60-120			

TestAmerica - Morgan Hill, CA



Stratus Environmental Inc. [Arco]	Project:	BP Heritage #11124, Oakland ,CA	MQC0512
3330 Cameron Park Dr., Suite 550	Project Number:	G099D-0012	Reported:
Cameron Park CA, 95682	Project Manager:	Jay Johnson	03/23/07 11:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

······································		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Keporting Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7C20015 - EPA 5030B P/T / EF	PA 8260B									
Blank (7C20015-BLK1)				Prepared:	03/20/07	Analyzed	: 03/21/07			·
tert-Amyl methyl ether	ND	0.50	ug/l	<u>·</u>						
Benzene	ND	0.50	0							
tert-Butyl alcohol	ND	20	ŋ							
Di-isopropyl ether	ND	0.50	H							
1,2-Dibromoethane (EDB)	ND	0.50	н							
1,2-Dichloroethane	ND	0.50	n							
Ethanol	ND	300	н							
Ethyl tert-butyl ether	ND	0.50	н							
Ethylbenzene	ND	0.50	н							
Methyl tert-butyl ether	ND	0.50	Ħ							
Toluene	ND	0.50	+1							
Xylenes (total)	ND	0.50	11							
Surrogate: Dibromofluoromethane	2.49		н	2.50		100	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.47		n	2.50		<i>99</i>	60-145			
Surrogate: Toluene-d8	2,41		н	2.50		96	70-130			
Surrogate: 4-Bromofluorobenzene	2.25		н	2.50		90	60-120			
Laboratory Control Sample (7C20015-BS	1)			Prepared a	& Analyze	ed: 03/20/0)7			
tert-Amyl methyl ether	9.88	0.50	ug/i	10,0		99	65-135			
Benzene	9.66	0.50	н	10.0		97	70-125			
tert-Butyl alcohol	195	20	u	200		98	60-135			
Di-isopropyl ether	9.07	0.50	u	10,0		91	70-130			
1,2-Dibromoethane (EDB)	11.1	0.50	u	10,0		111	75-140			
1,2-Dichloroethane	I 1.0	0.50	u	10,0		110	75-125			
Ethanol	230	300	41	200		115	15-150			
Ethyl tert-butyl ether	10.3	0.50	41	10.0		103	65-130			
Ethylbenzene	10.2	0.50	11	10.0		102	70-130			
Methyl tert-butyl ether	10,4	0.50	*1	10,0		104	50-140			
Toluene	10,4	0.50	*1	10.0		104	70-120			
Xylenes (total)	31.2	0.50	11	30.0		104	80-125			
Surrogate: Dibromofluoromethane	2.38	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	n	2,50		95	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.55		"	2.50		102	60-145			
Surrogate: Toluene-d8	2.34			2.50		94	70-130			
Surogue, rouene-ua						27	70-120			



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Stratus Environmental Inc. [Arco]	Project: Project Number:	BP Heritage #11124, Oakland ,CA	MQC0512 Reported:
3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project Manager:		03/23/07 11:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7C20015 - EPA 5030B P/T / E	PA 8260B									
Matrix Spike (7C20015-MS1)	Source: MQ	DC0510-09		Prepared:	03/20/07	Analyzed	l: 03/21/07			
tert-Amyl methyl ether	9.74	0.50	ug/l	10.0	ND	97	65-135			
Benzene	9.33	0.50	н	10.0	ND	93	70-125			
tert-Butyl alcohol	184	20	м	200	ND	92	60-135			
Di-isopropyl ether	9.09	0.50	ŧ	10.0	ND	91	70-130			
1,2-Dibromoethane (EDB)	11.1	0.50	ti	10.0	ND	111	75-140			
1,2-Dichloroethane	10.9	0.50	0	10.0	ND	109	75-125			
Ethanol	184	300	U	200	ND	92	15-150			
Ethyl tert-butyl ether	10.4	0.50	U	10.0	ND	104	65-130			
Ethylbenzene	9.49	0.50	17	10.0	ND	95	70-130			
Methyl tert-butyl ether	11,5	0.50	17	10.0	0.79	107	50-140			
Toluene	9.84	0.50	n	10.0	ND	98	70-120			
Xylenes (total)	28.3	0.50	14	30.0	ND	94	80-125			
Surrogate: Dibromofluoromethane	2.50		н	2.50		100	75-130			*******
Surrogate: 1,2-Dichloroethane-d4	2.60		"	2,50		104	60-145			
Surrogate: Toluene-d8	2.45		"	2,50		98	70-130			
Surrogate: 4-Bromofluorobenzene	2.40		"	2,50		96	60-120			
Matrix Spike Dup (7C20015-MSD1)	Source: MQ	2C0510-09		Prepared:	03/20/07	Analyzed	: 03/21/07			
tert-Amyl methyl ether	10.7	0.50	ug/l	10.0	ND	107	65-135	9	25	
Benzene	9.96	0,50	н	10.0	ND	100	70-125	7	15	
tert-Butyl alcohol	196	20	н	200	ND	98	60-135	б	35	
Di-isopropyl ether	9.86	0.50	н	10.0	ND	99	70-130	8	35	
1,2-Dibromoethane (EDB)	12.3	0.50	н	10.0	ND	123	75-140	10	15	
1,2-Dichloroethane	12.1	0.50	я	10,0	ND	121	75-125	10	20	
Ethanol	189	300	ħ	200	ND	94	15-150	З	35	
Ethyl tert-butyl ether	11.2	0.50	**	10.0	ND	112	65-130	7	35	
Ethylbenzene	10.2	0.50	4	10.0	ND	102	70-130	7	15	
Methyl tert-butyl ether	12.6	0.50	(I	10.0	0.79	118	50-140	9	25	
Toluene	10.4	0.50	"	10.0	ND	104	70-120	6	15	
Xylenes (total)	31.6	0.50	0	30.0	ND	105	80-125	11	15	
Surrogate: Dibromofluoromethane	2.61		"	2.50	*****	104	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.56		n	2.50		102	60-145			
Surrogate: Toluene-d8	2.44		n	2.50		98	70-130			
Surrogate: 4-Bromofluorobenzene	2.48		"	2,50		99	60-120			



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

3330 C	Environmental Inc. [Arco] ameron Park Dr., Suite 550 on Park CA, 95682	Project: Project Number: Project Manager:		MQC0512 Reported: 03/23/07 11:13				
<u> </u>		Notes and De	finitions					
SG	A silica gel cleanup procedure was p	performed.						
PV	PV Hydrocarbon result partly due to individ. peak(s) in quant. range							
LN	MS and/or MSD below acceptance l	limits. See Blank Spike(LC	'S).					
HD	Chromat, profile inconsistent with p	attern(s) of ref. fuel stnds.						
BA	Relative percent difference out of co	ontrol						
DET	Analyte DETECTED							
ND	Analyte NOT DETECTED at or above the	e reporting limit or MDL, if M	IDL is specified					
NR	Not Reported							
dry	Sample results reported on a dry weight	basis						
RPD	Relative Percent Difference							

TestAmerica - Morgan Hill, CA



Environmental, Inc.

Telephone: (916) 990-0333 FAX: (916) 990-0332 e-mail: doulosenv@comcast.net

P.O. Box 2559, Orangevale, CA 95662

FAX

To: Lisa Race Test America

Fax: (408) 782-6308

From: Monika Stover

Pages²

Phone (408) 782-8156

Date: 3/19/07

RE: BP 11124

Comments:

Hi Lisa,

Following, please find a Revised COC for the Arco site BP11124. Please note date the results are needed is 3/23/07.

Please call us if you have any questions.

Monika

MQ20512

p.1

Ailantia	** Revised COC **			age_1_of_1			
Atlantic Richfield Company State or Lead Regulat	y Record	APR	On-site Time:	Temp:			
KICHTICIC Project Name:	DF 11124	ISED	Off-site Time:	Тепер:			
COMDANV BP BU/AR Region/En	BP > Americas > West :	Retail > CA > Alameda>11124	Sky Conditions:				
		Meteorological Events:					
A BP affiliated company	equested Due Date (mm/dd/yy);	3/23/2007	Wind Speed;	Direction:			
Lah Name: TestAmerica	BP/AR Facility No.: 11124		Consultant/Contractor Stratus En	viropmental. Inc.			
Address: 885 Jarvis Drive		Street, Oakland	Address: 3330 Cameron Park D	brive, Suite 550			
Morgan Hill, CA 95937	Site Lat/Long:		Cameron Park, CA 95				
Lab PM: Lisa Race	California Global ID #: T06001001919		Consultant/Contractor Project No.:	E11124-04			
Tele/Fax: 408-782-8156 408-782-6308 (fax)	Enfos Project No.: G099D-0012		Consultant/Contractor PM:	Jay Johnson			
BP/AR PM Contact: Paul Supple	Provision or RCOP (circle one)	rovision	Tele/Fax: (530) 676-6000 / (530) 676-6005			
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 04-Monitoring	······································	Report Type & QC Level:	Level 1 with BDF			
San Ramon, CA	Sub Phase/Task: 03-Analytical		E-mail EDD To: cjewitt@stratusi	nc.net			
Tele/Fax: 925-275-3506	Cost Element: 01-Contractor 1		Invoice to: Atlantic Richfield Co.				
Lab Bottle Order No: Matri	Preser	etive Rec	uested Analysis	300512			
Item No No No No No No No No No No No No No	No. of Containers Waynosarved HNO3	Methanol Methanol GRO/BTEX/Oxy* I,2 DCA Ethanol by 8260		ple Point Lat/Long and Comments ITBD, TAME, ETBE, DIPE, TBA			
1 MW-1 X			X	· · · · · · · · · · · · · · · · · · ·			
2 MW-2 X		<u> </u>	X				
3 MW-4 X		<u> </u>	x	<u> </u>			
4 MW-5 X		<u> </u>	X				
5 MW-6		x x x x	x				
6 TB 11124 X		ζ	X HOLD				
7							
8							
9							
	Relinquished By / Affiliation	Date Time	Accepted By / Affiliation	Date Time			
Sampler's Name:	Standardard by I standard						
Sampler's Company: Shipment Date:			- <u>1</u>				
Shipment Method:							
Shipment Method: Shipment Tracking No:							
Special Instructions: Please cc results to: mil	(@broadbentinc.com	······································	· · · · · · · · · · · · · · · · · · ·				
This is a revised COC for BP 11124 sampled on 3/13/07, accepted by TestAmerica at 1315 on 3/14/07.							
Custody Seals In Place: Yes / No Temp Blank: Y	/ No Cooler Temp on Receipt:	°F/C Trip Bla	ik: Yes / No MS/MSD Sampl	e Submitted: Yes / No			

....

nostri

2. 0

916-990-0332

	Alantic Richfield Ompany	Proje BP B	et Nam U/AR F	ie: Region/	/Enfos ilatory	BP 11124 Segment: Agency: quested Due Date					> Ret	ail > CA	\>Aiar	neda>	<u>11124</u>	ŀ	Off-sit Sky C	rologic	ne: / ns: al Ev	1/:6 2/e rents:	e e e e e e e e e e e e r	p. ber <	Temp: 2		
Lab 1	Name: TestAmerica					BP/AR Facility No	.:	111	24								Consu	ltant/C	ontra	ctor;		Stratus En	vironmen	tal. Inc.	<u> </u>
Addı	ess: 885 Jarvis Drive		, <u> </u>			BP/AR Facility Ad	dress	: :	331	5 High	ı Str	cet, O	aklan	3			Addre	3S:	333	0 Ca		on Park D			
1 	an Hill, CA 95937					Site Lat/Long:							•						Car	neror	Par	rk, CA 95	682		
	PM: Lisa Race					California Global I	D#:										_	tant/C				t No.:	E11124-	04	
	Fax: 408-782-8156 408-782-630	8 (fax)	·			Enfos Project No.:		G099									Consul	tant/C					Jay John		
	R PM Contact: Paul Supple	1.50				Provision or RCOP	_				Provi	sion					Tele/Fa			_		00 / (530)) 676 - 60	05	
Addi	ess: 2010 Crow Canyon Place, Sui San Ramon, CA	e 150				Phase/WBS:		04-M									Report							with EDF	
Tele/	Fax: 925-275-3506		· · · ·			Sub Phase/Task: Cost Element:		03-A		tical actor l			·						_		_	<u>Qstratusir</u>	<u>ic.net</u>		
	Bottle Order No:			M	 atrix	Cost Element.		0140		reserv							Invoice ested A		_	C RICI	Ineld	1 Co.			
Item No.	Sample Description	Time	Date	Soil/Sofid Water/Liquid	Air	Laboratory No.	No. of Containers	Unpreserved	H ₂ SO ₄	HNO ₃	HCI	Methanol	GRO/BTEX/Oxy*	1,2 DCA	EDB	Ethanol by 8260	DRO					Sam *Oxy = M	Com TBD, TA	Lat/Long ments ME, ETI BA	
1	MW-1	920	3-13-57	x		Gi	1	\square	-		< T				Ī		x	1			╡		<u> </u>		
2	MW-2	9 45	1	x		02	7			>	<						x							•	
3	MW-4	9:32		x		03	i			2	<						x					••••			
4	MW-5	10:42		x		04	4			,			x	x	x	x	x	-			╢				
5	MW-6	10 68		x		০চ	4			γ	<			x	1	1	x								
6	TB 11124	6:00		x		06	2				<						x					HOLD			
7																									
8																		-							
9													-	┢━━				-							
10	· ·					·····					╈	+	-						I	╧┉╁		<u></u>	1.9		
Samj	pler's Name: Jarry Go	Jeal-	ال <u>ہے۔۔۔۔</u> ا	<u> </u>	<u>I</u> , I	Reling	ubber	By//	A fifil	liation				ate	Ті	me	L		Accer	nted B	<u> </u> v / A:	filiation		Date	Time
Samp	pler's Company: Doulo's	EN	/			These	- ,			<u> </u>						_	3G	-n		Le la	芣				<u> </u>
Ship	nent Date:				,	Harna	ŧ,	2	~								Ž		S	12	オ	1		14/0	1314
_	nent Method:			<u> </u>		S.	\checkmark	$\mathbf{\nabla}$					3	46	\sum	纪	au	des.	Ue	lei	za			3-14-0	
	nent Tracking No:																								
Speci	al Instructions:	Please	cc result	ts to: m	niller@	broadbentine.com						· · ·													
Gr	Custody Seals In Place: Yes (1	<u>ю</u> і	Тетр	Blank:	(Yes)/ N	lo Cooler]	emp	on R	lece	eipt:	.2	_°FÆ)	T	rip B	lank	(Yes/	No]	MS/	MS	D Sample	Submitt	ed: Yes (ND

1

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			N-OF-CUSTO	
DATE/TIME 3- CLIENT CLIENT SERVICES REP	BP	955	TURN AROU	MQL0512 ECEIVED <u>3-15-07</u> ND TIME <u>Stel</u> NALYST <u>AM</u>
		PROB	ILEM	·
TB11124 had 1	of 2	Samples	reineved	broken.
		·······		
			· · · · · · · · · · · · · · · · · · ·	
				•
· ··· · · · · · · · · · · · · · · · ·				
		RESOL	UTION	
Client Instruction*		RESOL	UTION	
		RESOL	UTION	
		RESOL	UTION	
			· · · · · · · · · · · · · · · · · · ·	
Client Instruction*				
Client Instruction*	. <u> </u>			
Client Instruction* Telephone Number of Client: Client Contact for Instruction:				

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

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	BP A. M MQ(0512		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	<u>3-15</u> <u>8:3</u> <u>3-16</u>	-07 30 -07				atory Purposes? WATER YES NO ATER YES NO
CIRCLE THE APPRO	DPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	DESCRIPTION		рН	SAMPLE. MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present (Absent)	01	MW-1	16) Amber	HCI	7		3-13-07	
	Intact / Broken*	02	MW-2	U		_7_	<u> </u>	1	
2. Chain-of-Custody	(Present / Absent*	03	MW-4	<u>ک</u>		7			
3. Traffic Reports or	\sim	04	Mw-5	L_V		7			
Packing List:	Present / Absent	l	<u> </u>	3 VOA					
4. Airbill:	(Airbill) Sticker	05	MW-6	1(6) Amber		_7_			
	Present / Absent	<u> </u>	" V	3 VOA					
	Attached	06	TB 11124	2 VOA	V	-	マ	V	lof 2 currined broken
6. Sample Labels:	Present/ Absent								
7. Sample IDs:	Listed / Not Listed		T						
	on Chain-of-Custody								
8. Sample Condition:	Intact / Broken /			•					
	Leaking*		. <u> </u>	•					
9. Does information on	, ,		· .						
traffic reports and s	·			•					
agree7 [.]	(Yes) No*			-					
10. Sample received with	_ 3					_(<u> </u>	
hold time?	(Yes)/ No*								
11. Adequale sample volu					_N.	\leq			
received?	Yes) No*		••		Do!				E a a a a a a a a a a a a a a a a a a a
12. Proper preservalives		· · · · · · · · · · · · · · · · · · ·	••		2				
13. (Trip Blank) (Temp Bla				401/					· · · · · · · · · · · · · · · · · · ·
(circle which, if yee)	(e)/No*			5					
14. Read Temp:	<u> </u>		<u> </u>						
Corrected Temp:	5.200								
is corrected temp 4 +	/-2"C7 (Yes) No**								
(Acceptance range for samples re	equiring thermal pres.)								
**Exception (if any): MET	ALS / DFF ON ICE								
or Problem COC		$ \ge $					· · · · · · · · · · · · · · · · · · ·		
		*IF CIRC	LED, CONTACT PROJEC	T MANAGER	AND ATT/	ACH R	ECORD C	F RESOLU	TION

SRL Revision 0 Teplaces Rev 7 (07/19/05)

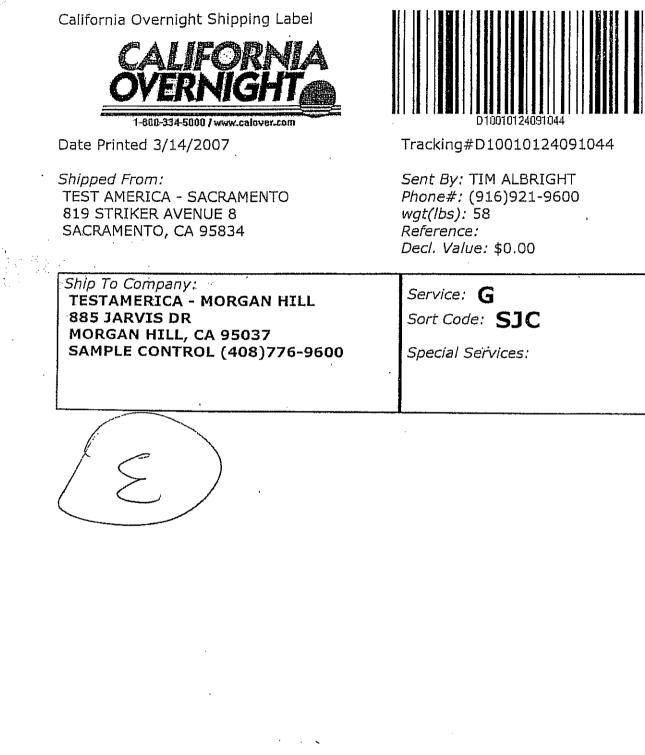
All the second second

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Page 1 of 1

ebOnTrac View Shipment



http://www.calover.com/webontrac/newshipment.aspx?repeat=false&code=TEST+-+MH 3/14/2007

APPENDIX C

GeoTracker Upload Confirmation Reports

.

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

UPLOADING A GEO_BORE FILE

YOUR IMAGE UPLOAD WAS SUCCESSFUL!

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

Click here to view the image.

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UPLOADING A GEO_BORE FILE

YOUR IMAGE UPLOAD WAS SUCCESSFUL!

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

Click here to view the image.

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UPLOADING A GEO_MAP FILE

YOUR IMAGE UPLOAD WAS SUCCESSFUL!

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

Click here to view the image.

Back to Main Menu

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	nittal Information
UPLOADING A GEO_XY F	ILE
Processing is complet Your file has been s	e. No errors were found! uccessfully submitted!
Submittal Title:	GEO_XY 11124
Submittal Date/Time:	4/5/2007 10:21:20 AM
Confirmation Number:	2010395646
Back to	Main Menu

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CONTACT SITE ADMINISTRATOR.

.

	nittal Information	
UPLOADING A GEO_Z FIL	E	
Processing is complete. No errors were found! Your file has been successfully submitted!		
Submittal Title:	GEO_Z 11124	
Submittal Date/Time:	4/5/2007 10:29:07 AM	
Confirmation Number:	3952071964	
Back to Main Menu		

Logged in as BROADBENT-C (CONTRACTOR)

	c Submittal I ew/Add Facilities Upload		l
Your EDF	file has been successf	ully uploaded!	
Confirmation	Number: 645042788	9	
Date/Time of S	ubmittal: 4/5/2007 11	1:02:50 AM	
Facility G	lobal ID: T06001009	19	
-	ty Name: BP #11124		
	ttal Title: 0206 Soil N		
	tal Type: Miscellane	-	lts
Click <u>here</u> to vi	ew the detections repo	ort for this upload	
BP #11124	Regional Board - Case		
3315 HIGH DAKLAND, CA 94619	SAN FRANCISCO BAY Local Agency (lead age ALAMEDA COUNTY I	ncy) - Case #: RO0(
	ILE 200 Goil Maritarian	QUAR	
6450427889 0 SUBMITTED BY	206 Soil Monitoring	Q4 2	006
Broadbent & Associates,	<u>SUBMIT DATE</u> Inc. 4/5/2007	<u>STATUS</u> PENDING RE	VIEW
SAMPLE DETECTIONS	REPORT		
# FIELD POINTS SAMPLED # FIELD POINTS WITH DETE	CTIONS		6
# FIELD POINTS WITH DETE # FIELD POINTS WITH WATE		OVE MCL	0
SAMPLE MATRIX TYPES			SOIL
METHOD QA/QC RE	<u>PORT</u>		
METHODS USED		8260FA,8260TPH,	
TESTED FOR REQUIRED ANA MISSING PARAMETERS NO			N
- 8260FA REQUIRES ETHA	NOL TO BE TESTED		
 SW8015B REQUIRES DC SW8015B REQUIRES ED 			
LAB NOTE DATA QUALIFIERS			Y
QA/QC FOR 8021/8	260 SERIES SAMPI	LES	*****
TECHNICAL HOLDING TIME			0
METHOD HOLDING TIME VIC LAB BLANK DETECTIONS AB		N LIMIT	0 0
LAB BLANK DETECTIONS			Ō
DO ALL BATCHES WITH THE	8021/8260 SERIES INCLUE	E THE FOLLOWING?	v
- LAB METHOD BLANK - MATRIX SPIKE			Y N
	ede ana an		N
- MATRIX SPIKE DUPLICAT			Y
- BLANK SPIKE	IN-STANDARD SURPOGATE	USED	Ŷ
		USED	Y

MATRIX SPIKE / MATRIX	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	n/a	
SURROGATE SPIKES % F	ECOVERY BETWEEN 85-115%		n/a	
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%			n/a	
SOIL SAMPLES FOR	8021/8260 SERIES			
MATRIX SPIKE / MATRIX	SPIKE DUPLICATE(S) % RECOVE	ERY BETWEEN 65-135%	Y	
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%			Y	
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%		N		
BLANK SPIKE / BLANK SP	PIKE DUPLICATES % RECOVERY I	BETWEEN 70-130%	n/a	
FIELD QC SAMPLES	na din juga karang k K	n 2014 mar 2014 an 2014	*******	
SAMPLE	COLLECTED	DETECTIONS >	DETECTIONS > REPDL	
QCTB SAMPLES	N	0	0	
	•	0		
QCEB SAMPLES	N	Ų		

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

	view/Add Lach			
BP #11124Regional Board - Case #: 01-09963315 HIGHSAN FRANCISCO BAY RWQCB (REGION 2) - (CM)OAKLAND, CA 94619Local Agency (lead agency) - Case #: RO0000239ALAMEDA COUNTY LOP - (SP)				
CONF #TITI44342843291QSUBMITTED BYBroadbent & Associates	07 GW Monito	ring 2-2007 <u>SUBMIT DATE</u> 4/5/2007	QUARTI Q1 20 <u>STATUS</u> PENDING REVIE	07
SAMPLE DETECTION	S REPORT			
# FIELD POINTS SAMPLED				3
# FIELD POINTS WITH DE	TECTIONS			1
# FIELD POINTS WITH WA	TER SAMPLE DE	TECTIONS ABOVE		0
SAMPLE MATRIX TYPES			W	ATER
METHOD QA/QC R	<u>EPORT</u>			
METHODS USED			8260FA,826	
TESTED FOR REQUIRED A				Y
LAB NOTE DATA QUALIFIE	RS			N
#134474581949919997499749974974944444449444944444444	34 û 400 kir 1 a de antik î dar gener a rece katar da a de a de a	****	LEY CONTRACTOR CONTRACTOR OF CONTRACTOR OF CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CO	
QA/QC FOR 8021/		ES SAMPLES	<u>i</u>	
TECHNICAL HOLDING TIM				0
METHOD HOLDING TIME V LAB BLANK DETECTIONS /			64T°T	0
LAB BLANK DETECTIONS	ABOVE REPORTIN		1111	o
DO ALL BATCHES WITH TH	IE 8021/8260 SE	RIES INCLUDE T	HE FOLLOWING?	ŭ
- LAB METHOD BLANK	,,			Y
- MATRIX SPIKE				N
- MATRIX SPIKE DUPLIC	ATE			N
- BLANK SPIKE				Y
- SURROGATE SPIKE				Y
WATER SAMPLES FO)R 8021/8260	SERIES		
MATRIX SPIKE / MATRIX S			Y BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX S				Y
SURROGATE SPIKES % RE				Y
BLANK SPIKE / BLANK SPI	KE DUPLICATES	% RECOVERY BE	TWEEN 70-130%	Y
SOIL SAMPLES FOR	0074/0760 66	DIES		
			V RETWEEN 65-135%	п/а
MATRIX SPIKE / MATRIX S MATRIX SPIKE / MATRIX S				n/a
SURROGATE SPIKES % R		• •		n/a
BLANK SPIKE / BLANK SPI			TWEEN 70-130%	n/a
Ŧţ ŢŢŢŎŎŢŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎ	234 X 8 2 497 X 7 337 4 7 7 697 7 4 40 4 3 4 4 5 6 46 6 4 6 6 6		2241-1.1.6783.5.732.682-4746.877.774744.0394.6464.4464.4464.4664.4.6.	+11388.421108430868+7
FIELD QC SAMPLES				
SAMPLE	COLLEC	TED	DETECTIONS >	REPDL
QCTB SAMPLES	N		0	
QCEB SAMPLES	N		0	
QCAB SAMPLES	N		0	

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

Main Menu View/Add Facilities Upload EDD Check EDD	
BP #11124Regional Board - Case #: 01-09963315 HIGHSAN FRANCISCO BAY RWQCB (REGION 2) - (OAKLAND, CA 94619Local Agency (lead agency) - Case #: RO0000239ALAMEDA COUNTY LOP - (SP)	
CONF #TITLEQUARTER23655399681Q07 GW Monitoring 3-2007Q1 2007SUBMITTED BYSUBMIT DATESTATUSBroadbent & Associates, Inc.4/5/2007PENDING REVIEW	,
SAMPLE DETECTIONS REPORT # FIELD POINTS SAMPLED # FIELD POINTS WITH DETECTIONS # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL SAMPLE MATRIX TYPES WAT METHOD QA/QC REPORT METHODS USED 8260FA,8260TPH,SW801 TESTED FOR REQUIRED ANALYTES? LAB NOTE DATA QUALIFIERS	
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 - NON-STANDARD SURROGATE USED	O O O V N N Y Y Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	Y Y Y n/a n/a n/a
FIELD QC SAMPLESSAMPLECOLLECTEDDETECTIONS > RIQCTB SAMPLESN0QCEB SAMPLESN0QCAB SAMPLESN0	EPDL

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BP #11124	Regional Board - Case #	<u> </u>	
3315 HIGH	SAN FRANCISCO BAY		
OAKLAND, CA 94619	Local Agency (lead agen		<u>39</u>
	ALAMEDA COUNTY L	.OP - (SP)	
	<u>rLE</u> 206 Soil Monitoring	<u>QUARTER</u> Q4 2006	
SUBMITTED BY	SUBMIT DATE	STATUS	
Broadbent & Associates, 1		PENDING REVIE	N
SAMPLE DETECTIONS	REPORT		
# FIELD POINTS SAMPLED			1
# FIELD POINTS WITH DETEC			1 0
# FIELD POINTS WITH WATE SAMPLE MATRIX TYPES	R SAMPLE DETECTIONS ABO		SOIL
SAMPLE MATRIX TIPES			
METHOD QA/QC REI	PORT	ADCOTTOL CHICOLOR CHIC	2600
METHODS USED	I VTECO	8260TPH,SW6010B,SW8	2606 N
TESTED FOR REQUIRED ANA MISSING PARAMETERS NO			
- SW8260B REQUIRES MT			
 SW8260B REQUIRES ETE 	BE TO BE TESTED		
- SW8260B REQUIRES TAI			
 SW8260B REQUIRES DIF SW8260B REQUIRES TB/ 	A TO BE TESTED		
 SW8260B REQUIRES DC. 	A12 TO BE TESTED		
- SW8260B REQUIRES ED			
LAB NOTE DATA QUALIFIERS			Y
		9928196999929124924924924926926926926971926999999994444444444444444444444444444	2.2.51274) eth 107.99187941
OA/QC FOR 8021/8 TECHNICAL HOLDING TIME V			o
METHOD HOLDING TIME VIO			Ο
LAB BLANK DETECTIONS ABO	OVE REPORTING DETECTION	N LIMIT	0
LAB BLANK DETECTIONS			0
DO ALL BATCHES WITH THE	8021/8260 SERIES INCLUD	E THE FOLLOWING?	v
- LAB METHOD BLANK			Y N
- MATRIX SPIKE - MATRIX SPIKE DUPLICATE	E		N
- BLANK SPIKE	<u> </u>		Ŷ
- SURROGATE SPIKE			Y
WATER SAMPLES FOR MATRIX SPIKE / MATRIX SPI		FRY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPI MATRIX SPIKE / MATRIX SPI			n/a
SURROGATE SPIKES % RECO		1111113070	n/a
BLANK SPIKE / BLANK SPIKE	DUPLICATES % RECOVERY	' BETWEEN 70-130%	n/a
SOIL SAMPLES FOR 80	021/8260 SERIES		
MATRIX SPIKE / MATRIX SPI		/ERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPI			Y
SURROGATE SPIKES % REC	OVERY BETWEEN 70-125%		Y
BLANK SPIKE / BLANK SPIKE	E DUPLICATES % RECOVER	(BETWEEN 70-130%	n/a
FIELD QC SAMPLES			
SAMPLE	COLLECTED	DETECTIONS >	REPDL
QCTB SAMPLES	N	0	
QCEB SAMPLES	N	0	
QCAB SAMPLES	N	0	
		CONTACT SITE ADMI	

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