Atlantic Richfield Company
(a BP affiliated company)

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

25 October 2006

Re: Third Quarter 2006 Ground-Water Monitoring Report
Former BP Service Station #11266
1541 Park Street
Alameda, California
ACEH Case # RO0000318

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

Submitted by:

Paul Supple
Environmental Business Manager

Third Quarter 2006 Ground-Water Monitoring Report
Former BP Service Station #11266
1541 Park Street
Alameda, California

Prepared for

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

Prepared by

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

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

25 October 2006

Project No. 06-08-658

Broadbent & Associates, Inc.
1324 Mangrove Ave., Suite 212
Chico, CA 95926
Voice (530) 566-1400
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BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

25 October 2006

Project No. 06-08-658

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

Attn.: Mr. Paul Supple

Re: Third Quarter 2006 Ground-Water Monitoring Report, Former BP Station #11266
1541 Park Street, Alameda, California; ACEH Case #RO0000318.

Dear Mr. Supple:

Provided herein is the *Third Quarter 2006 Ground-Water Monitoring Report* for Former BP Service Station #11266 (herein referred to as Station #11266) located at 1541 Park Street, Alameda, California. This report presents the results of well redevelopment, ground-water monitoring and sampling conducted at Station #11266 during the Third Quarter of 2006, performed at the request of Alameda County Environmental Health (ACEH) in their letter dated 7 July 2006.

Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.
Senior Engineer

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

PROFESSIONAL GEOLOGIST
ROBERT H. MILLER
No. 4893
10-25-06
STATE OF CALIFORNIA

Enclosures

cc: Mr. Stephen Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)
Mr. Chris Jimmerson, Delta Environmental Consultants (electronic copy uploaded to ENFOS)

STATION #11266 GROUND-WATER MONITORING REPORT

Facility: #11266 Address:	1541Park Street, Alameda, California
Environmental Business Manager:	Mr. Paul Supple
Consulting Company/Contact Person:	Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus (530)566-1400
Consultant Project No.:	06-08-658
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH) ACEH Case #RO0000624

WORK PERFORMED THIS QUARTER (Third Quarter 2006):

1. Prepared and submitted the Second Quarter 2006 Status Report. Work performed by BAI.
2. Onsite wells were rehabilitated, redeveloped, and ground-water monitoring and sampling conducted per the request of ACEH in their letter of 7 July 2006. Work performed by Blaine Tech Services for URS on 21 and 24 August 2006.

WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter 2006):

1. Prepared and submitted this Third Quarter 2006 Ground-Water Monitoring Report (contained herein).
2. No field work is currently anticipated at Station #11266 during the Fourth Quarter of 2006.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	**Reassessment**
Frequency of ground-water sampling:	**One time, per ACEH request of 7/7/2006: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6**
Frequency of ground-water monitoring:	**One time**
Is free product (FP) present on-site:	**No**
Current remediation techniques:	**NA**
Depth to ground water (below TOC):	**7.75 ft (MW-1) to 9.61 ft (MW-3)**
General ground-water flow direction:	**South**
Approximate hydraulic gradient:	**0.01 ft/ft**

DISCUSSION:

Case closure was requested from ACEH on 21 February 2003. BP had been awaiting a response from the ACEH to the case closure request. In a letter dated 7 July 2006, ACEH requested rehabilitation, redevelopment, ground-water monitoring and sampling of the onsite monitoring wells to resume the site closure process. This letter presents a summary of well rehabilitation/redevelopment, and ground-water monitoring and sampling results.

Rehabilitation and redevelopment was performed on the six wells associated with Station #11266 on 21 August 2006 by Blaine Tech Services for URS. Wells were surged for 10 minutes with a two-inch diameter surge block prior to re-development (Oxygen Release Compound socks were removed from well MW-1 prior to surging and re-development). Following surging, wells were evacuated by positive air displacement of 10 wetted casing volumes of water from each well, ranging from 16 gallons in well MW-3 to 28 gallons from well MW-2. With the exception of well MW-4, removal of accumulated silt increased the total depths of five wells when compared to their pre-development total depths, up to 0.73 ft in well MW-6. Well development data sheets are provided within Appendix A.

Ground-water monitoring was performed on the six wells by Blaine Tech Services/URS on 24 August 2006. No difficulties or irregularities were encountered during ground-water monitoring at the Site. Measured depths to ground water ranged from 7.75 ft in MW-1 to 9.61 ft in MW-3. Calculated water level elevations ranged from 11.44 ft above mean sea level at MW-1 to 10.38 ft at MW-3. Calculated water level elevations yielded a potentiometric ground-water flow direction and gradient of 0.01 ft/ft to the south. Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground-water and respective ground-water elevations are summarized in Table 1. Potentiometric ground-water elevation contours are presented in Drawing 1.

Ground-water sampling was performed immediately following ground-water monitoring in the six wells on 24 August 2006. No irregularities were reported during sampling activities. Samples were submitted under chain of custody documentation to Test America Analytical Testing Corporation (Morgan Hill, California), for analysis of Gasoline Range Organics (GRO, C4-12) by the LUFT GSMS Method; Diesel Range Organics (DRO, C10-C36) by EPA Method 8015B-SVOA; for Total Lead by EPA Method 200.7; for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and tert-Amyl methyl ether (TAME), tert-Butyl alcohol, Di-isopropyl ether, 1,2-Dibromomethane, 1,2-Dichloroethane, Ethanol, Ethyl tert-butyl ether, and Methyl tert-butyl ether (MTBE) by EPA Method 8260B. No irregularities were encountered during laboratory analysis of the samples, with the exception that the laboratory noted that the hydrocarbons detected by EPA Method 8015B-SVOA in samples from MW-1 and MW-3 were within the fuel range for DRO, but did not resemble the requested fuel. Ground-water sampling field data sheets and the laboratory analytical report, including chain of custody documentation, are provided in Appendix A.

Gasoline Range Organics were detected above the laboratory reporting limits in samples from three wells (MW-1, MW-2, and MW-3) up to a concentration of 1,900 micrograms per liter (µg/L) in MW-1. DRO were detected in above the laboratory reporting limits in samples from two wells (MW-1 and MW-3), up to a concentration of 1,000 µg/L in MW-1. Benzene was detected above the laboratory reporting limit in two wells (MW-1 and MW-2) up to a concentration of 6.4 µg/L in MW-1. Toluene was detected above the laboratory reporting limit in two wells (MW-1 and MW-3) up to a concentration of 1.9 µg/L in MW-1. Ethylbenzene was detected above the laboratory reporting limit in one well at a concentration of 48 µg/L in MW-1. Total Xylenes were detected above the laboratory reporting limit in two wells (MW-1 and MW-2) up to a concentration of 41 µg/L in MW-1. MTBE was detected above the laboratory reporting limits in three wells (MW-1, MW-2, and MW-3) up to a concentration of 47 µg/L in MW-2. TAME was detected above the laboratory reporting limit in one well at a concentration of 2.2 µg/L in MW-2. No other tested analytes were detected above their respective reporting limits. Laboratory analytical results are summarized in Table 1 and Table 2. Analytical results for GRO, Benzene, and MTBE are reported adjacent to their respective well on Drawing 1.

BAI concludes that the concentrations detected are consistent with the results previously reported in the request for site closure. A copy of the *Request for Site Closure, BP Service Station #11266, 1541 Park Street, Alameda, California* (URS Corporation, 21 February 2003) is provided as Appendix B. A copy of the GeoTracker Upload Confirmation for the data in this report is provided as Appendix C.

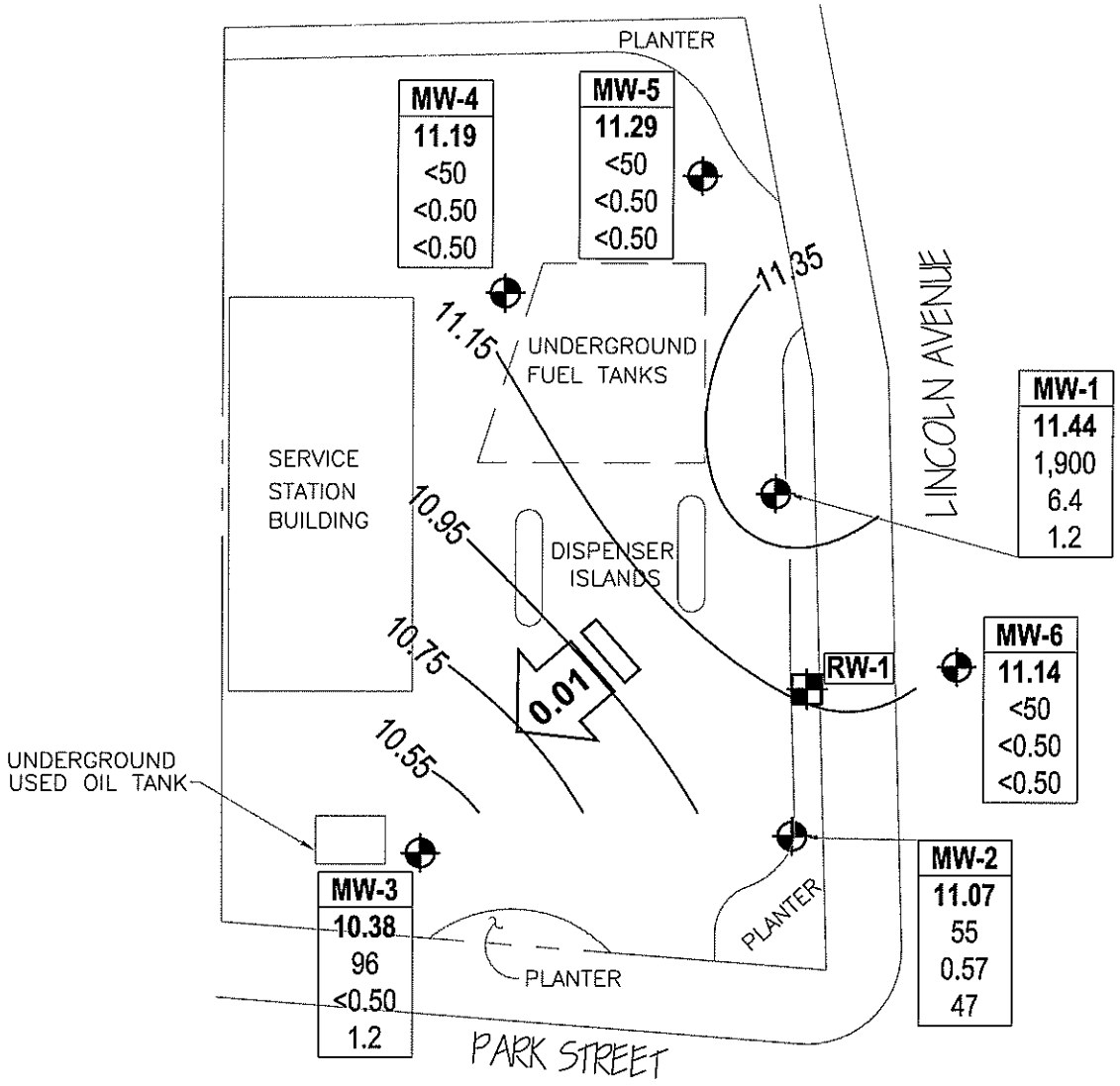
CLOSURE:

The findings presented in this report are based upon: observations of URS/Blaine Tech Services field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Test America (Morgan Hill, California). Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied

was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

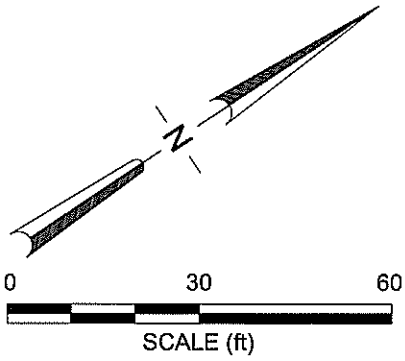
ATTACHMENTS:

Drawing 1.	Ground-Water Elevation Contours and Analytical Summary Map, 24 August 2006, Former BP Service Station #11266, 1541 Park Street, Alameda, California
Table 1.	Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11266, 1541 Park Street, Alameda, California
Table 2.	Summary of Fuel Additives Analytical Data, Station #11266, 1541 Park Street, Alameda, California
Appendix A.	URS Ground-Water Sampling Data Package (Includes Laboratory Report and Chain of Custody Documentation, Field and Laboratory Procedures, and Field Data Sheets)
Appendix B.	Request for Site Closure, BP Service Station #11266, 1541 Park Street, Alameda, California. Prepared by URS Corporation, 21 February 2003.
Appendix C.	GeoTracker Upload Confirmation



LEGEND

- Monitoring Well Location
- GROUND-WATER RECOVERY WELL
- 10.55 Ground-water elevation contour (ft MSL)
- Well designation
- ELEV Ground-water elevation (ft MSL)
- GRO, Benzene and MTBE concentrations (µg/L)
- 0.01 Ground-water flow direction and gradient (ft/ft)



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No. 06-08-658 Date: 10/23/06

Former BP Service Station #11266
1541 Park Street
Alameda, California

Ground-Water Elevation Contour
and Analytical Summary Map
24 August 2006

Drawing
1

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

Station #11266, 1541 Park Street, Alameda, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)								DO (mg/L)	Comments
					GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Lead		
MW-1														
8/24/2006	P	19.19	7.75	11.44	1,900	1,000	6.4	1.9	48	41	1.2	<100	--	
MW-2														
8/24/2006	P	19.32	8.25	11.07	55	<47	0.57	<0.50	<0.50	1.0	47	<100	--	
MW-3														
8/24/2006	P	19.99	9.61	10.38	96	130	<0.50	0.52	<0.50	<0.50	1.2	<100	--	
MW-4														
8/24/2006	P	20.17	8.98	11.19	<50	<47	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	
MW-5														
8/24/2006	P	19.41	8.12	11.29	<50	<47	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	
MW-6														
8/24/2006	P	19.40	8.26	11.14	<50	<47	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	

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 #11266, 1541 Park Street, Alameda, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1 8/24/2006	<600	<40	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	
MW-2 8/24/2006	<300	<20	47	<0.50	<0.50	2.2	<0.50	<0.50	
MW-3 8/24/2006	<300	<20	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4 8/24/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5 8/24/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-6 8/24/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

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

URS GROUND-WATER SAMPLING DATA PACKAGE (INCLUDES LABORATORY REPORT AND CHAIN OF CUSTODY DOCUMENTATION, FIELD AND LABORATORY PROCEDURES, AND FIELD DATA SHEETS)

URS

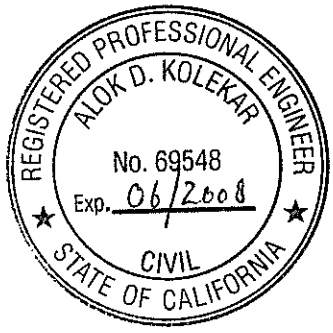
September 27, 2006

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

Groundwater Sampling Data Package
Former BP Service Station #11266
1541 Park Street
Alameda, CA
Field Work Performed: 08/24/06

General Information
Data Submittal Prepared/Reviewed by: Alok Kolekar
Phone Number: 510-874-3152
On-Site Supplier Representative: Blaine Tech
Scope of Work Performed: Groundwater Monitoring in accordance with 3rd Quarter 2006 protocols as identified in the Quarterly Monitoring Program Table in the Field and Laboratory Procedures Attachment.
Variations from Work Scope: None

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include, at a minimum, sampling procedures, field data collected, laboratory results, chain of custody documentation, and waste management activities. 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.



Alok D. Kolekar, P.E.
Project Manager

cc: Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
Fax: 510.874.3268

URS

Attachments

Field and Laboratory Procedures
Laboratory Report
Chain of Custody Documentation
Field Data Sheets
    Well Gauging Data
    Well Monitoring Data Sheets

FIELD & LABORATORY PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe. Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by RM have been reviewed and verified by that laboratory.

TestAmerica
ANALYTICAL TESTING CORPORATION

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

21 September, 2006

Alok Kolekar
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: BP Heritage #11266, Alameda, CA
Work Order: MPH0918

Enclosed are the results of analyses for samples received by the laboratory on 08/25/06 18:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

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

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URS Corporation [Arco]	Project: BP Heritage #11266, Alameda, CA	MPH0918
1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MPH0918-01	Water	08/24/06 14:58	08/25/06 18:05
MW-2	MPH0918-02	Water	08/24/06 15:31	08/25/06 18:05
MW-3	MPH0918-03	Water	08/24/06 15:25	08/25/06 18:05
MW-4	MPH0918-04	Water	08/24/06 15:55	08/25/06 18:05
MW-5	MPH0918-05	Water	08/24/06 16:20	08/25/06 18:05
MW-6	MPH0918-06	Water	08/24/06 14:36	08/25/06 18:05
TB-11266-08242006	MPH0918-07	Water	08/24/06 00:00	08/25/06 18:05

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
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Morgan Hill, CA 95037
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www.testamericainc.com

URS Corporation [Arco]	Project: BP Heritage #11266, Alameda, CA	MPH0918
1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MPH0918-01) Water Sampled: 08/24/06 14:58 Received: 08/25/06 18:05									
Gasoline Range Organics (C4-C12)	**1900**	500	ug/l	10	6I02004	09/02/06	09/02/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*93 %*	*60-145*		"	"	"	"	
MW-2 (MPH0918-02) Water Sampled: 08/24/06 15:31 Received: 08/25/06 18:05									
Gasoline Range Organics (C4-C12)	**55**	50	ug/l	1	6I02004	09/02/06	09/02/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*60-145*		"	"	"	"	
MW-3 (MPH0918-03) Water Sampled: 08/24/06 15:25 Received: 08/25/06 18:05									
Gasoline Range Organics (C4-C12)	**96**	50	ug/l	1	6I02004	09/02/06	09/02/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*91 %*	*60-145*		"	"	"	"	
MW-4 (MPH0918-04) Water Sampled: 08/24/06 15:55 Received: 08/25/06 18:05									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6I02004	09/02/06	09/02/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*60-145*		"	"	"	"	
MW-5 (MPH0918-05) Water Sampled: 08/24/06 16:20 Received: 08/25/06 18:05									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6I02004	09/02/06	09/02/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*60-145*		"	"	"	"	
MW-6 (MPH0918-06) Water Sampled: 08/24/06 14:36 Received: 08/25/06 18:05									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6I02004	09/02/06	09/02/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*60-145*		"	"	"	"	

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www.testamericainc.com

URS Corporation [Arco]	Project: BP Heritage #11266, Alameda, CA	MPH0918
1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MPH0918-01) Water Sampled: 08/24/06 14:58 Received: 08/25/06 18:05									
Diesel Range Organics (C10-C36)	**1000**	94	ug/l	2	6H29002	08/29/06	09/06/06	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		*73 %*	*30-115*		"	"	"	"	
MW-2 (MPH0918-02) Water Sampled: 08/24/06 15:31 Received: 08/25/06 18:05									
Diesel Range Organics (C10-C36)	ND	47	ug/l	1	6H29002	08/29/06	09/06/06	EPA 8015B-SVOA	
Surrogate: n-Octacosane		*53 %*	*30-115*		"	"	"	"	
MW-3 (MPH0918-03) Water Sampled: 08/24/06 15:25 Received: 08/25/06 18:05									
Diesel Range Organics (C10-C36)	**130**	47	ug/l	1	6H29002	08/29/06	09/06/06	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		*107 %*	*30-115*		"	"	"	"	
MW-4 (MPH0918-04) Water Sampled: 08/24/06 15:55 Received: 08/25/06 18:05									
Diesel Range Organics (C10-C36)	ND	47	ug/l	1	6H29002	08/29/06	09/06/06	EPA 8015B-SVOA	
Surrogate: n-Octacosane		*68 %*	*30-115*		"	"	"	"	
MW-5 (MPH0918-05) Water Sampled: 08/24/06 16:20 Received: 08/25/06 18:05									
Diesel Range Organics (C10-C36)	ND	47	ug/l	1	6H29002	08/29/06	09/06/06	EPA 8015B-SVOA	
Surrogate: n-Octacosane		*70 %*	*30-115*		"	"	"	"	
MW-6 (MPH0918-06) Water Sampled: 08/24/06 14:36 Received: 08/25/06 18:05									
Diesel Range Organics (C10-C36)	ND	47	ug/l	1	6H29002	08/29/06	09/06/06	EPA 8015B-SVOA	
Surrogate: n-Octacosane		*71 %*	*30-115*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11266, Alameda, CA	MPH0918
1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

Total Metals by EPA 200 Series Methods

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MPH0918-01) Water	**Sampled: 08/24/06 14:58**	**Received: 08/25/06 18:05**							
Lead	ND	100	ug/l	1	6H30009	08/30/06	08/30/06	EPA 200.7	
MW-2 (MPH0918-02) Water	**Sampled: 08/24/06 15:31**	**Received: 08/25/06 18:05**							
Lead	ND	100	ug/l	1	6H30009	08/30/06	08/30/06	EPA 200.7	
MW-3 (MPH0918-03) Water	**Sampled: 08/24/06 15:25**	**Received: 08/25/06 18:05**							
Lead	ND	100	ug/l	1	6H30009	08/30/06	08/30/06	EPA 200.7	
MW-4 (MPH0918-04) Water	**Sampled: 08/24/06 15:55**	**Received: 08/25/06 18:05**							
Lead	ND	100	ug/l	1	6H30009	08/30/06	08/30/06	EPA 200.7	
MW-5 (MPH0918-05) Water	**Sampled: 08/24/06 16:20**	**Received: 08/25/06 18:05**							
Lead	ND	100	ug/l	1	6H30009	08/30/06	08/30/06	EPA 200.7	
MW-6 (MPH0918-06) Water	**Sampled: 08/24/06 14:36**	**Received: 08/25/06 18:05**							
Lead	ND	100	ug/l	1	6H30009	08/30/06	08/30/06	EPA 200.7	

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URS Corporation [Arco]	Project: BP Heritage #11266, Alameda, CA	MPH0918
1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MPH0918-01) Water Sampled: 08/24/06 14:58 Received: 08/25/06 18:05									
tert-Amyl methyl ether	ND	1.0	ug/l	2	6I07006	09/07/06	09/07/06	EPA 8260B	
Benzene	**6.4**	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	40	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Ethanol	ND	600	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	**48**	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**1.2**	1.0	"	"	"	"	"	"	
Toluene	**1.9**	1.0	"	"	"	"	"	"	
Xylenes (total)	**41**	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*60-145*		"	"	"	"	
Surrogate: Toluene-d8		*97 %*	*70-130*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96 %*	*60-120*		"	"	"	"	
MW-2 (MPH0918-02) Water Sampled: 08/24/06 15:31 Received: 08/25/06 18:05									
tert-Amyl methyl ether	**2.2**	0.50	ug/l	1	6I02004	09/02/06	09/02/06	EPA 8260B	
Benzene	**0.57**	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**47**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**1.0**	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*94 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*60-145*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*70-130*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90 %*	*60-120*		"	"	"	"	

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1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MPH0918-03) Water Sampled: 08/24/06 15:25 Received: 08/25/06 18:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6I02004	09/02/06	09/02/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**1.2**	0.50	"	"	"	"	"	"	
Toluene	**0.52**	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*94 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*91 %*	*60-145*		"	"	"	"	
Surrogate: Toluene-d8		*98 %*	*70-130*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97 %*	*60-120*		"	"	"	"	
MW-4 (MPH0918-04) Water Sampled: 08/24/06 15:55 Received: 08/25/06 18:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6I02004	09/02/06	09/02/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*60-145*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*70-130*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80 %*	*60-120*		"	"	"	"	

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1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MPH0918-05) Water Sampled: 08/24/06 16:20 Received: 08/25/06 18:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6I02004	09/02/06	09/02/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*60-145*		"	"	"	"	
Surrogate: Toluene-d8		*88 %*	*70-130*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*76 %*	*60-120*		"	"	"	"	
MW-6 (MPH0918-06) Water Sampled: 08/24/06 14:36 Received: 08/25/06 18:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6I02004	09/02/06	09/02/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*60-145*		"	"	"	"	
Surrogate: Toluene-d8		*87 %*	*70-130*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81 %*	*60-120*		"	"	"	"	

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1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

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 6I02004 - EPA 5030B P/T / LUFT GCMS										
Blank (6I02004-BLK1)				Prepared & Analyzed: 09/02/06						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*2.51*		"	*2.50*		*100*	*60-145*			
Laboratory Control Sample (6I02004-BS2)				Prepared & Analyzed: 09/02/06						
Gasoline Range Organics (C4-C12)	465	50	ug/l	440		106	75-140			
Surrogate: 1,2-Dichloroethane-d4	*2.22*		"	*2.50*		*89*	*60-145*			
Matrix Spike (6I02004-MS1)	**Source: MPH0906-07**			Prepared & Analyzed: 09/02/06						
Gasoline Range Organics (C4-C12)	540	50	ug/l	700	ND	77	75-140			
Surrogate: 1,2-Dichloroethane-d4	*2.35*		"	*2.50*		*94*	*60-145*			
Matrix Spike Dup (6I02004-MSD1)	**Source: MPH0906-07**			Prepared & Analyzed: 09/02/06						
Gasoline Range Organics (C4-C12)	549	50	ug/l	700	ND	78	75-140	2	20	
Surrogate: 1,2-Dichloroethane-d4	*2.32*		"	*2.50*		*93*	*60-145*			

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URS Corporation [Arco]	Project: BP Heritage #11266, Alameda, CA	MPH0918
1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

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 6H29002 - EPA 3510C / EPA 8015B-SVOA										
Blank (6H29002-BLK1)				Prepared: 08/29/06 Analyzed: 09/06/06						
Diesel Range Organics (C10-C36)	ND	50	ug/l							
Surrogate: n-Octacosane	*52.1*		"	*50.0*		*104*	*30-115*			
Laboratory Control Sample (6H29002-BS1)				Prepared: 08/29/06 Analyzed: 09/06/06						
Diesel Range Organics (C10-C36)	321	50	ug/l	500		64	40-140			
Surrogate: n-Octacosane	*32.6*		"	*50.0*		*65*	*30-115*			
Laboratory Control Sample Dup (6H29002-BSD1)				Prepared: 08/29/06 Analyzed: 09/11/06						**DU**
Diesel Range Organics (C10-C36)	362	50	ug/l	500		72	40-140	12	35	
Surrogate: n-Octacosane	*36.7*		"	*50.0*		*73*	*30-115*			

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1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

Total Metals by EPA 200 Series Methods - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H30009 - EPA 3005A / EPA 200.7										
Blank (6H30009-BLK1)				Prepared & Analyzed: 08/30/06						
Lead	ND	100	ug/l							
Laboratory Control Sample (6H30009-BS1)				Prepared & Analyzed: 08/30/06						
Lead	954	100	ug/l	1000		95	85-115			
Matrix Spike (6H30009-MS1)	**Source: MPH0885-01**			Prepared & Analyzed: 08/30/06						
Lead	973	100	ug/l	1000	ND	97	70-130			
Matrix Spike Dup (6H30009-MSD1)	**Source: MPH0885-01**			Prepared & Analyzed: 08/30/06						
Lead	998	100	ug/l	1000	ND	100	70-130	3	20	

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1333 Broadway, Suite 800	Project Number: G07Y3-0009	Reported:
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

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 6I02004 - EPA 5030B P/T / EPA 8260B										
Blank (6I02004-BLK1)				Prepared & Analyzed: 09/02/06						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Dibromofluoromethane	*2.35*		"	*2.50*		*94*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.51*		"	*2.50*		*100*	*60-145*			
Surrogate: Toluene-d8	*2.26*		"	*2.50*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.08*		"	*2.50*		*83*	*60-120*			
Laboratory Control Sample (6I02004-BS1)				Prepared & Analyzed: 09/02/06						
tert-Amyl methyl ether	9.78	0.50	ug/l	10.0		98	65-135			
Benzene	10.2	0.50	"	10.0		102	70-125			
tert-Butyl alcohol	185	20	"	200		92	60-135			
Di-isopropyl ether	11.2	0.50	"	10.0		112	70-130			
1,2-Dibromoethane (EDB)	9.95	0.50	"	10.0		100	80-125			
1,2-Dichloroethane	9.50	0.50	"	10.0		95	75-125			
Ethanol	192	300	"	200		96	15-150			
Ethyl tert-butyl ether	11.5	0.50	"	10.0		115	65-130			
Ethylbenzene	10.9	0.50	"	10.0		109	70-130			
Methyl tert-butyl ether	11.3	0.50	"	10.0		113	50-140			
Toluene	9.58	0.50	"	10.0		96	70-120			
Xylenes (total)	32.5	0.50	"	30.0		108	80-125			
Surrogate: Dibromofluoromethane	*2.41*		"	*2.50*		*96*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.45*		"	*2.50*		*98*	*60-145*			
Surrogate: Toluene-d8	*2.46*		"	*2.50*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.58*		"	*2.50*		*103*	*60-120*			

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1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

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 6I02004 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (6I02004-MS1)	**Source: MPH0906-07**			Prepared & Analyzed: 09/02/06						
tert-Amyl methyl ether	9.16	0.50	ug/l	10.0	ND	92	65-135			
Benzene	9.63	0.50	"	10.0	ND	96	70-125			
tert-Butyl alcohol	189	20	"	200	ND	94	60-135			
Di-isopropyl ether	9.73	0.50	"	10.0	ND	97	70-130			
1,2-Dibromoethane (EDB)	9.88	0.50	"	10.0	ND	99	80-125			
1,2-Dichloroethane	8.87	0.50	"	10.0	ND	89	75-125			
Ethanol	187	300	"	200	ND	94	15-150			
Ethyl tert-butyl ether	10.4	0.50	"	10.0	ND	104	65-130			
Ethylbenzene	10.2	0.50	"	10.0	ND	102	70-130			
Methyl tert-butyl ether	10.6	0.50	"	10.0	ND	106	50-140			
Toluene	9.52	0.50	"	10.0	ND	95	70-120			
Xylenes (total)	31.0	0.50	"	30.0	ND	103	80-125			
Surrogate: Dibromofluoromethane	*2.46*		"	*2.50*		*98*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.35*		"	*2.50*		*94*	*60-145*			
Surrogate: Toluene-d8	*2.41*		"	*2.50*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.54*		"	*2.50*		*102*	*60-120*			
Matrix Spike Dup (6I02004-MSD1)	**Source: MPH0906-07**			Prepared & Analyzed: 09/02/06						
tert-Amyl methyl ether	9.28	0.50	ug/l	10.0	ND	93	65-135	1	25	
Benzene	10.0	0.50	"	10.0	ND	100	70-125	4	15	
tert-Butyl alcohol	191	20	"	200	ND	96	60-135	1	35	
Di-isopropyl ether	9.88	0.50	"	10.0	ND	99	70-130	2	35	
1,2-Dibromoethane (EDB)	10.0	0.50	"	10.0	ND	100	80-125	1	15	
1,2-Dichloroethane	8.95	0.50	"	10.0	ND	90	75-125	0.9	10	
Ethanol	189	300	"	200	ND	94	15-150	1	35	
Ethyl tert-butyl ether	10.6	0.50	"	10.0	ND	106	65-130	2	35	
Ethylbenzene	10.5	0.50	"	10.0	ND	105	70-130	3	15	
Methyl tert-butyl ether	10.6	0.50	"	10.0	ND	106	50-140	0	25	
Toluene	9.74	0.50	"	10.0	ND	97	70-120	2	15	
Xylenes (total)	31.9	0.50	"	30.0	ND	106	80-125	3	15	
Surrogate: Dibromofluoromethane	*2.46*		"	*2.50*		*98*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.32*		"	*2.50*		*93*	*60-145*			
Surrogate: Toluene-d8	*2.42*		"	*2.50*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.49*		"	*2.50*		*100*	*60-120*			

TestAmerica
ANALYTICAL TESTING CORPORATION

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

URS Corporation [Arco]	Project: BP Heritage #11266, Alameda, CA	MPH0918
1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

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 6I07006 - EPA 5030B P/T / EPA 8260B										
Blank (6I07006-BLK1)				Prepared & Analyzed: 09/07/06						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Dibromofluoromethane	*2.29*		"	*2.50*		*92*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.31*		"	*2.50*		*92*	*60-145*			
Surrogate: Toluene-d8	*2.27*		"	*2.50*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.27*		"	*2.50*		*91*	*60-120*			
Laboratory Control Sample (6I07006-BS1)				Prepared & Analyzed: 09/07/06						
tert-Amyl methyl ether	10.0	0.50	ug/l	10.0		100	65-135			
Benzene	9.74	0.50	"	10.0		97	70-125			
tert-Butyl alcohol	194	20	"	200		97	60-135			
Di-isopropyl ether	10.4	0.50	"	10.0		104	70-130			
1,2-Dibromoethane (EDB)	9.72	0.50	"	10.0		97	80-125			
1,2-Dichloroethane	10.1	0.50	"	10.0		101	75-125			
Ethanol	280	300	"	200		140	15-150			
Ethyl tert-butyl ether	10.4	0.50	"	10.0		104	65-130			
Ethylbenzene	10.4	0.50	"	10.0		104	70-130			
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	50-140			
Toluene	10.3	0.50	"	10.0		103	70-120			
Xylenes (total)	32.0	0.50	"	30.0		107	80-125			
Surrogate: Dibromofluoromethane	*2.26*		"	*2.50*		*90*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.22*		"	*2.50*		*89*	*60-145*			
Surrogate: Toluene-d8	*2.29*		"	*2.50*		*92*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.34*		"	*2.50*		*94*	*60-120*			

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URS Corporation [Arco]	Project: BP Heritage #11266, Alameda, CA	MPH0918
1333 Broadway, Suite 800	Project Number: G07Y3-0009	**Reported:**
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

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 6I07006 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (6I07006-MS1)	**Source: MPH1001-01**			Prepared & Analyzed: 09/07/06						
tert-Amyl methyl ether	10.4	0.50	ug/l	10.0	ND	104	65-135			
Benzene	9.86	0.50	"	10.0	ND	99	70-125			
tert-Butyl alcohol	194	20	"	200	ND	97	60-135			
Di-isopropyl ether	10.8	0.50	"	10.0	ND	108	70-130			
1,2-Dibromoethane (EDB)	10.2	0.50	"	10.0	ND	102	80-125			
1,2-Dichloroethane	10.6	0.50	"	10.0	ND	106	75-125			
Ethanol	243	300	"	200	ND	122	15-150			
Ethyl tert-butyl ether	10.9	0.50	"	10.0	ND	109	65-130			
Ethylbenzene	10.3	0.50	"	10.0	ND	103	70-130			
Methyl tert-butyl ether	10.9	0.50	"	10.0	ND	109	50-140			
Toluene	10.3	0.50	"	10.0	ND	103	70-120			
Xylenes (total)	32.3	0.50	"	30.0	ND	108	80-125			
Surrogate: Dibromofluoromethane	*2.31*		"	*2.50*		*92*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.38*		"	*2.50*		*95*	*60-145*			
Surrogate: Toluene-d8	*2.27*		"	*2.50*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.31*		"	*2.50*		*92*	*60-120*			
Matrix Spike Dup (6I07006-MSD1)	**Source: MPH1001-01**			Prepared & Analyzed: 09/07/06						
tert-Amyl methyl ether	10.4	0.50	ug/l	10.0	ND	104	65-135	0	25	
Benzene	9.91	0.50	"	10.0	ND	99	70-125	0.5	15	
tert-Butyl alcohol	194	20	"	200	ND	97	60-135	0	35	
Di-isopropyl ether	10.7	0.50	"	10.0	ND	107	70-130	0.9	35	
1,2-Dibromoethane (EDB)	10.1	0.50	"	10.0	ND	101	80-125	1	15	
1,2-Dichloroethane	10.6	0.50	"	10.0	ND	106	75-125	0	10	
Ethanol	321	300	"	200	ND	160	15-150	28	35	LM
Ethyl tert-butyl ether	10.8	0.50	"	10.0	ND	108	65-130	0.9	35	
Ethylbenzene	10.6	0.50	"	10.0	ND	106	70-130	3	15	
Methyl tert-butyl ether	10.8	0.50	"	10.0	ND	108	50-140	0.9	25	
Toluene	10.4	0.50	"	10.0	ND	104	70-120	1	15	
Xylenes (total)	32.4	0.50	"	30.0	ND	108	80-125	0.3	15	
Surrogate: Dibromofluoromethane	*2.27*		"	*2.50*		*91*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.31*		"	*2.50*		*92*	*60-145*			
Surrogate: Toluene-d8	*2.29*		"	*2.50*		*92*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.33*		"	*2.50*		*93*	*60-120*			

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URS Corporation [Arco]	Project: BP Heritage #11266, Alameda, CA	MPH0918
1333 Broadway, Suite 800	Project Number: G07Y3-0009	Reported:
Oakland CA, 94612	Project Manager: Alok Kolekar	09/21/06 16:02

Notes and Definitions

SG	A silica gel cleanup procedure was performed.
PT	Hydrocarb. in req. fuel range, but doesn't resemble req. fuel
LM	MS and/or MSD above acceptance limits. See Blank Spike(LCS).
DU	Insufficient sample quantity for matrix spike/dup matrix spike
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

Project Name GWM
BP BU/GEM CO Portfolio Retail
BP Laboratory Contract Number: Atlantic Richfield Company BTS# 060824-URZ
Date: 08/24/06
Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time:	1345 Temp: 070°
Off- site Time:	1645 Temp: 70°
Sky Conditions:	Clear
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: 11266	Consultant/Contractor: URS
Lab Name: Test America	BP/GEM Facility Address: 1541 Park St., Alameda	Address: 1333 Broadway, Suite 800
Lab Address: 885 Jarvis Dr.	Site ID No. 11266	Oakland, CA 94612
Morgan Hill, CA 95037	Site Lat/Long:	e-mail EDD: alok_kolekar@urscorp.com
	California Global ID #: T0601300185	Consultant/Contractor Project No.:
Lab PM Lisa Race	BP/GEM PM Contact:	Consultant Tele/Fax: 510-874-3152/ 510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address: ~~MPH0905~~ MPH0918	Consultant/Contractor PM: Alok Kolekar
Report Type & QC Level: 1 Send EDF Reports		Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax:	BP/GEM Work Release No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No. MPH0918	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: GRO/BTEX (8260)	Requested Analysis: DRO (8015)	Requested Analysis: Total Lead	Requested Analysis: Ethanol (8260)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: EDB & EDC (8260)	Sample Point Lat/Long and Comments
1	MW-1	1458		X			01	9				X	X	X	X	X	X	X	Sample Date
2	MW-2	1531		X			02	9				X	X	X	X	X	X	X	08/24/06
3	MW-3	1525		X			03	9				X	X	X	X	X	X	X	
4	MW-4	1555		X			04	9				X	X	X	X	X	X	X	
5	MW-5	1620		X			05	9				X	X	X	X	X	X	X	
6	MW-6	1436		X			06	9				X	X	X	X	X	X	X	
7	TB-11266-08242006	—		X			07	2				X							ON HOLD
8																			
9																			
10																			

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: S. Carmack		08/24/06	1755		08/24/06	1800
Sampler's Company: Blaine Tech Services		8/24/06	1760		8/24/06	1760
Shipment Date:		8/25	1305		8/25	1305
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes No Temperature Blank Yes X No Cooler Temperature on Receipt 2.1 °F/C Trip Blank Yes X No

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

BP COC Rev. 1 2/5/02

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
REC. BY (PRINT): [illegible] 8/25/06
WORKORDER: MPH 6905 9/8

DATE REC'D AT LAB: 8/25/06
TIME REC'D AT LAB: 1805
DATE LOGGED IN: 8-27-06

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent / Intact / Broken*	01		MW-1	6 VOAs	HCl	—	L	8/24	
				250ml (P)	HNO3				
2. Chain-of-Custody Present / Absent*	↓		↓	2 AMBERS	—				
3. Traffic Reports or Packing List: Present / Absent	02		-2	SAME	SAME				
	03		-3						
4. Airbill: Airbill / Sticker Present / Absent	04		-4						
	05		-5						
5. Airbill #:	06		-6	↓	↓				
6. Sample Labels: Present / Absent	07		TB	2 VOAs	HCl	↓	↓	↓	
7. Sample IDs: Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No*						7			
14. Read Temp: 2.1°C									
Corrected Temp: [illegible]									
Is corrected temp 4 +/-2°C? Yes / No**									

8/26/06

(Acceptance range for samples requiring thermal pres.)

**Exception (if any): METALS / DFF ON ICE or Problem COC

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

WELL GAUGING DATA

Project # 060824-WC-2 Date 08-24-06 Client BP11266

Site 1541 Ink Street, Alameda

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	1400	2	ORC	IN	WELL,		~~4.175~~	~~24.14~~		
MW-2	1416	2					8.25	25.02		
MW-3	1422	2					9.61	19.49		no lock
MW-4	1411	2					8.98	21.79		bolt gone
MW-5	1405	2					8.12	24.05		lock missing
MW-6	1425	2					8.26	18.93	↓	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 060824-WC-B	Station # 1266
Sampler: Will Crow	Date: 8-24-06
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 24.46	Depth to Water: 7.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method: Bailer / ~~Disposable Bailer~~ / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / ~~Disposable Bailer~~ / Extraction Port / Other: _____

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

2.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 8.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1445	73.6	6.9	617	2.7	
1449	73.1	6.7	618	5.4	
1453	72.7	6.6	630	8.1	

Did well dewater? Yes (No) Gallons actually evacuated: 8.1

Sampling Time: 1458 Sampling Date: 8-24-06

Sample I.D.: MW-1 Laboratory: Pace Sequoia TA Other _____

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: ~~11266~~ 060824-WC-1	Station # 11266
Sampler: Will Crow	Date: 8-24-06
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 25.02	Depth to Water: 8.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method: Bailer / (Disposable Bailer) / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / ~~Disposable Bailer~~ / Extraction Port / Other: _____

Top of Screen: _____

If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

2.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 8.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1515	70.9	7.2	538	2.7	Brown
1520	70.0	7.0	543	5.4	↓
1525	69.5	6.9	554	8.1	↓

Did well dewater? Yes (No) Gallons actually evacuated: 8.1

Sampling Time: 1531 Sampling Date: 8-24-06

Sample I.D.: MW-2 Laboratory: Pace (Sequoia) TA Other _____

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 060824-WC2	Station # BP 11266
Sampler: SC	Date: 08/24/06
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.49	Depth to Water: 9.67
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X Disposable Bailer
- Extraction Port
- Other: _____

Top of Screen: _____

If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

1.6 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 4.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1513	74.0	6.8	537	1.6	Lt. brownish; odo-
1517	73.8	6.8	531	3.2	" " "
1520	73.5	6.8	525	4.8	" " faint odo-

Did well dewater? Yes (No) Gallons actually evacuated: 4.8

Sampling Time: ~~1081~~ SC 1525 Sampling Date: 08/24/06

Sample I.D.: MW-3 Laboratory: Pace Sequoia Other TA

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol Other: ~~5~~ 5 See COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 060824-WC2	Station # BP 11266
Sampler: SC	Date: 08/24/06
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 21.79	Depth to Water: 8.98
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method:
- Bailer
- (X) Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- (X) Disposable Bailer
- Extraction Port
- Other: _____

Top of Screen: _____

If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

2.1 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1541	70.6	6.6	609	2.1	cldy brownish; no odo-
1544	70.8	6.5	611	4.2	" " " "
1547	71.2	6.5	613	6.3	" " " "

Did well dewater? Yes (No) Gallons actually evacuated: 6.3

Sampling Time: 1555 Sampling Date: 08/24/06

Sample I.D.: MW-4 Laboratory: Pace Sequoia Other TA

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol Other: See COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 060824-WC2	Station # BP11266
Sampler: SC	Date: 08/24/06
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.05	Depth to Water: 8.12
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X Disposable Bailer
- Extraction Port
- Other: _____

Top of Screen: _____

If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

2.6 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 7.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1607	69.2	7.0	429	2.6	cldy brownish; no odor
1611	68.7	7.0	437	5.2	" " " "
1615	68.5	7.0	446	7.8	" " " "

Did well dewater? Yes (No)

Gallons actually evacuated: 7.8

Sampling Time: 1620

Sampling Date: 08/24/06

Sample I.D.: MW-5

Laboratory: Pace Sequoia Other TA

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol Other: 5 cl Co C

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: OGCC824-SL-1 WC2	Station # 11266
Sampler: WC	Date: 8/24/06
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 18.93	Depth to Water: 8.26
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Extraction Pump; Other: _____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Other: _____

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

1.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1426	74.2	6.1	481	1.7	
1429	74.0	6.4	496	3.4	
1431	73.9	6.6	495	5.1	

Did well dewater? Yes (No) Gallons actually evacuated: 5.1

Sampling Time: 1436 Sampling Date: 8-24-06

Sample I.D.: MW-6 Laboratory: Pace Sequoia (TA) Other _____

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol Other: See COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SOURCE RECORD **BILL OF LADING**
FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT :

BP 11266
Client

~~TSC~~
Site Name

1541 Park St
Street Address

Alameda, CA
City, State

THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED TO:

The contractor performing this work is BLAINE TECH SERVICES, INC., 1680 Rogers Ave., San Jose, CA 95112 (phone [408] 573-0555).

WELL I.D.	GALS.	WELL I.D.	GALS.

added equip. rinse water / _____

any other adjustments / _____

TOTAL GALS. RECOVERED 42.0

loaded onto BTS vehicle # 54

BTS event # 060824-WC2

time 1665 date 08/27/06

signature [signature]

* *

REC'D AT _____ time _____ date __/__/__

unloaded by signature _____

WELLHEAD INSPECTION CHECKLIST
BP / GEM

Date 8-24-06

Site Address 1541 Park Street, Alameda

Job Number 060824-WC-1 Technician Will

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1								
MW-2								
MW-3						X		
MW-4	1 of 4	2 bolt		broken				
MW-5	1 of 4	2	bolt	broken				
MW-6								

NOTES: ~~MW-4 1 bolt missing MW-5 1 bolt missing~~ re
~~MW-3 no lock.~~ re

WELL GAUGING DATA

Project # 060821-SC1 Date 08/21/06 Client BP 11266

Site 1541 Park St. Alameda, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0932	2 *					7.82	23.73		
MW-2	1055	2					7.34	24.50		
MW-3	1203	2					9.61	19.57		
MW-4	1834	2					9.05	21.41		
MW-5	1305	2					~~8.18~~ 8.13	~~23.72~~ 23.77		
MW-6	1426	2					7.65	18.20		
	* removed ORC's to gauge/sample, + develop well									

BLAINE TECH SERVICES, INC. SAN JOSE SACRAMENTO LOS ANGELES SAN DIEGO SEATTLE www.blainetech.com

WELL DEVELOPMENT DATA SHEET

Project #: 060821-SC1	Client: BP 11266
Developer: SC	Date Developed: 08/21/06
Well I.D. MW-1	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 23.73 After 24.34	Depth to Water: Before 7.82 After 12.04
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged well for 10 min. prior to development	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

2.6	X	10	=	26
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump
Other equipment used 2" Surge Block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0951	68.0	6.1	604	332	2.6	hard bottom encountered; heavy si 0.8gpm grey-black; odor DTW = 8.84
0956	69.8	6.3	607	291	5.2	grey-black; odor heavy silt DTW=
1001	70.1	6.3	618	290	7.8	grey-black; odor +sheen " " DTW=
1006	69.7	6.4	634	320	10.4	" " " " " " DTW= fi..
1011	68.7	6.6	664	145	13.0	greyish; odor+sheen DTW= 11.5
1016	68.5	6.6	665	82	15.6	" " " DTW= 11.76
1021	68.9	6.6	662	68	18.2	clear greyish; odor DTW= 12.2
1026	68.2	6.6	660	39	20.8	" " " DTW= 12.16
1031	68.2	6.6	659	23	23.4	" " " DTW= 12.30
1036	68.2	6.6	661	20	26.0	" " " DTW= 12.04

Did Well Dewater? No | If yes, note above. | Gallons Actually Evacuated: 26.0

WELL DEVELOPMENT DATA SHEET

Project #: 060821-SC1	Client: BP 11266
Developer: SC	Date Developed: 08/21/06
Well I.D. MW-2	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 24.50 After 25.12	Depth to Water: Before 7.34 After
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged well for 10 min prior to Development	

Volume Conversion Factor (VCF):	Well dia.		VCF
$\{12 \times (d^2/4) \times \pi\} / 231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

2.8	X	10	=	28
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump
Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1108						
1112	67.0	7.0	535	71000	2.8	soft bottom heavy silt dark brown; faint odor DTW=12.4
1115	68.9	6.7	539	71000	5.6	hard bottom encountered heavy silt; dark brown; odo- DTW= 14.3
1119	68.1	6.8	570	71000	8.4	" " " " " DTW= 15.3
1122	67.9	6.8	571	466	11.2	cloudy light brown; faint odor DTW= 15.5
1126	68.1	6.8	569	71000	14.0	brown cloudy; " " DTW= 15.5
1129	68.2	6.8	572	459	16.8	cldy light brown; odo- DTW= 15.68
1133	68.2	6.8	573	192	19.6	" " " faint odo- DTW= 16.88
1136	68.2	6.8	573	171	22.4	" " " " DTW= 16.97
1140	68.1	6.8	572	164	25.2	" " " " DTW= 17.18
1143	68.2	6.8	574	114	28.0	" " " " DTW= 16.39

Did Well Dewater? No	If yes, note above.	Gallons Actually Evacuated:	28.0

WELL DEVELOPMENT DATA SHEET

Project #: 060821-SC1	Client: BP 11266
Developer: SC	Date Developed: 08/21/06
Well I.D. MW-3	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 19.57 After 19.58	Depth to Water: Before 9.61 After 11.70
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged well for ~ 5 min prior to development	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1.6	X	10	=	16.0
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump
Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1223						
1225	67.3	7.0	513	>1000	1.6	hard bottom encountered brown cloudy/ heavy silt
1227	71.2	6.8	527	>1000	3.2	" " / " odor DTW=11.29
1229	72.4	6.7	543	>1000	4.8	" " " " DTW=11.42
1231	72.0	6.9	542	>1000	6.4	" " " " " DTW=11.47
1233	71.8	7.0	534	>1000	8.0	" " " " " DTW=11.36
1235	72.0	6.7	527	365	9.6	light brown/ fair color DTW=11.47
1237	71.9	7.0	523	470	11.2	" " " " DTW=11.52
1239	71.8	7.0	527	202	12.8	" " " "
1241	72.4	6.8	530	174	14.4	" " " " DTW=11.84
~~1243~~					~~16.0~~	
1243	72.5	6.8	528	156	16.0	clay/lt-brown no color DTW=11.70

Did Well Dewater? NO | If yes, note above. | Gallons Actually Evacuated: 16.0

WELL DEVELOPMENT DATA SHEET

Project #: 060821-SC1	Client: BP 11266
Developer: SC	Date Developed: 08/21/06
Well I.D. MW-4	Well Diameter: (circle one) (2) 3 4 6 __
Total Well Depth: Before 21.41 After	Depth to Water: Before 9.05 After 10.92
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged well for 1 min prior to development	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

2-0	X	10	=	20
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☐ Positive Air Displacement

Type of Installed Pump ____
Other equipment used 2" Surge Block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1541						
1543	69.7	6.7	535	71000	2.0	dark brown; heavy silt
1546	70.7	6.6	533	71000	4.0	hard bottom encountered dark brown; heavy silt DTW = 10.53
1549	70.7	6.4	541	71000	6.0	" " " "
1552	70.6	6.6	564	71000	8.0	oily brown; heavy silt no odor DTW = 10.53
1555	70.5	6.6	577	71000	10.0	" " " "
~~1558~~ 1557	70.4	6.6	582	882	12.0	clearing; slight odor
~~1601~~ 1559	70.4	6.6	588	506	14.0	" " " DTW = 10.5
~~1604~~ 1601	70.4	6.5	586	471	16.0	" " "
~~1607~~ 1603	70.4	6.5	594	313	18.0	" " "
~~1610~~ 1606	70.4	6.6	598	250	20.0	" " " DTW = 10.92

Did Well Dewater? No	If yes, note above.	Gallons Actually Evacuated:	20.0

WELL DEVELOPMENT DATA SHEET

Project #: 060821-SC1	Client: BP 11266
Developer: SC	Date Developed: 08/21/06
Well I.D. MW-5	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before ~~(SC) 8.77~~ 23.72 After 23.64	Depth to Water: Before ~~(SC) 8.15~~ 8.13 After 10.74
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged w/ surgeblock 10 min per ft development	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

~~0.16~~ (2) 2.5 x ~~10~~ 10 = 25.0 ~~+0~~ (2)

1 Case Volume | Specified Volumes | gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump ___

Other equipment used 2" Surgeblock

1318 TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1321	67.0	7.0	495	>1000	2.5	brown cloudy; faint odor
1325	67.8	6.9	363	717	5.0	hard bottom encountered; DTW @ 10.11
1328	67.8	6.9	401	>1000	7.5	light brown; no odor DTW = 10.41
1332	67.9	6.8	443	632	~~9.0~~ 10.0	" " " " DTW = 10.62
1335	67.8	6.8	468	586	12.5	" " " "
1339	67.8	6.8	497	269	15.0	" " " " DTW = 10.59
1342	67.7	6.8	507	142	17.5	" " ; faint odor
1346	67.7	6.8	520	101	20.0	" " " " DTW = 10.63
1349	67.7	6.8	522	90	22.5	clear lt. brown / faint odor
1353	67.7	6.9	527	85	25.0	" " " DTW = 10.74

Did Well Dewater? NO | If yes, note above. | Gallons Actually Evacuated: 25.0

WELL DEVELOPMENT DATA SHEET

Project #: 060821-SC1	Client: BP 11266
Developer: SC	Date Developed: 08/21/06
Well I.D. MW-6	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 18.20 After 18.93	Depth to Water: Before 7.65 After 9.07
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged well for 10 min. pri. - to development	

Volume Conversion Factor (VCF):	Well dia.		VCF
(12 x (d^2/4) x π) /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1.7	x	10	=	17.0
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump _____
Other equipment used 2" Surge block

TIME (1437 1434)	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1437	71.8	6.9	487	71000	1.7	0.6 gpm cldy brown; faint odor
1440	73.2	6.7	479	>1000	3.4	hard bottom encountered brown cldy; faint odor DTW=08.81
1443	73.2	6.7	492	>1000	5.1	" " " "
1446	72.9	6.7	481	>1000	6.8	" " no odor- DTW=8.68
1449	73.2	6.7	158	~~>1000 673~~	8.5	heavy silt; no odor-
1452	73.0	6.6	237	>1000	10.2	" " brown; " " DTW=8.84
1455	72.8	6.6	448	839	11.9	" " " " "
1458	72.9	6.7	~~577~~ 470	571	13.6	" " " " " DTW=8.88
1500	72.7	6.6	~~470~~ 469	587	15.3	less silt; no odor
1503	73.2	6.6	483	~~448~~ 368	17.0	" " faint odor- DTW=9.07

Did Well Dewater? No	If yes, note above.	Gallons Actually Evacuated:	17.0

BP GEM OIL COMPANY TYPE **A** BILL OF LADING

SOURCE RECORD **BILL OF LADING** FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY DILLARD ENVIRONMENTAL TO THE ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY IN LIVERMORE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. 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:

BP 11266

Station #

1541 Park St. Alameda, CA

Station Address

Total Gallons Collected From Groundwater Monitoring Wells: 132.0

added equip. rinse water 5.0

any other adjustments

TOTAL GALS. RECOVERED 137

loaded onto BTS vehicle # 22

BTS event # 060821-SC1

time 1635

date 08/21/06

signature

* *

REC'D AT

time

date

unloaded by

signature

bp

WELLHEAD INSPECTION CHECKLIST
BP / GEM

Date 08/21/06

Site Address 1541 Park St. Alameda, CA

Job Number 060821-SC1 Technician S. Carmick

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1							X	
MW-2		X					X	
MW-3							X	
MW-4							X	
MW-5							X	
MW-6							X	

NOTES: Christybox ⇒ MW-1; MW-2; MW-3; MW-6

MW-5 ⇒ 1/2 bolts missing (broke during removal)

MW-4 ⇒ " " " (" " ")

APPENDIX B

REQUEST FOR SITE CLOSURE, BP SERVICE STATION #11266
1541 PARK STREET, ALAMEDA, CALIFORNIA
(URS CORPORATION, 21 FEBRUARY 2006)

URS

February 21, 2003

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

SUBJECT: REQUEST FOR SITE CLOSURE, BP SERVICE STATION #11266, 1541 PARK STREET, ALAMEDA, CALIFORNIA

Dear Ms. Chu:

URS Corporation (URS) has prepared the following request for closure of the subject site on behalf of Group Environmental Management company (a BP affiliate company). This letter includes a brief site history and addresses the six points defining a Low Risk Groundwater Case as laid out in *Supplemental Instructions to State Water Board, December 8, 1995, Interim Guidance on Required Cleanup at Low Risk Fuel Sites* (CRWQCB, January 5, 1996).

SITE HISTORY

A site history is included in the *Baseline Assessment Report* for Site 11266, prepared by EMCON Northwest, Inc. (EMCON) in 1994. Site 11266 is an operating 76-branded service station on the southwest corner of the intersection of Lincoln Avenue and Park Street in Alameda, California (Figure 1). Surrounding properties include a restaurant to the west of the site; a restaurant, shopping center, car dealer, and oil change service garage to the south and southeast of the site; and shopping centers and a restaurant to the north and east of the site. BP has been responsible for site environmental issues since ownership of the site was transferred from Mobil Oil Corporation (Mobil) to BP in 1989.

Site features include a station building and two pump islands with a concrete drive slab and canopy. Existing underground storage tanks (USTs) at the station include one 12,000-gallon and two 10,000-gallon double wall fiberglass tanks installed in 1987. A 1,000-gallon double wall fiberglass waste oil tank was also installed in 1987 (EMCON found conflicting information listing the existing waste oil tank at 600 gallons). The station manager at the time of EMCON's investigation stated that all tanks were equipped with leak detection systems according the EMCON's report. The station building has three auto repair service bays, each with a hoist and an associated floor drain. Two remote fill drains for the waste oil tank are also located in the service bay area. The floor drains were said by the station manager at the

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
Fax: 510.874.3268

time of EMCON's investigation to discharge to the sanitary sewer, and the remote fills to connect to the waste oil UST.

EMCON personnel visited the site on July 8, 1994 (EMCON, 1994). They noted three observation wells in the UST complex area and seven wells on site. Observation wells within the UST complex could not be accessed during the site visit. The concrete surfaces within the auto repair service bays and by the pump islands were reported to be in good condition with few cracks. The asphalt covering the rest of the site was reported to have a significant number of cracks. A groundwater treatment system near the southwest corner of the site appeared to be operating at the time of EMCON's site visit.

Four USTs are reported to have been on site prior to the installation of the current USTs in 1987 (EMCON, 1994). EMCON found conflicting information the capacities of the former USTs. According to the 1987 *Soil Sampling Report* prepared by Kaprelian Engineering, Inc. (KEI), former USTs at the site included one 8,000-gallon, one 6,000-gallon, one 5,000-gallon, and one 250-gallon tank. KEI reported the 8,000-gallon and 6,000-gallon tanks were single wall fiberglass, while the 5,000-gallon and the 250-gallon tanks were of steel construction. Mobil permit application information indicated that the former USTs included one 10,000-gallon fiberglass tank installed in 1979, one 8,000-gallon fiberglass tank installed in 1979, one 6,000-gallon steel tank installed in 1972, and one 285-gallon tank installed in 1952. These appear to be the same USTs referenced by KEI, despite the differences in capacity.

CRITERIA FOR CLOSURE AS A LOW-RISK GROUNDWATER SITE

Supplemental Instructions to State Water Board, December 8, 1995, Interim Guidance on Required Cleanup at Low Risk Fuel Sites (CRWQCB, January 5, 1996) lists six criteria for closure of a low-risk groundwater site. These six criteria are addressed in the following paragraphs.

1. *Leak has been stopped and ongoing sources, including free product, have been removed or remediated*

   The suspected source of contamination at Site 11266 is the four USTs removed from the site and replaced in September 1987. An 8,000-gallon fiberglass UST, 6,000-gallon fiberglass UST, 5,000-gallon steel UST, and 250-gallon steel UST were removed. Approximately 400 cubic yards of contaminated soil were also removed. Sampling of the excavation sidewalls detected a maximum of 3,200 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPH-g) and 81 mg/kg benzene in two samples along the east side of the excavation at approximately 11.5 feet below ground surface. It is not clear whether this was ever over-excavated. However, subsequent

investigations did not detect significant contaminant concentrations in site soil. Any soil contamination remaining after UST excavation appears to have been restricted to the east side of the excavation, and has probably attenuated significantly since 1987. Summary data from previous consultants is provided in Appendix A.

The new USTs were tightness tested in October 1987 and reported tight. BP installed new dispensers and product lines at Site 11266 from September through October 1990. The new product lines were leak tested in November 1990 and reported tight. No free product was documented to be present at Site 12266.

2. *The site has been adequately characterized*

The *Baseline Assessment Report* prepared by EMCON documents the extensive site investigation activity between 1987 and 1994, including the following:

- Soil and groundwater sampling associated with UST removal and replacement in October 1987
- Preliminary groundwater investigation, including soil boring and monitoring well construction in 1988)
- Monthly groundwater monitoring from July to December 1988
- Soil boring and groundwater monitoring well in March 1989
- Phase II site assessment in November 1989

Routine groundwater monitoring was conducted at Site 11266 from March 1988 to September 2001 (Table 1).

3. *The dissolved hydrocarbon plume is not migrating*

Groundwater monitoring data from 1988 to the most recent sampling event in September 2001 shows that the dissolved hydrocarbon plume has stabilized and is attenuating (Table 1). TPH-g and benzene, toluene, ethylbenzene and xylene (BTEX) compounds were initially detected in wells MW-1, MW-2, MW-4, and RW-1. Monitoring for methyl tertiary butly ether (MTBE) began at the site in 1993. TPH-g, BTEX and MTBE were subsequently detected in wells MW-3 and MW-6. Constituent concentrations increased in well MW-2 in 1993, in well MW-6 from 1995 to 1997, and in well MW-3 in 1999. Constituent concentrations in these wells subsequently attenuated. The last four quarters of

monitoring detected acceptable concentrations of TPH-g, BTEX and MTBE in site wells, or concentrations indicating an attenuating trend.

During the first four monitoring events, the following TPH-g and benzene concentrations were detected in site wells:

- MW-1: TPH-g ranged from 15,000 micrograms per liter (ug/L) to 95,000 ug/L; benzene ranged from 280 ug/L to 2,000 ug/L
- MW-2: TPH-g ranged from non-detect to 170 ug/L; benzene ranged from non-detect to 1.4 ug/L.
- MW-4: TPH-g ranged from non-detect to 430 ug/L; benzene ranged from non-detect to 6.2 ug/L.
- RW-1: TPH-g ranged from and 660 ug/L to 13,000 ug/L in RW-1; benzene ranged from 13 ug/L to 1,000 ug/L.

MTBE was first detected in site wells in 1993. MTBE concentrations from the first quarter 1993 to the fourth quarter 1993) were as follows:

- MW-1: 220 ug/L to 1,400 ug/L
- MW-2: 23 ug/L to 1,300 ug/L
- MW-3: MTBE not analyzed until third quarter 1995
- MW-4: MTBE not analyzed until third quarter 1995
- MW-5: MTBE not analyzed until third quarter 1995
- MW-6: MTBE not analyzed until third quarter 1994
- RW-1: 315 ug/L to 1,900 ug/L.

Constituent concentrations in well MW-1 have decreased steadily. A moderate spike in TPH-g, BTEX and MTBE was detected in well MW-1 during the first quarter 1994. TPH-g and benzene concentrations declined to 990 ug/L and 24 ug/L, respectively, in the third quarter 2001. MTBE was first detected in well MW-1 during the first quarter 1993 at a concentration of 1,400 ug/L. The MTBE concentration reached its maximum of 68,412 ug/L in the first quarter 1994, and has decreased since to 31.2 ug/L in the third quarter 2001. Concentration trends in well MW-1 are illustrated in Charts 1 and 2. Strong decreasing trends are apparent for TPH-g, benzene and MTBE.

Concentrations of TPH-g and MTBE in MW-2 increased between the first quarter 1993 and approximately the first quarter 1996, reaching maximum concentrations of 3,400 ug/L and 11,000

ug/L, respectively. Concentrations of TPH-g and MTBE subsequently decreased through the last round of monitoring in 2001 to 100 ug/L and 178 ug/L. Benzene was detected at a maximum concentration of 3.1 ug/L in the fourth quarter 1994, and has been detected once since, at a concentration of 1.02 ug/L in the first quarter 2001.

TPH-g, BTEX or MTBE were not detected or were detected at trace levels in well MW-3 until the first quarter of 1999, when TPH-g was detected at 17,000 ug/L; benzene was detected at 8.2 ug/L; and MTBE was detected at 17,000 ug/L. Well MW-3 is located next to a waste oil tank, and the increase in concentrations after years of non-detects indicates a possible spill or other release. This possibility is further supported by the high concentrations of MTBE, which was generally not used at the time the original release was detected (1987). However, annual monitoring of well MW-3 from 1999 to 2001 shows rapid attenuation of all constituents. TPH-g was last detected at 610 ug/L; benzene at 2.97 ug/L; and MTBE at 572 ug/L. Therefore, there is not an ongoing source of contamination at well MW-3. Concentration trends in well MW-3 are illustrated in Charts 3 and 4. The charts show a decreasing trend since the initial TPH-g, benzene and MTBE detections in 1999.

Low or trace concentrations of TPH-g and BTEX were detected in well MW-4 in the fourth quarter 1989. No detections in MW-4 have been recorded since. MTBE has never been detected in well MW-4. Similarly, no detections of TPH-g, BTEX and MTBE have been recorded for well MW-5 since the beginning of monitoring, with the exception of a trace amount of xylene detected in the third quarter 1993.

TPH-g, BTEX or MTBE were not detected in well MW-6 until the third quarter 1995 for TPH-g and BTEX, and the first quarter 1993 for MTBE. An increasing trend occurred from approximately the second quarter 1995 to the third quarter 1997. A decreasing trend then occurred, with TPH-g, benzene and MTBE not detected during semiannual monitoring in 2000 and 2001. No ongoing source of contamination is apparent upgradient or in the vicinity of well MW-6.

TPH-g and benzene reached maximum concentrations of 27,000 ug/L and 2,400 ug/L, respectively, in well RW-1 during the first quarter of 1995; MTBE reached a maximum concentration of 1,400 ug/L in well RW-1 during the third and fourth quarter of 1993. Monitoring of well RW-1 was terminated in 1997 after six quarters of non-detects for TPH-g, BTEX and MTBE.

During the last year of monitoring, the following concentrations were detected in site wells:

- MW-1: TPH-g ranged from 990 ug/L to 1,500 ug/L; benzene ranged from 24 ug/L to 28.2 ug/L; MTBE ranged from 15.2 ug/L to 31.2 ug/L.
- MW-2: TPH-g ranged from 100 ug/L to 270 ug/L; benzene ranged from ND to 1.02; MTBE ranged from 178 ug/L to 341 ug/L.
- MW-3: TPH-g was detected at 610 ug/L; benzene at 2.97 ug/L; and MTBE at 572 ug/L.
- MW-4: TPH-g, benzene and MTBE were not detected.
- MW-5: TPH-g, benzene and MTBE were not detected.
- MW-6: TPH-g, benzene and MTBE were not detected.
- RW-1: Last monitoring in 1997. TPH-g, benzene and MTBE were not detected.

Figure 2 shows the most recent monitoring results and the distribution of analyte detections. No constituents were detected off site (MW-6); no constituents were detected upgradient of the USTs and dispensers (MW-4 and MW-5); and constituent concentrations in downgradient wells are either below the Tier 1 Risk-Based Screening Levels (RBSLs) for groundwater which is not a current or potential drinking water source, or are decreasing. Constituent concentrations are discussed further with respect to the Tier 1 RBSLs in the discussion of criterion 5.

4. *No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted.*

A water well survey conducted by EMCON in 1990 determined that ten irrigation wells, two industrial wells, one domestic well and one abandoned well existed within 2,000 feet of the site. Four of these wells were located downgradient of the site. Contamination at Site 11266 is restricted to the shallow groundwater zone, which is not likely to be used as a drinking water source. The lateral extent of contamination is limited to the immediate station area. Sensitive receptors are therefore unlikely to be impacted.

5. *The site presents no significant threat to human health*

The concentrations of TPH-g and benzene are currently below Tier 1 RBSLs for groundwater which is not a current or potential drinking water source of 500 ug/L for TPH-g, 46 ug/L for benzene and 1,800 ug/L for MTBE at all locations with the exception of TPH-g in MW-1 and MW-3. As noted previously, the concentrations of TPH-g and benzene show a strong decreasing trend in MW-1 and MW-3. The site therefore presents no significant threat to human health.

URS

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

6. *The site presents no significant risk to the environment*

Surface waters, wetlands and other sensitive receptors are not likely to be impacted by contamination at Site 11266, as the extent of contamination is limited both vertically and laterally to the immediate station area, and is attenuating significantly. Also, there are no site specific exposure pathways likely to cause impacts off site. The site therefore presents no significant risk to the environment.

Based on the forgoing information, BP Site 11266 meets the criteria for closure of a Low Risk Groundwater Case site. URS therefore respectfully requests closure of BP Site 11266.

Please call us at (510) 874-3115 if you have questions.

Sincerely,

URS CORPORATION

CERTIFIED HYDROGEOLOGIST
LEONARD P. NILES
NO. HG357
EXP. 3/31/04
STATE OF CALIFORNIA

John H. Madigan
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Leonard P. Niles, RG #5774, CHG #357
Project Manager

cc: Mr. Scott Hooton, BP Oil Company

URS

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REFERENCES

California Regional Water Quality Control Board (CRWQCB), 1996. *Memorandum, To: San Francisco Bay Area Agencies Overseeing UST Cleanup and Other Interested Parties, Subject: Regional Board Supplemental Instructions to State Water Board, December 8, 1995, Interim Guidance on Required Cleanup at Low-Risk Fuel Sites.* Oakland, California. January 5.

EMCON Northwest, Inc. (EMCON), 1994. *Baseline Assessment Report, Site 11266, 1541 Park Street, Alameda, California.* December 27.

APPENDIX C

GEOTRACKER UPLOAD CONFIRMATION

Electronic Submittal Information

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

Your EDF file has been successfully uploaded!

Confirmation Number: 9112707555
Date/Time of Submittal: 10/25/2006 1:06:37 PM
Facility Global ID: T0600100207
Facility Name: BP #11266
Submittal Title: 3Q 06 GW Monitoring
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

BP #11266
1541 PARK
ALAMEDA, CA 94501

Regional Board - Case #: 01-0221
SAN FRANCISCO BAY RWQCB (REGION 2)
Local Agency (lead agency) - Case #: RO0000318
ALAMEDA COUNTY LOP - **(SP)**

CONF #	TITLE	QUARTER
9112707555	3Q 06 GW Monitoring	Q3 2006

SUBMITTED BY	SUBMIT DATE	STATUS
Broadbent & Associates, Inc.	10/25/2006	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH,E200.7,SW8015B
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	N
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

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

Logged in as BROADBENT-C (CONTRACTOR) CONTACT SITE ADMINISTRATOR.

#11266

Electronic Submittal Information

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Confirmation Number:	3781980752

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CONTACT SITE ADMINISTRATOR.