# Atlantic Richfield Company

Chuck Carmel Remediation Management Project Manager

PO Box 1257 San Ramon, CA 94583 Phone: (925) 275-3804 Fax: (925) 275-3815 E-Mail: chuck.carmel@bp.com

January 24, 2013

Re: Fourth Quarter 2013 Status Report Former BP Service Station No. 11104 1716 Webster Street Alameda, California ACEH Case #RO0000281

"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,

Cal

Chuck Carmel Remediation Management Project Manager

Attachment



**RECEIVED** 

By Alameda County Environmental Health at 3:03 pm, Jan 27, 2014



January 24, 2014

Project No. 06-88-644

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

Attn.: Mr. Chuck Carmel

Re: Fourth Quarter 2013 Status Report, Former ARCO Service Station No. 11104, 1716 Webster Street, Alameda, Alameda County, California; ACEH Case #RO0000281

Dear Mr. Carmel:

Attached is the *Fourth Quarter 2013 Status Report* for former ARCO Service Station No. 11104, located at 1716 Webster Street, Alameda, Alameda County, California (Site). This report presents a summary of current developments at the Site through the Fourth Quarter of 2013. Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (707) 455-7290.

ESSIONAL OF Sincerely, KRISTENE **BROADBENT & ASSOCIATES, INC.** TIDWELL 00 969 No. CERTIFIED HYDRO Kristene Tidwell, P.G., C.Hg. Senior Geologist

Enclosures

cc: Mr. Mark Detterman, Alameda County Environmental Health (submitted via ACEH ftp site)

Mr. Delong Liu, United Petroluem Electronic copy uploaded to GeoTracker

## FOURTH QUARTER 2013 STATUS REPORT FORMER ARCO STATION No. 11104, ALAMEDA, CALIFORNIA

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Fourth Quarter 2013 Status Report* on behalf of Atlantic Richfield Company (ARC, a BP affiliated company) for former ARCO Station No. 11104 located in Alameda, Alameda County, California. Monitoring activities at the Site were performed in accordance with the reporting requirements issued by the Alameda County Environmental Health (ACEH). Details of work performed, discussion of results, and recommendations are provided below.

Facility Name / Address:	Station No. 11104 / 1716 Webster Street, Alameda, California		
Client Project Manager / Title:	Mr. Chuck Carmel, Remediation Management Project Manager		
Broadbent Contact:	Kristene Tidwell, P.G., C.Hg., (707) 455-7290		
Broadbent Project No.:	06-88-644		
Primary Regulatory Agency / ID No.:	ACEH / Case #RO0000281		
Current phase of project:	Closure Review		
List of Acronyms / Abbreviations:	See end of report text for list of acronyms/abbreviations used in		
	report.		

## WORK PERFORMED THIS QUARTER (Fourth Quarter 2013):

- 1. Submitted Third Quarter 2013 Monitoring Report on October 29, 2013 (Q3 GWM Report).
- 2. Submitted a letter entitled Additional Site Sampling Activities dated November 29, 2013.
- 3. Measure LNAPL in Site well RW-1, as described in the above-referenced letter.

### WORK SCHEDULED FOR NEXT QUARTER (First Quarter 2014):

- 1. Submit Fourth Quarter 2013 Status Report (contained herein).
- 2. No other work is scheduled to occur at the Site.

### **GROUNDWATER MONITORING PLAN SUMMARY:**

Groundwater level gauging:	Suspended pending Site Closure Review	(1Q & 3Q)	
Groundwater sample collection:	Suspended pending Site Closure	(1Q)	
	Review	(3Q)	
Biodegradation indicator parameter			
monitoring:	None	_	
QUARTERLY RESULTS SUMMARY:			
LNAPL			
LNAPL observed this quarter:	N/A	(yes\no)	
LNAPL recovered this quarter:	N/A	(gal)	
Cumulative LNAPL recovered:	N/A	(gal)	
Groundwater Elevation and Gradier	t:		
Depth to groundwater:	N/A	(ft below TOC)	
Gradient direction:	N/A	(compass direction)	
Gradient magnitude:	N/A	(ft/ft)	
Average change in elevation:	N/A	(ft since last measurement)	
Laboratory Analytical Data			
Summary:	No routine groundwater monitoring activities were conducted for		
	Fourth Quarter 2013.		

#### DISCUSSION:

The most recent groundwater monitoring and sampling event occurred during the Third Quarter of 2013, the results of which are contained within the Q3 GWM Report. No environmental field activities were conducted by Broadbent & Associates at the Site during the Fourth Quarter of 2013, with the exception of the October 31, 2013 field visit where LNAPL was measured in well RW-1. These activities were documented in Broadbent's *Additional Sampling Activities* letter submitted to the ACEH on November 29, 2013.

Currently, this case is being reviewed by the ACEH for Closure. Groundwater monitoring and sampling has therefore been suspended pending the Closure review. The schedule for future environmental activities will be dependent on the results of the ACEH's Closure evaluation and determination.

### LIMITATIONS:

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by TestAmerica Laboratories, Inc. (Irvine, California), and our understanding of ACEH requirements. 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 the Atlantic Richfield Company. It is possible that variations in soil or groundwater 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: Site Location Map, Station #11104, 1716 Webster Street, Alameda, California
- Drawing 2: Groundwater Elevation Contours and Analytical Summary Map, August 8, 2013, Station #11104, 1716 Webster Street, Alameda, California

#### LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

ACEH:	Alameda County Environmental Health	ft/ft:	feet per foot
Broadbent:	Broadbent & Associates, Inc.	gal:	Gallons
BTEX:	Benzene, Toluene, Ethylbenzene, Total Xylenes	GRO:	Gasoline-Range Organics
1,2-DCA:	1,2-Dichloroethane	LNAPL:	Light Non-Aqueous Phase Liquid
DIPE:	Di-Isopropyl Ether	MTBE:	Methyl Tertiary Butyl Ether
DO:	Dissolved Oxygen	NO <sub>3</sub> :	Nitrate as Nitrogen
DRO:	Diesel-Range Organics	ppb:	parts per billion
EDB:	1,2-Dibromomethane	SO <sub>4</sub> :	Sulfate
Eh:	Oxidation Reduction Potential	TAME:	Tert-Amyl Methyl Ether
EPA:	Environmental Protection Agency	TBA:	Tertiary Butyl Ether
ETBE:	Ethyl Tertiary Butyl Ether	TOC:	Top of Casing
Fe <sup>2+</sup> :	Ferrous Iron	μg/L:	micrograms per liter

DRAWINGS



