

# Atlantic Richfield Company

**Chuck Carmel**

Remediation Management Project Manager

**RECEIVED**

By Alameda County Environmental Health at 9:15 am, Aug 01, 2014

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

July 30, 2014

Re: Second Quarter 2014 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,



Chuck Carmel

Remediation Management Project Manager

Attachment



4820 Business Center Drive, Suite 110  
Fairfield, CA 94534  
[T] 707 455-7290 [F] 707 863-9046  
broadbentinc.com

***Creating Solutions. Building Trust.***

July 30, 2014

Project No. 06-88-644

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


Attn.: Mr. Chuck Carmel

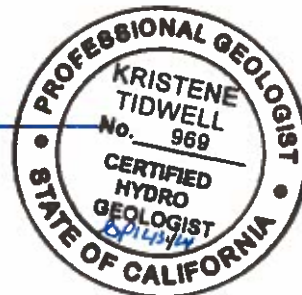
Re: Second Quarter 2014 Status Report, Former ARCO Service Station No. 11104, 1716  
Webster Street, Alameda, Alameda County, California; ACEH Case #RO0000281

Dear Mr. Carmel:

Attached is the *Second Quarter 2014 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 Second Quarter of 2014. Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (707) 455-7290.

Sincerely,  
BROADBENT & ASSOCIATES, INC.

  
Kristene Tidwell, P.G., C.HG.  
Senior Hydrogeologist



Enclosures

cc: Mr. Mark Detterman, Alameda County Environmental Health (submitted via ACEH ftp site)  
Mr. DeLong Liu, United Petroleum  
Electronic copy uploaded to GeoTracker

**SECOND QUARTER 2014  
STATUS REPORT  
FORMER ARCO STATION No. 11104, ALAMEDA, CALIFORNIA**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Second Quarter 2014 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 (Second Quarter 2014):**

1. Submitted *First Quarter 2014 Status Report* on April 30, 2014.

**WORK SCHEDULED FOR NEXT QUARTER (Third Quarter 2014):**

1. Submit *Second Quarter 2014 Status Report* (contained herein).
2. Conduct Closure related activities per agency directive.

**GROUNDWATER MONITORING PLAN SUMMARY:**

Groundwater level gauging:	Suspended pending Site Closure Review	(1Q & 3Q)
Groundwater sample collection:	Suspended pending Site Closure Review	(1Q) (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 Gradient:**

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 Second Quarter 2014.
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## DISCUSSION:

The most recent groundwater monitoring and sampling event occurred during the third quarter of 2013, the results of which are contained within the *Third Quarter 2014 Groundwater Monitoring Report*. No environmental field activities were conducted by Broadbent & Associates at the Site during the second quarter of 2014.

Currently, this case is in the Closure process from the ACEH. Groundwater monitoring and sampling has therefore been suspended pending the Closure review. Final Closure related activities will be conducted during the third and fourth quarters.

## 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 ACRONYMS/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**

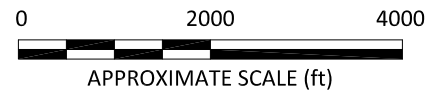
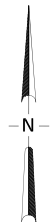
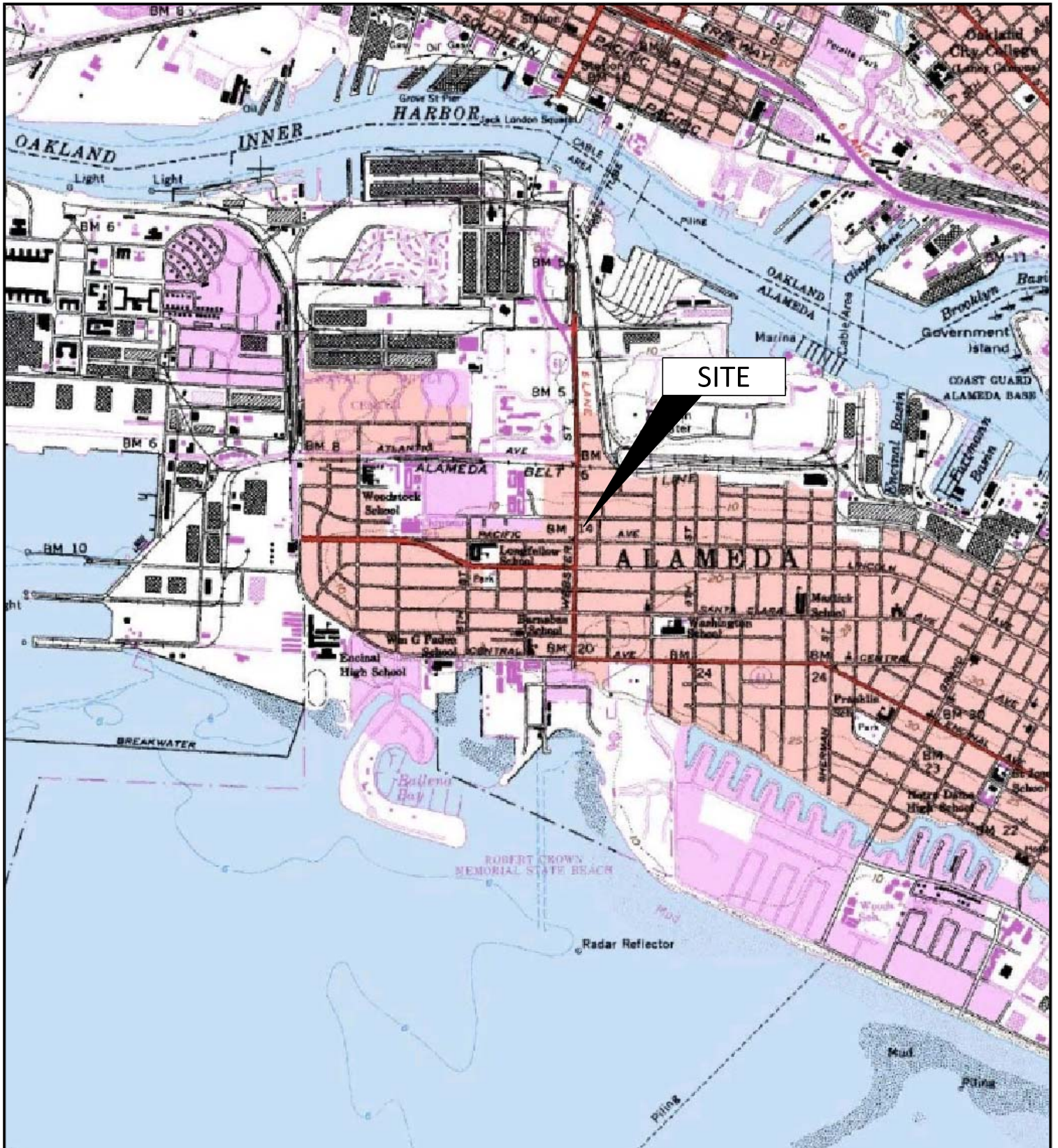


IMAGE SOURCE: USGS



Project No.: 06-88-644 Date: 3/22/2013

Station #11104  
1716 Webster Street  
Alameda, California

Site Location Map

Drawing

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