

# Atlantic Richfield Company

**Shannon Couch**  
Operations Project Manager

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

July 27, 2012

Re: Second Quarter 2012 Status Report  
Atlantic Richfield Company Station #2112  
1260 Park Street, Alameda, California  
ACEH Case #RO0000044

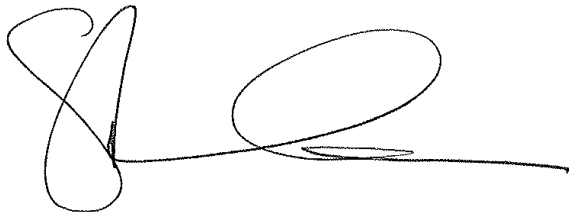
**RECEIVED**

**8:24 am, Aug 01, 2012**

Alameda County  
Environmental Health

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,



Shannon Couch  
Operations Project Manager

Attachment



**BROADBENT**

1324 Mangrove Ave., Suite 212, Chico, CA 95926

[T] 530-566-1400 [F] 530-566-1401

broadbentinc.com

*Creating Solutions. Building Trust.*

July 27, 2012

Project No. 06-88-616

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

Attn.: Ms. Shannon Couch

Re: Second Quarter 2012 Status Report, Atlantic Richfield Company Station #2112,  
1260 Park Street, Alameda, California; ACEH Case #RO0000044

Dear Ms. Couch:

Attached is the Second Quarter 2012 Status Report for Atlantic Richfield Company Station #2112 located at 1001 San Pablo Avenue, Albany, California. This report presents a summary of current developments at the Site through the Second Quarter of 2012.

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

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.  
Senior Engineer



Enclosures

cc: Ms. Dilan Roe, P.E., Alameda County Environmental Health (submitted via ACEH ftp site)  
Messrs. Martin Vallejo & Joel Guitierrez, M & S Mini Mart, Inc., 1260 Park Street,  
Alameda, CA 94501  
Electronic copy uploaded to GeoTracker

**SECOND QUARTER 2012  
STATUS REPORT  
ARCO STATION #2112, ALAMEDA, CALIFORNIA**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Second Quarter 2012 Status Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for ARCO Station #2112 located in Alameda, Alameda County, California. Quarterly reporting is being submitted to the Alameda County Environmental Health Services Agency (ACEH) consistent with their requirements under the legal authority of the California Regional Water Quality Control Board as codified by California Code of Regulations Title 23, Section 2652(d). A summary description of current developments regarding the Site is provided below.

Facility Name / Address:	<u>ARCO Station #2112 / 1260 Park Street, Alameda</u>
Client Project Manager / Title:	<u>Ms. Shannon Couch / RM Operations Project Manager</u>
Broadbent Contact:	<u>Mr. Tom Venus, PE / (530) 566-1400</u>
Broadbent Project No.:	<u>06-88-616</u>
Primary Regulatory Agency / ID No.:	<u>ACEH, Case #RO0000044</u>
Current phase of project:	<u>Vapor Intrusion Investigation to obtain Site Closure Approval</u>
List of Acronyms / Abbreviations:	<u>See end of report text for list of acronyms/abbreviations used in report.</u>

**WORK PERFORMED THIS QUARTER (Second Quarter 2012):**

1. Submitted *First Quarter 2012 Monitoring Report* (Broadbent, 4/5/2012).
2. Submitted *Addendum to Vapor Intrusion Assessment Work Plan* (Broadbent, 5/31/2012).
3. Installed soil-gas monitoring implants behind station building (Broadbent and WDC Exploration & Wells, 6/15/2012).
4. Sampled soil-gas monitoring implants to investigate potential for vapor intrusion (Broadbent, 6/28-29/2012).

**WORK SCHEDULED FOR NEXT QUARTER (Third Quarter 2012):**

1. Submit *Second Quarter 2012 Status Report* (contained herein).
2. Prepare and submit Vapor Intrusion Assessment Report describing soil-gas monitoring implant installation and sampling activities conducted during the Second Quarter of 2012.

**DISCUSSION:**

On May 31, 2012 Broadbent submitted to ACEH an *Addendum to Vapor Intrusion Assessment Work Plan* for the site. Modified procedures were proposed on the former work plan (Broadbent, 4/15/2010) following the receipt of comments by Atlantic Richfield Company's Remediation & Engineering Technology group leader in vapor intrusion regarding changes in industry practice and quality assurance. Soil-gas monitoring implants were installed by Broadbent subcontractor WDC Exploration & Wells on June 15, 2012 and inspected by ACPWA. The soil-gas monitoring implants were sampled on June 28 and June 29, 2012 by Broadbent staff. Samples collected into Summa canisters were submitted under Chain-of-Custody documentation to Calscience Environmental Laboratories on June 29, 2012. Broadbent will prepare and submit to the ACEH a Vapor Intrusion Assessment Report presenting the results of the investigation during the Third Quarter of 2012. For reference, a Site Location Map is provided as Drawing 1. A Site Plan with Soil-Gas Monitoring Implant Locations is provided as Drawing 2.

**ATTACHMENTS:**

- Drawing 1: Site Location Map  
Drawing 2: Site Plan with Soil-Gas Monitoring Implant Locations

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

ACEH:	Alameda County Environmental Health	ft/ft:	feet per foot
ACPWA:	Alameda County Public Works Agency	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

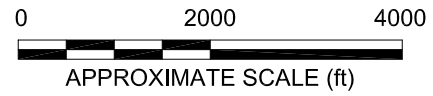
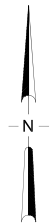
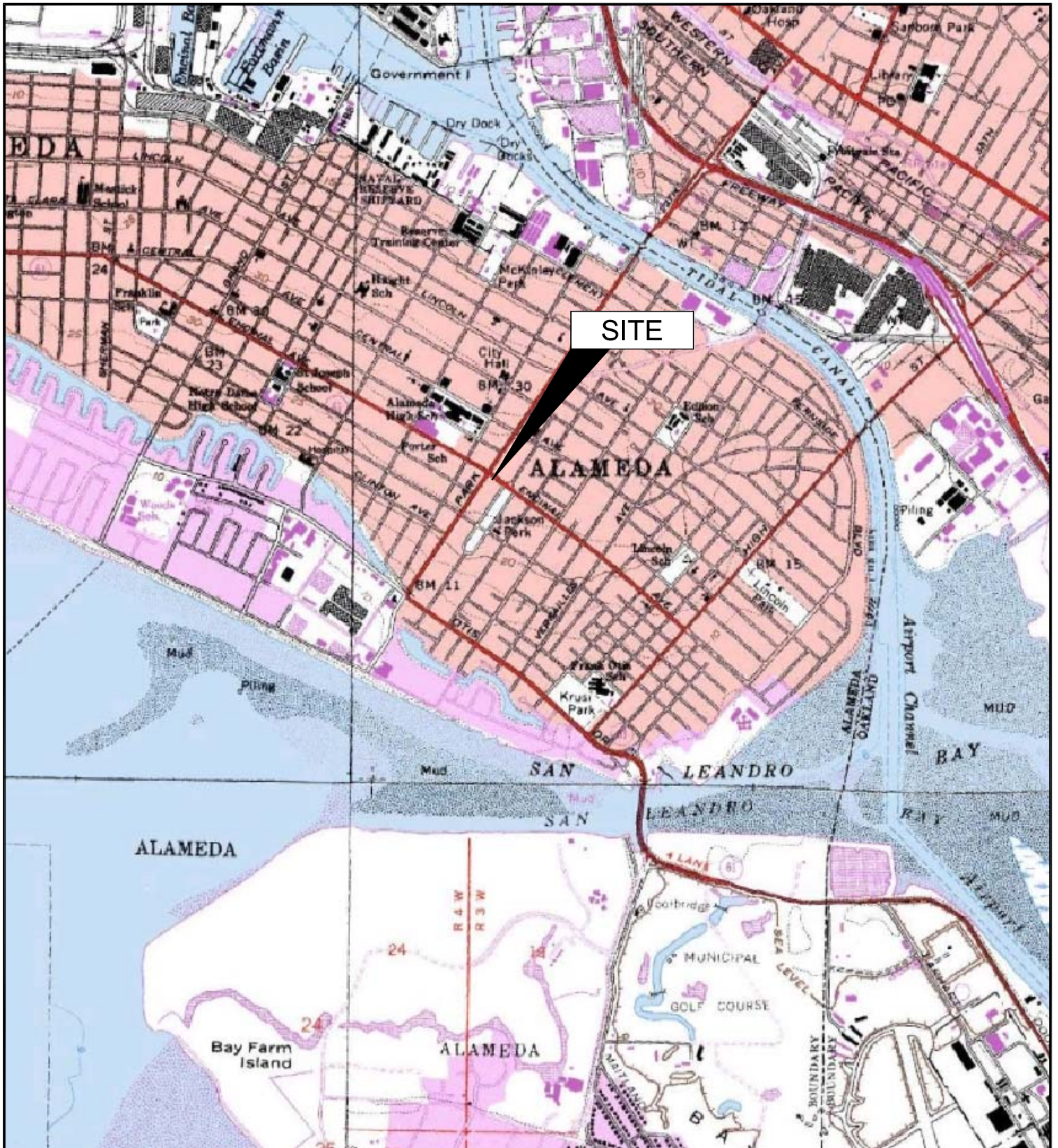
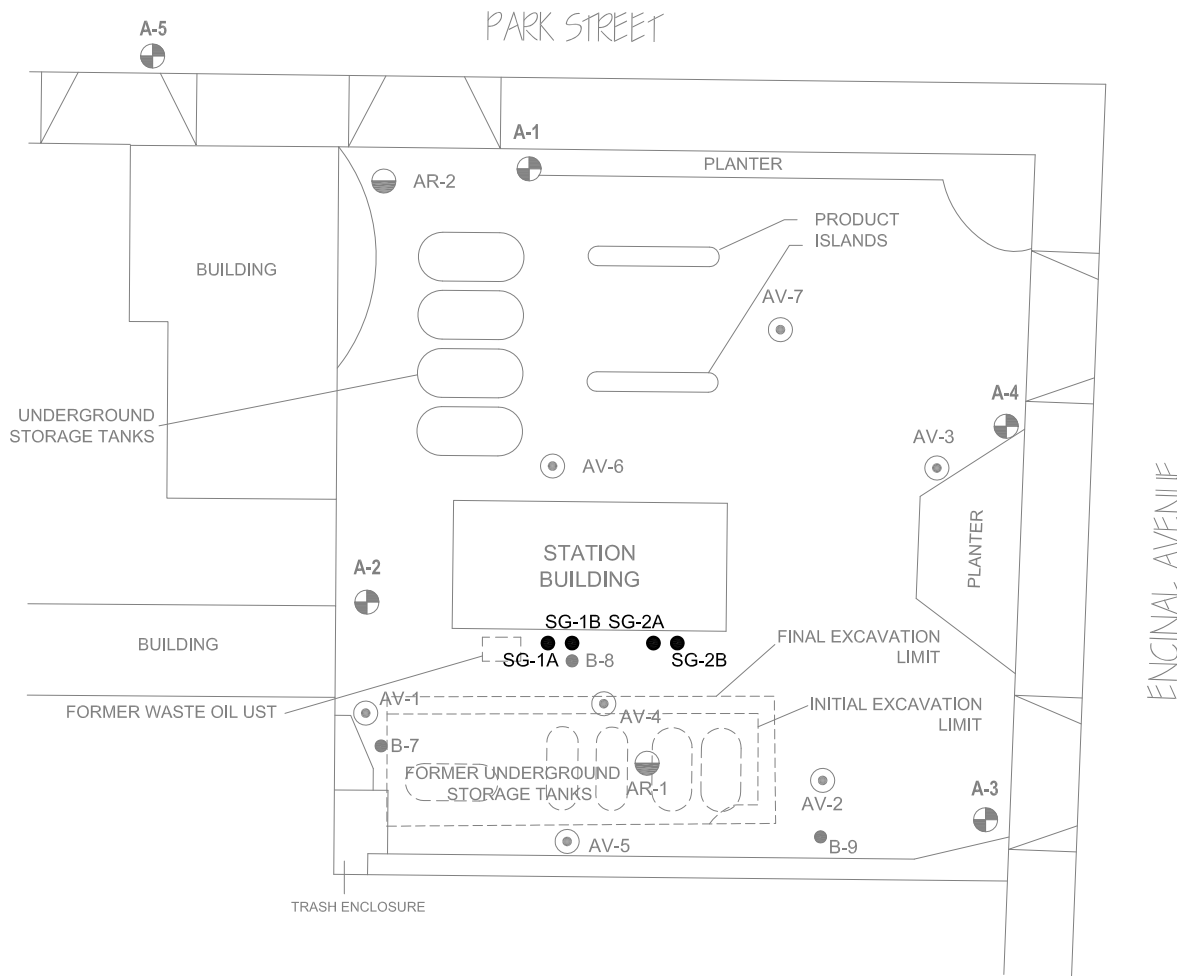
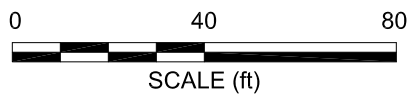


IMAGE SOURCE: USGS



**LEGEND:**

- SG-2B SOIL-GAS MONITORING IMPLANT
- ⊕ A-1 MONITORING WELL LOCATION
- ⊖ AR-1 GROUND-WATER EXTRACTION WELL LOCATION
- ⊙ AV-1 VAPOR EXTRACTION WELL LOCATION
- B-9 RECENT BORING LOCATION
- EXCAVATED AREA



**BROADBENT & ASSOCIATES, INC.**  
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
 1324 Mangrove Ave. Suite 212, Chico, California 95926  
 Project No.: 06-88-616 Date: 7/20/2012

Station #2112  
 1260 Park Street  
 Alameda, California

Site Map with Soil-Gas  
 Monitoring Implant Locations

Drawing

2