Atlantic Richfield Company

Shannon Couch
Operations Project Manager

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RECEIVED

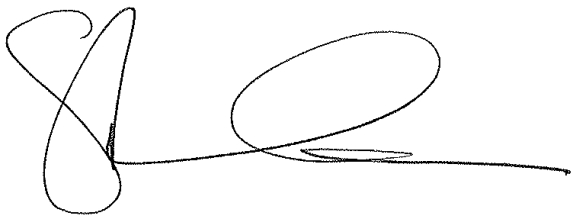
10:59 am, Oct 06, 2011
Alameda County
Environmental Health

October 5, 2011

Re: Third Quarter 2011 Status Report
Atlantic Richfield Company Station #2112
1260 Park Street, Alameda, California
ACEH Case #RO0000044

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 & Associates, Inc.
1324 Mangrove Ave., Suite 212
Chico, CA 95926
Voice (530) 566-1400
Fax (530) 566-1401

Creating Valuable Solutions, Building Trust

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

October 5, 2011

Project No. 06-88-616

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

Attn.: Ms. Shannon Couch

Re: Third Quarter 2011 Status Report, Atlantic Richfield Company Station #2112, 1260 Park Street, Alameda, California; ACEH Case #RO0000044

Dear Ms. Couch:

Attached is the Third Quarter 2011 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 Third Quarter of 2011. As a reminder, this case warrants closure certification by the ACEH. On behalf of Atlantic Richfield Company, BAI will pursue acknowledgement and issuance of a Remedial Action Completion Certificate from the ACEH.

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: Mr. Paresh Khatri, Alameda County Environmental Health (submitted via ACEH ftp site)
Electronic copy uploaded to GeoTracker

THIRD QUARTER 2011
STATUS REPORT
ARCO STATION #2112, ALAMEDA, CALIFORNIA

Broadbent & Associates, Inc. (BAI) is pleased to present this *Third Quarter 2011 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:	ARCO Station #2112 / 1260 Park Street, Alameda
Client Project Manager / Title:	Ms. Shannon Couch / RM Operations Project Manager
BAI Contact:	Mr. Tom Venus, PE / (530) 566-1400
BAI Project No.:	06-88-616
Primary Regulatory Agency / ID No.:	ACEH, Case #RO0000044
Current phase of project:	Awaiting Closure Approval
List of Acronyms / Abbreviations:	See end of report text for list of acronyms/abbreviations used in report.

WORK PERFORMED THIS QUARTER (Third Quarter 2011):

1. Submitted *Second Quarter 2011 Monitoring Report* (BAI, 7/5/2011).
2. No environmental field work was conducted at Station #2112 during the Fourth Quarter 2011.

WORK SCHEDULED FOR NEXT QUARTER (Fourth Quarter 2011):

1. Submit *Third Quarter 2011 Status Report* (contained herein).
2. No environmental field work is presently scheduled at Station #2112 during the Fourth Quarter 2011.
3. Await case closure notice from ACEH with approval to abandon wells.

DISCUSSION:

In their letter dated September 3, 2009, the ACEH stated that soil sample analytical results indicated that the Site might still pose a risk to human health, specifically potential contaminant volatilization to indoor air. This position was based on interpretation of results within the *On-Site Soil Investigation Report* (BAI, 8/10/2009) in which GRO and Benzene were detected at concentrations of 2,000 milligrams per kilogram (mg/kg) and 0.23 mg/kg, respectively from a depth of 11 ft in boring B-8, on the southwest side of the station building. Like the majority of soil samples collected from borings on the southeast side of the station building that did not detect or detected low concentrations of hydrocarbons, soil samples collected in boring B-8 at 5 ft and 8 ft detected no GRO or Benzene above the laboratory reporting limits. Based on the September 3, 2009 ACEH request, BAI had originally proposed to install and sample new soil gas monitoring implants at the Site for the purposes of conducting a vapor intrusion assessment.

Guidance available now however, suggests that there is no need to assess the vapor intrusion pathway with low concentrations of dissolved petroleum hydrocarbons in groundwater (i.e. Benzene less than 1 mg/L and GRO less than 10 mg/L) and greater than five feet separation between a contaminant source and building. According to California State Water Resources Control Board draft guidance, there have been no published examples of petroleum vapor intrusion for this site condition and that modeling studies indicate bioattenuation will limit the potential for vapor intrusion. During the last several rounds of monitoring at Station #2112, groundwater samples from wells across the Site have tested negative for petroleum hydrocarbon contaminants. Therefore a *Case Evaluation and Request for No Further Action* report (BAI, 5/31/2011) was prepared and submitted to the ACEH. BP and BAI currently await a response from the ACEH to that submittal. This case warrants closure certification and acknowledgement from the ACEH would be appreciated. For reference, a Site Location Map is provided as Drawing 1.

ATTACHMENTS:

Drawing 1: Site Location Map

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

ACEH:	Alameda County Environmental Health	ft/ft:	feet per foot
BAI:	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_3:	Nitrate as Nitrogen
DRO:	Diesel-Range Organics	ppb:	parts per billion
EDB:	1,2-Dibromomethane	SO_4:	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^{2+}:	Ferrous Iron	µg/L:	micrograms per liter

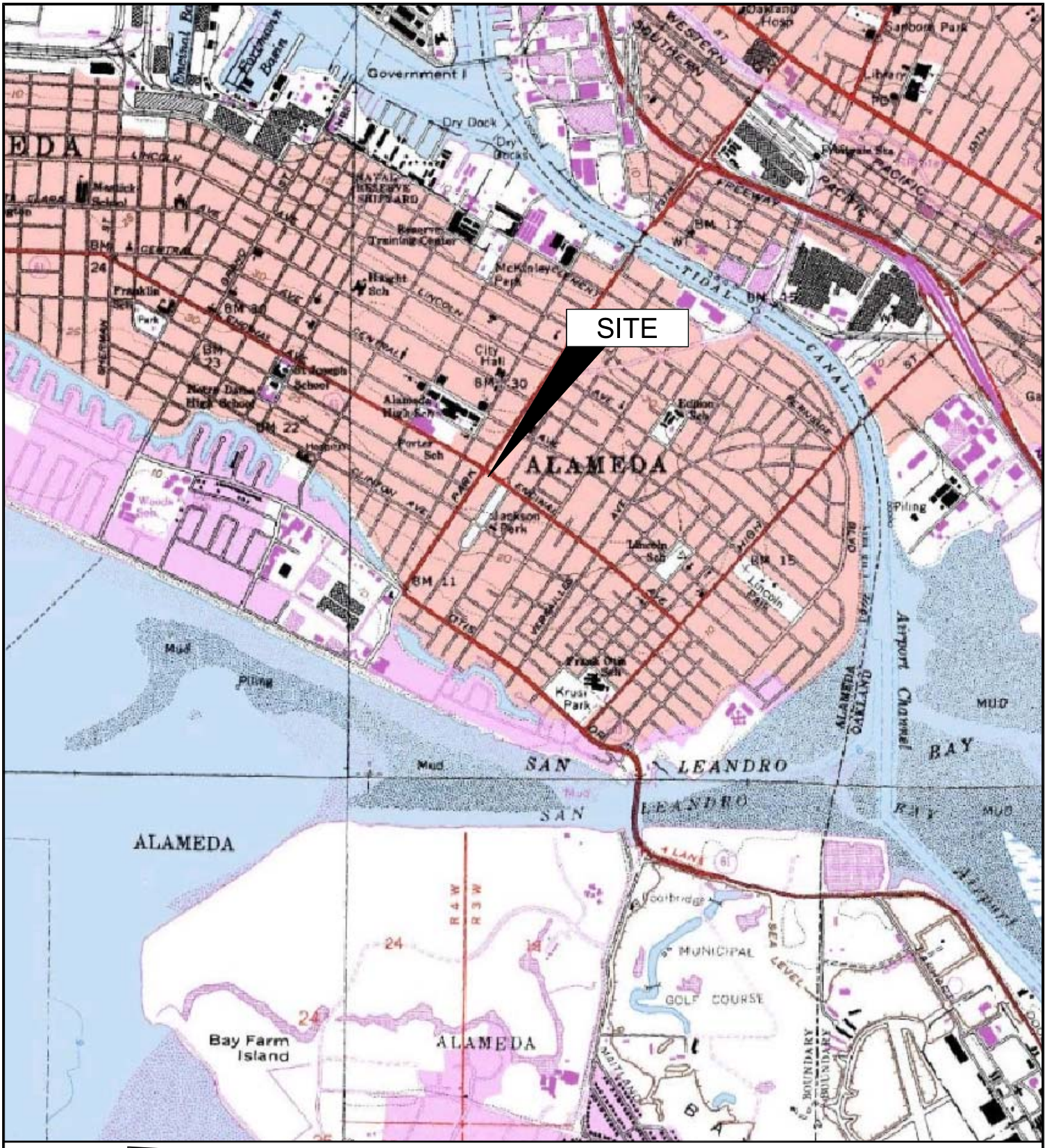


IMAGE SOURCE: USGS

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, CA 95926
Project No.: 06-88-616 Date: 07/27/09

Station #2112
1260 Park Street
Alameda, California

Site Location Map

Drawing
1