

Atlantic Richfield Company

Shannon Couch
Operations Project Manager

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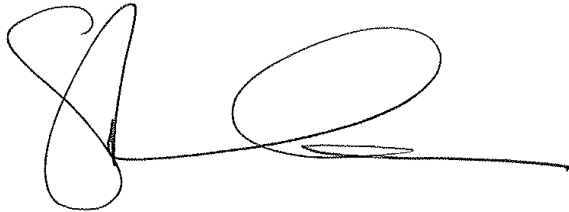
Alameda County
Environmental Health

January 5, 2012

Re: Fourth 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

January 5, 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: Fourth Quarter 2011 Status Report, Atlantic Richfield Company Station #2112,
1260 Park Street, Alameda, California; ACEH Case #RO0000044

Dear Ms. Couch:

Attached is the Fourth 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 Fourth Quarter of 2011.

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)
Messrs. Martin Vallejo & Joel Guterrez, M & S Mini Mart, Inc., 1260 Park Street,
Alameda, CA 94501
Electronic copy uploaded to GeoTracker

**FOURTH QUARTER 2011
STATUS REPORT
ARCO STATION #2112, ALAMEDA, CALIFORNIA**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Fourth 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:	<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 (Fourth Quarter 2011):

1. Submitted *Third Quarter 2011 Monitoring Report* (Broadbent, 10/5/2011).
2. No environmental field work was conducted at Station #2112 during the Fourth Quarter 2011.

WORK SCHEDULED FOR NEXT QUARTER (First Quarter 2012):

1. Submit *Third Quarter 2011 Status Report* (contained herein).
2. Conduct conference call between ACEH, BP, and Broadbent.
3. Install and sample soil-gas implants behind station building to investigate soil vapor intrusion.

DISCUSSION:

Due to a lack of petroleum hydrocarbon contaminants in groundwater samples at Station #2112 during the last several rounds of monitoring, Broadbent prepared and submitted a *Case Evaluation and Request for No Further Action* (BAI, 5/31/2011). Although it was found that low concentrations of dissolved petroleum hydrocarbons exist in groundwater (i.e. Benzene less than 1 mg/L and GRO less than 10 mg/L) and there is greater than five feet of separation between a contaminant source and building, the ACEH stated in a letter dated October 27, 2011, proposed adoptions to existing leaking UST regulations could not be implemented prior to finalization. The ACEH requested implementing the previously-approved *Revised Vapor Intrusion Assessment Work Plan* (Broadbent, 4/15/2010). Pre-planning has been initiated, a contractor has been competitively selected, the Work Risk Assessment safety meeting has occurred, the borings have been marked for USA and cleared of underground utility conflicts, and the drilling permit secured from the Alameda County Public Works Agency (ACPWA). BP and Broadbent are currently awaiting an opportunity for a conference call meeting with ACEH concerning the case prior to implementing field work. Upon conclusion of this meeting and if deemed necessary, Broadbent is prepared to implement the work plan submitted April 15, 2010, detailing the installation and sampling of soil gas on the southeastern side of the station building in order to assess the potential of soil vapor intrusion into the station building from the low levels of residual petroleum hydrocarbon contamination remaining near the former leaking USTs excavation. 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
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 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

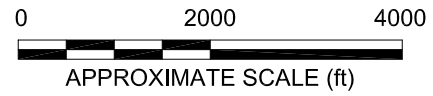
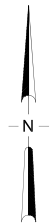
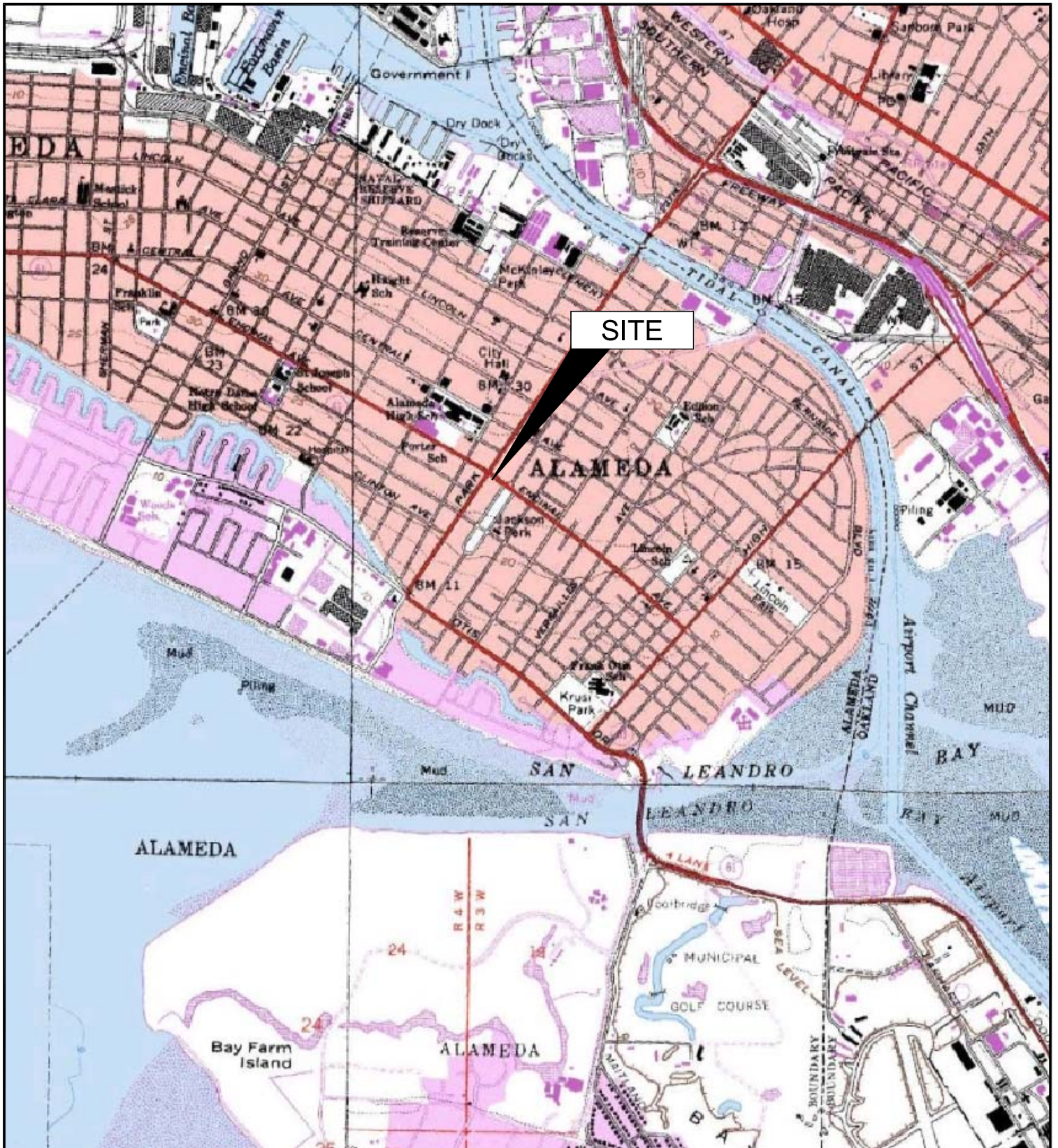


IMAGE SOURCE: USGS