## **Atlantic Richfield Company**

**Shannon Couch** 

Project Manager

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

April 30, 2013

### **RECEIVED**

By Alameda County Environmental Health at 10:44 am, May 01, 2013

Re: First Quarter 2013 Status Report

Atlantic Richfield Company Station #6113

785 East Stanley Boulevard, Livermore, California

ACEH Case #RO0000393

"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 Project Manager

Attachment





# FIRST QUARTER 2013 STATUS REPORT Atlantic Richfield Company Station #6113 785 East Stanley Blvd. Livermore, Alameda County, California

#### **Prepared for:**

Ms. Shannon Couch Atlantic Richfield Company P.O. Box 1257 San Ramon, CA 94583

#### **Prepared by:**

Broadbent & Associates, Inc. 1370 Ridgewood Drive, Suite 5 Chico, California 95973 (530) 566-1400

April 30, 2013

No. 06-82-637



broadbentinc.com

April 30, 2013

Project No. 06-82-637

MATTHEW G.

HERRICK

No. 8010

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

Attn.: Ms. Shannon Couch

Re:

First Quarter 2013 Status Report, Atlantic Richfield Company Station #6113

785 East Stanley Blvd, Livermore, California; ACEH Case #RO0000393

Dear Ms. Couch:

Provided herein is the *First Quarter 2013 Status Report* for Atlantic Richfield Company (a BP affiliated company) Station #6113 located at 785 East Stanley Blvd., Livermore, Alameda County, California (Site). This report presents a summary of current developments regarding the Site through the First Quarter 2013.

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

Sincerely,

**BROADBENT & ASSOCIATES, INC.** 

Jason Duda Project Scientist

Matthew G. Herrick, P.G., C.HG.

Senior Hydrogeologist

**Enclosures** 

cc: Mr. Jerry Wickham, ACEH (Submitted via ACEH ftp Site)

Mr. Paul M. Smith/Ms. Danielle Stefani, Livermore-Pleasanton Fire Department

(submitted via GeoTracker)

Electronic copy uploaded to GeoTracker

# FIRST QUARTER 2013 STATUS REPORT STATION #6113, LIVERMORE, CA

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *First Quarter 2013 Status Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for Station #6113 located in Livermore, 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:

Client Project Manager / Title:

Broadbent Contact:

Broadbent Project No.:

Primary Regulatory Agency / ID No.:

Current phase of project:

List of Acronyms / Abbreviations:

Station #6113 / 785 East Stanley Boulevard, Livermore, CA

Ms. Shannon Couch / Project Manager

Jason Duda, (530) 566-1400

06-82-637

ACEH, Case #RO0000393

Monitoring / Remedial Well Installation / Remedial Pilot Testing

See end of report text for list of acronyms/abbreviations used in report.

#### **WORK PERFORMED THIS QUARTER (First Quarter 2013):**

- 1. Prepared and submitted the *Fourth Quarter 2012 Semi-Annual Groundwater Monitoring Report* (Broadbent, 1/11/2013).
- 2. Conducted underground utility surveying on February 11, 2013.
- 3. Attempted installation of remedial well on February 25 and March 29, 2013.

#### **WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2013):**

- 1. Conducted semi-annual groundwater monitoring/sampling for Second Quarter 2013 including collection of samples for geochemical analyses on April 9 and 10, 2013.
- 2. Conducted additional underground utility survey for potential remedial well location on April 26, 2013.
- 3. Prepared and submitted this First Quarter 2013 Status Report (contained herein).
- 4. Attempt to install on-Site remedial well and potentially conduct on-Site dual phase extraction (DPE) pilot test.

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

Groundwater level gauging:	MW-2, MW-4, MW-7, MW-9, MW-	(2Q & 4Q)
	11, MW-12, RMW-13, VW-1, VW-2,	
	and VW-4	_
Groundwater sample collection:	MW-2, MW-4, MW-7, MW-9, MW-	(2Q & 4Q)
	11, MW-12, RMW-13, VW-1, VW-2,	
	and VW-4	_
Biodegradation indicator parameter		
monitoring:	NA	

#### **DISCUSSION:**

For reference, a Site Location Map is provided as Drawing 1. Provided as Drawing 2 is the Groundwater Elevation Contour and Analytical Summary Map from the *Fourth Quarter 2012 Semi-Annual Groundwater Monitoring Report* (Broadbent, 1/11/2013) for groundwater monitoring/sampling conducted on December 14, 2012. The next semi-annual groundwater monitoring and sampling event is scheduled to be conducted during the Second Quarter 2013.

The Addendum Work Plan for Installation of Remedial Well, Collection of Geochemical Samples, and Completion of a Mobile Dual-Phase Extraction Event dated September 12, 2012 was approved by ACEH in a letter dated October 22, 2012. As previously discussed, several attempts were made to install the additional remedial well on-Site during First Quarter 2013. However, due to the presence of a minimum of eight feet of pea gravel at the chosen location, well installation activities were terminated. Based on the results of an additional underground utility survey conducted on April 26, 2013 beneath the fuel dispenser canopy, remedial well installation activities will be attempted in between the fuel islands and further from the existing UST basin. It is anticipated that DPE pilot testing activities will commence following one more attempt to install the remedial well. Due to the complications with remedial well installation, an extension of the current deadline of May 31, 2013 for report submittal will likely be needed.

#### **ATTACHMENTS:**

Drawing 1 Site Location Map, Station #6113, 785 East Stanley Boulevard, Livermore, California

Drawing 2. Groundwater Elevation Contour and Analytical Summary Map, December 14, 2012, Station #6113, 785 East Stanley Boulevard, Livermore, California

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

ACEH:	Alameda County Environmental Health	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  $\mu$ g/L: micrograms per liter ft/ft: feet per foot



