

Atlantic Richfield Company

Shannon Couch
Project Manager

RECEIVED

3:57 pm, Oct 28, 2011

Alameda County
Environmental Health

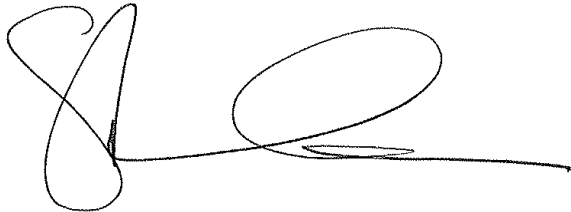
PO Box 1257
San Ramon, CA 94583
Phone: (925) 275-3804
Fax: (925) 275-3815
E-Mail: shannon.couch@bp.com

October 17, 2011

Re: Third Quarter 2011 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

THIRD QUARTER 2011 STATUS REPORT

Atlantic Richfield Company Station #6113
785 East Stanley Blvd., Livermore, California
ACEH Case # RO0000393

Prepared for

Ms. Shannon Couch
Project Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by



1324 Mangrove Avenue, Suite 212
Chico, California 95926
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October 17, 2011

Project No. 06-82-637

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Creating Valuable Solutions, Building Trust



October 17, 2011

Project No. 06-82-637

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

Attn.: Ms. Shannon Couch

Re: Third Quarter 2011 Status Report, Atlantic Richfield Company Station #6113
785 East Stanley Blvd, Livermore, California; ACEH Case #RO0000393

Dear Ms. Couch:

Provided herein is the *Third Quarter 2011 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 Third Quarter 2011.

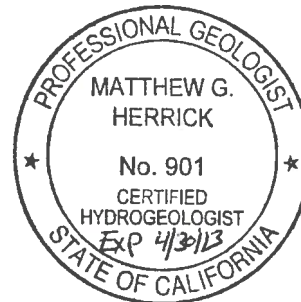
Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Jason Duda
Project Scientist

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



Enclosures

cc: Mr. Paresh Khatri, 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

**THIRD QUARTER 2011
STATUS REPORT
STATION #6113, LIVERMORE, CA**

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 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:	<u>Station #6113 / 785 East Stanley Boulevard, Livermore, CA</u>
Client Project Manager / Title:	<u>Ms. Shannon Couch / Project Manager</u>
BAI Contact:	<u>Jason Duda, (530) 566-1400</u>
BAI Project No.:	<u>06-82-637</u>
Primary Regulatory Agency / ID No.:	<u>ACEH, Case #RO0000393</u>
Current phase of project:	<u>Monitoring</u>
List of Acronyms / Abbreviations:	<u>See end of report text for list of acronyms/abbreviations used in report.</u>

WORK PERFORMED THIS QUARTER (Third Quarter 2011):

1. Prepared and submitted the *Second Quarter 2011 Semi-Annual Groundwater Monitoring Report* (BAI, 7/29/2011).
2. No environmental work was conducted at the Site during Third Quarter 2011.

WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter 2011):

1. Prepared and submitted this *Third Quarter 2011 Status Report* (contained herein).
2. Conduct semi-annual groundwater monitoring/sampling for Fourth Quarter 2011.

GROUNDWATER MONITORING PLAN SUMMARY:

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

DISCUSSION:

No environmental field activities took place at the Site during Third Quarter 2011. 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 *Second Quarter 2011 Semi-Annual Groundwater Monitoring Report* (BAI, 7/29/2011) for groundwater monitoring/sampling conducted on May 18, 2011. The next semi-annual groundwater monitoring and sampling event is scheduled to be conducted during the Fourth Quarter 2011.

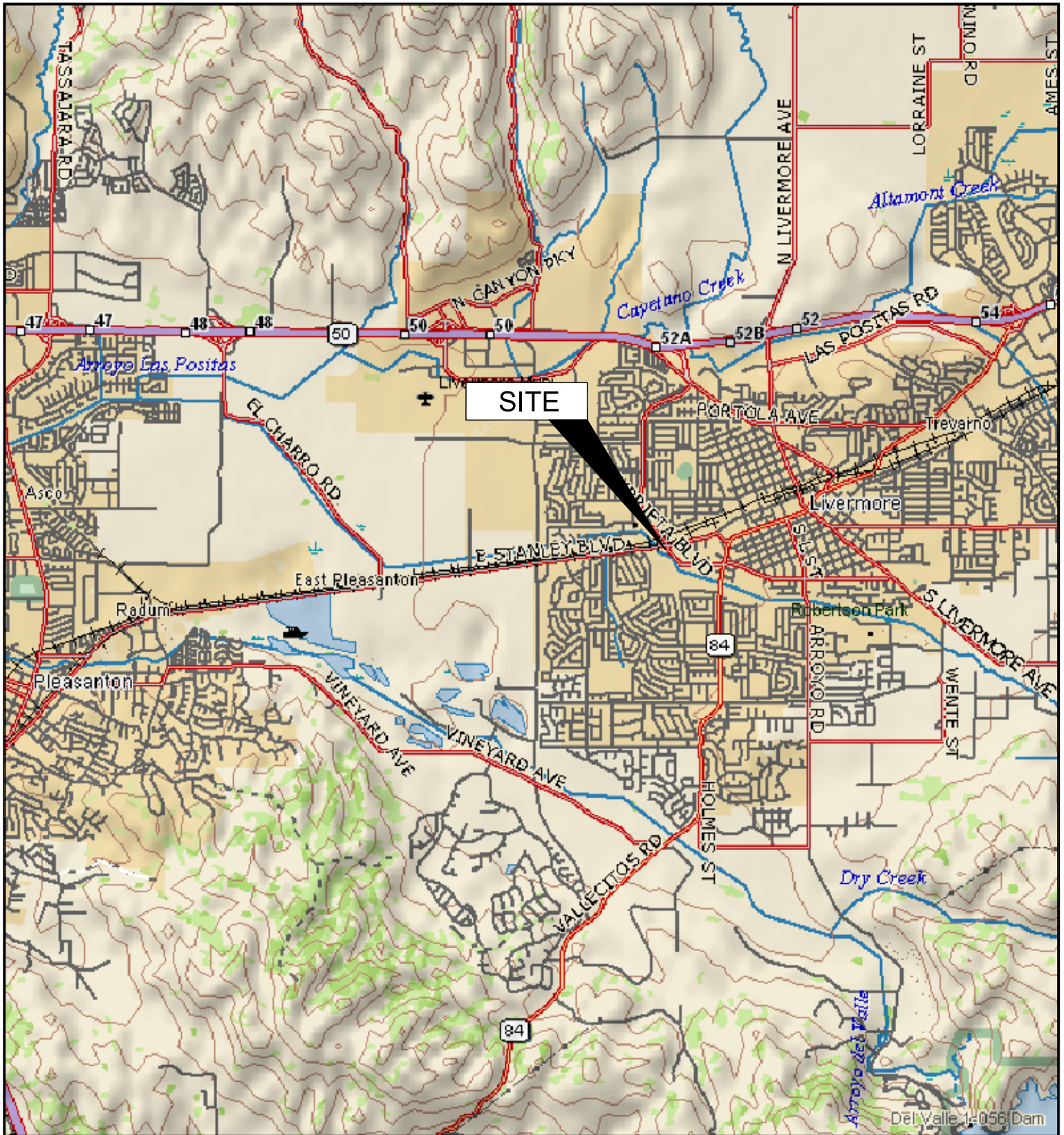
The *Work Plan to Conduct a Mobile Dual-Phase Extraction Event* was submitted to ACEH on March 7, 2011. Upon receipt of approval from ACEH regarding this Work Plan, preparation and conduct of a mobile dual-phase extraction event will commence.

ATTACHMENTS:

- Drawing 1 Site Location Map, Station #6113, 785 East Stanley Boulevard, Livermore, California
- Drawing 2. Groundwater Elevation Contour and Analytical Summary Map, May 18, 2011,
Station #6113, 785 East Stanley Boulevard, Livermore, California

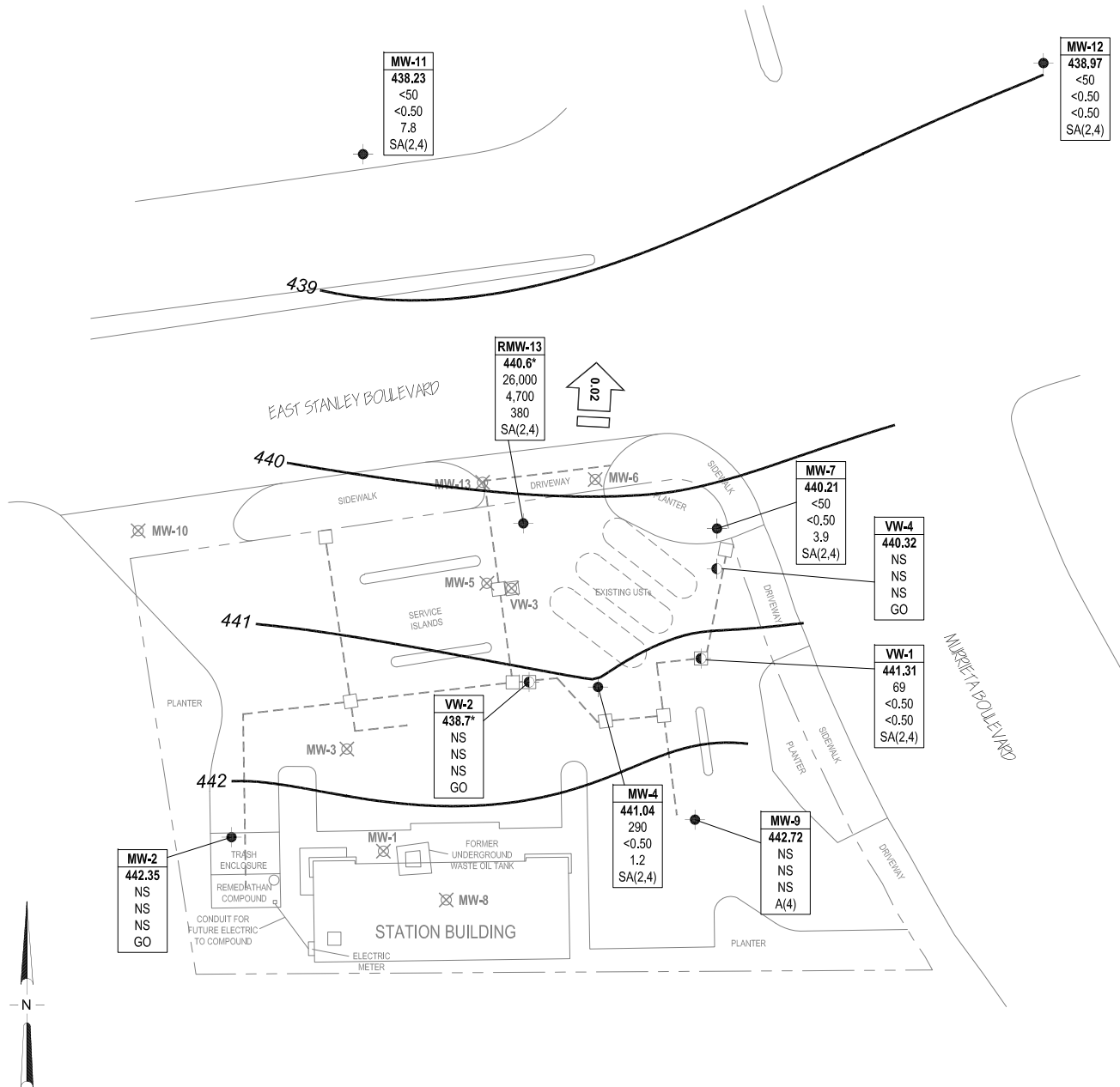
LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

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



APPROXIMATE SCALE (mi)

IMAGE SOURCE: DELORME



LEGEND

- Monitoring well
- Vapor extraction well
- Abandoned well
- 442 Groundwater elevation contour (ft/MSL)

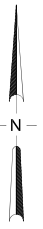
Well	Well Designation
ELEV	Ground-water Elevation
GRO	GRO, Benzene and MTBE concentration (µg/L)
Benzene	
MTBE	
A/SA	Sampling frequency
A(4)	Sampled annually, 4th quarter
SA(2,4)	Semi-annual sampling, 2nd and 4th quarters
GO	Gauge only
NS	Not Sampled
NS	Not Sampled
NS	Not Sampled
NM	Not Measured
*	Not Used in Contouring

0.02 Approximate groundwater flow gradient (ft/ft)

Vault box

Piping trench

NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave, Suite 212, Chico, California 95926
 Project No.: 06-82-637 Date: 6/7/2011

Station #6113
 785 East Stanley Boulevard
 Livermore, California

Groundwater Elevation Contour and
 Analytical Summary Map
 May 18, 2011