

Atlantic Richfield Company

Shannon Couch
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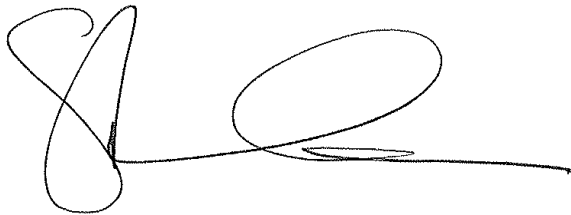
Alameda County
Environmental Health

January 27, 2012

Re: Fourth Quarter 2011 Status Report
Atlantic Richfield Company Station #771
899 Rincon Avenue
Livermore, California
ACEH Case RO0000200

"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

FOURTH QUARTER 2011 STATUS REPORT

Atlantic Richfield Company Station #771
899 Rincon Avenue, Livermore, California
ACEH Case No. RO0000200

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
(530) 566-1400
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January 27, 2012

Project No. 06-82-608

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

Attn.: Ms. Shannon Couch

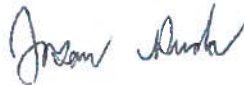
Re: Fourth Quarter 2011 Status Report, Atlantic Richfield Company Station #771, 899
Rincon Avenue, Livermore, California; ACEH Case No. RO0000200

Dear Ms. Couch:

Provided herein is the *Fourth Quarter 2011 Status Report* for Atlantic Richfield Company (a BP affiliated company) Station #771 located at 899 Rincon Ave., Livermore, Alameda County, California (Site). This report presents a summary of current developments regarding the Site through the Fourth Quarter 2011.

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

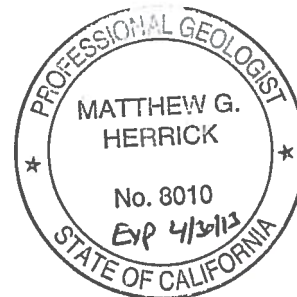
Sincerely,
BROADBENT & ASSOCIATES, INC.



Jason Duda
Project Scientist



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



Enclosure

cc: Mr. Paresh Khatri, Alameda County Environmental Health (Submitted via ACEH ftp site)
Mr. Paul M. Smith, Livermore-Pleasanton Fire Department, 3560 Nevada St., Pleasanton,
California 94566
Mr. Chuck Headlee, California Regional Water Quality Control Board – San Francisco
Region (Submitted via GeoTracker)
Electronic copy uploaded to GeoTracker

**FOURTH QUARTER 2011
STATUS REPORT
STATION #771, LIVERMORE, 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 Station #771 located in Livermore, Alameda County, California. Reporting is being submitted to Alameda County Environmental Health (ACEH) consistent with the requirements under the legal authority of the California Regional Water Quality Control Board, as codified by the California Code of Regulations Title 23, Section 2652(d). A summary description of current developments regarding the site is provided below.

Facility Name / Address:	Station #771 / 899 Rincon Avenue, Livermore, CA
Client Project Manager / Title:	Ms. Shannon Couch / Project Manager
Broadbent Contact:	Jason Duda, (530) 566-1400
Broadbent Project No.:	06-82-608
Primary Regulatory Agency / ID No.:	ACEH / Case #RO0000200
Current phase of project:	Monitoring and Case Closure Evaluation
List of Acronyms / Abbreviations:	See end of report text for list of acronyms/abbreviations used in report.

WORK PERFORMED THIS QUARTER (Fourth Quarter 2011):

1. Submitted *Third Quarter 2011 Monitoring Report* (Broadbent, 10/17/2011).
2. No environmental field work was conducted at the Site during Fourth Quarter 2011.

WORK SCHEDULED FOR NEXT QUARTER (First Quarter 2012):

1. Prepare and submit *Fourth Quarter 2011 Status Report* (contained herein).
2. Prepare and submit *Case Evaluation and Justification for No Further Action* (Broadbent, 1/5/12)
3. Conduct First Quarter 2012 semi-annual groundwater monitoring and sampling.

GROUNDWATER MONITORING PLAN SUMMARY:

Groundwater level gauging:	MW-1 through MW-11, RW-1, VW-1	(1Q and 3Q)
Groundwater sample collection:	MW-4, MW-7, RW-1 MW-2, MW-5, MW-6, MW-11, VW-1	(1Q and 3Q) (3Q)
Biodegradation indicator parameter monitoring:	NA	

DISCUSSION:

No environmental field activities took place at the Site during Fourth 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 *Third Quarter 2011 Monitoring Report* (Broadbent, 10/17/2011). The next groundwater monitoring and sampling event is scheduled to be conducted during the First Quarter 2012.

The *Off-Site Soil and Groundwater Investigation Report* was submitted to ACEH on April 29, 2011. Due to the results obtained during this off-site investigation and current site conditions, a Case Evaluation and Justification for No Further Action was prepared and submitted on January 5, 2012. As of the date of this report, a response from ACEH regarding recommendation for no further action has not been received. It is recommended that semi-annual groundwater monitoring continue at the Site for now in accordance with the plan summary detailed above. The air diffusion system equipment currently present on-site will be removed during the first half of 2012 in an effort to reduce potential hazards associated with outdated and unused remediation equipment. Operation of the air diffusion system was discontinued in March 2010.

ATTACHMENTS:

- Drawing 1: Site Location Map
Drawing 2: Groundwater Elevation Contour and Analytical Summary Map, July 7, 2011

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 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
ft/ft:	feet per foot		

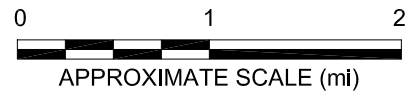
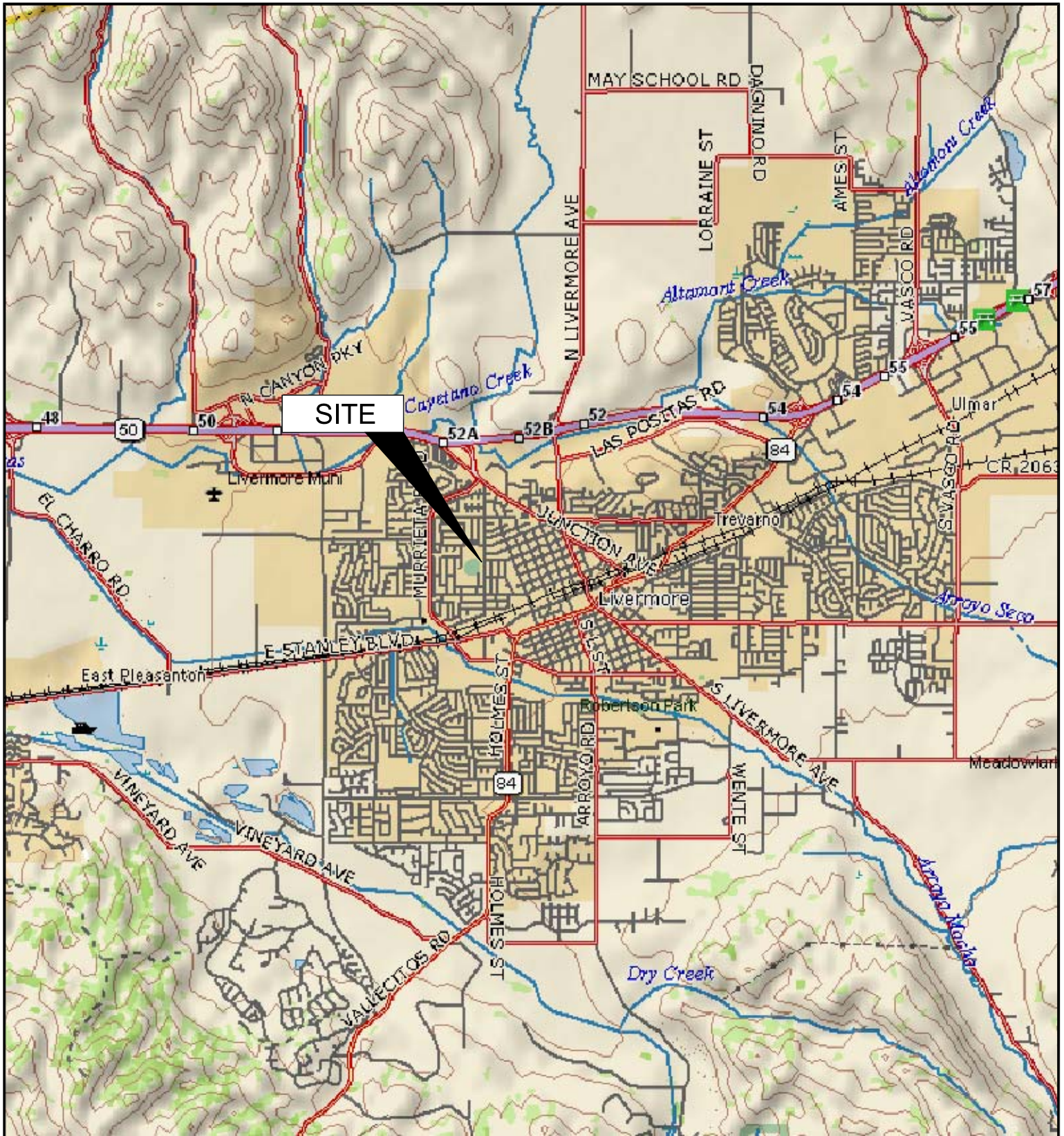
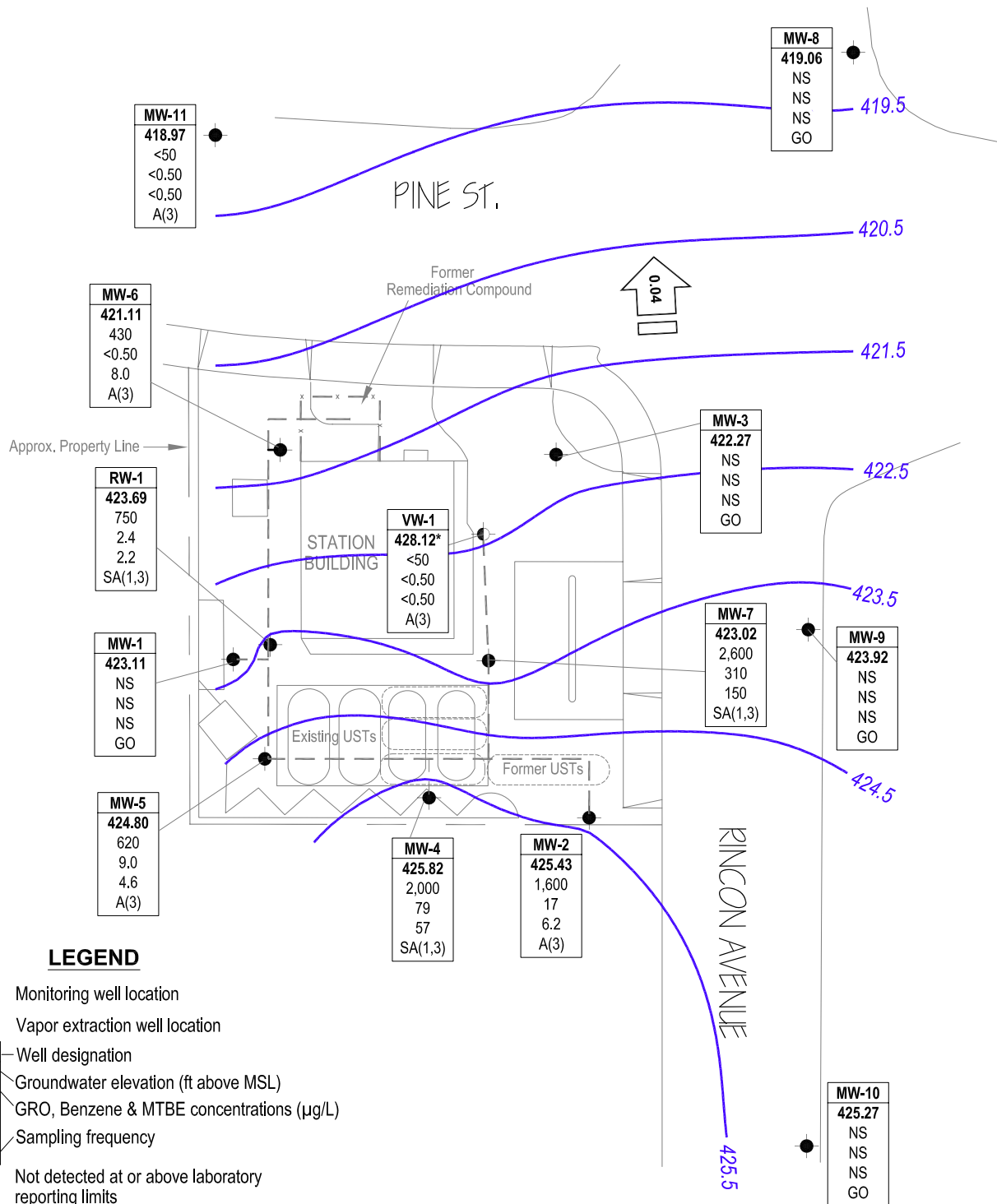
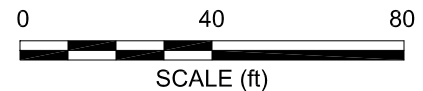


IMAGE SOURCE: DELORME



LEGEND

- Monitoring well location
- Vapor extraction well location
- Well ID** — Well designation
- ELEV** — Groundwater elevation (ft above MSL)
- GRO** — GRO, Benzene & MTBE concentrations (µg/L)
- Benzene**
- MTBE** — Sampling frequency
- SA or A**
- < — Not detected at or above laboratory reporting limits
- * — Not used in contouring
- NG — Not gauged
- NS — Not sampled
- A(3) — Sampled annually during 3rd quarter
- GO — Not sampled, gauged only
- SA(1,3) — Sampled semi-annually, 1st & 3rd quarters
- 425.5 — Groundwater elevation contour (ft above MSL)
- ← 0.04 — Approximate groundwater flow direction and gradient (ft/ft)
- — Remediation piping



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