

Atlantic Richfield Company

Chuck Carmel
Environmental Business Manager

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RECEIVED

11:37 am, May 02, 2011

Alameda County
Environmental Health

April 27, 2011

Re: First Quarter 2011 Status Report
Atlantic Richfield Company Station #4977
2770 Castro Valley Boulevard, Castro Valley, California
ACEH Case #RO0002436

"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,



Chuck Carmel
Project Manager

Attachment

FIRST QUARTER 2011 STATUS REPORT
Atlantic Richfield Company Station #4977
2770 Castro Valley Boulevard, Castro Valley, California
ACEH Case # RO0002436

Prepared for

Mr. Chuck Carmel
Project Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by



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Chico, California 95926
(530) 566-1400
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April 27, 2011

Project No. 06-82-625

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



April 27, 2011

Project No. 06-82-625

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

Attn.: Mr. Chuck Carmel

Re: First Quarter 2011 Status Report, Atlantic Richfield Company Station #4977
2770 Castro Valley Blvd, Castro Valley, California; ACEH Case #RO0002436

Dear Mr. Carmel:

Provided herein is the *First Quarter 2011 Status Report* for Atlantic Richfield Company (a BP affiliated company) Station #4977 located at 2770 Castro Valley Blvd., Castro Valley, Alameda County, California (Site). This report presents a summary of current developments regarding the Site through the First 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)
GeoTracker

**FIRST QUARTER 2011
STATUS REPORT
STATION #4977, CASTRO VALLEY, CA**

Broadbent & Associates, Inc. (BAI) is pleased to present this *First Quarter 2011 Status Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for ARCO Station #4977 located in Castro Valley, Alameda County, California. 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 #4977 / 2779 Castro Valley Boulevard, Castro Valley, CA</u> |
| Client Project Manager / Title: | <u>Mr. Chuck Carmel / Project Manager</u> |
| BAI Contact: | <u>Jason Duda, (530) 566-1400</u> |
| BAI Project No.: | <u>06-82-625</u> |
| Primary Regulatory Agency / ID No.: | <u>ACEH, Case #RO0002436</u> |
| Current phase of project: | <u>Monitoring and On-site Assessment</u> |
| List of Acronyms / Abbreviations: | <u>See end of report text for list of acronyms/abbreviations used in report.</u> |

WORK PERFORMED THIS QUARTER (First Quarter 2011):

1. Prepared and submitted the *Fourth Quarter 2010 Semi-Annual Groundwater Monitoring Report*.
2. No environmental field work was conducted at the Site during the First Quarter of 2011.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2011):

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

GROUNDWATER MONITORING PLAN SUMMARY:

| | | |
|--|--------------------------|-----------|
| Groundwater level gauging: | <u>MW-1 through MW-3</u> | (2Q & 4Q) |
| Groundwater sample collection: | <u>MW-1 through MW-3</u> | (2Q & 4Q) |
| Biodegradation indicator parameter monitoring: | <u>NA</u> | |

DISCUSSION:

No environmental work activities took place at the Site during First Quarter 2011. For reference, a Site Location Map is provided as Drawing 1. Provided as Drawing 2 is the Ground-Water Elevation Contours and Analytical Summary Map from the *Fourth Quarter 2010 Semi-Annual Groundwater Monitoring Report* (BAI, 1/26/2011) for groundwater monitoring/sampling conducted on November 3, 2010.

In response to the November 8, 2010 *Soil and Ground-Water Investigation Work Plan*, ACEH issued the November 18, 2010 letter recommending installation of an additional boring 20 feet south of proposed boring B-5. The ACEH letter requested the submittal of a revised figure to show the proposed location of the additional boring. In the December 3, 2010 email, BAI submitted the revised drawing that included the addition of boring B-6. Although written approval from ACEH of the above discussed

revision has not been received, soil and groundwater investigation activities are scheduled to proceed unless otherwise directed by ACEH.

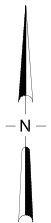
ATTACHMENTS:

Drawing 1 Site Location Map, Station #4977, 2770 Castro Valley Boulevard, Castro Valley, California

Drawing 2. Groundwater Elevation Contour and Analytical Summary Map, Station #4977, 2770 Castro Valley Boulevard, Castro Valley, California

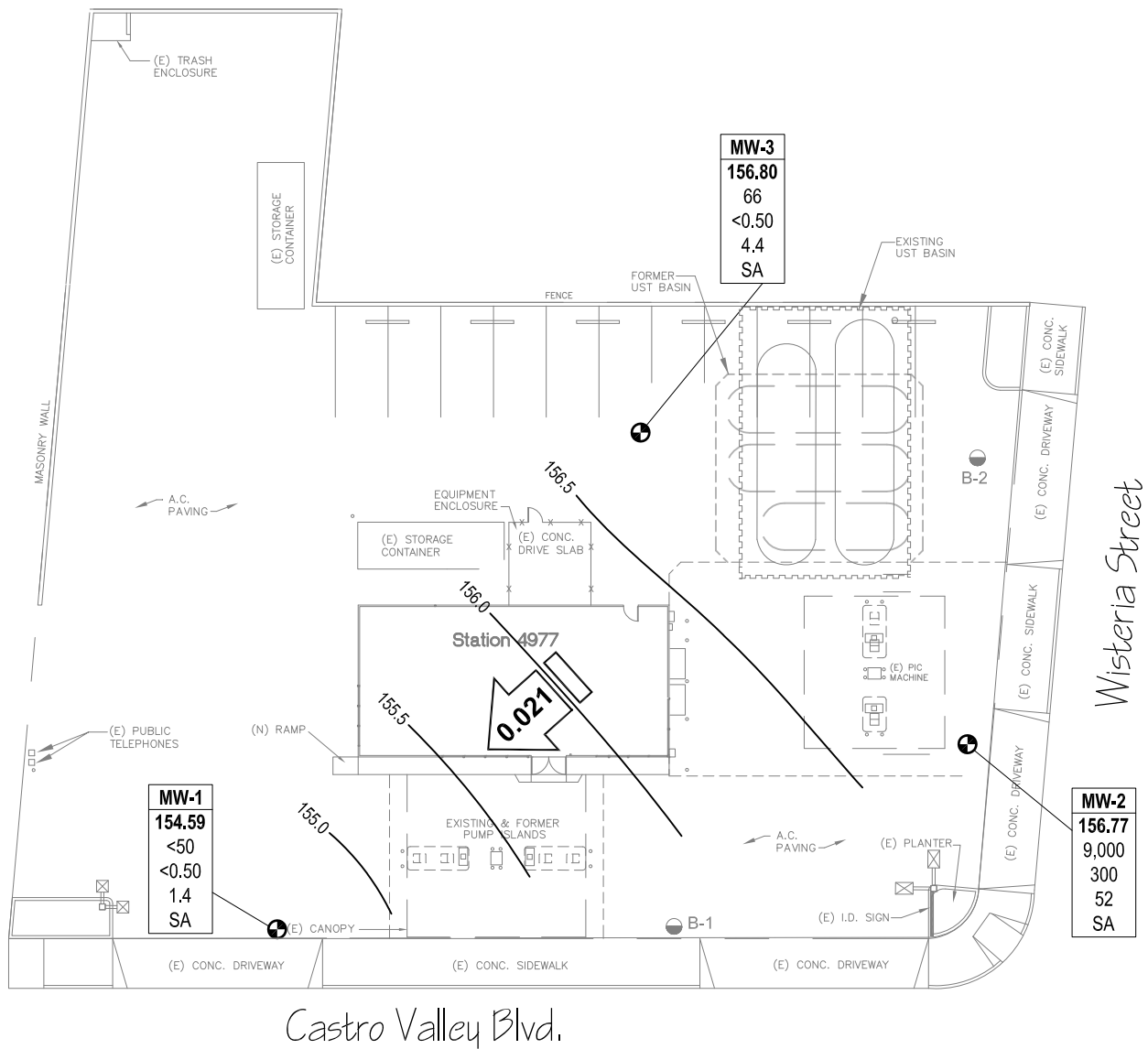
LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

| | | | |
|----------|---|-------------------|--------------------------------|
| 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 |



APPROXIMATE SCALE (mi)

IMAGE SOURCE: DELORME



LEGEND

- MONITORING WELL
- SOIL BORING

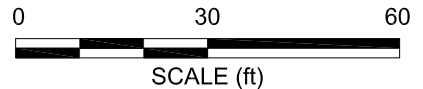
| | |
|-------------|---|
| Well | WELL DESIGNATION |
| ELEV | GROUND-WATER ELEVATION (FT) |
| GRO | CONCENTRATION OF GRO, BENZENE AND MTBE IN GROUND WATER (µg/L) |
| BZ | |
| MTBE | |
| Q | SAMPLING FREQUENCY |

- < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
- A SAMPLED ANNUALLY
- SA SAMPLED SEMI-ANNUALLY (2ND AND 4TH QUARTERS)

—155.0 GROUND-WATER ELEVATION CONTOUR (FT)

GROUND-WATER FLOW DIRECTION AND GRADIENT (FT/FT)

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



Castro Valley Blvd.

Wisteria Street