

Atlantic Richfield Company

Chuck Carmel

Remediation Management Project Manager

PO Box 1257
San Ramon, CA 94583
Phone: (925) 275-3804
Mobile: (510) 798-8314
E-Mail: chuck.carmel@bp.com

January 15, 2015

RECEIVED

By Alameda County Environmental Health at 3:42 pm, Jan 15, 2015

Re: Fourth Quarter 2014 Groundwater Monitoring Report
Former Richfield Oil Company Station #402
1450 Fruitvale Avenue, Oakland, California
ACEH Case #RO0000307

"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

Remediation Management Project Manager

Attachment:





**FOURTH QUARTER 2014 STATUS REPORT
Atlantic Richfield Company Station #402
1450 Fruitvale Avenue
Oakland, Alameda County, California**

Prepared for:

Mr. Chuck Carmel
Atlantic Richfield Company
P.O. Box 1257
San Ramon, CA 94583

Prepared by:

Broadbent & Associates, Inc.
4820 Business Center Drive, Suite 110
Fairfield, California 94534
(707) 455-7290

January 15, 2015

No. 08-88-602



BROADBENT

4820 Business Center Drive, Suite 110
Fairfield, CA 94534
(T) 707.455-7290 (F) 707.863-9046
broadbentinc.com

Creating Solutions. Building Trust.

January 15, 2015

Project No. 08-88-602

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

Attn.: Mr. Chuck Carmel

Re: Fourth Quarter 2014 Status Report, Atlantic Richfield Company Station No. 402,
1450 Fruitvale Avenue, Oakland, Alameda County, California; ACEH Case #RO0000307

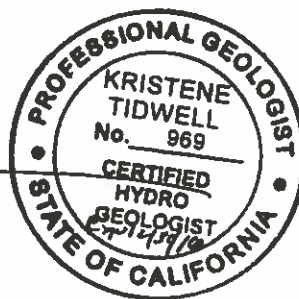
Dear Mr. Carmel:

Attached is the *Fourth Quarter 2014 Status Report* for Atlantic Richfield Company (a BP affiliated company) Station No. 402 located at 1450 Fruitvale Avenue in Oakland, Alameda County, California (the Site). This report presents a summary of current developments at the Site through the Fourth Quarter of 2014.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (707) 455-7290.

Sincerely,
BROADBENT & ASSOCIATES

Kristene Tidwell, P.G., C.H.G.
Associate Hydrogeologist



Enclosures

cc: Ms. Karol Detterman, Alameda County Environmental Health (Submitted via ACEH ftp site)
Electronic copy uploaded to GeoTracker

**FOURTH QUARTER 2014
STATUS REPORT
ATLANTIC RICHFIELD COMPANY STATION No. 402
OAKLAND, CALIFORNIA**

Broadbent and Associates, Inc. (Broadbent) is pleased to present this *Fourth Quarter 2014 Status Report* on behalf of Atlantic Richfield Company (ARC, a BP affiliated company) for Station No. 402 located at 1450 Fruitvale Avenue in Oakland, Alameda County, California (the Site). Monitoring activities at the Site were performed in accordance with an agency directive issued by the Alameda County Environmental Health (ACEH). Details of work performed, discussion of results, and recommendations are provided below.

Facility Name / Address:	<u>Station No. 402 / 1450 Fruitvale Ave., Oakland, California; Drawing 1</u>
Client Project Manager / Title:	<u>Mr. Chuck Carmel / Remediation Management Project Manager</u>
Broadbent Contact:	<u>Ms. Kristene Tidwell, (707) 455-7290</u>
Broadbent Project No.:	<u>08-88-602</u>
Primary Regulatory Agency / ID No.:	<u>ACEH / Case # RO0000307</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 (Fourth Quarter 2014):

1. Submitted *Third Quarter 2014 Monitoring Report* on October 31, 2014.
2. No other environmental work activities took place during the Fourth Quarter 2014.

WORK SCHEDULED FOR NEXT QUARTER (First Quarter 2015):

1. Submit *Fourth Quarter 2014 Status Report* (contained herein).
2. Conduct groundwater monitoring/sampling activities for First Quarter 2015.

QUARTERLY MONITORING PLAN SUMMARY:

Groundwater level gauging:	<u>MW-4, MW-5, MW-6, MW-7</u>	Semi-Annual
Groundwater sample collection:	<u>MW-4, MW-5, MW-6, MW-7</u>	Semi-Annual
Biodegradation indicator parameter monitoring:	<u>None</u>	

DISCUSSION:

A Site Location Map is provided as Drawing 1. The Groundwater Elevation Contour and Analytical Summary Map for data collected on September 17, 2014 is provided as Drawing 2. The next semi-annual groundwater monitoring/sampling event is scheduled to be conducted during the First Quarter of 2015.

RECOMMENDATIONS:

The next quarterly monitoring event is scheduled for the First Quarter 2015. Data collected to date indicates that the site may be eligible for closure under the California state water resources control boards low threat UST closure policy. If data from the First Quarter 2015 is consistent with previous data, a conceptual site model (CSM) will be prepared after the First Quarter 2015 groundwater sampling event to aid in determining the site's closure eligibility.

LIMITATIONS:

The findings presented in this report are based upon observations of field personnel, points investigated, and our understanding of SFBRWQCB requirements. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of ARC. It is possible that variations in soil or groundwater conditions could exist beyond points explored in this investigation. Also, changes in Site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

ATTACHMENTS:

- Drawing 1: Site Location Map
Drawing 2: Groundwater Elevation Contour and Analytical Summary Map, March 18, 2014

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

ACEH	Alameda County Environmental Health	gal:	gallons
ARC:	Atlantic Richfield Company	GRO:	Gasoline Range Organics (C6-12)
Broadbent	Broadbent & Associates	LNAPL:	Light Non-Aqueous Phase Liquid
BTEX:	Benzene, Toluene, Ethylbenzene, Total Xylenes	MTBE:	Methyl Tertiary Butyl Ether
1,2-DCA:	1,2-Dichloroethane	TAME:	Tert-Amyl Methyl Ether
DIPE:	Di-Isopropyl Ether	TBA:	Tert-Butyl Alcohol
EDB:	1,2-Dibromomethane	TOC:	Top of Casing
EPA:	Environmental Protection Agency	µg/L:	Micrograms Per Liter
ETBE:	Ethyl Tert-Butyl Ether	1Q:	First Quarter
ft:	feet	3Q:	Third Quarter
ft/ft:	foot per foot	ft bgs:	Feet Below Ground Surface

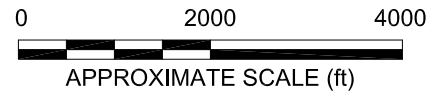
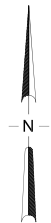
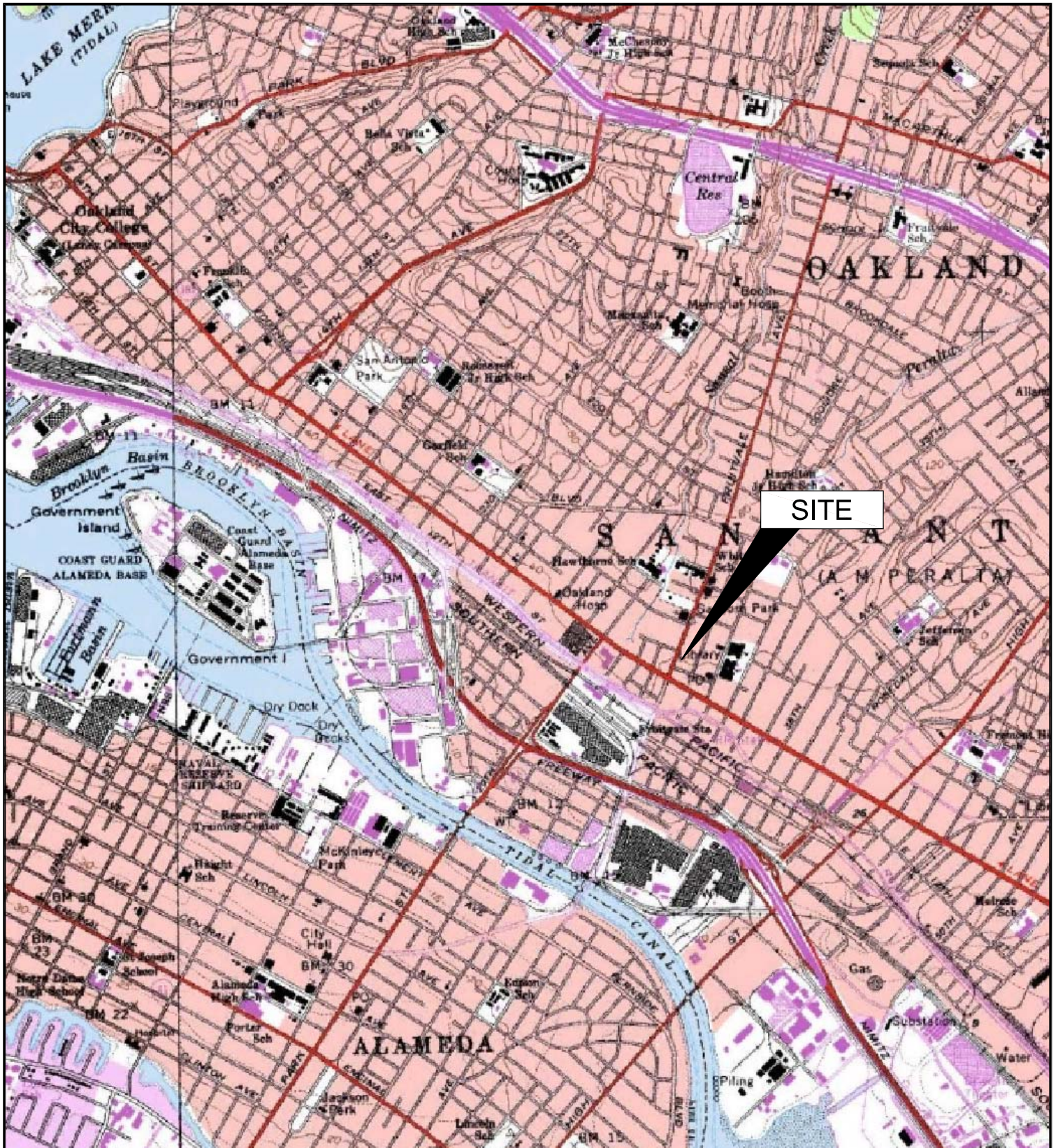
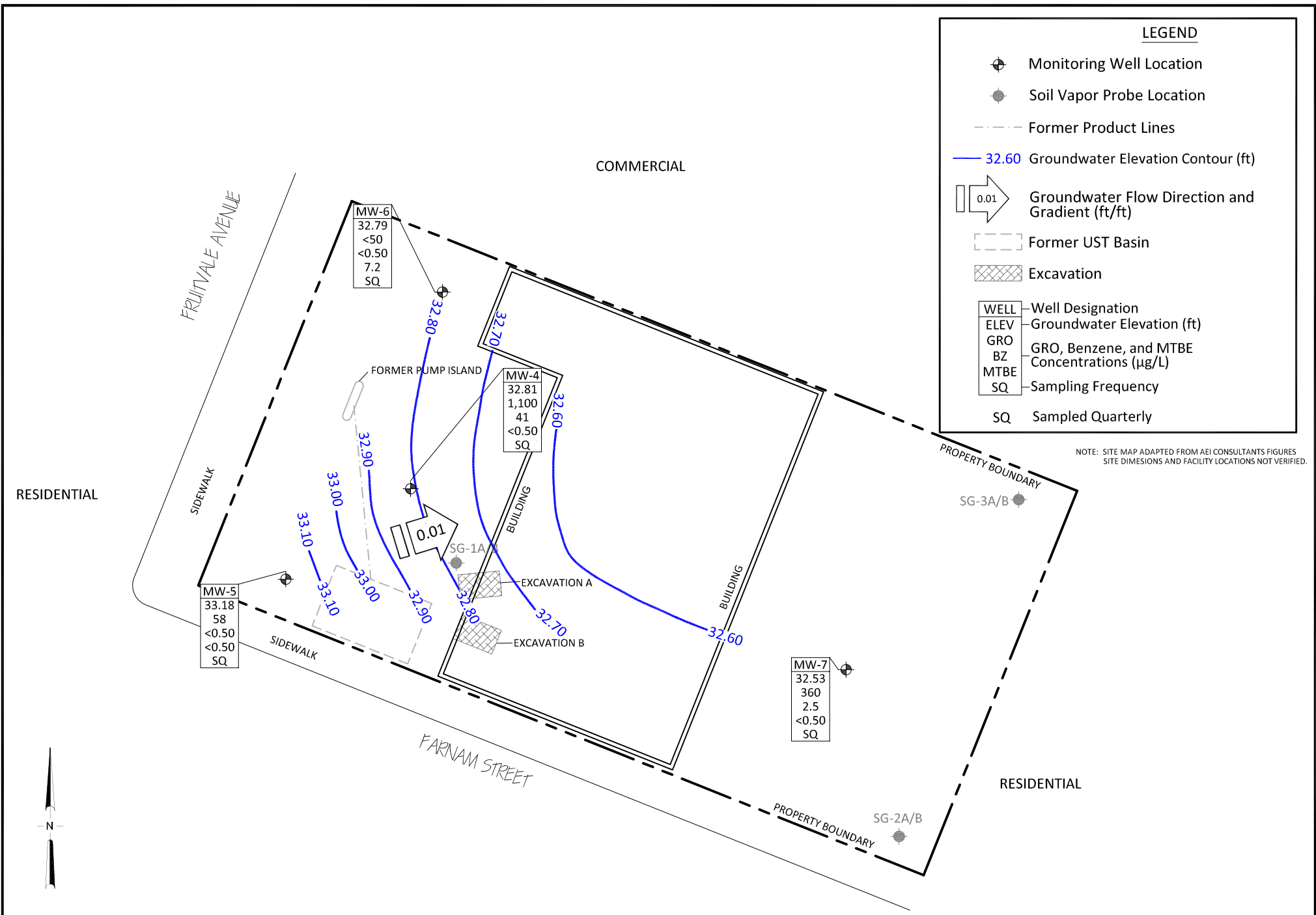


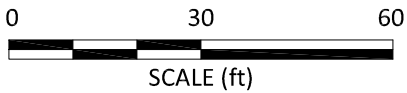
IMAGE SOURCE: USGS



RESIDENTIAL

COMMERCIAL

RESIDENTIAL



Project No.: 08-88-602 Date: 10/27/2014

ARCO Former Station No 402
1450 Fruitvale Avenue
Oakland, California

Groundwater Elevation Contour
and Analytical Summary Map,
September 17, 2014

Drawing

2