

Atlantic Richfield Company

Chuck Carmel
Remediation Management Project Manager

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RECEIVED

2:48 pm, Jan 07, 2011

Alameda County
Environmental Health

5 January 2011

Re: Fourth Quarter 2010 Status Report
Atlantic Richfield Company Station #2112
1260 Park Street, Alameda, California
ACEH Case #RO0000044

"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:

5 January 2011

Project No. 06-88-616

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

Attn.: Mr. Chuck Carmel

Re: Fourth Quarter 2010 Status Report, Atlantic Richfield Company Station #2112
1260 Park Street, Alameda, California; ACEH Case No.RO0000044

Dear Mr. Carmel:

Provided herein is the *Fourth Quarter 2010 Status Report* for Atlantic Richfield Company (a BP affiliated company) Station #2112 located at 1260 Park Street, Alameda, Alameda County, California (Site). This report presents a summary of current developments at the Site through Fourth Quarter of 2010.

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

Sincerely,

BROADBENT & ASSOCIATES, INC.



Thomas A. Venus, P.E.
Senior Engineer



Enclosures

cc: Ms. Donna Dragos, Alameda County Environmental Health (Submitted via ACEH ftp Site)
Electronic copy uploaded to GeoTracker

STATION #2112 QUARTERLY STATUS REPORT

Facility: #2112	Address:	1260 Park Street, Alameda, California
Environmental Business Manager:		Mr. Chuck Carmel
Consulting Company/Contact Person:		Broadbent & Associates, Inc./Mr. Tom Venus, PE (530)566-1400
Consultant Project No.:		06-08-616
Primary Agency/Regulatory ID No.:		Alameda County Environmental Health (ACEH) ACEH Case No. RO0000044

WORK PERFORMED THIS QUARTER (Fourth Quarter 2010):

1. Prepared and submitted the *Third Quarter 2010 Ground-Water Monitoring Report* (BAI, 10/29/2010).
2. No environmental field work was conducted at the Site during the Fourth Quarter of 2010.

WORK PROPOSED FOR NEXT QUARTER (First Quarter 2011):

1. Install and sample shallow soil vapor monitoring points per the *Revised Vapor Intrusion Assessment Work Plan* (BAI, 4/15/2010). Prepare and submit results of first of two rounds of semi-annual vapor well sampling (Schedule to be determined pending successful outcome of revised vapor intrusion sampling techniques used at ARCO Station #2035 in Albany, California).
2. Perform First Quarter 2011 ground-water monitoring/sampling as requested in ACEH letter dated 12 August 2010.

DISCUSSION:

In their letter dated 12 August 2010, ACEH approved the *Revised Vapor Intrusion Assessment Work Plan* (BAI, 4/15/2010). The letter requested submittal of the resulting vapor intrusion assessment (VIA) reports for Third Quarter 2010 and First Quarter 2011 by 10 November 2010 and 8 February 2011, respectively. As discussed in August and again in November 2010 with Mr. Paresh Khatri, former ACEH manager for this leak case, BAI had completed two unsuccessful rounds of sampling soil gas from the then-newly constructed VIA monitoring implants at ARCO Station #2035 (ACEH Case #RO0000100 located in Albany). Those two rounds of results were considered unsuccessful due to detecting the leak check tracer compound(s) in several of the samples. Before BAI constructed new VIA implants at Station #2112, BAI wished to confirm that the design and construction for this type of VIA implant (similar to those at Station #2035) were not the cause of the past problems with detecting the leak check compound. In his email dated 12 November 2010, Mr. Khatri approved the extension of the due dates for the requested VIA reports. The first VIA report is to be within 60 days following the collection of soil gas samples from Station #2035 meeting the QA/QC requirements (i.e. absence of the leak check compound), with the follow-up VIA report being submitted six months after the first VIA report is submitted. As ACEH concurred, BAI believes that it is unlikely that a slight delay in performing this VIA will provide an elevated risk to occupants and visitors at Station #2112 since the recently submitted results of Third Quarter 2010 monitoring detected no contamination by petroleum hydrocarbons in groundwater samples from the Site.

Consistent with the ACEH letter dated 12 August 2010, no ground-water monitoring or sampling field work was conducted at the Site during the Fourth Quarter 2010. The most recent field monitoring and sampling even occurred on 10 September 2010 and was documented in the *Third Quarter 2010*

Ground-Water Monitoring Report (BAI, 10/29/2010). For reference, a Site Location Map is presented as Drawing 1. The most recent potentiometric ground-water elevation contours and 'non-detect' concentrations of Gasoline-Range Organics (GRO), Benzene, and Methyl Tertiary Butyl Ether (MTBE) from monitoring/sampling conducted on 10 September 2010 are exhibited in Drawing 2.

ATTACHMENTS:

- Drawing 1. Site Location Map, Station #2112, 1260 Park Street, Alameda, California
- Drawing 2. Ground-Water Elevation Contour and Analytical Summary Map, 10 September 2010, Station #2112, 1260 Park Street, Alameda, California

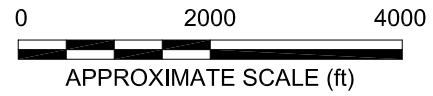
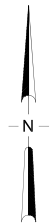
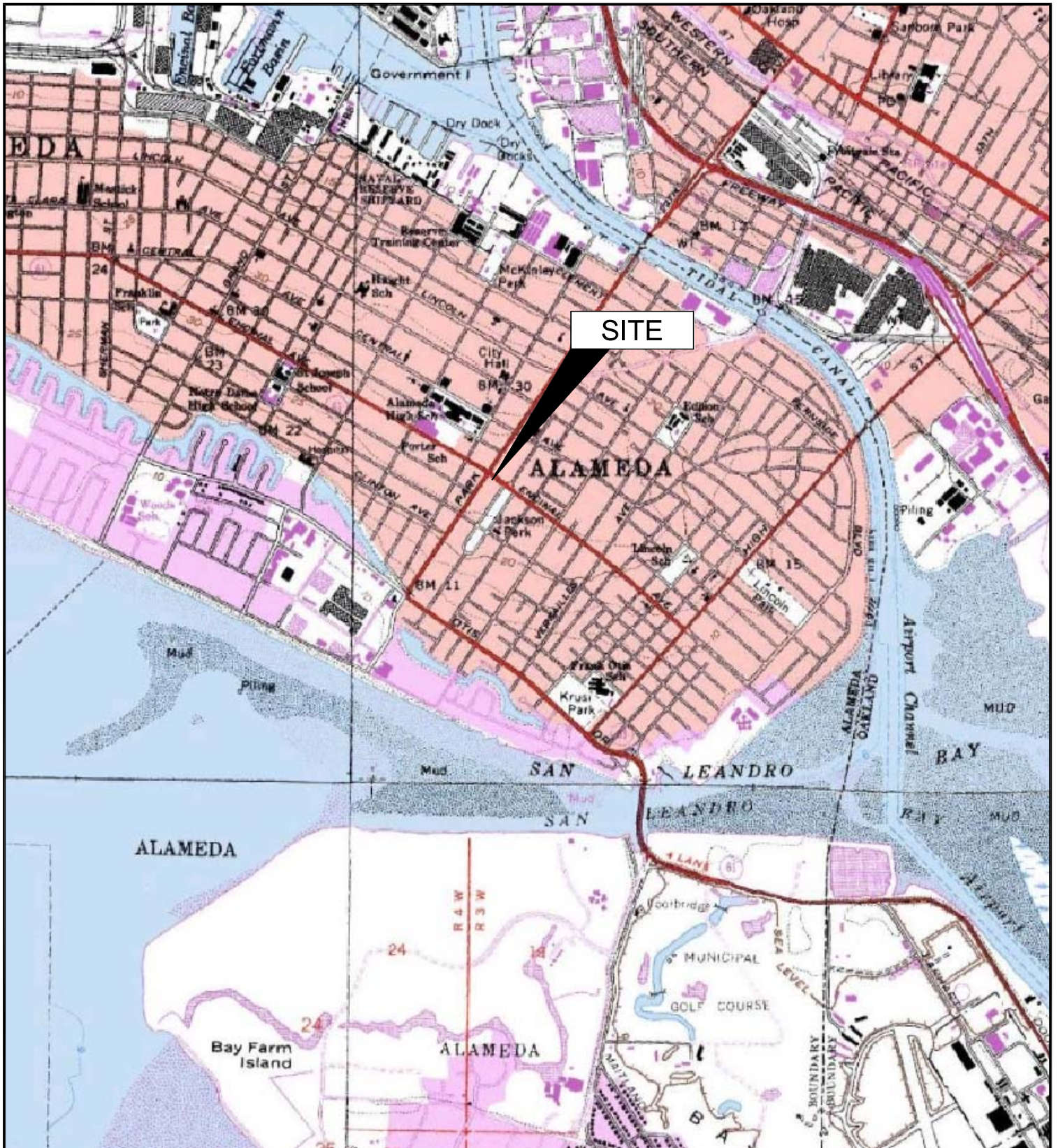
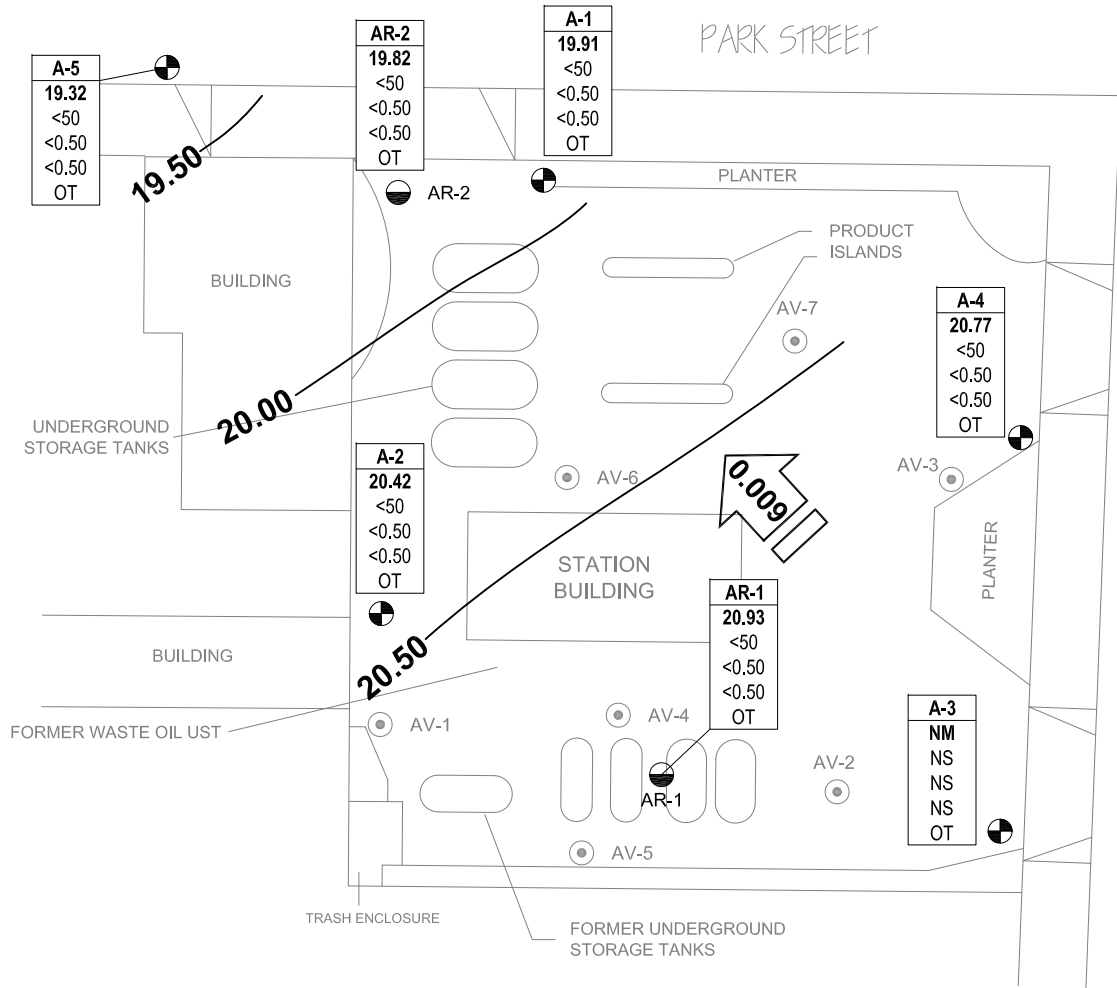


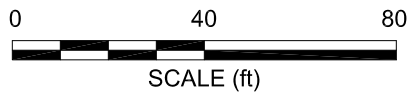
IMAGE SOURCE: USGS



- LEGEND:**
- A-1 MONITORING WELL LOCATION
 - AR-1 GROUND-WATER EXTRACTION WELL LOCATION
 - AV-1 VAPOR EXTRACTION WELL LOCATION
 - 20.50 GROUND-WATER ELEVATION CONTOURS (FT MSL)
 - 0.009 GROUND-WATER FLOW DIRECTION AND GRADIENT (FT/FT)
- | Well | WELL DESIGNATION |
|---------|---|
| ELEV | GROUND-WATER ELEVATION (FT MSL) |
| GRO | GRO, BENZENE AND MTBE CONCENTRATIONS IN GROUND WATER (µg/L) |
| Benzene | |
| MTBE | |
| OT | SAMPLING FREQUENCY |
- NM/MS NOT MEASURED/NOT SAMPLED
 - < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
 - OT ONE TIME, PER ACEH REQUEST



NOTE: SITE MAP ADAPTED FROM URS 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.: 06-88-616 Date: 10/18/10

Station #2112
 1260 Park Street
 Alameda, California

Ground-Water Elevation Contour
 and Analytical Summary Map
 September 10, 2010

Drawing

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