Atlantic Richfield Company

RECEIVED

By Alameda County Environmental Health at 9:34 am, Aug 01, 2014

Chuck Carmel Project Manager

PO Box 1257 San Ramon, CA 94583 Phone: (925) 275-3803 Fax: (925) 275-3815 E-Mail: charles.carmel@bp.com

June 20, 2014

Re: Conceptual Site Model and Case Closure Request Addendum

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





CONCEPTUAL SITE MODEL AND CASE CLOSURE REQUEST ADDENDUM Atlantic Richfield Company Station #4977 2770 Castro Valley Blvd. Castro Valley, Alameda County, California

Prepared for:

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

Prepared by:

Broadbent & Associates, Inc. 1370 Ridgewood Dr., Suite 5 Chico, California 95973 (530) 566-1400

June 20, 2014

No. 06-82-625

broadbentinc.com

CREATING SOLUTIONS, BUILDING TRUST.

June 20, 2014

Project No. 06-82-625

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

Attn.: Mr. Chuck Carmel

Re:

Conceptual Site Model and Case Closure Request Addendum, Atlantic Richfield Company Station No. 4977, 2770 Castro Valley Boulevard, Castro Valley, California; ACEH Case No. RO0002436;

GeoTracker Global ID # T0600100089

Dear Mr. Carmel:

On behalf of the Atlantic Richfield Company— (ARC, a BP affiliated company) Broadbent & Associates, Inc. (Broadbent) has prepared this *Conceptual Site Model and Case Closure Request Addendum* for the Atlantic Richfield Company (ARCO) Station No. 4977 (herein referred to as Station No. 4977), located at 2770 Castro Valley Boulevard in Castro Valley, California (Site). A Site location map is presented as Drawing 1. This CSM and CCR Addendum has been prepared in response to email correspondence from the Alameda County Environmental Health Department (ACEH) dated June 5, 2014. The correspondence requested the submittal of an addendum to the *Conceptual Site Model and Case Closure Request* (Broadbent, 3/26/2014) to include preparation of a revised plume length figure for gasoline range organics (GRO) using an aerial photograph as the base map.

As requested, Drawing 2 depicts the estimated GRO plume in the downgradient direction utilizing the average GRO plume length (248 feet) listed in Table 1 of the *Technical Justification for Groundwater Media-Specific Criteria* (State Water Resources Control Board, April 2012). Additionally, the nearest potential sensitive receptor, previously reported as a domestic well, located in the general downgradient direction is depicted on Drawing 2. The location of this well is based on information documented in Closure Solutions, Inc. *Sensitive Receptor Survey* (November 2011). The upgradient wells located approximately 1,000 feet northwest of the Site are not depicted in order to enhance the presentation of the GRO plume and Site features. This plume depiction is solely based on the average GRO plume length, as previously referenced. Based on current Site conditions, contaminant concentrations, and low permeability soil type (clay), Drawing 3 provides a comparative depiction of the estimated GRO plume taking these factors into account. It should also be noted that the lack of perforation construction as reported within the downgradient well is indicative of old irrigation well construction methods. Therefore, it is not likely utilized for drinking water purposes. However, this observation has not been confirmed.

As previously stated in the *Conceptual Site Model and Case Closure Request*, this Site appears to meet all applicable criteria for case closure under the California State Water Resources Control Board's *Low Threat Underground Storage Tank Case Closure Policy*. It is recommended that a determination of No Further Action be made for this Site. Should you have questions or require additional information, please do not hesitate to contact us at (530) 566-1400.

Page 2

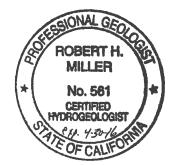
Sincerely,

BROADBENT & ASSOCIATES, INC.

Jason Duda Senior Scientist

Robert H. Miller, P.G., C.HG. Principal Hydrogeologist

Mulet 7/ Me



Enclosures

Ms. Karel Detterman, Alameda County Environmental Health (Submitted via ACEH ftp site)
 Mr. Kevin Brown, California Regional Water Quality Control Board - San Francisco Region
 (Submitted via GeoTracker)
 Electronic copy uploaded to GeoTracker

References

Broadbent & Associates, Inc., March 26, 2014. Conceptual Site Model and Case Closure Request, ARCO Station #4977, 2770 Castro Valley Boulevard, Castro Valley, California.

Closure Solutions, Inc., November 9, 2011. Sensitive Receptor Survey, ARCO Station #4977, 2770 Castro Valley Boulevard, Castro Valley, California.

State Water Resources Control Board, August 17, 2012. Low-Threat Underground Storage Tank Case Closure Policy.

State Water Resources Control Board, April 24, 2012. Technical Justification for Groundwater Media-Specific Criteria.

