

Atlantic Richfield Company

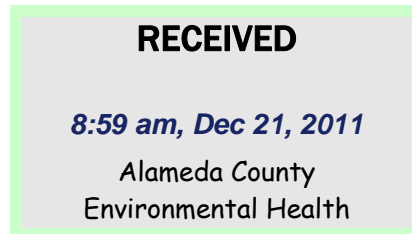
Shannon Couch

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December 8, 2011

Mr. Paresh Khatri
Alameda County Health Care Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502



**Re: SENSITIVE RECEPTOR SURVEY
ARCO Station No. 2107
3310 Park Boulevard
Oakland, California 94610
ACEH Case No. RO0002526**

Dear Mr. Khatri:

I declare, that to the best of my knowledge at the present time, that the information contained in the attached document is true and correct.

Regards,

A handwritten signature in black ink, consisting of a large, stylized 'S' followed by a horizontal line that ends in a small loop.

Shannon Couch
Remediation Management Project Manager
Atlantic Richfield Company, a BP-affiliated company

Enclosure: Sensitive Receptor Survey



December 8, 2011

Mr. Paresh Khatri
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

RE: SENSITIVE RECEPTOR SURVEY

ARCO Station No. 2107
3310 Park Boulevard
Oakland, California 94610
Case # RO0002526

Dear Mr. Khatri:

On behalf of Atlantic Richfield Company (ARCO), Closure Solutions, Inc. (Closure Solutions) has prepared this *Sensitive Receptor Survey* (Survey) for the ARCO Station No. 2107, located at 3310 Park Boulevard in Oakland, California (Site). Closure Solutions performed the Survey to identify the presence of water wells and surface water bodies within a 0.5-mile radius of the Site. The Site setting, information on groundwater depth, groundwater flow direction, survey methods, and survey results are presented below. Additional information, including sensitive land uses is not included in this report.

1.0 SITE SETTING

The Site is located on the southwest corner of the intersection between Park Boulevard and East 34th Street in Oakland, California. The Site is currently an active ARCO station and is located in a mixed residential and commercial area. Oakland High School is across Park Boulevard, to the north of the Site. Current Site facilities include a station building, eight pumps on two dispenser islands and three 12,000-gallon underground storage tanks.

2.0 GROUNDWATER DEPTH AND FLOW DIRECTION

Groundwater monitoring and sampling has been conducted at the Site since 1987. The original leaking underground storage tank (LUST) case (number RO0000651) was closed in 1997 and a new LUST case was opened in 2003. Based on information contained in historical Site reports, depth to groundwater beneath the Site ranges from approximately 3 to 13 feet below ground surface. Groundwater flow direction is predominantly to the north.

3.0 WELL SURVEY METHODS

To obtain information on the type and location of wells within a 0.5-mile radius of the Site, Closure Solutions requested a signed authorization form from the Alameda County Department of Environmental Health (ACEH) to access confidential well information. The signed authorization was then provided to the Department of Water Resources (DWR) for access to all available well completion reports for wells installed in the vicinity of the Site. The DWR furnished 35 well completion reports for wells installed in the Site vicinity. All wells are located in Sections 30 and 31 in Township 01S, Range 03W, Mount Diablo Meridian.

To assemble the survey information, Closure Solutions grouped the reports into the following categories:

- Reports that referenced well locations by current street addresses that could be verified using online resources (Google Earth or equivalent);
- Reports that referenced well locations by distance from a current street, intersection, or other known location such as a creek or park;
- Reports that referenced well locations by distance from a corner of a map Section;
- Reports that referenced well locations by outdated street addresses, route numbers, or street names/intersections that were changed/no longer existed;
- Reports that were illegible; and
- Reports for wells that had been destroyed.

Well locations referenced by current street addresses or by distances from a known location or street intersection were verified on a map to obtain distance from the Site. If the well location was within 0.5 mile of the Site, the well location was plotted on the survey map. Wells located outside the 0.5 mile radius were not plotted.

For wells that were referenced by distance from a corner of a Section, Closure Solutions accessed Montana State University's Graphical Locator website and the Earthpoint website to obtain maps of the referenced Section within the Township and Range. Once this information was obtained and verified, wells identified within 0.5 miles of the Site were plotted on the well survey map.

In cases where well completion reports contained street names or route numbers that no longer existed, either available Township, Range, and Section information was used to plot locations, or

additional research was conducted to obtain information on historical street and route names. In a few cases, well locations could not be verified using the referenced locations or addresses provided, or the report was illegible. These wells were not included on the well survey map.

4.0 WELL SURVEY RESULTS

Based on Closure Solutions' review of information provided by the DWR, no wells were identified within a 0.5-mile radius of the Site. Please note that for the purposes of this well survey, cathodic protection wells and wells associated with environmental cases are not included in the results. Due to privacy concerns, the DWR well completion reports are not included in any copy of this document.

5.0 SURFACE WATER

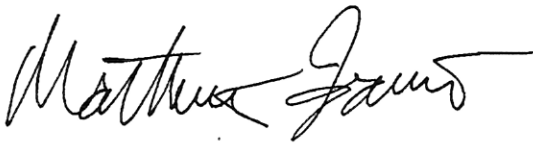
The nearest surface water bodies are Lake Merritt and the Central Reservoir. The site is located approximately midway between the two water bodies, with Lake Merritt approximately 4,700 feet west (cross-gradient) of the Site and the Central Reservoir approximately 3,200 feet east-southeast (cross-gradient) of the Site. Lake Merritt eventually connects to the Oakland Inner Harbor/San Francisco Bay, which is located approximately 7,000 feet south-southwest (up-gradient) of the Site.

If you have any questions or comments regarding this report, please contact Charlotte Evans at (925) 566-8567, or by e-mail at cevans@closureolutions.com.

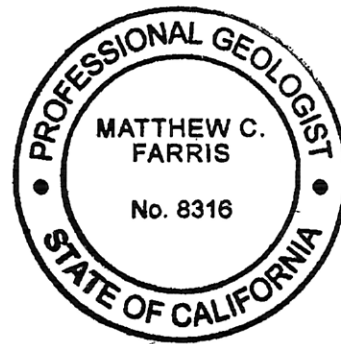
Sincerely,
Closure Solutions, Inc.



Charlotte Evans
Project Geologist



Matthew Farris, P.G.
Project Geologist



cc: Ms. Shannon Couch, Atlantic Richfield Company