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Alameda County
Environmental Health



QUARTERLY SUMMARY REPORT

Fourth Quarter 2010

76 Service Station No. 3072
2445 Castro Valley Blvd
Castro Valley, CA

Antea Group Project No. C1Q3072010

March 11, 2011

Prepared for:
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Prepared by:
Antea™Group
11050 White Rock Road
Suite 110
Rancho Cordova, CA
95670



76 Broadway
Sacramento, California 95818

March 11, 2011

Ms. Barbara Jakub
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: **Quarterly Summary Report Transmittal
Fourth Quarter 2010
76 Service Station No. 3072
2445 Castro Valley Blvd
Castro Valley, CA**

RO# 2968

Dear Ms. Jakub:

I declare under penalty of perjury that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

If you have any questions or need additional information, please call:

Ted Moise (Contractor)
ConocoPhillips
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818

Phone: (510) 245-5162
Fax: (918) 662-4480
Ted.Moise@contractor.conocophillips.com

Sincerely,

A handwritten signature in black ink, appearing to read 'Eric G. Hetrick'.

Eric G. Hetrick
Site Manager
Risk Management & Remediation

Attachment



Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, California 95670
www.anteagroup.com

March 11, 2011

Ms. Barbara Jakub
Alameda County health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

**RE: QUARTERLY SUMMARY REPORT
FOURTH QUARTER 2010**
76 Service Station No. 3072
2445 Castro Valley Blvd
Castro Valley, CA
AOC 1154
RO# 2968

Dear Ms. Jakub

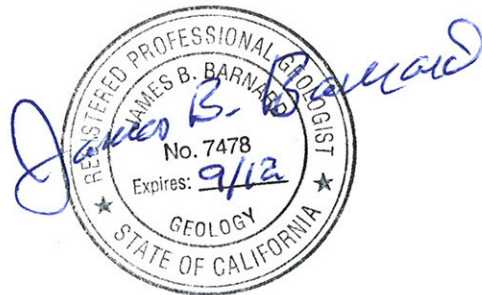
Due to global rebranding, as of January 5, 2011 Delta Consultants has become Antea Group. Any work performed or reports submitted prior to this date will still be referenced using the Delta name.

On behalf of ConocoPhillips (COP), Antea Group has prepared this quarterly summary report for the above referenced location:

Sincerely,
ANTEA™ GROUP

A handwritten signature in blue ink that reads "James B. Barnard".

James B. Barnard, P.G.
Project Manager
California Registered Professional Geologist No. 7478



Cc: Mr. Ted Moise – ConocoPhillips (electronic copy only)

**QUARTERLY SUMMARY REPORT
FOURTH QUARTER 2010
76 Service Station No. 3072
2445 Castro Valley Blvd
Castro Valley, Alameda County, CA**

1.0 SITE BACKGROUND

The general site location is at the intersection of Castro Valley Boulevard and Stoneridge Avenue in Castro Valley, California, as shown in Figure 1. The Site Plan (Figure 2) illustrates the approximate location of the current site features in the underground storage tank (UST) system which consists of two 12,000 gallon and one 10,000 gallon gasoline USTs with six fuel dispensers located on three dispenser islands. There is also a waste oil UST located directly south of the station building. The USTs are located to the north of the site, and are oriented approximately northwest-southeast. Two of the dispenser islands are located immediately to the west of the USTs, and are oriented perpendicularly. The other island is southeast of, and parallel to, the USTs.

1.1 PREVIOUS ASSESSMENT

November 1989 through February 1990: Three 10,000 gallon USTs, one 550 gallon waste oil UST, and product piping were removed and replaced. The UST pits were over excavated to remove impacted soil (Kaprealian Engineering (KEI), 1990).

November 14, 1989: Six soil samples (A1, A2, B1, B2, C1, C2) were collected from below the fuel USTs and one soil sample (WO1) was collected from below the waste oil UST. Samples from beneath the gasoline USTs contained concentrations of total petroleum hydrocarbons as gasoline (TPH-g) from non-detection to 11 parts per million (ppm) and non-detection concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX). Concentrations of total petroleum hydrocarbons as diesel (TPH-d) were non-detect in the samples collected from below the diesel UST. The soil samples collected from beneath the waste oil tank contained reportable concentrations of TPH-g, metals, and 1,1-dichloroethene (1,1-DCE) and were non-detect for all other constituents analyzed (KEI, 1990).

November 16, 1989: Six sidewall soil samples (SW-1 through SW-6) and a grab groundwater sample were collected from the fuel UST. Samples SW-1 and SW-4 contained TPH-g concentrations of 140 ppm and 160 ppm, respectively. TPH-d was detected at a concentration of 24 ppm in sample SW-4 (KEI, 1990).

December 22, 1989: Eight sidewall soil samples (SW-1 (17), SW-2 (17), SW-3 (17), and SW-7 through SW-11) were collected after additional excavation of the UST pits. Maximum reported TPH-g concentrations were 1,500 ppm and 1,900 ppm (KEI).

January 18 and 19, 1990: Three 2-inch diameter monitoring wells (MW-1 through MW-3) were installed onsite (KEI, 1990).

February 14, 1990: Three soil samples (P1 through P3) were collected from the product pipeline trenches. Low to non-detect concentration of TPH-g and BTEX were detected with a maximum TPH-g concentration of 87 ppm (KEI, 1990).

March 9, 1990: Three sidewall samples (SW-B, SW-C, SW-D) were collected from the sidewalls of the waste oil UST pit. Low to non-detect concentrations of TPH-g and BTEX were detected with a maximum TPH-g concentration of 37 ppm (KEI, 1990).

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April 24 and 25, 1990: Eight exploratory soil borings (EB-1 through EB-8) were drilled and soil samples collected. The borings were backfilled with neat cement. Low to non-detect concentrations of TPH-g and BTEX were detected with a maximum TPH-g concentration of 5 ppm (KEI, 1991).

August 13, 1990: Two 2-inch monitoring wells (MW4, MW-5) were installed. Soil samples from the monitoring wells pilot borings contained non-detect concentrations of TPHg and BTEX in all samples. Benzene was detected at a maximum concentration of 3.2 ppb (KEI, 1990).

June 15, 1993: Monitoring wells MW-1 through MW-5 were destroyed by KEI.

June 7, 2001: Gettler-Ryan Inc (GR) observed the removal of one hydraulic hoist from the site. A soil sample from 8.5 feet below ground surface (bgs) was reported to contain 1,200 milligrams per kilograms (mg/kg) total petroleum hydrocarbons as hydraulic fluid (TPH-hf) (GR, 2001).

October 2003: Site environmental consulting responsibilities were transferred to TRC.

January 24, 25, and 31, 2005: TRC conducted a Baseline Assessment which involved the advancement of six direct-push borings (SB-1 through SB-6) to assess the presence of hydrocarbon affected soil and groundwater beneath the site. TPH-g was detected in two soil samples at a maximum concentration of 480 ppm in SB-1 at a depth of 8 feet bgs. Methyl tert butyl ether (MTBE) was detected in two soil samples at a maximum concentration of 0.11 ppm in SB-3 at a depth of 18 feet bgs. MTBE was detected in three of the four grab groundwater samples at a maximum concentration of 87 ppb in boring SB-1.

May 2007: TRC conducted an additional site assessment using Cone Penetrometer Test (CPT) equipment advancing CPT borings CPT-1, CPT-2, CPT-4, and CPT-5 onsite to depths of up to 55 feet bgs. TPH-d was detected in groundwater samples collected in all four borings, with a maximum concentration of 800 micrograms per liter ($\mu\text{g/L}$) in the groundwater sample collected from CPT-4. MTBE was in three of four borings with a maximum of 10 $\mu\text{g/L}$ detected in CPT-4. TBA was detected only in CPT-2 at a maximum of 54 $\mu\text{g/L}$. No other analytes were detected during this investigation.

1.2 SENSITIVE RECEPTORS

January 31, 2006: TRC completed a sensitive receptor survey for the site. No wells or water bodies identified during the survey are believed to be near enough to the site or in the direct path of groundwater flow from the site to be considered sensitive receptors.

2.0 GROUNDWATER MONITORING AND SAMPLING

There is currently no groundwater monitoring and sampling program for this site.

3.0 REMEDATION STATUS

There has been no remediation action taken at this site.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This site is currently being considered for closure.

5.0 RECENT CORRESPONDENCE

There has been no recent correspondence.

6.0 FOURTH QUARTER 2010 ACTIVITIES

- No monitoring and sampling was performed at this site.

7.0 FIRST QUARTER 2011 PLANNED ACTIVITIES

- No monitoring and sampling is scheduled.

8.0 LIMITATIONS

The descriptions, conclusions, and recommendations contained in this report represent Antea Group's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. For any reports cited that were not generated by Antea Group, the data from those reports is used "as is" and is assumed to be accurate. Antea Group does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. This report is based upon a specific scope of work requested by the client. The Contract between Antea Group and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were conducted. This report is intended only for the use of Antea Group 's Client and anyone else specifically listed on this report. Antea Group will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea Group makes no express or implied warranty as to the contents of this report.

If you have any questions, please do not hesitate to contact Jim Barnard at (916) 503-1279.

CONSULTANT: **ANTEA GROUP**