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Alameda County  
Environmental Health



76 Broadway  
Sacramento, California 95818

August 3, 2009

Barbara Jakub  
Alameda County Health Agency  
1131 Harbor Bay parkway, Suite250  
Alameda, California 94502-577

Re: **Quarterly Status Report—Second Quarter 2009**  
**76 Service Station # 3072 RO # 02968**  
**2445 Castro Valley Road**  
**Castro Valley, CA**

Dear Ms. Jakub:

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

If you have any questions or need additional information, please call me at (916) 558-7666.

Sincerely,

A handwritten signature in black ink, appearing to read "Terry L. Grayson", written over a large, horizontal oval scribble.

Terry L. Grayson  
Site Manager  
Risk Management & Remediation

August 3, 2009

Mr. Barbara Jakub  
Alameda County Health Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway  
Alameda, California 94502-6577

**Re: Quarterly Summary Report – Second Quarter 2009**

76 Service Station No. 3072  
2445 Castro Valley Rd  
Castro Valley, California  
RO# 2968  
AOC 1154



Dear Ms. Jakub,

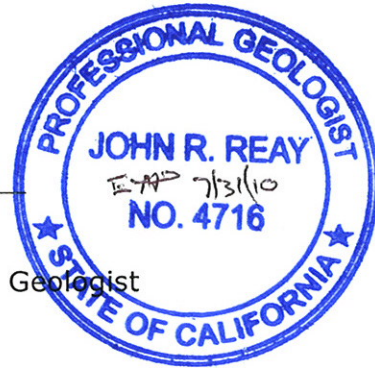
On behalf of ConocoPhillips Company (ConocoPhillips), Delta Consultants (Delta) is submitting the subject report for the above site.

Please contact John Reay at (916) 503-1260 if you have questions.

Sincerely,  
**Delta Consultants**

A handwritten signature in blue ink, appearing to read "John Reay", written over a horizontal line.

John Reay, P.G.  
Senior Project Manager  
California Registered Professional Geologist



A handwritten signature in blue ink, appearing to read "Alan Buehler", written over a horizontal line.

Alan Buehler  
Staff Geologist

Enclosure

cc: Mr. Terry Grayson– ConocoPhillips (electronic copy only)

## QUARTERLY STATUS REPORT Second Quarter 2009

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

County: Alameda

### SITE DESCRIPTION

The general site location is at the intersection of Castro Valley Boulevard and Stoneridge Avenue in Castro Valley, California, as shown on the Vicinity Map (Figure 1). The Site Map (Figure 2) illustrates the location of the current 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 oriented perpendicularly. The other island is southeast of, and parallel to the USTs.

### SITE BACKGROUND AND ACTIVITY

November 1989 through February 1990: Three 10,000 gallon underground storage tanks (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), 1991).

November 14, 1989: Six soil samples (A1, A2, B1, B2, C1, and 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-detect to 11 parts per million (ppm) and non-detect concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX). Concentrations of total petroleum hydrocarbons as diesel (TPH-d) were non-detect in the sample 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), 1991).

November 16, 1989: Six sidewall soil samples (SW1 through SW6) and a grab water sample were collected from the fuel UST. Samples SW1 and SW4 contained TPH-g concentrations of 140 ppm and 160 ppm, respectively. TPH-d was detected at a concentration of 24 ppm in sample SW4 (KEI), 1991).

December 22, 1989: Eight soil sidewall samples (SW1 (17), SW2 (17), SW7 through SW11, and SW3 (17)) were collected after additional excavation of the UST pits. Maximum reported TPH-g concentrations were 1,500 ppm and 1,900 ppm (KEI), 1991).

January 18 and 19, 1990: Three 2-inch diameter monitoring wells (MW1, MW2, and MW3) were installed onsite (KEI), 1991).

February 14, 1990: Three soil samples (P1, P2, and P3) were collected from the product pipeline trenches. Low to non-detect concentrations of TPH-g and BTEX were detected with a maximum TPH-g concentration of 87 ppm (KEI), 1991).

March 9, 1990: Three sidewall soil samples (SWB, SWC, and SWD) 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), 1991).

April 24 and 25, 1990: Eight exploratory soil borings (EB1 through EB8) were drilled and soil sampled 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).

June 15, 1993: Monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 were destroyed by KEI.

August 13, 1990: Two 2-inch monitoring wells (MW4 and MW5) were installed. Soil samples from the monitoring well pilot borings contained non-detect concentrations of TPH-g and BTEX in all samples. Benzene was detected at a maximum concentration of 3.2 ppb (KEI), 1991).

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

January 24, 25 and 31, 2005: TRC conducted a Baseline Site Assessment (TRC, 2005) 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. TPPH was detected in two soil samples at a maximum concentration of 480 ppm in SB-1 at a depth of 8 fbg. MTBE was detected in two soil samples at a maximum concentration of 0.11 ppm in SB-3 at a depth of 18 fbg. MTBE was detected in three of the four grab groundwater samples at a maximum concentration of 87 ppb in boring SB-1.

## **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.

## **GROUNDWATER MONITORING AND SAMPLING**

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

## **REMEDIATION STATUS**

There has been no remediation action at this site.

## **RECENT CORRESPONDENCE**

There has been no recent correspondence.

**THIS QUARTER ACTIVITIES (Second Quarter 2009)**

- No monitoring and sampling was preformed for this site.

**NEXT QUARTER ACTIVITIES (Third Quarter 2009)**

- No monitoring or sampling is scheduled.
- Delta will implement field activities according to *Work Plan for Delineation of Two Potential Water-Bearing Zones (1/14/09)* upon receipt of agency approval.

**CONSULTANT: Delta Consultants**