



76 Broadway
Sacramento, California 95818

April 28, 2006

Mr. Don Hwang
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: **Report Transmittal
Quarterly Report
First Quarter – 2006
76 Service Station# 4625
3070 Fruitvale
Oakland, CA**

Dear Mr. Hwang:

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 contact

Shelby S. Lathrop (Contractor)
ConocoPhillips
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818
Phone: 916-558-7609
Fax: 916-558-7639

Sincerely,

Thomas Kosel
Risk Management & Remediation

Attachment

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10:41 am, Apr 22, 2009

Alameda County
Environmental Health



Customer-Focused Solutions

April 28, 2006

TRC Project No. 42014507

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

**RE: Quarterly Status Report - First Quarter 2006
76 Service Station #4625
3070 Fruitvale Avenue, Oakland, California
Alameda County**

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC is submitting the First Quarter 2006 Status Report for the subject site. The site is currently an active service station located on the southeast corner of Fruitvale Avenue and School Street in Oakland, California.

PREVIOUS ASSESSMENTS

April/May 1998: The gasoline underground storage tanks (USTs), product piping and dispensers were removed and replaced. Concentrations of total petroleum hydrocarbons as gasoline (TPH-g), benzene, and methyl tertiary butyl ether (MTBE) ranged from non-detect to moderate levels.

May 1998: A waste oil UST and associated piping was also removed. Concentrations of TPH-g, benzene, total petroleum hydrocarbons as diesel (TPH-d), total oil and grease (TOG), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals ranged from non-detect to moderate levels.

A total of approximately 1,166 tons of soil were over excavated and transported from the site to Allied Waste's Forward Landfill in Manteca, California. Additionally, 40,000 gallons of groundwater were pumped from the UST pit and transported to the Tosco Refinery in Rodeo, California for disposal. A conductor casing was installed in the backfill during installation of the replacement gasoline USTs. The waste oil tank was replaced with an aboveground tank.

April 2000: Four monitoring wells were installed at the site.

May 2003: Two monitoring wells were installed to 25 feet below ground surface (bgs) and two exploratory borings were advanced to approximately 15 feet bgs. Soil samples contained low maximum levels of benzene, MTBE, and tertiary butyl alcohol (TBA), and moderate levels of TPH-g. Grab groundwater samples collected from the two soil borings were reported to contain elevated concentrations of petroleum hydrocarbons in both samples.

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

February 27 – March 3, 2006: TRC conducted a hydropunch groundwater investigation at the site which involved the advancement of two onsite and five offsite hydropunch borings using a cone penetrometer testing (CPT) rig.

SENSITIVE RECEPTORS

An irrigation well is located 1,700 feet south-southeast of the site.

MONITORING AND SAMPLING

Currently, seven onsite wells are monitored and six of the seven wells are sampled quarterly. All seven wells were gauged and six wells sampled during the first quarter 2006. The groundwater flow is toward the southwest at a calculated hydraulic gradient of 0.03 feet per foot. A graph of historical groundwater flow directions is included in this report.

CHARACTERIZATION STATUS

The plume is not currently defined to the southwest and west. Total purgeable petroleum hydrocarbons (TPPH) were detected in five of the six wells sampled at a maximum concentration of 7,100 micrograms per liter ($\mu\text{g/l}$) in well MW-5. Benzene was detected in four of the six wells sampled at a maximum concentration of 520 $\mu\text{g/l}$ in well MW-5. MTBE was detected in five of the six wells sampled at a maximum concentration of 680 $\mu\text{g/l}$ in well MW-5.

REMEDIATION STATUS

May 1998: A total of approximately 1,166 tons of soil generated during replacement of Fuel and waste oil USTs were over excavated and transported from the site to Allied Waste's Forward Landfill in Manteca, California. Additionally, 40,000 gallons of groundwater were pumped from the UST pit and transported to the Tosco Refinery in Rodeo, California for disposal.

Remediation is not currently being conducted at the site.

RECENT CORRESPONDENCE

December 16, 2005: The ACHCS approved the November 3, 2005 Revised Additional Groundwater Investigation Work Plan with a Technical Report Request date of February 16, 2006.

December 21, 2005: TRC requested an extension, via email, from the ACHCS for submittal of Additional Groundwater Investigation Report. The original submittal deadline of February 16, 2005 requested in the December 16, 2005 approval letter did not allow sufficient time to implement the approved scope of work. The ACHCS approved our request for extension, via email, and concurred with our recommendation for an April 16, 2006 submittal deadline.

April 14, 2006: TRC submitted a Hydropunch Groundwater Investigation Report for additional site assessment per the December 16, 2005 ACHCS request and approved extension.

CURRENT QUARTER ACTIVITIES

March 29, 2006: TRC performed groundwater monitoring and sampling. Wastewater generated from well purging and equipment cleaning was stored at TRC's groundwater monitoring facility in Concord, California, and transported by Onyx to the ConocoPhillips Refinery in Rodeo, California, for treatment and disposal.

February 27 – March 3, 2006: TRC conducted a hydropunch groundwater investigation at the site to 1) characterize the downgradient and vertical extent of dissolved-phase hydrocarbons in the shallow water-bearing zone, and 2) assess the potential impacts to deeper water-bearing zones beneath and downgradient from the site, if present.

CONCLUSIONS AND RECOMMENDATIONS

TRC recommends continuing quarterly monitoring and sampling to assess plume stability and concentration trends at key wells.

Based on the results of the recent hydropunch groundwater investigation, TRC recommends installation of one onsite monitoring well within the deeper zone to confirm the presence of groundwater impacts to the deeper zone onsite and installation of two offsite monitoring wells within the shallow water-bearing zone to provide future downgradient monitoring within the shallow water-bearing zone.

If you have any questions regarding this report, please call me at (925) 688-2488.

Sincerely,
TRC



Keith Woodburne, P.G.
Senior Project Geologist



Attachments:

Quarterly Monitoring Report – January through March 2006 (TRC, April 28, 2006)
Historical Groundwater Flow Directions – July 2000 through December 2005

cc: Shelby Lathrop, ConocoPhillips (electronic upload)