



California Regional Water Quality Control Board

Los Angeles Region



Linda S. Adams
Agency Secretary

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

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Arnold Schwarzenegger
Governor

November 30, 2006

Ms. Shari London
ConocoPhillips Company
P.O. Box 25376
Santa Ana, CA 92799-5376

Dear Ms. London:

GENERAL WASTE DISCHARGE REQUIREMENTS FOR INJECTION OF OZONE IN GROUNDWATER AT PETROLEUM HYDROCARBON FUEL AND/OR VOLATILE ORGANIC COMPOUND IMPACTED SITES – 76 STATION NO. 3692, 19271 SHERMAN WAY, RESEDA, CALIFORNIA (FILE NO. 06-203, CI-9185, SERIES NO. 059); (UST CASE NO. 913350770)

We have completed our review of your application for coverage under General Waste Discharge Requirements to inject ozone into groundwater at the subject site (the Site). The purpose of the injection of ozone is to remediate fuel constituents present in the groundwater beneath the Site in order to minimize the threat to underlying aquifers.

ConocoPhillips Company (hereinafter Discharger) owns the Site located at 19271 Sherman Way, Reseda, California. The Site is an active gasoline service station located at the northeast corner of the intersection of Sherman Way and Tampa Avenue. The station maintains two 12,000-gallon gasoline underground storage tanks (USTs). The surrounding land uses are primarily residential and commercial properties.

The Site lies within the Upper Los Angeles River Area (ULARA) in the southwestern portion of the San Fernando Basin. The near surface sediments at the site consist of interbedded clay, silt and sand to a depth of approximately 31.5 feet below ground surface (bgs).

In 1989, three gasoline USTs were removed from the Site and replaced with two new USTs. Between May 1989 and June 2005, numerous soil borings were advanced and seventeen groundwater monitoring wells were installed to define the extent of soil and groundwater contamination beneath the Site.

Site investigations indicate that soil and groundwater beneath the Site have been impacted with fuel constituents. For example, maximum concentrations of TPHg, benzene, and MTBE detected in soil during the investigations were 6,800; 47; and 27 mg/kg, respectively.

Quarterly groundwater monitoring has been conducted at the Site since June 1992. Historically, up to 261,000 µg/L of TPHg, 40,000 µg/L of benzene, 140,000 µg/L of MTBE and 360,000 µg/L of TBA. In April 2006, up to 70,000 µg/L of TPHg, 22,000 µg/L of benzene, 4,600 µg/L of MTBE and 130,000 µg/L of TBA were detected in the groundwater. Groundwater is approximately 8 feet bgs and the overall groundwater flow direction is toward the southeast.

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Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

Between December 1999 and March 2004, several episodes of high vacuum dual-phase extraction (HVDPE), soil vapor extraction (SVE), and air sparge (AS) tests were conducted at the Site to evaluate the effectiveness of the methods. The SVE tests were conducted using wells VW-1, BC-6, BC-7, MW-16 and MW-17. The air sparge test was conducted using well AS-1. Approximately 4,900 gallons of petroleum hydrocarbon affected groundwater were extracted and approximately 443 pounds of petroleum hydrocarbons were recovered by the HVDPE.

Based on the pilot tests results, the Discharger concluded that C-sparging (ozone injection into the groundwater) in conjunction with SVE appears to be the most viable remedial alternatives to mitigate soil and groundwater beneath the Site. In a Remedial Action Plan (RAP) dated August 3, 2004, the Discharger proposed to implement the SVE and inject ozone and oxygen into the groundwater for soil and groundwater remediation at the Site. Regional Board staff approved the RAP in a letter dated September 13, 2004. On April 7, 2006, the Discharger submitted an application of waste discharge requirement for the C-sparge system.

Regional Board staff has reviewed the information provided and determined that the proposed discharge meets the conditions specified in Order No. R4-2005-0030, *"Revised General Waste Discharge Requirements for Groundwater Remediation at Petroleum Hydrocarbon Fuel and/or Volatile Organic Compound Impacted Sites,"* adopted by this Regional Board on May 5, 2005.

Enclosed are your Waste Discharge Requirements, consisting of Regional Board Order No. R4-2005-0030, Monitoring and Reporting Program No. CI-9185, and Standard Provisions.

The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of this enrollment under Regional Board Order No. R4-2005-0030. All monitoring reports shall be sent to the Regional Board, ATTN: Information Technology Unit.

When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to Compliance File No. CI-9185, which will assure that the reports are directed to the appropriate file and staff. Do not combine other reports with your monitoring reports. Submit each type of report as a separate document.

We are sending a copy of Order No. R4-2005-0030 only to the applicant. A copy of the Order will be furnished to anyone who requests it.

If you have any questions, please contact Mr. Rodney Nelson at (213) 620-6119. Questions regarding the underground storage tank issues should be forwarded to Chandra Cansler at (213) 576-6701.

Sincerely,

Jonathan S. Bishop
Executive Officer

California Environmental Protection Agency



Enclosures: 1. Board Order No. R4-2005-0030
2. Monitoring and Reporting Program No. CI-9185
3. Standard Provisions

Cc: Yvonne Shanks, State Water Resources Control Board, UST Cleanup Fund
Tim Smith, Los Angeles County Department of Public Works, Envr. Programs
Nancy Matsumoto, Water Replenishment District of Southern California
Mark Stewart, Central Basin Watermaster, California Department of Water Resources
Matthew Carfagno, Orion Environmental, Inc.
John Nordenstam, TRC Environmental, Inc.
Offsite Owners: Charles Johnson and Norma Jean Johnson, c/o Irvin B. Shurach,
Jewish Homes for the Aging, 7150 Tampa Avenue, Reseda, CA 91335
Offsite Owners: Mr. & Mrs. Telesforo Gonzalez, 6605 Forbes Ave., Van Nuys, CA 91408
Offsite Owners: Walter & Lan Hambright, 19231 Sherman Way, #2, Reseda, CA 91335
Offsite Owners: Mr. & Mrs. Raoul Rizik, 19231 Sherman Way, #3, Reseda, CA 91335

