



California Regional Water Quality Control Board

Los Angeles Region



Alan C. Lloyd, Ph.D.
Agency Secretary

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

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Arnold Schwarzenegger
Governor

April 21, 2006

Mr. Dan Truzzolino
ConocoPhillips Company
P.O. Box 25376
Santa Ana, CA 92799-5376

**GENERAL WASTE DISCHARGE REQUIREMENTS COVERAGE FOR PROPOSED OZONE SPARGING TO GROUNDWATER (ORDER NO. R4-2005-0030) (SERIES NO. 040)
76 STATION NO. 1065, 1157 WEST GAYLEY AVENUE, LOS ANGELES, CA (ID# 900240034)
(CI NO. 9061)**

Dear Mr. Truzzolino:

We have received the document entitled "Feasibility and Testing Report," dated August 22, 2002, submitted by TRC Alton Geoscience (TRC), on behalf of ConocoPhillips company (ConocoPhillips), to clean up the hydrocarbons and methyl tertiary butyl ether (MTBE) contamination at the subject site.

The site is currently used as a 76 gasoline station. The station currently maintains two 12,000-gallon gasoline underground storage tanks (USTs) and a 500-gallon waste-oil tank with associated dispensers and product lines. As a result of leaks from former USTs, the groundwater is impacted with petroleum hydrocarbons and MTBE. Liquid phase hydrocarbon (LPH) was first observed in well MW-4 in August 1999 at a thickness of 0.13 feet. LPH has not been detected since Fourth Quarter 2005. Petroleum hydrocarbons and MTBE plumes is located in the area occupied by the current USTs and dispenser islands.

A total of 8 groundwater monitoring wells have been installed at the site (Figure 2). Laboratory analytical results of groundwater samples collected from onsite wells in the Fourth Quarter 2005 indicated that maximum concentrations of TPH-g, benzene, and MTBE were 13,000 µg/L, 660 µg/L, and 5,900 µg/L, respectively.

In August 2002, TRC submitted a Feasibility and Testing Report to the Regional Board. The Feasibility and Testing Report proposes to conduct a one-month feasibility test using C-Sparge™ to remediate the dissolved-phase petroleum hydrocarbon plume beneath the site. The C-Sparge™ technology combines low-flow air sparging with ozonation to oxidize petroleum hydrocarbons into benign byproducts, carbon dioxide (CO₂) and water (H₂O). Ozone is generated onsite using a control panel with built-in compressor and ozone generator. The Feasibility and Testing Report proposes to install up to 10 sparge points onsite within the dissolved-phase plume (Figure 3). Regional Board staff have reviewed and approved the Feasibility and Testing Report on January 28, 2003, with conditions that free product must be completely removed prior to implementation. By the First Quarter of 2006, the site has met this condition.

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ConocoPhillips Company

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Regional Board staff have determined that the proposed discharge meets the conditions specified in Regional Board Order No. R4-2005-0030, "*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 Waste Discharge Requirements, Order No. R4-2005-0030, and Monitoring and Reporting Program No. CI-9061.

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. Your first monitoring report is due to this Board two months after the injection. All monitoring reports should 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-9061," which will assure that the reports are directed to the appropriate file and staff. Also, please 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.

Sincerely,

Jonathan A. Bishop
Executive Officer

Enclosures

Board Order No. R4-2005-0030
Monitoring and Reporting Program No. CI-9061

Cc: Yvonne Shanks, State Water Resources Control Board, Underground
Storage Tank Cleanup Fund(w/o Board Order No. R4-2005-0030)
John Cooper, TRC Alton Geoscience

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