



# 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

August 15, 2005

Mr. Michael Mulhern  
City of Los Angeles Department of Public Works  
650 South Spring Dr #600  
Lynwood, CA 90014

Dear Mr. Mulhern:

**GENERAL WASTE DISCHARGE REQUIREMENTS FOR OXYGEN RELEASE COMPOUND (ORC) INJECTION FOR GROUNDWATER CLEANUP AT PETROLEUM HYDROCARBON FUEL AND/OR VOLATILE ORGANIC COMPOUND IMPACTED SITES – WEST VALLEY POLICE STATION, 19020 VANOWEN STREET, RESEDA (FILE NO. 913350816A) (ORDER NO. R4-2005-0030, SERIES NO. 024; CI NO. 8937)**

We have completed our review of your application for coverage under General Waste Discharge Requirements to inject non-hazardous Oxygen Release Compound (ORC) at the site referenced above in Reseda, California for groundwater cleanup and remediation.

In 1999, three underground storage tanks (USTs) were removed from the subject site. Groundwater monitoring conducted had indicated high levels of TPH-gasoline, benzene and MTBE (historically up to 19,000 µg/L, 5,300 µg/L and 8,400 µg/L respectively).

A leak detection investigation was performed at the site in February 1993, which consisted of drilling and sampling eight soil borings and installing vadose zone monitoring wells. A total of 4 monitoring wells have been installed at the site to characterize the groundwater contaminant plume. The monitoring well installation revealed that a localized area of deeper heavily contaminated soil is still present beneath the subject property. MTBE has been detected in groundwater samples collected from all of the four monitoring wells.

A letter dated March 14, 2003 from this Regional Water Quality Control Board approved an Interim Remedial Action Plan to inject Oxygen Release Compound (ORC) slurry for in-situ treatment of soil and groundwater. ORC is used to enhance intrinsic bioremediation involving the addition of oxygen to the subsurface environment to accelerate the natural degradation process. The remedial objectives for the site are to reduce BTEX and MTBE concentrations in groundwater. The City of Los Angeles has evaluated the use of ORC for remediation of groundwater at the site and plans the injection of ORC throughout a 55-foot by 30-foot treatment area on 8-foot grid spacing. The dose rate would be 3.0 pounds per vertical foot. Geoprobe direct-push drilling equipment will be used to inject ORC at approximately 28 locations in the vicinity of well MW-2. Approximately 30 pounds of ORC will be injected at each location. Therefore, the total amount of ORC that will be injected at the site is approximately 840 pounds. Upon completing each injection, the boreholes will be backfilled with concrete and/or bentonite.

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Regional Board staff has 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 (General WDRs)*," adopted by the State Water Resources Control Board on April 19, 2005.

Enclosed are your Waste Discharge Requirements, consisting of General WDRs Board Order No. 2005-00030 and Monitoring and Reporting Program No. CI-8937 and Standard Provisions.

The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of this enrollment (June 14, 2005) under Regional Board Order No. R4-2005-00030. 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-8937, 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. R4-2005-00030 only to the applicant. A copy of the Order will be furnished to anyone who requests it, or on line at :

[http://www.waterboards.ca.gov/losangeles/html/permits/gen\\_orders/R4-2005-0030/R4-2005-0030.pdf](http://www.waterboards.ca.gov/losangeles/html/permits/gen_orders/R4-2005-0030/R4-2005-0030.pdf)

If you have any questions, please contact Mr. Rod Nelson at (213) 576-6119.

Sincerely,

Jonathan S. Bishop  
Executive Officer

Enclosures: 1. Board Order No. 2005-00030  
2. Monitoring and Reporting Program No. CI-8914

cc: Mr. Richard N. Stout, URS  
Mr. Mark Makauski, ULARA Watermaster

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