

**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
320 West 4th Street, Suite 200, Los Angeles, California 90013**

**FACT SHEET
WASTE DISCHARGE REQUIREMENTS
FOR
M&H REALTY PARTNERS III, L.P.
ONE HOUR MARTINIZING – LAKEWOOD SQUARE**

**ORDER NO. R4-2002-0030 (SERIES NO. 001)
CI-8401, SLIC NO. 737**

FACILITY ADDRESS

One Hour Martinizing
Lakewood Square, Lakewood and Hardwick St.
Lakewood, CA 91702

FACILITY MAILING ADDRESS

1721 W. Imperial Highway, Suite G
La Habra, CA 90631

PROJECT DESCRIPTION:

M&H Realty Partners III, L.P., currently owns and manages the Lakewood Square, a small shopping center, at Lakewood Street and Hardwick Street in the City of Lakewood. One Hour Martinizing is a dry cleaners business which currently leases their store area in the Lakewood Square from M&H Realty Partners. Because of groundwater contamination caused by leaks of dry cleaning solvents from One Hour Martinizing, this Regional Board required an investigation and a Remedial Action Plan from M&H Realty. M&H Realty (MH), in the RAP approved by this Regional Board, proposes to inject Hydrogen Release Compound (HRC™) to groundwater at the subject site for use in in-situ bioremediation to address the volatile organic compounds (VOCs) in groundwater. HRC has a considerable history of being utilized successfully in California in similar projects and is expected to be widely used in future remediation efforts. Subsequently, this technology has been included for the General Permit (Board Order No. R4-2002-0030). The main plume extends over an area of approximately 270 feet by 520 feet. The groundwater plume is primarily contained within the shallow groundwater aquifer zone within the 25 feet to 50 foot depth. This groundwater unit is composed of recent alluvium of interbedded clays, silts, and sands and is underlain by the Bellflower Aquiclude.

VOLUME AND DESCRIPTION OF DISCHARGE (INJECTION):

The HRC is introduced to the aquifer underlying the site. HRC is a proprietary, environmentally safe polylactate ester specially formulated for slow release of lactic acid upon hydration. When placed in a contaminated aquifer, HRC stimulates a multi-step process resulting in the degradation of chlorinated solvents and their derivatives. Because of its consistent slow release of hydrogen, HRC stimulates rapid and complete dechlorination of chlorinated solvents resulting in non-toxic end products such as ethene.

A barrier system consisting of 8 barriers injection rows with approximately 54 injection points total, is proposed for the One Hour Martinizing site (refer to Figure 1). HRC is a viscous liquid with the consistency of honey, and will be injected at the site by direct-push equipment. The injection rate per injection point is approximately 5 pounds of HRC product per vertical foot to the saturated zone, from approximately 25 to 50 feet below ground surface. Approximately 7,000 pounds of pure HRC, total, will be injected at the site. At this point, it is expected that a one-time injection should be adequate to remediate the plume. The migration of the HRC and products is expected to travel with groundwater up to approximately 50 feet per year. After one year, it is expected that the in-situ bioremediation and VOC dechlorination will be complete, that the HRC product and its substrates will have been metabolized, without any degradation associated with the groundwater.

The injection activities are expected to start on May 28, 2002. Any potential adverse water quality impacts that may result will be localized, of short-term duration, and will not impact any existing or prospective uses of groundwater. Groundwater quality will be monitored to verify no long-term adverse impact to water quality. There may be small increases associated with soluble gases such as methane, ethane, ethene, and carbon dioxide. The One Hour Martinizing site is located in the City of Lakewood at Latitude: N33° 51' 05", Longitude: W118° 8' 42". The quantities of HRC injected will be required to be documented per the Monitoring and Reporting Program No. 8401.

May 28, 2002