



California Regional Water Quality Control Board

Los Angeles Region

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Gray Davis
Governor

Winston H. Hickox
Secretary for
Environmental
Protection

July 11, 2003

Ms. Roxanne Taylor, Property Manager
Pacific West Asset Management
P.O. Box 19068
Irvine, CA 92623-9068

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
CLAIM NO. 7001 1140 0000 1126 8149

Dear Ms. Taylor:

GENERAL WASTE DISCHARGE REQUIREMENTS FOR GROUNDWATER REMEDIATION AT PETROLEUM HYDROCARBON FUEL AND/OR VOLATILE ORGANIC COMPOUND IMPACTED SITES – COUNTRY HILLS CLEANERS, 1155 SOUTH DIAMOND BAR BLVD., DIAMOND BAR, CALIFORNIA (SLIC FILE NO. 1001)

We have completed our review of your application for Waste Discharge Requirements to use Hydrogen Releasing Compound (HRC[®]) to remediate the volatile organic compounds (VOCs)-contaminated groundwater at the above referenced site.

Mr. Michael M. Drucker owns the property located at 1155 South Diamond Bar Boulevard in Diamond Bar. Mr. Drucker used to own and operate Country Hills Cleaners (CHC), a dry cleaning facility, until its closure in 2002. CHC terminated the dry cleaning operations at the site and removed all the dry cleaning equipment from the facility. The facility was converted to a laundry drop-off facility. The site lies in the Main San Gabriel Basin of San Gabriel Valley of Los Angeles County. The discharge point is at 117° 48'37" longitude and 34°00'00" latitude.

CHC used perchloroethene (PCE) as the dry cleaning solvent for approximately 10 years when the dry cleaning place was in operation. Investigations conducted at the site between March 2001 and August 2002 identified PCE contamination related to the dry cleaning operations. A subsurface investigation in March 2001 showed that PCE was present in the soil at concentrations of 2,350 micrograms per kilogram (µg/kg) and 4,570 µg/kg. During groundwater sampling on April 29, 2002, PCE contamination was found in the groundwater at concentrations of 910 µg/L and 81 µg/L. No other volatile organic compounds were found in the soil or groundwater.

On June 12, 2003, the Los Angeles Regional Water Quality Control Board (Regional Board) approved a Remedial Action Plan to use HRC[®] to remediate the contaminated groundwater. HRC[®] is a patented formulation of polyactate ester that produces a slow release of lactic acid upon hydration. Bioremediation using HRC[®] is a multi-step process. Indigenous anaerobic microbes metabolize the lactic acid generated by HRC[®] releasing hydrogen. The resulting hydrogen metabolizes chlorinated hydrocarbons by a process called reductive chlorination. This process is used to treat chlorinated aliphatic hydrocarbons, such as PCE.

The remediation plan includes inoculating HRC[®] at 17 points in the immediate source area and downgradient from the source area. The injection points are shown in Figure 1. HRC[®] will be injected at pressure over 100 psi to achieve greater distribution of the product. The results will

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Ms. Roxanne Taylor
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be evaluated by comparing pre-treatment dissolved levels of PCE with the groundwater sampling after 6 months.

Regional Board staff have reviewed the information provided and have determined that the proposed discharge meets the conditions specified in Order No. R4-2002-0030, "*General Waste Discharge Requirements for Groundwater Remediation at Petroleum Hydrocarbon Fuel and/or Volatile Organic Compound Impacted Sites*," adopted by this Regional Board on January 24, 2002.

Enclosed are your Waste Discharge Requirements, consisting of Regional Board Order No. R4-2002-0030 (Series No. 029) and Monitoring and Reporting Program No. CI-8604.

The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of this enrollment (July 11, 2003) under Regional Board Order No. R4-2002-0030. 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, include a reference to No. CI-8604, 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. R4-2002-0030 only to the applicant. A copy of the Order will be furnished to anyone who requests it.

If you have any additional questions, please contact Ms. Dionisia Rodriguez at (213) 620-6122.

Sincerely,

Dennis A. Dickerson
Executive Officer

Enclosures:

1. Board Order No. R4-2002-0030
2. Monitoring and Reporting Program No. CI-8604
3. Standard Provisions Applicable to Waste Discharge Requirements (addressee only)

cc: Mr. Robert Sams, Office of Chief Counsel, State Water Resources Control Board
Mr. Michael Lauffer, Office of Chief Counsel, State Water Resources Control Board
Ms. Jenny Au, Los Angeles Regional Water Quality Control Board
Mr. Steven Collins, Centec Engineering

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