



California Regional Water Quality Control Board

Los Angeles Region



Winston H. Hickox
Secretary for
Environmental
Protection

Over 50 Years Serving Coastal Los Angeles and Ventura Counties
Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Gray Davis
Governor

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: <http://www.swrcb.ca.gov/rwqcb4>

June 12, 2003

Mr. Mark Bixby
Bixby Land Company
4525 Atherton Street
Long Beach, CA 90815

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
CLAIM NO. 7002 2410 0006 3316 4548

Dear Mr. Bixby:

GENERAL WASTE DISCHARGE REQUIREMENTS FOR GROUNDWATER REMEDIATION AT PETROLEUM HYDROCARBON FUEL AND/OR VOLATILE ORGANIC COMPOUND IMPACTED SITES – BIXBY LAND COMPANY, 5090 LOS COYOTES DIAGONAL, LONG BEACH, CALIFORNIA (FILE NO. 908150116)

We have completed our review of your application for Waste Discharge Requirements to use Oxygen Release Compound (ORC[®]) to remediate the petroleum-contaminated groundwater at the subject site.

Bixby Land Company owns the property located at 5090 Los Coyotes Diagonal in Long Beach. A Union 76 gasoline station formerly occupied the site, which is now vacant. The site lies in the West Coast Basin of the coastal plain of Los Angeles County. The discharge point lies 118°8'3" longitude and 33°47'44" latitude.

A subsurface soil investigation found ethylbenzene, naphtalene, trimethylbenzene and methyl tertiary butyl ether (MTBE) in soil samples collected from a depth of 20 feet, but no residual contamination is present in the soil column above the groundwater table. Groundwater contamination related to the activities of the former gasoline station is found on the site. Gasoline, benzene, toluene, ethylbenzene, xylene (BTEX) and MTBE impact groundwater underneath the site.

The Los Angeles Regional Water Quality Control Board approved the Remedial Action Plan to use ORC[®] to remediate the contaminated groundwater. ORC[®] is a patented formulation of magnesium peroxide that produces a sustained release of molecular oxygen when in contact with the groundwater. This aids the naturally occurring aerobic microorganisms to degrade pollutants, such as gasoline, BTEX and MTBE, to harmless by-products of carbon dioxide and water.

The treatment area encompasses about 1,600 square feet and targets MW1258 and MW1260, which have historically contained the highest concentrations of gasoline and MTBE. The dose rate is 162-216 pounds ORC[®] per injection point. ORC[®] will be injected into 16 different locations as shown in Figure 1.

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

California Environmental Protection Agency

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption
For a list of simple ways to reduce demand and cut your energy costs, see the tips at: <http://www.swrcb.ca.gov/news/echallenge.html>



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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.

Mr. Mark Bixby
Bixby Land Company

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June 12, 2003

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. 023) and Monitoring and Reporting Program No. CI-8572.

The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of this enrollment (June 12, 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-8572, 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-8572
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
Mr. Tim Smith, County of Los Angeles Department of Public Works, Environmental Programs Division, Underground Tanks
Mr. Hari Patel, State Water Resources Control Board, Underground Storage Tank Cleanup Fund
Mr. Bruce Mowry, Water Replenishment District of Southern California
Ms. Linda Norwood, Targhee, Inc.

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