



California Regional Water Quality Control Board

Los Angeles Region



Linda S. Adams
Cal/EPA Secretary

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Arnold Schwarzenegger
Governor

February 25, 2008

Mr. Frank R. Nix
Ms. Shirley A. Nix
6030 Oakdale Avenue
Woodland Hills, CA 91367

**GENERAL WASTE DISCHARGE REQUIREMENTS FOR GROUNDWATER CLEANUP AT
PETROLEUM HYDROCARBON FUEL, VOLATILE ORGANIC COMPOUND AND/OR
HEXAVALENT CHROMIUM IMPACTED SITES (ORDER NO. R4-2007-0019)
NIX AUTOMOTIVE, 20032 VENTURA BOULEVARD, WOODLAND HILLS, CALIFORNIA
(CI-9381, SERIES NO. 050); (UST FILE NO. 913640516)**

Dear Mr. and Ms. Nix:

We have completed our review of your application for coverage under General Waste Discharge Requirements (WDR) to inject hydrogen peroxide into groundwater at the subject site (the Site). The purpose of the injection is to mitigate fuel constituents present in the soil and groundwater beneath the Site in order to minimize the threat to the underlying aquifers.

Nix Automotive (hereinafter Discharger) owns and operates at the Site located at 20032 Ventura Boulevard, Woodland Hills. The Site is a former gasoline service station that contained five underground storage tanks (USTs) and two dispensers. The Site is currently used to repair and service vehicles. The site is surrounded by residential and commercial properties.

The Site is located within the San Fernando Valley Groundwater Basin. The subsurface lithology of the Site consists of clay, sand, silt and gravel to approximately 30 feet below ground surface (bgs), the maximum depth drilled at the Site

Site investigations conducted at the Site to date indicate that the soil and groundwater beneath the Site have been impacted with fuel constituents. Maximum concentrations of TPH_G, benzene, and MTBE detected in the soil were 7,007, 57.5, and 110 mg/kg, respectively.

Currently, there are thirteen groundwater monitoring wells onsite. Groundwater monitoring has been conducted since July 1997. Historically, up to 49,700 µg/L of TPH_G, 3,529 µg/L of benzene and 9,006 µg/L of MTBE were detected in the groundwater beneath the Site. During the last sampling event in December 2007, up to 1,040 µg/L of TPH_G, 69 µg/L of benzene and 12.8 µg/L of MTBE were detected in the groundwater. Depth to groundwater was measured at about 11 feet bgs and the groundwater flow direction was toward the north.

On November 13, 2007, Regional Board staff approved a remedial action plan (RAP) dated January 2, 2007, to mitigate the contaminated soil and groundwater beneath the Site by injecting hydrogen peroxide and Fenton's reaction (RegenOx) into the groundwater. The RegenOx is a sodium percarbonate/catalytic formulation.

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Mr. and Ms. Nix
Nix Automotive

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On December 10, 2007, the Discharger submitted a WDR application. In a revised remedial proposal contained in the WDR application, the Discharger proposed to inject only the catalyzed hydrogen peroxide into the groundwater, based on results of bench tests conducted at the Site. The revised remedial proposal is hereby approved with this directive.

A total of eleven injection wells will be installed to 20 feet bgs in the source area using a hollow stem auger drill rig. Approximately 7,100 gallons of catalyzed hydrogen peroxide will be injected into the injection wells at the Site. The hydrogen peroxide will be catalyzed by acidic ferrous iron solution. Approximately 133 pounds of ferrous sulfate and two gallons hydrochloric acid will be mixed into 55 gallons of water and injected into each well prior to the hydrogen peroxide injection. The hydrogen peroxide used for the remediation will not exceed 10%.

Based on our review, Regional Board staff has determined that the proposed discharge meets the conditions specified in Order No. R4-2007-0019, "Revised General Waste Discharge Requirements for Groundwater Remediation at Petroleum Hydrocarbon Fuel, Volatile Organic Compound and/or Hexavalent Chromium Impacted Sites" adopted by the Regional Board on March 1, 2007.

Enclosed are the Waste Discharge Requirements, consisting of Regional Board Order No. R4-2007-0019, Monitoring and Reporting Program No. CI-9381, and Standard Provisions.

The WDRs issued shall not be rescinded until Regional Board staff determines the WDRs are no-longer needed for the site cleanup.


The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of this enrollment under Regional Board Order No. R4-2007-0019. All monitoring reports shall be sent to the Regional Board, ATTN: Information Technology Unit.

When submitting monitoring or technical reports to the Regional Board, please reference Compliance File No. CI-9381 to assure that the reports are directed to the appropriate staff. Do not combine other reports with your monitoring reports complying with Order No. R4-2007-0019. Submit each type of report as a separate document.


We are sending a copy of Order No. R4-2007-0019 only to the applicant. A copy of the Order will be furnished to anyone who requests it. A copy of the Order can also be found online at: http://www.waterboards.ca.gov/losangeles/html/permits/gen_orders/R4-2007-0019/R4-2007-0019.pdf

If you have any questions, please contact Mr. Rodney Nelson at (213) 620-6119. Questions regarding the underground storage tank issues should be forwarded to Ms. Chandra Cansler at (213) 576-6782.

Sincerely,


Tracy J. Egoscue
Executive Officer

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Nix Automotive

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Enclosures: 1. Board Order No. R4-2007-0019
2. Monitoring and Reporting Program No. CI-9381
3. Standard Provisions

Cc: Yvonne Shanks, State Water Resources Control Board, UST Cleanup Fund
Nancy Matsumoto, Water Replenishment District of Southern California
Captain Matthew Gatewood, City of Los Angeles Department, Underground Tanks
Frank Comfort, City of Los Angeles Fire Department, Underground Tanks
Eloy Luna, City of Los Angeles Fire Department, Underground Tanks
Emma Middlemiss, EAR, Inc.

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