

## **PUBLIC NOTICE**

**California Regional Water Quality Control Board  
North Coast Region  
5550 Skylane Boulevard, Suite A  
Santa Rosa, California 95403**

Notice of Proposed  
Addition of Hydrogen Peroxide and Citric Acid to groundwater  
Under  
General Waste Discharge Requirements R1-2004-0020  
By  
S&H Auto  
At  
3028 Alliance Road  
Arcata, California

The Executive Officer of the California Regional Water Quality Control Board (CRWQCB), North Coast Region, has received a Notice of Intent to add hydrogen peroxide and citric acid at the above-named site and has determined that it is complete. Accordingly, the Executive Officer intends to issue notification of coverage by General Waste Discharge Requirements, Regional Water Board Order No. R1-2004-0020 for the project described below. Copies of Regional Water Board Order No. R1-2004-0020 can be obtained by contacting the Regional Water Board Office or viewed on the Regional Water Board's website at [www.waterboards.ca.gov/rwqcb1/](http://www.waterboards.ca.gov/rwqcb1/). Copies of the Notice of Intent can be obtained by contacting the Regional Water Board office at the address listed below. The Regional Water Board invites public comments on the proposed addition of hydrogen peroxide and citric acid in compliance with Regional Water Board Order No. R1-2004-0020 at the above-named site. Notification of coverage will not be issued by the Executive Officer until after completion of the 30 day public notice review period.

### **SITE LOCATION**

The project site is located at 3028 Alliance Road in Arcata, California.

### **SITE HISTORY**

One underground storage tank (UST) formerly located at the site contained gasoline (leaded and unleaded) fuels. The UST was removed in 2000.

Several subsurface investigations have been performed at the site, and monitoring of groundwater is ongoing. A complete site history and a summary of previous site investigations are presented in the Humboldt County Department of Environmental Health (HCDEH) approved May 2005 Corrective Action Plan (CAP), and the January 2006 treatability study report. Findings of the treatability study led SHN Consulting Engineers & Geologists, Inc. to recommend soil and groundwater

remediation by hydrogen peroxide injection as presented in the CAP and the Notice of Intent.

### **PROPOSED REMEDIAL ACTION WORK PLAN (RAWP)**

The CAP recommends Hydrogen Peroxide Injection as the preferred alternative. The injection of hydrogen peroxide into the soil and groundwater chemically oxidizes residual gasoline fuels in the source areas, and turns them into carbon dioxide and water. The hydrogen peroxide will also provide oxygen to enhance microbial activity along the fringes of the contaminated groundwater plume. A peroxide solution, combined with sodium citrate, would be injected approximately 12 to 24 feet below-ground-surface via temporary stainless steel injection well points (with packers) installed using a Geoprobe<sup>®</sup> at intervals delineated by a grid pattern. The sodium citrate would be used to acidify the aquifer to facilitate the oxidation process and to provide an additional food source for recovering microorganisms following the peroxide injection.

The injection of hydrogen peroxide and sodium citrate will be closely monitored to ensure effectiveness. The results of the first two years of monitoring will be evaluated to determine the effectiveness of the treatment and the impacts on water quality.

### **PUBLIC COMMENT PERIOD**

Interested parties are encouraged to comment on the proposed addition of hydrogen peroxide and sodium citrate in compliance with Regional Water Board Order No. R1-2004-0020 for this project. The CAP and Notice of Intent are available for public review and comment at the following address:

CRWQCB, North Coast Region  
5550 Skylane Blvd., Suite A  
Santa Rosa, CA 95403  
(707) 576-2220

Hours: Mon. 1:30 p.m.- 4:30 p.m.  
Tue. Thru Th. 8:30 a.m. - 11:30 a.m. and 1:30 p.m. – 4:30 p.m.  
Fri. 8:30 a.m. – 11:30 a.m.

Written and/or oral comments will be accepted during the public comment period, which expires 30 days from the date of publication of this notice. Written and/or oral comments and questions should be addressed to the following as appropriate:

CRWQCB, North Coast Region  
Contact: Ms. Kasey Ashley  
5550 Skylane Blvd., Suite A  
Santa Rosa, CA 95403  
(707) 576-2220

(051807\_KA\_s&h auto notice)