



# California Regional Water Quality Control Board

## Los Angeles Region



Linda S. Adams  
Cal/EPA Secretary

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Arnold Schwarzenegger  
Governor

July 3, 2008

Ms. Debra Hamlin  
BFS Retail & Commercial Operations, LLC  
333 East Lake Street  
Bloomington, IL 60108

**GENERAL WASTE DISCHARGE REQUIREMENTS FOR GROUNDWATER CLEANUP AT PETROLEUM HYDROCARBON FUEL, VOLATILE ORGANIC COMPOUND AND/OR HEXAVALENT CHROMIUM IMPACTED SITES – FIRESTONE TIRE AND SERVICE CENTER (FORMER P & M SERVICE STATION NO. 985), 17501 EAST COLIMA ROAD, CITY OF INDUSTRY (ORDER NO. R4-2007-0019, SERIES NO. 067; CI NO. 9429)**

Dear Ms. Hamlin:

We have completed our review of your application for coverage under the General Waste Discharge Requirements to inject ORC at the site referenced above in City of Industry, California, for groundwater cleanup and remediation.

The Site is currently occupied by a retail tire sales and automotive repair facility, located on the northwest corner of Colima Road and Albatross Road in City of Industry, California (Site) (Latitude: N 33° 59' 27.91" Longitude: W 117° 55' 29.05"). Previous operations at the site included the P & M Service Station No. 985 which included gasoline dispensing activities.

In March 1993, three 10,000-gallon gasoline USTs, gasoline dispensers, fuel islands, and ancillary piping utilized were removed from the site. Petroleum hydrocarbon impacted soil was encountered during the UST removal activities. The results indicated that maximum concentrations of 6,800 mg/kg for TPHg, 15 mg/kg for benzene, 510 mg/kg for toluene, 155 mg/kg for ethylbenzene, and 701 mg/kg for total xylenes were detected in soil. Since then, a series of site assessment activities have been conducted at the site, which included of drilling and sampling twenty two soil borings, installing thirteen groundwater monitoring wells and five vapor extraction wells (refer to Figures 3 and 4 for groundwater flow direction, groundwater plume delineation and groundwater monitoring well locations). Groundwater monitoring data collected in February 2008 indicated that TPHg, BTEX, MTBE and TBA were detected at a maximum concentration of 12,000, 560, 71, 1,700, 788, 210, and 1,100 micrograms per liter (µg/L), respectively. The Groundwater flow direction underneath the site was to the north/northwest at a gradient from approximately 0.13 foot/foot.

A dual-phase extraction system was initiated in March 2007 to clean up the site and has removed 2,662 lbs of hydrocarbons from the subsurface over an operational period of 5,108 hours.

To further remediate the residual soil and groundwater contaminations, a "First Quarter 2008 Groundwater Monitoring and Remediation Report and Workplan for Well Abandonment and In-

**California Environmental Protection Agency**



*Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.*

Situ Remediation” dated April 15, 2008, by Entrix proposed to introduce Oxygen Release Compound (ORC®) at approximately 40 injection points at the former source area (approximately 30 feet by 50 feet) and 68 injection points at the cross/down-gradient of former source area (approximately 20 feet by 110 feet). The workplan includes the injection of ORC® in a grid pattern 7 feet apart and the depth ranged from approximately 30 feet to 40 feet bgs (source area) and approximately 35 feet to 45 feet bgs (cross-/down-gradient to enhance biodegradation and natural attenuation of petroleum hydrocarbons (please refer to Monitoring & Reporting Program No. CI-9429, Figure 9). ORC® is a patented formulation of phosphate-intercalated magnesium peroxide that is a timed-released source of oxygen.

A letter dated June 3, 2008 from Los Angeles Regional Water Quality Control Board approved the In-situ Remediation Workplan.

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 (General WDRs)*,” adopted by the Los Angeles Regional Water Quality Control Board on March 1, 2007.

Enclosed are your Waste Discharge Requirements, consisting of General WDRs Board Order No. 2007-0019 and Monitoring and Reporting Program No. CI-9429 and Standard Provisions. This Waste Discharge Requirements shall not be rescinded until Regional Board staff determine the WDRs are no- longer needed for the subject site.

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 per these requirements, please include a reference to Compliance File No. CI-9429, 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. R4-2007-0019 only to the applicant. A copy of the Order will be furnished to anyone who requests it, or on line at:  
[http://www.waterboards.ca.gov/losangeles/board\\_decisions/adopted\\_orders/general\\_orders/r4-2007-0019/r4-2007-0019.pdf](http://www.waterboards.ca.gov/losangeles/board_decisions/adopted_orders/general_orders/r4-2007-0019/r4-2007-0019.pdf)

If you have any questions, please contact Ms. Rebecca Chou at (213) 620-6156.

Sincerely,

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Tracy J. Egoscue  
Executive Officer

Enclosures: 1. Board Order No. R4-2007-0019  
2. Monitoring and Reporting Program No. CI-9429

cc: Ms. Nancy Mastumoto, Water Replenishment District of Southern California  
Mr. Tim Smith, LACoDPW, Environmental Programs Division  
Mr. David Blankenhorn, Entrix, Inc.

