



# California Regional Water Quality Control Board

## Los Angeles Region



Alan C. Lloyd, Ph.D.  
Agency Secretary

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

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Arnold Schwarzenegger  
Governor

February 6, 2006

Mr. Gregory Barton  
ExxonMobil Refining & Supply Company  
3700 West 190<sup>TH</sup> Street, TPT2  
Torrance, CA 90504

**GENERAL WASTE DISCHARGE REQUIREMENTS COVERAGE FOR PROPOSED  
HYDROGEN PEROXIDE INJECTION APPLICATION TO GROUNDWATER  
EXXON STATION NO. 7-3416 (FORMER)  
595 NORTH MOORPARK ROAD, THOUSAND OAKS  
(ORDER NO. R4-2005-0030, CI-9026, SERIES NUMBER NO. 036) (C-92022)**

Dear Mr. Barton:

We have received the "Application/Report Of Waste Discharge For Waste Discharge Requirements Hydrogen Peroxide Drip System", dated October 21, 2005, submitted by Environmental Resolutions, Inc., on behalf of ExxonMobil Refining & Supply Company (ExxonMobil) for the referenced site.

The site is former Exxon Station No. 7-3416 located at 595 North Moorpark Road in the City of Thousand Oaks (Figure 1). The site is currently a restaurant and parking lot. The site is located in a mixed residential and retail area.

In May 1992, one 6,000-gallon, one 8,000-gallon, one 10,000-gallon gasoline and one 1,000-gallon waste oil underground storage tanks, dispenser islands, and associated piping were removed. The maximum detected TPH<sub>G</sub> and benzene concentrations were 4,500 mg/kg (TPH<sub>G</sub>) and 3 mg/kg (benzene), respectively. Soil samples were not analyzed for MTBE or TBA.

Between April 1992 and November 1995, several soil borings were advanced and eight groundwater-monitoring wells (MW-1 through MW-8) were installed. The maximum detected TPH<sub>G</sub> and benzene concentrations were 690 mg/kg (TPH<sub>G</sub>) and 3 mg/kg (benzene), respectively. Soil samples were not analyzed for MTBE or TBA.

Between February 1995 and October 1998, sixteen soil vapor extraction wells and a soil vapor extraction system were installed. Between July 1996 and May 2000, the soil vapor extraction system removed approximately 2,497 pounds of petroleum hydrocarbons from beneath the site.

In October 2004, five confirmation soil borings (CB-1 through CB-5) were advanced. The maximum detected TPH<sub>G</sub>, benzene, MTBE, and TBA concentrations were 1,630 mg/kg (TPH<sub>G</sub>), 0.0757 mg/kg (benzene), 0.0632 mg/kg (MTBE), and 1.11 mg/kg (TBA), respectively.

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Quarterly groundwater monitoring began in the Second Quarter 1992 sampling period and continued through the Fourth Quarter 2005 sampling period. Historically, the maximum TPH<sub>G</sub>, benzene, and MTBE concentrations of 85,000 µg/L (TPH<sub>G</sub>), 5,800 µg/L (benzene), and 390 µg/L (MTBE), respectively, were detected in groundwater monitoring well MW-6. Groundwater samples collected during the Fourth Quarter 2005 sampling period indicated a maximum TPH<sub>G</sub>, BTEX, and MTBE concentrations of 13,400 µg/L (TPH<sub>G</sub>), 1,880 µg/L (benzene), 148 µg/L (toluene), 1,520 µg/L (ethylbenzene), 450 µg/L (total xylenes), and 77.7 µg/L (MTBE), respectively. Free product was detected in groundwater monitoring well MW-6 between October 1994 and November 1996. The maximum free product thickness detected was 0.61 feet in May 1995. Free product was removed by bailing. Free product has not been detected since November 1996.

ExxonMobil submitted the "Interim Remedial Action Plan" (IRAP) to the Ventura County Environmental Health Division (VCEHD) on August 25, 2005. The IRAP proposes to mitigate the groundwater contamination in the vicinity of groundwater monitoring well MW-6 by employing in-situ chemical oxidation in the saturated zone. The IRAP proposes to apply a 1% hydrogen peroxide solution directly into groundwater monitoring well MW-6. VCEHD staff approved the IRAP on August 31, 2005.

We have determined that the proposed discharge meets the conditions specified in Regional Board Order No. R4-2005-0030, "*General Waste Discharge Requirements for Groundwater Remediation at Petroleum Hydrocarbon Fuel and/or Volatile Organic Compound Impacted Sites*," adopted by this Regional Board on May 5, 2005.

Enclosed are Waste Discharge Requirements, Order No. R4-2005-0030, and Monitoring and Reporting Program No. CI-9026.

The "Monitoring and Reporting Program" requires ExxonMobil to implement the monitoring program on the effective date of this enrollment under Regional Board Order No. R4-2005-0030. The first monitoring report is due to this Board two months after the injection. All monitoring reports should 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-9026," which will assure that the reports are directed to the appropriate file and staff. Also, please 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. R4-2005-0030 only to the applicant. A copy of the Order will be furnished to anyone who requests it.

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Exxon Station No. 7-3416 (Former)  
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If you have any questions, please contact Mr. Rodney Nelson at (213) 620-6119.

Sincerely,

Jonathan A. Bishop  
Executive Officer

Enclosures: Board Order No. R4-2005-0030  
Monitoring and Reporting Program No. CI – 9026

cc: Ms. Yvonne Shanks, State Water Resources Control Board, Underground  
Storage Tank Cleanup Fund (w/o Board Order No. R4-2005-0030)  
Mr. Doug Beach, Ventura County Environmental Health Division  
Mr. David Salter, Ventura County Environmental Health Division  
Mr. James Leist, Environmental Resolutions, Inc.

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