

**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

STAFF REPORT FOR REGULAR MEETING OF MARCH 19, 2004
Prepared on February 26, 2004

ITEM NUMBER: 19

**SUBJECT: Corrective Action Plan Approval, 7-Eleven Store #20608; 455
Airport Boulevard, Watsonville, Santa Cruz County**

DISCUSSION:

7-Eleven Incorporated submitted a modified corrective action plan (CAP) to replace the current remedial activities for the clean up of petroleum hydrocarbons impacting soil and groundwater under and near the subject site. The current remedial plan consists of a dual phase extraction (DPE) and ozone sparging at the subject site. Based on SECOR's (7-Eleven's consultant) evaluation of current data at the site, DPE is no longer a feasible remedial option because of recent low MtBE concentrations in the vapor samples collected from the recovery well. The modified corrective action proposes ozone injection into groundwater to chemically oxidize petroleum hydrocarbons and fuel oxygenates, and oxygen injection to enhance biodegradation of dissolved petroleum hydrocarbons and fuel oxygenates. Ozone will be injected into onsite and offsite wells within the center of the dissolved MtBE plume and oxygen injection into an offsite well array installed cross gradient to the dissolved MtBE plume downgradient of the site.

To further delineate the offsite dissolved MtBE plume, 7-Eleven will install three additional groundwater monitoring wells to delineate the eastern and cross gradient extent of the shallow dissolved MtBE plume. A deeper depth discrete screened well will be installed to define the downgradient extent of the dissolved MtBE plume.

Regional Board staff approved the modified CAP in a January 20, 2004 letter. In the interim, while the proposed wells and the ozone injection system are being completed, Regional Board staff directed 7-Eleven to continue the biweekly ozone injections into onsite sparge wells and initiate the biweekly injection of ozone or oxygen into offsite wells MW-7 and MW-13.

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