

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

STAFF REPORT FOR REGULAR MEETING OF MARCH 24, 2006

Prepared on February 10, 2006

ITEM NUMBER: 12

**SUBJECT: Corrective Action Plan Approvals
Former J's Gas & Save, 1114 Freedom Boulevard,
Watsonville, and City of Watsonville Parking Lot, 215 Union
Street, Watsonville, Santa Cruz County**

KEY INFORMATION

This Action: Status report for two corrective action approvals.

**Former J's Gas & Save, 1114 Freedom
Boulevard, Watsonville**

On December 7, 2005, Dockter Environmental Consulting's (DEC) submitted a Revised Corrective Action Plan (CAP) on behalf of the The subject site was a gasoline service station whose underground storage tanks (USTs) were removed on September 23, 1999. Results of subsurface investigations indicated that soil in the area of the former dispensers and former USTs is impacted with petroleum hydrocarbons. Similarly, groundwater investigations and periodic monitoring detected petroleum hydrocarbons and methyl tertiary-butyl ether beneath the site that has migrated underneath Freedom Boulevard and a downgradient adjacent property.

DEC has conducted a high vacuum dual phase extraction (HVDPE) pilot feasibility test at the site. Based on the results of the feasibility test and remedial alternatives evaluation, DEC proposes to use HVDPE to remove and treat petroleum contamination vapor from soil and groundwater. As proposed, DEC will use a mobile, truck-mounted HVDPE unit to extract soil vapor and groundwater from four existing monitoring wells (MW-4, MW-5, MW-6, and MW-9). The final number and location of extraction wells will be determined based on information collected during the initial phases of cleanup. The extracted groundwater will be

responsible party, Mr. Macedonio Medina. DEC revised the original CAP, received by Water Board staff on September 9, 2005, to correct some errors and to incorporate comments provided by Water Board staff.

treated using carbon filters to remove petroleum hydrocarbon contaminants and the effluent will be discharged under appropriate permit to the City of Watsonville's sanitary sewer. The extracted soil vapor will be treated using an electric catalytic oxidizer and will be permitted with the Monterey Bay Unified Air Pollution Control District.

Water Board staff approved the revised CAP and notified neighboring property owners, tenants and other interested parties in a January 25, 2006 letter. At the time of preparation of this staff report, we have not received comments on the approved CAP.

**City of Watsonville Parking Lot, 215
Union Street, Watsonville**

Petroleum hydrocarbons and solvent compounds originating from three separate properties have formed a commingled plume under the City of Watsonville's parking lot and nearby parcels. The three sites contributing to the contamination include the City of Watsonville's parking lot at 215 Union Street, the adjoining former Chevron Service

Station at 222 Main Street, and the former Sanchez Alliance Service Station at 175 Main Street. Solvent compounds, particularly dichloroethene (DCE), were discovered during soil and groundwater investigations conducted at the two nearby gasoline service stations. Historical documents, field observations, and laboratory data suggest that the DCE detected in groundwater beneath the city's parking lot originated from a former dry cleaning business at that site.

The Water Board's Executive Officer approved a Corrective Action Plan (CAP), or cleanup plan, for the former Sanchez Alliance Service Station on December 16, 2004. The approved cleanup plan includes extraction of groundwater followed with treatment using carbon filters, in combination with air sparging and soil vapor extraction. These cleanup methods are effective in removing the contamination from beneath the property and for controlling potential plume migration.

The CAP addendum prepared for the City of Watsonville parking lot proposes to use these same equipment and techniques to clean up the DCE found beneath the parking lot. As proposed in the CAP addendum, a system of remediation piping has been extended from the cleanup system currently being used to clean up the petroleum contamination at the former gasoline service station at 222 Main Street to the area containing elevated levels of DCE. An additional groundwater extraction well and four more soil vapor extraction wells will be connected to the existing treatment system. The petroleum hydrocarbons and solvent compounds contained in the extracted groundwater will be treated using a series of carbon filters before being discharged to the City of Watsonville's sanitary sewer. The extracted soil vapors will be treated using a series of carbon filters and will be permitted by the Monterey Bay Unified Air Pollution Control District. The first phase of the cleanup plan implementation has been completed including installation of one groundwater extraction well, four air sparge wells, and the subsurface piping. Full start up

of the treatment systems is projected to occur by the second quarter 2006.

On January 25, 2006, Water Board staff notified neighboring property owners and other interested parties regarding the proposed CAP addendum. Water Board staff received one telephone call from a neighbor asking about the cleanup plan. Water Board staff explained the proposed plan to the satisfaction of the caller. As of the date of this report, we have not received additional comments from any other interested parties. Water Board staff approved the CAP addendum in a February 9, 2006 letter.