

CDOT Installs Contamination Treatment System on Redfield Property

In mid-May 2002, CDOT began construction on a remediation system to treat compounds that have migrated from a former drywell located on CDOT's Region 6 Headquarters facility, which is adjacent to the former Redfield site. Compounds including methylene chloride, TCE, PCE, and 1,1-DCE have migrated from that facility into the groundwater beneath the Redfield site.

Twenty-two wells were installed in a parking lot on the west side of the Redfield building, adjacent to the CDOT Regional 6 facility. CDOT is implementing an aerobic "bioremediation" system that creates an environment in which biological organisms are expected to break down the solvents in the groundwater. The system will inject nutrients and oxygen into 17 groundwater wells drilled on the Redfield site. A pumping station is being built to handle the injection of the materials into the groundwater. The injection materials include de-chlorinated water, nitrates, phosphates, hydrogen peroxide and methane. The system is intended to break down contaminants flowing onto the Redfield property over time. According to CDOT, underlying geology allows each well to inject approximately one gallon of water every 10 minutes.

CDOT began operating the remediation system in the fall of 2002. CDOT anticipates that the portion of its contamination on the west side of the building, which is the subject of CDOT's bioremediation system, will be cleaned up in about 8 years.