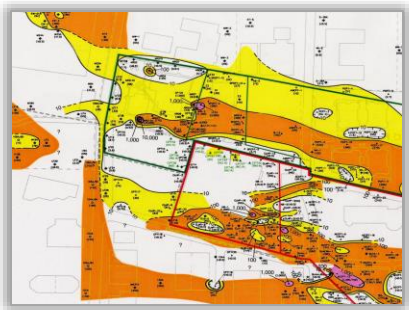


Preparation of Feasibility Study/Remedial Action Plan for RWQCB for Commingled VOC Plume with Multiple PRPs

Sunnyvale, CA



For a multiple PRP (Potentially Responsible Parties) group, EKI is currently providing technical program management, remediation, and monitoring for a chlorinated solvent release site in the Silicon Valley of the San Francisco Bay Area. This project is located amongst several plumes found in multiple aquifers, and adjoins a Federal Superfund site. Solvents have penetrated into multiple aquifer zones and DNAPL has been identified within the source area at the Site. Agency oversight is provided by the San Francisco Regional Water Quality Control Board (RWQCB).

On behalf of the PRP Group, EKI prepared a CERCLA-consistent Feasibility Study and Remedial Action Plan (FS/RAP) for onsite and offsite areas and designed remedial actions for these areas that included source containment through groundwater extraction and treatment and monitored natural attenuation (MNA) in downgradient areas. As part of the FS/RAP, EKI developed a performance monitoring plan for MNA assessment utilizing technical protocols developed by U.S. Environmental Protection Agency for evaluation natural attenuation of chlorinated solvents in groundwater.

In 2006, EKI obtained RWQCB approval to cease groundwater extraction and concurrently implement enhanced anaerobic bioremediation (EAB) in the former source area at the site and continue MNA in downgradient areas. EKI designed injection of lactate-based amendments to facilitate *in situ* bioremediation of trichloroethene in groundwater. This modification to the remedy resulted in a significant overall cost reduction relative to long-term pump and treat. As EAB source area remediation and downgradient MNA have progressed, EKI has obtained RWQCB approval to reduce the number of wells requiring monitoring and the frequency of monitoring. An amended FS/RAP identifying EAB and MNA as the preferred remedy was prepared and submitted by EKI to the RWQCB in 2012.