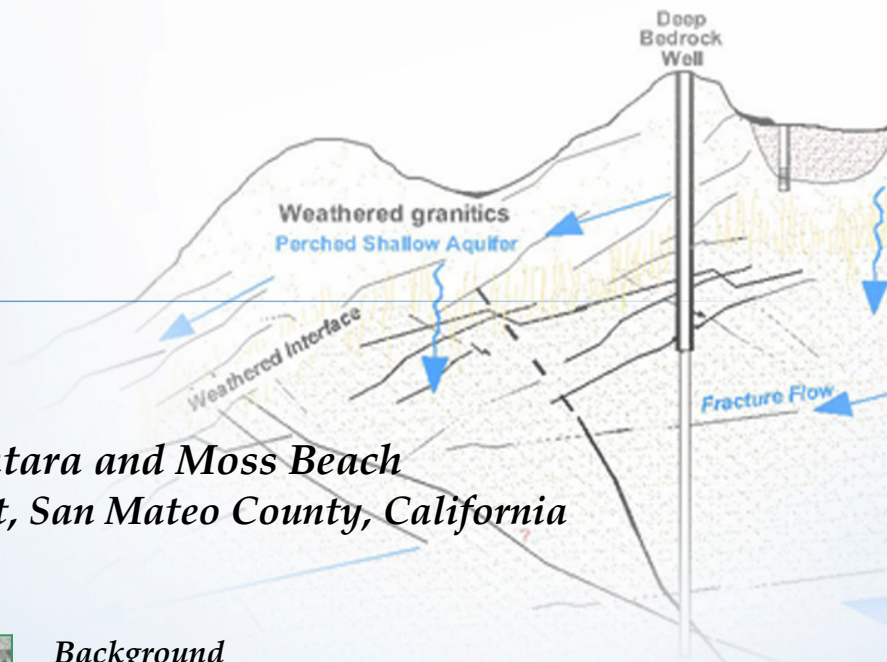


Water Supply

Local Groundwater Supply to Montara and Moss Beach Montara Water and Sanitary District, San Mateo County, California



Water well drilling in fractured granitic bedrock

Background

While conducting water-supply investigations in the Mid-Coast region over the past several decades, Balance developed a strong relationship with the Montara Water and Sanitary District (MWSD), which relies on local groundwater to serve the unincorporated communities of Montara and Moss Beach. The District purchased the water system from a private utility in August 2003 and is upgrading infrastructure and adding new sources of water to address concerns over the sustainable yield of the sub-basin during consecutive drier-than-normal years, as well as the related potential for sea water intrusion.

Project Highlights

- Assists MWSD with development of new groundwater supplies and with sustainable management of the local aquifers,
- Leads well drilling and aquifer management projects,
- Established and permitted a new source well that draws groundwater from the complex, fractured-bedrock coastal aquifer system,
- Investigates wellhead protection opportunities concerning septic systems that potentially affect MWSD source wells,
- Assists with management of springs, spring-supported wetlands, riparian vegetation and stream channels supporting sensitive species,
- Maintains a watershed monitoring program,
- Assists MWSD with grant proposals and permitting opportunities.

Striking high-yielding joints deep in granitic bedrock, after which developed and permitted as a new water supply source.



Groundwater quality monitoring of coastal alluvial aquifers