

Mammoth Community Water District Well Rehabilitation (Phase 1)

Project Description:

The District will work with its hydro geologist and the testing vendor to complete well profiling. The two wells to be profiled collect water from multiple aquifer layers with different water qualities. The amount of water produced in the different layers is also variable and can be influenced by the transmissivity of the aquifer layers, pumping rates, depth of the pump intake and the condition of the perforations in the well. The results of the well profiling will confirm whether the water quality can be improved by sealing off sections that contribute the highest contaminant loading. The testing will also verify the most efficient pumping rate to minimize contaminant loading. Both wells have variable frequency drive motors (VFD's). The appropriate well sections will then be blanked off and the pumping rates adjusted as needed to minimize contaminant loading while optimizing the well yield.

The vendor and hydro geologist used to conduct the well profiling and pump testing will provide a report on the results of the study. The ultimate deliverable will be installation of the blank screen sections and modified pump VFD settings.