

WORK PLAN WELL #36

PROJECT DISCRPTION

The well 36 system was designed and constructed in the 1920's. It pumps approximately 157.09 million gallons of water each year. By using our measurement methods it has been determined that 32% or approximately 49.975 million gallons is not making it to the end user. This loss is caused by damaged concrete pipes, blockages, leaking gates and valves and the high friction coefficient of the old concrete pipes. By replacing approximately 12,905 ft of this system with new 12 inch schedule 80 PVC pipe, hub gates and valves we will eliminate this loss.

In addition to wasting our precious ground water resource we are using an extra 27,024 kWh of power per year to provide the water users with the water they need.

Throughout the 25 year useful life of this project it is estimated we will save 1249.375 million gallons of water and 675,600 kWh of electricity.

WORK TASKS

We will begin digging out the old concrete pipe with a backhoe. In the resulting trench the new pipe will be put in place and attached together. Hub gates, valves, air vents and surges will be placed where the old ones were removed. While the new pipe is being installed the old concrete pipes will be crushed and loaded into dump trucks for disposal. After the pipe has been fitted with the new gates and valves the trench will be back filled. The restoration will progress at approximately 300 ft/day.

MONITORING

The project manager will be on site each day to observe and monitor the progress rate of the project which should be approximately 37.5 ft/hr or 300ft/day.

ENVIRONMENTAL COMPLIANCE AND PERMITS

Permits and CEQA obligations with the project will be dealt with upon award of grant. The time period between the award and the start of this project (9 months) will provide ample time to complete those tasks.

