Yavapai County, AZ – Drinking Water

Project Location: Yavapai County, AZ

Team Members Needed: Please see description and responsibilities of team members needed (at a minimum):

1. Responsible Engineer in Charge (REIC) - *Four years of professional experience in drinking water engineering and hold a Professional Engineering license in Arizona*
2. Quality Assurance Manager (QAM) - *Four years of experience*
3. Project Lead

Full descriptions and role/responsibilities are linked and can be found on our website. Outside of those listed above, additional general project team members are welcome.

Project Background: A water supply company in rural Yavapai County, AZ, has an aging water system that is beginning to experience failure. One well stopped producing in the summer of 2023, and there are several aging subsystems that the company does not know how to operate, as the technology is outdated, and the associated documents were lost in a fire several years ago. The most urgent need is to replace the pump control systems, ensuring the pumps are able to turn on and off depending on tank fill levels.

Second, the amount of water in the storage tanks changes too rapidly during demand surges. To ensure a steady supply, the client is hoping to increase their storage capacity and replace the well that stopped producing last summer. Lastly, the company has noted that to service parts of the system, sections need to be shut down, suspending water access to certain areas. The company is looking to install redundant pipes to allow a bypass, ensuring there is no interruption in service for clients.

Description of the Community: The utility, located in rural Arizona, serves 1,100 households. The residents served by this utility are low to middle income, and the neither the utility nor the utility's customers have the financial capacity to cover the expenses associated with this project.

Project Scope of Work: The scope of work includes the development of a Preliminary Engineering Report (PER) to evaluate the pump control systems, expanded storage needs, the need for redundancy in the distribution system, and additional water treatment required to ensure PFAS/PFOA compliance. The PER will also include an alternatives analysis, cost estimates associated with each alternative, and a recommended alternative to be used in an application for funding.

Timeline: As soon as possible, with a target PER completion date of December 31, 2025.

Contact: If you are interested in volunteering for learning more, please contact us at CECinfo@ewb-usa.org.