

Final Report on Happy Scenes Water System, #1 Inc. Water System Upgrade

Funding Source: Southwest Basin Account

The Happy Scenes Water System serves potable water to homes, located north of Vallecito Reservoir, in La Plata County, Colorado. The System serves 60 taps and an estimated population of 160 people. In past years the system was fed by water from springs. Recently the water has been shown to be influenced by surface water. The required filtration and treatment to make this water safe was very expensive. The cost of monitoring made this option financially unfeasible. A new well was drilled and a new treatment building was constructed.

It is at this point that the System came to the Colorado Water Conservation Board with a request for grant money to complete this project. The System received a grant for \$50,000. This money allowed for three stages of construction to be completed and the new well fed system to replace the old system. The three stages or “tasks” are as follows:

TASK 1 – Preparation of interior of pump house for equipment

Description of Task

- Build the chlorination room
- Install chlorination door and main entry door
- Install four ventilation windows
- Insulation of ceiling
- Installation of attic floor and access door
- Apply wafer board to the interior of all walls to allow for mounting of pipe and equipment
- Painting the interior of the pump house with a water proof paint
- Trimming the exterior

This work was completed on a time and materials basis by Quentin Wray, Inc.

Total cost: \$8,008

TASK 2 – Purchase and installation of pumping equipment

Description of Task

Purchase and install well pump, Two booster pumps, treatment equipment, Pump controls, two pressure tanks, piping in pump house, meters, backup and supplemental equipment.

This work was completed by Brooks Well Service

Total cost: \$35,244

TASK 3 – Wiring pump house

Description of Task

Install the wiring and conduit, and equipment inside the pump house for lighting, outlets, heat, and to supply power to the pumping equipment.

This work was completed by Phillips Electric

Total cost: \$7,500

There were also some costs such as project oversight, engineering, and water storage tanks that were beyond what the grant had money available for. These are costs that the System must find other sources of funding to pay for. The new system is completely on line. The well pump fills a 300 gallon tank in the pump house where chlorination is added. The water then flows into two vertical 300 gallon storage tanks. Inside each vertical tank is a VFD booster pump. These pumps in conjunction with two pressure tanks provide constant pressure to the system. The system is working wonderfully and providing excellent water and water pressure to the members. The System greatly appreciates the financial help received.

Thank You,

Jesse Wray

and

Happy Scenes Water System Board and Members

December 9th, 2009