

## A&D Water – Buffalo Meadows (Water)

### Facility Information:

Water System: PWS# NC0105102

West Jefferson, Ashe County, NC

~44 Service connections

Assets: One Groundwater Well, one Ground Storage Tank, one Hydropneumatic Tank, two Treatment plants, and Distribution System

### Description of need:

Buffalo Meadows Water System is a groundwater system located in Ashe County and it provides water to Buffalo Meadows subdivision. The well building, which houses the chemical disinfection system is severely damaged and its foundation is rotting. The ground storage tank was rehabilitated within the past 10 years and it has no functioning valving. Additionally, the system has no air blow off and the water meter must be removed to allow for air to be bled out of the system. The system was constructed 50 years ago, and no SCADA system is nonfunctioning in the well on this site. Due to the age of the system, the meter vault needs to be inspected in order to determine if any equipment is due for replacement.

### Proposed Improvements:

In order to ensure the longevity and performance of the Buffalo Meadows System, Red Bird Water Utility Operating Company plans to make improvements to the system. In order to ensure that operations can be effectively to abnormal operating conditions and ensure proper operations, the well will need to be rehabilitated. The ground storage tank will need to be inspected, cleaned, repainted and new valve will be added. The well house will need repairs and foundation will be inspected for structural integrity. A new SCADA package will need to be installed to replace the current nonfunctioning unit. The installation of a new air blow off will also be required. These improvements will ensure the system can provide safe and reliable service to customers and will bring the facilities into a maintainable condition moving forward.

Item	Cost
Mission Monitoring	\$25,000
Well & Treatment Rehabilitation	\$50,000
Inspect/Clean/Repaint Ground Storage Tank	\$30,000
Well House Repairs	\$5,000
Install Air Blow off	\$5,000
Distribution System Improvements	\$15,000
<b>Total</b>	<b>\$130,000</b>