



CONDITION ASSESSMENT

As stewards of Bend’s precious water supply and of the rates paid by customers, the City of Bend is taking an integrated look at its water system, enabling them to make more informed and comprehensive decisions on projects to efficiently allocate resources. This approach reaffirms Bend’s commitment to provide safe, reliable, and award-winning drinking water to all customers.

Bend water customers have made significant investments in the water system. But Bend’s water storage tanks, pump stations, wells, and other facilities are showing signs of wear and tear, surpassing their useful life. This slow deterioration of water facilities can have serious consequences.

What is a Condition Assessment?

A condition assessment is a comprehensive evaluation of the City’s water facilities and how they are operated. It helps identify areas of concern in the near and long-term and guides where to prioritize funding for rehabilitation, replacement, and/or decommissioning.

A condition assessment helps the City plan for new major capital improvements, as it helps Water Operations staff monitor aging infrastructure and program maintenance work on existing facilities.

The American Water Works Association (AWWA) recommends Condition Assessments as a best practice for water utilities to determine areas for improvements and responsible use of public funds when:

- √ Identifying, prioritizing, and budgeting for significant infrastructure investment
- √ Developing rehabilitation timelines for facilities at risk of failure or nearing end of useful life

By incorporating a condition assessment into the overall Integrated Water System Master Plan, the City of Bend is planning projects for the next 20 years, and budgeting for much needed improvements before failures occur.

How does it work?

This Condition Assessment determined what wells, water storage tanks, and pump stations should be evaluated.



REVIEW background data
(records, logs, reports)

EXAMINE facilities onsite

RANK condition of each facility

ASSIGN maintenance budget
per facility

Findings Here is a brief summary of assessments in the City of Bend’s service area:

Water Storage Tanks (Reservoirs)

15 water storage tanks are subject to weather, wear, and corrosion. Recommended improvements include recoating tanks, replacing roof vents, and adding side access points on tanks that are access constrained. Recommendations also include analyzing the useful life of the tanks to determine whether the wiser investment could be replacement rather than repair.

Groundwater Wells

20 groundwater wells are a critical component of the system because they help meet high water demands during the peak summer season by drawing groundwater. Replacing well pumps and motors, as well as electrical, instrumentation and controls elements account for the majority of recommended improvements.

Booster Pump Stations

6 water booster pumps are a critical component of the system because they help move water uphill to serve customers across the community’s different elevations. Identified maintenance needs include electrical, instrumentation and controls elements as well as replacing pumps and motors.

