



South Fork Sewer District

Page Wastewater Treatment Plant Phosphorus Removal Project—60% Design Update

Current Status



Initial jar testing for metals and phosphorus

The South Fork Sewer District began running a proof pilot for selected phosphorus removal and solids handling technologies in April to capture spring runoff and evaluate warm weather operation. The current operation evaluates coagulant, polymer, and pH control dosages to optimize phosphorus removal. Testing at the end of July will evaluate metals and phosphorus removal.



Solids contact clarifier pilot unit and control building

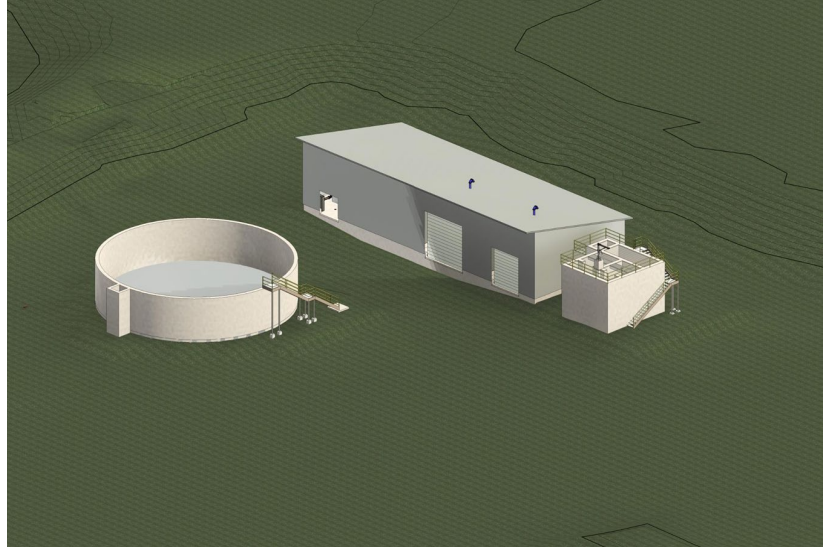
The district will run the pilot for 3 to 4 months to identify required chemical dosing and performance consistency.

A construction bid for the geotechnical improvement project to improve soils has been approved and has begun. This project will install aggregate piers to provide a structurally sound support for future treatment facilities. Five contractors were prequalified for the specialized aggregate pier installation and are expected to bid the final project. Completing the geotechnical work in 2024 will allow construction to begin in early 2025 so the project can be completed by the end of 2026.

In May, the 60% design of the clarifier and control facility was completed to determine equipment sizing, location, and building layouts for the geotechnical improvements.

The 60% design will be used to preprocure the solids contact clarification equipment and a pre-engineered metal building for pumps, controls, and chemical feed. These items typically have a long lead time so preprocurement will allow the project general contractor to start earlier and complete the project on schedule.

The district is also investigating low cost options for solids handling, including sludge lagoons for additional stabilization and geotubes for solids dewatering. A geotube pilot to evaluate the ability to dewater chemical sludge will occur in late 2024.



60% design—solids contact clarifier and control building



Geotubes

The project is on schedule and moving quickly. The final design submittal to the Idaho Department of Environmental Quality is currently scheduled for late 2024 with advertisement for bid in early 2025.

Next Steps

The district will bid the geotechnical package in April to allow construction to start during dry conditions.