

Optimization and Expansion of the Brackish Groundwater Treatment Facility

Project Overview

BPUB is working to optimize and expand the Brackish Groundwater Treatment Facility to increase its production from 6.5 MGD to 10 MGD, with long-term plans to expand to 20 MGD. An engineering study in 2023 identified 15 projects to achieve this, with an estimated cost of \$42.44 million. BPUB is seeking federal funding, including a \$20 million grant, and expects the optimization projects to be completed by 2027.

The potential 20 MGD expansion, costing \$181 million, could be finished by 2030 if funding is secured.

Technical Specifications

Optimization to 10 MGD by 2027:

- Reconstruction of 20 wells
- Construction of 2 new wells
- Upgrade and increase the capacity of the microfiltration system
- Upgrade the reverse osmosis system
- Upgrade electrical and instrumentation systems
- Improve chemical dosing and storage systems

Expansion to 20 MGD by 2030:

- Construct 20 new wells, a raw water transmission line, an intermediate pump station and additional reverse osmosis trains
- Expand and enhance the pretreatment system
- Install and upgrade of the pumps and ancillary equipment
- Upgrade electrical and instrumentation systems
- Install a new backup generation

