

Waikīkī Aquarium Upgrades Supply Water Intake System Project



Background of Aquarium

- **The Waikīkī Aquarium was established in 1904 and moved to its current location in 1955.**
- **It is the second oldest aquarium in the United States and welcomes more than 250,000 visitors annually.**
- **The Aquarium is an important educational research and outreach facility with a renowned International reputation.**
- **Fish and invertebrates are displayed in approximately 60 public exhibits and an outdoor pool is home to an endangered Hawaiian Monk Seal.**
- **The current Supply Water Intake System infrastructure that supplies water to exhibits is antiquated. Some components are part of the original construction and 70 years old.**

Purpose of the Proposed Supply Water Intake System Project

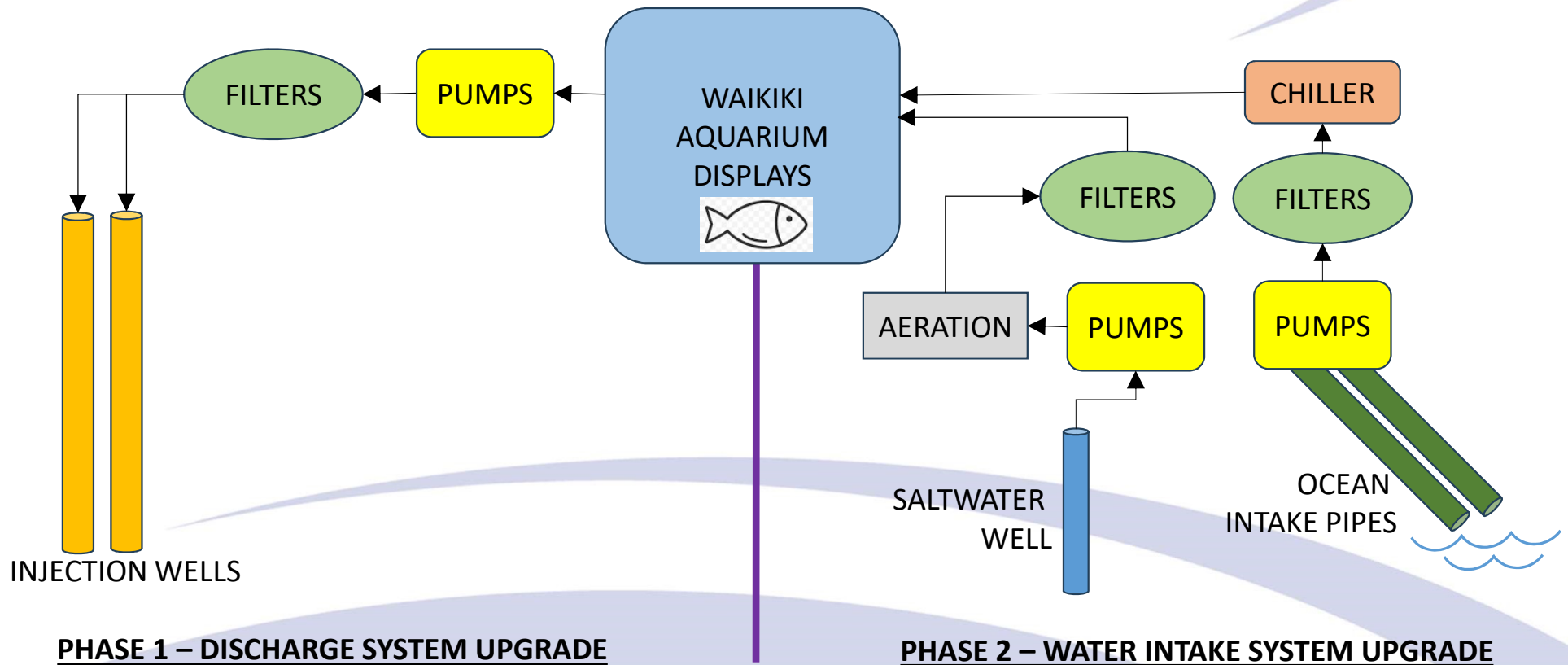
- **To prevent future failures that threaten the life and well-being of fish and animals under the Aquarium's care.**
- **To accommodate future expansion.**



Proposed Actions of the Supply Water Intake System Project

- Replacement of the two existing ocean water intake pipes that extend approximately 160 feet offshore (ocean water intake up to 487,000 gallons per day [GPD])
 - *Better for the environment* -- Existing in-water asbestos-containing transite intake pipes will be replaced with new high-density polyethylene (HDPE) pipes.
- Construction includes:
 - New saltwater well (well saltwater usage up to 396,000 GPD)
 - New partially below ground pump vault
 - New partially below ground aeration tank
 - New pump and filter building
 - New equipment, piping, electrical and mechanical components

Phase 1 and Phase 2 Flow Diagram



New Edge of Reef Exhibit

- The outdoor “Edge of Reef” (EOR) exhibit needed to be demolished during construction of the Discharge System Upgrade project.
- The Aquarium will replace the EOR exhibit with a future expanded EOR exhibit that will feature an enhanced experience for visitors.



Estimated Cost and Time Frame for the Supply Water Intake System Project

- **Estimated cost of this project – \$14M**
- **Estimated Construction start – End 2026**
- **Estimated Construction completion – End of 2028**

Update on Aquarium Water Discharge System Upgrade Project

- **The Aquarium Water Discharge System Upgrade project includes the construction of two new injection wells and is currently under construction.**
 - **Project intended to address citations from the State Dept. of Health (DOH) and the City and County Dept. of Environmental Services (ENV).**
- **‘Iwi Kūpuna has been uncovered at four locations during excavation. UH is working with SHPD, OHA, OIBC, and consulting with descendants on the Burial Treatment Plan (BTP).**
- **The BTP will apply to the Water Intake System Upgrade project should future ‘Iwi Kūpuna be uncovered.**

Mahalo for the Opportunity to Present the Supply Water Intake System Project

