



4/9/2025

Consideration to Direct the General Manager to Issue a Notice Inviting Bids for the Sweetwater Reservoir Aeration and Destratification System Project

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Recommendation

1. That the Governing Board Direct the General Manager to Issue a Notice Inviting Bids for the Sweetwater Reservoir Aeration and Destratification System Project

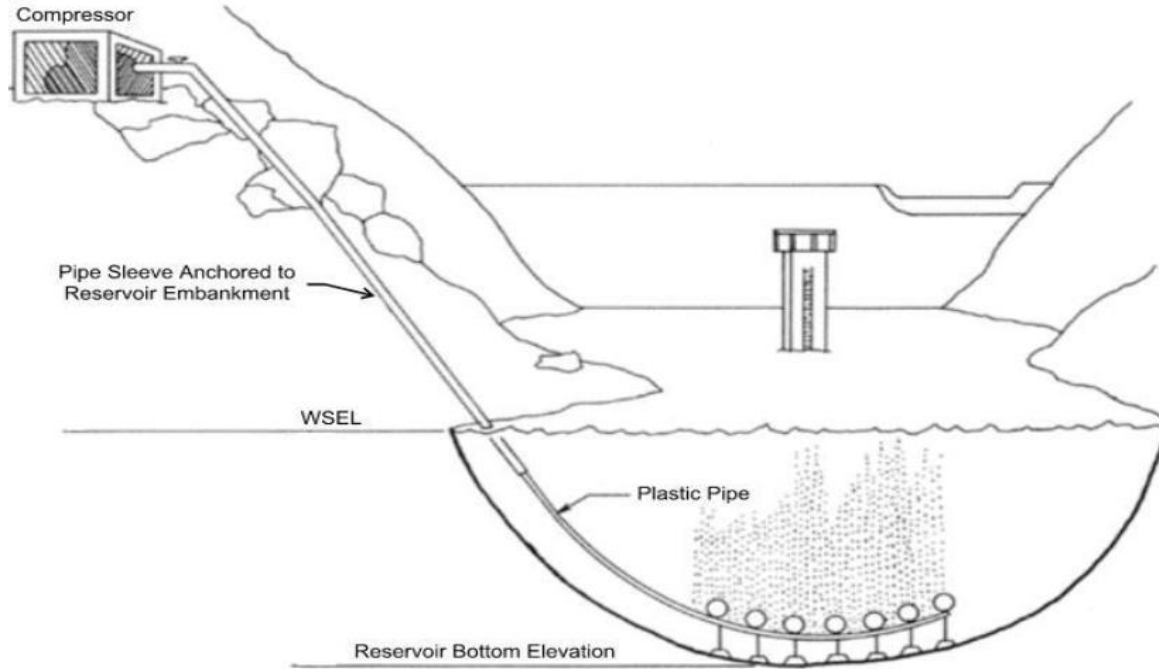


Background

- Sweetwater Reservoir experiences thermal stratification in spring and summer, leading to oxygen depletion in deeper waters, causing algal growth and other water quality issues.
- A lake aeration system, introducing air through diffuser, is known to enhance water quality, minimize algae bloom, stabilize chlorine residuals in the finished water resulting in less water complaints and increased consumer confidence.
- Hazen and Sawyer Study (2022) presented that the Aeration system supplying 680 cfm of air flow through the 2,000 LF of diffuser piping would be adequate for Sweetwater Reservoir Aeration.



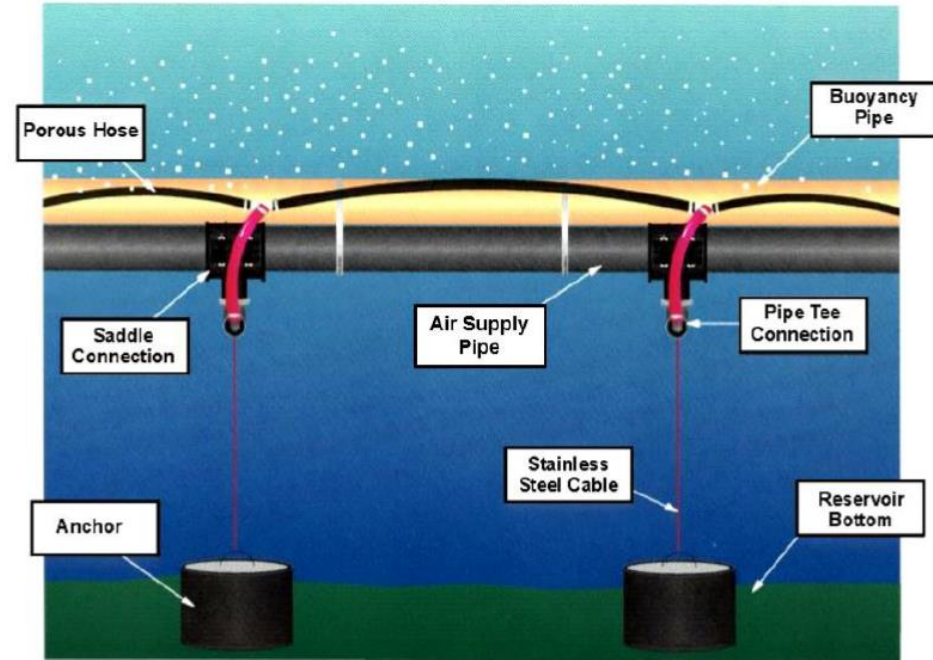
Aeration System



Aeration System-Concept



Upper San Leandro Reservoir in California

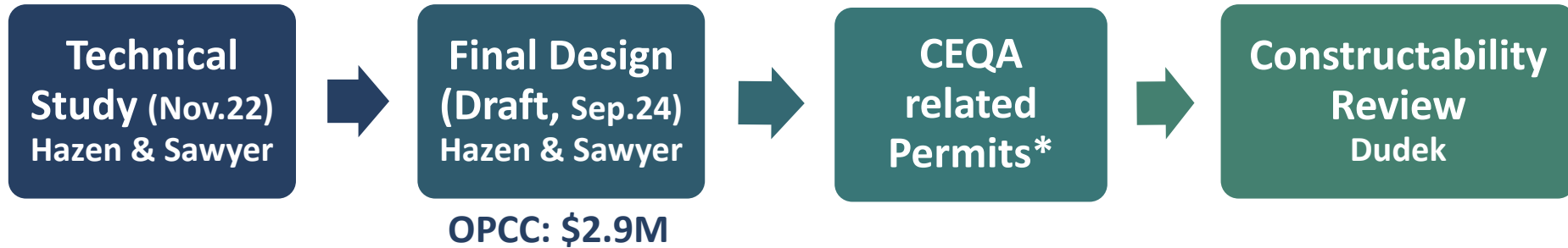


Source: <http://www.mobleyengineering.com/>

Aeration System for Sweetwater Reservoir



Project Activities



Agency	Permit	Status
U.S. Army Corps of Engineers	Clean Water Act Section 404 - Nationwide Permit for dredge and fill	Tentative approval (pending 401 WQC).
San Diego Regional Board	Clean Water Act Section 401 - Water Quality Certification (WQC)	Under review.
California Department of Fish and Wildlife	Lake and Streambed Alteration Agreement (LSAA)	Under review, expected completion of review by April 15, 2025.
California State, Division of Drinking Water	Water System Permit (CA3710025) Amendment	Permit Amendment request currently under DDW review.



Project Activities Intended

- Construction funds have been proposed in the FY 2025-26 budget, subject to Board approval.
- Staff hopes to advertise the project for construction bidding within FY 2024-25.
- Upon Board approval of the construction budget, staff intends to propose awarding the project early in FY 2025-26.



Fiscal Impact

Sweetwater Reservoir Aeration/Destratification System Project	
FY 2024-25 Project Budget	\$632,000
Less:	
FY 2024-25 for design and environmental	<366,511>
Constructability review	<u><6,000></u>
FY 2024-25 available project budget balance	\$259,489
Proposed FY 2025-26 Budget allocation	<u>3,300,000</u>
Project budget balance upon approval of the FY 2025-26 Budget	\$3,559,489
Less Cost:	
Engineer's Construction Estimate (including 10% Contingency)	<3,200,000>
Construction Management Estimate	<300,000>
Inspection and Monitoring during Construction	<u><50,000></u>
Estimated project budget balance	\$9,489



Options

1. That the Governing Board Direct the General Manager to Issue a Notice Inviting Bids for the Sweetwater Reservoir Aeration and Destratification System Project
2. Other Direction as Determined by the Governing Board.

Staff recommends Option 1



Questions?

