



WWTP Ballast Ponds 1 & 2 Interim Containment Design

Board of Directors | October 1, 2026

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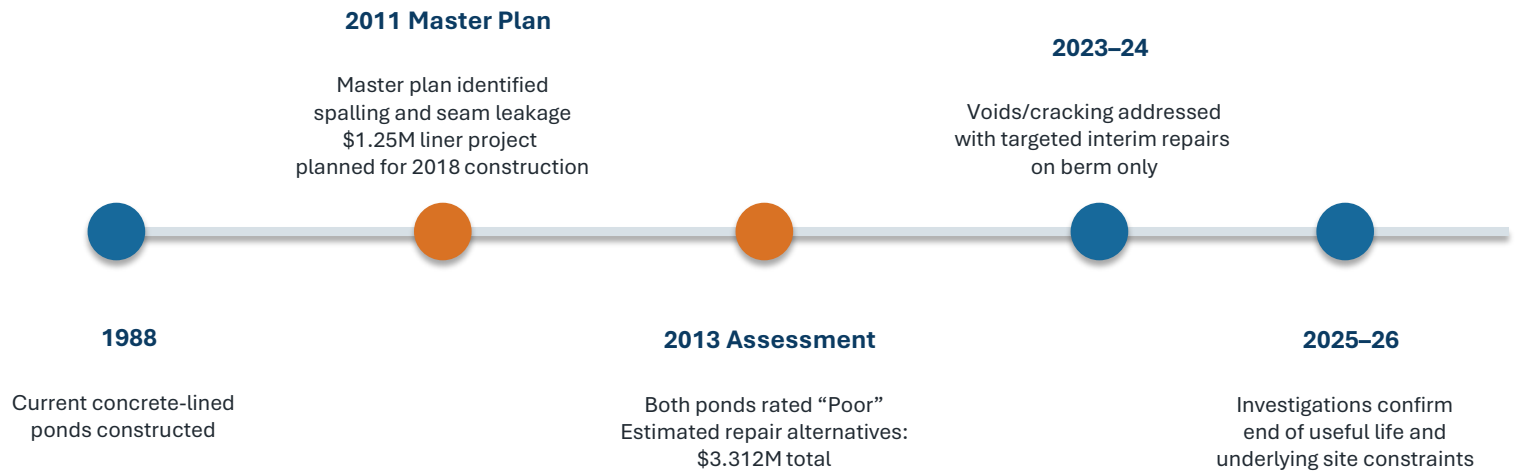
Requested action: Approve Water Systems Consulting, Inc. scope and authorize Task Order No. 14, Not to exceed \$152,978.

Authorization only for design and consultant services through bidding and construction.
Construction authorization will return for Board approval after final design and cost estimate.



Planning History and Escalating Urgency

Capital planning history and evolving condition findings



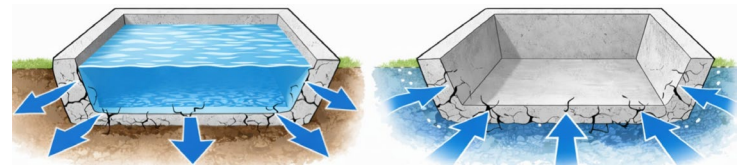
CIP schedules moved outward; targeted repairs maintained operation as the condition became more complex.



Why Local Repair Will Not Solve the Problem

Current investigations identify structural and geotechnical drivers—not just surface concrete defects

- Recurring cracking, spalling, joint deterioration, and deformation are visible in both ponds.
- Water movement through failed joints contributes to soil migration and voids below or behind the concrete.
- Variable subgrade support and shallow groundwater create uplift pressures that drive continuing distress.
- Conclusion: the existing concrete liners are at the end of their useful life.



Proposed Interim Containment

Near-term containment while the District refines the permanent solution

~\$3.1M

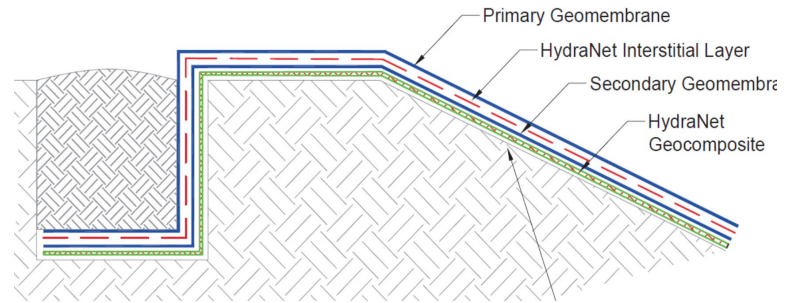
planning-level estimate

5–10 years

interim service life

Summer 2027

construction target



Conceptual liner system installed over the existing concrete.



Long-Term Alternatives & Next Steps

Planning-level concepts evaluated for permanent pond replacement

Alternative	Cost	Key consideration
Reinforced concrete pond replacement	~\$33.6M	Leading permanent concept. Preserves the gravity-fed operating approach and can be designed for groundwater and uplift constraints.
Above-grade / partially buried concrete tanks	~\$26M	Lower planning-level capital cost, but requires pumping, controls, and a more pump-dependent operating approach.
Ballasted liner concept	Screened out	Required ballast would materially reduce usable capacity and would not provide the desired long-term structural solution.

RECOMMENDED PATH Advance interim containment now; then revisit the leading permanent alternative, refine design constraints, and identify value-engineering opportunities before advancing design.

