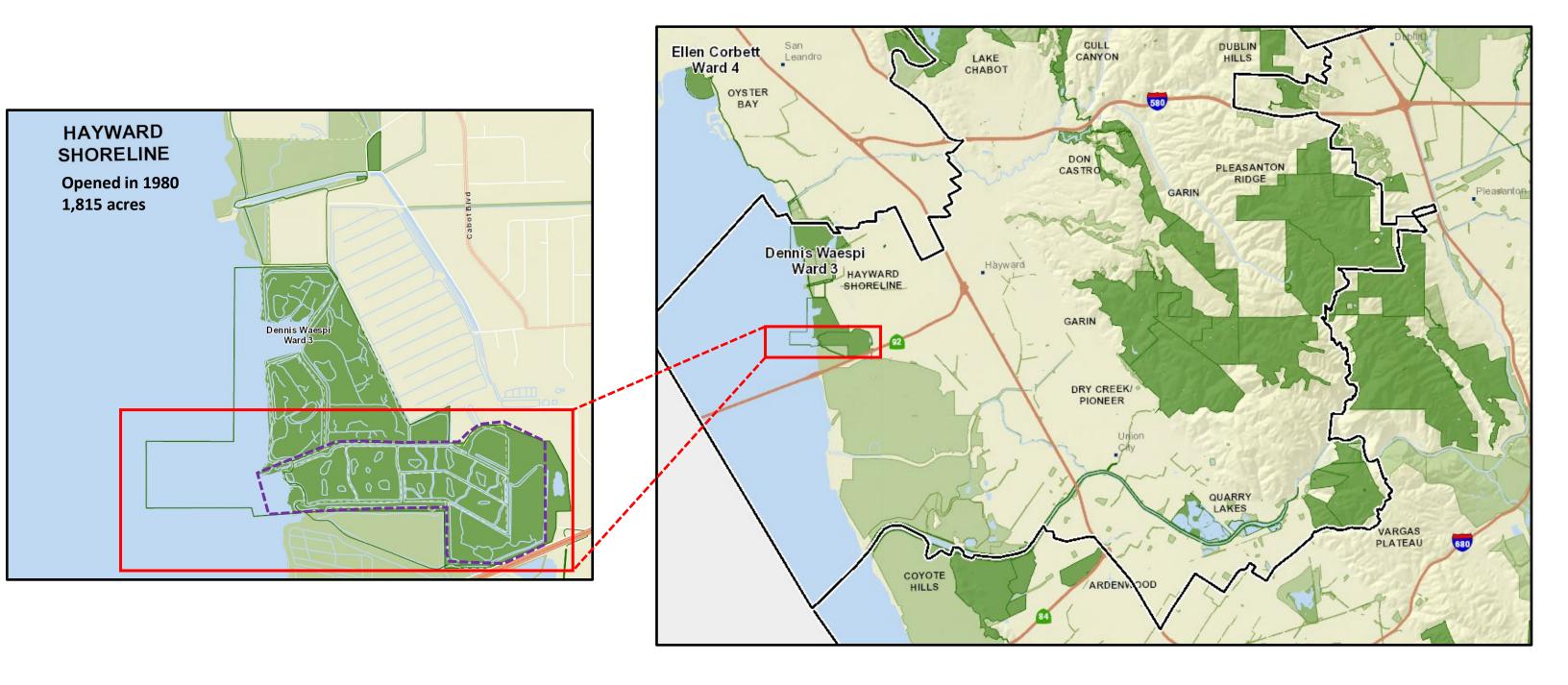
Hayward Regional Shoreline Restore Hayward Marsh (Former USD Treatment Marsh)

Board Executive Committee Update 9/14/21



Location

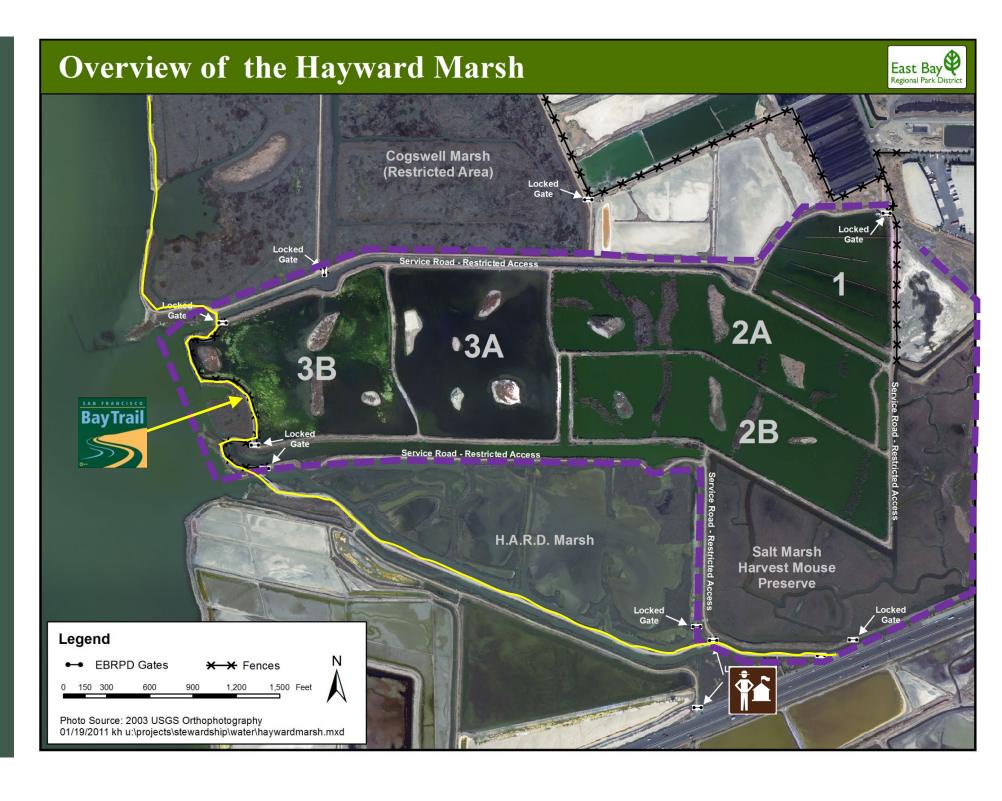




Background

Hayward Marsh (Project Area):

- Owned by Park District used by Union Sanitary District (USD) for wastewater treatment marsh
- 145 Acres, Constructed in 1985
- Designed to provide freshwater and brackish habitat
- Ponds and channels are silted, wastewater treatment no longer viable. USD to cease discharges.





Project Goals

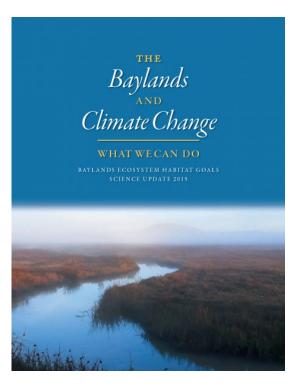
- Enhance Wildlife Habitat
- Plan for Sea Level Rise
- Improve Public Access Opportunities
- Improve Management Capabilities

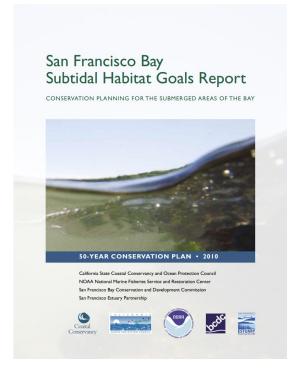


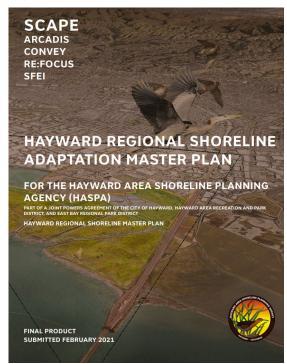


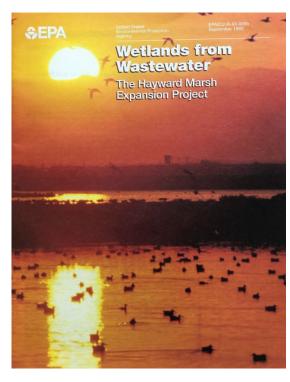
Guidance/Reference

- Baylands Ecosystem Habitat Goals Project
- Subtidal Habitat Goals Report
- HASPA Hayward Regional Shoreline Adaptation Master Plan
- Other SF Bay Restoration Projects
 - South Bay Salt Ponds Restoration
 Project
 - EBRPD Restoration Projects
- History of site-specific species management (Least Tern, Snowy Plover, Salt Marsh Harvest Mouse)











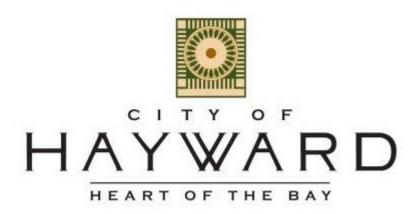
Scope and Schedule

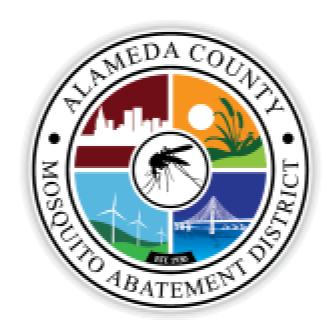
- ☑ 2020 Summer: <u>Board Award of Consultant Contract</u>

 (Scope Includes: Feasibility/Pre-Design, 35% Design, Assessment of Impacts/CEQA)
- ☑ 2021 Spring: Review Existing Information; Conduct Studies
 (Tidal monitoring, Phase I Hazmat, Geotech, Bio Resources, Wetland Delineation, Regulatory Coordination)
- ☐ **2021 Summer/Fall:** Schematic Design Formulation (Develop 3 design concepts)
 - Board Exec Committee, Public Workshop, Agency stakeholder outreach
- □ 2021/22 Winter: Project Description and 35% Concept Plan
 - Board Exec Committee (Recommendation Item), Agency and Stakeholder Outreach
 - Potential Board Action: Approve Project Description and 35% Concept Plan
- □ 2022 Spring/Summer: <u>Adoption</u>
 - Board Actions: Review and Consider Environmental effects, adopt CEQA Document, consultant contract to prepare construction documents and permits.



Agency Stakeholders





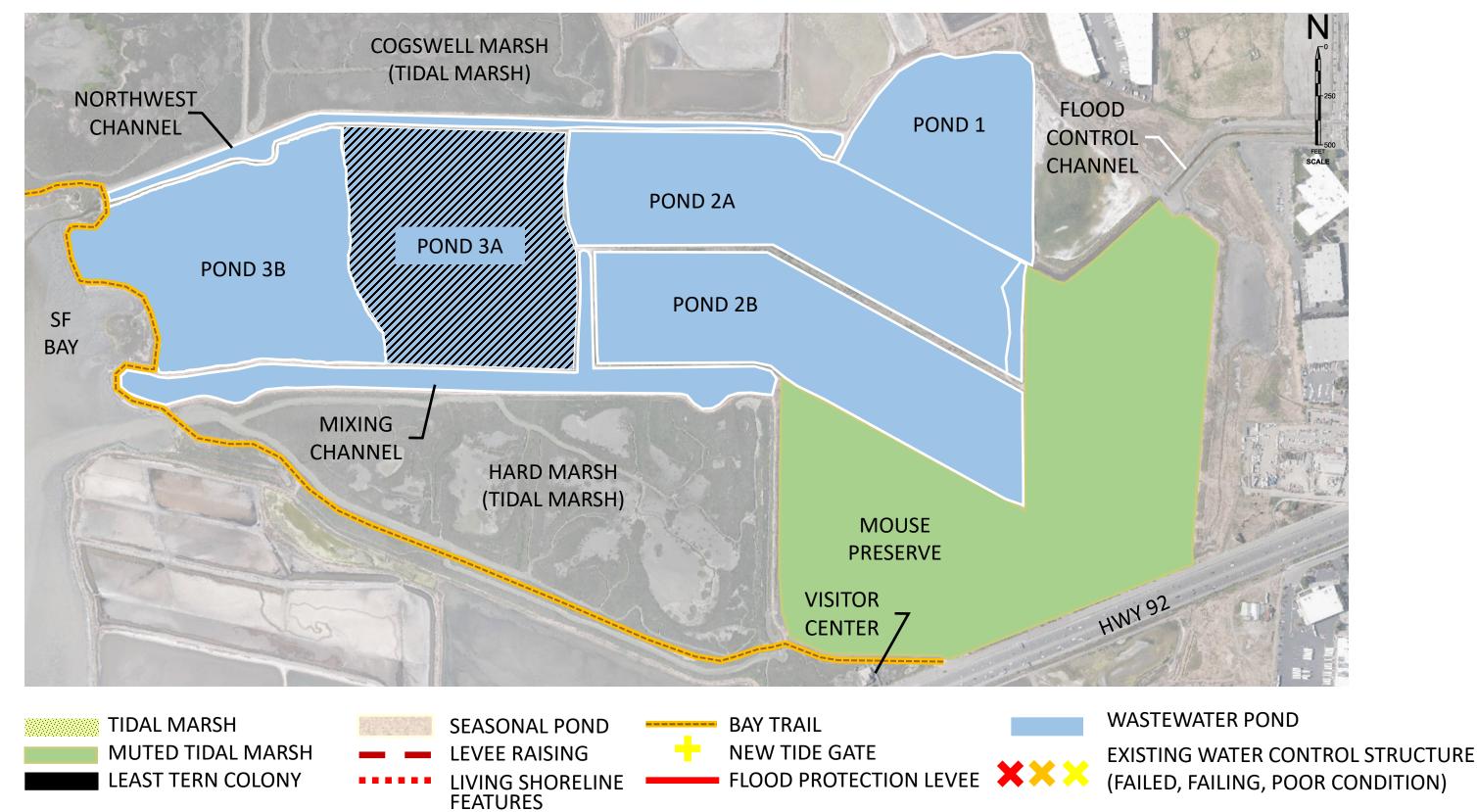




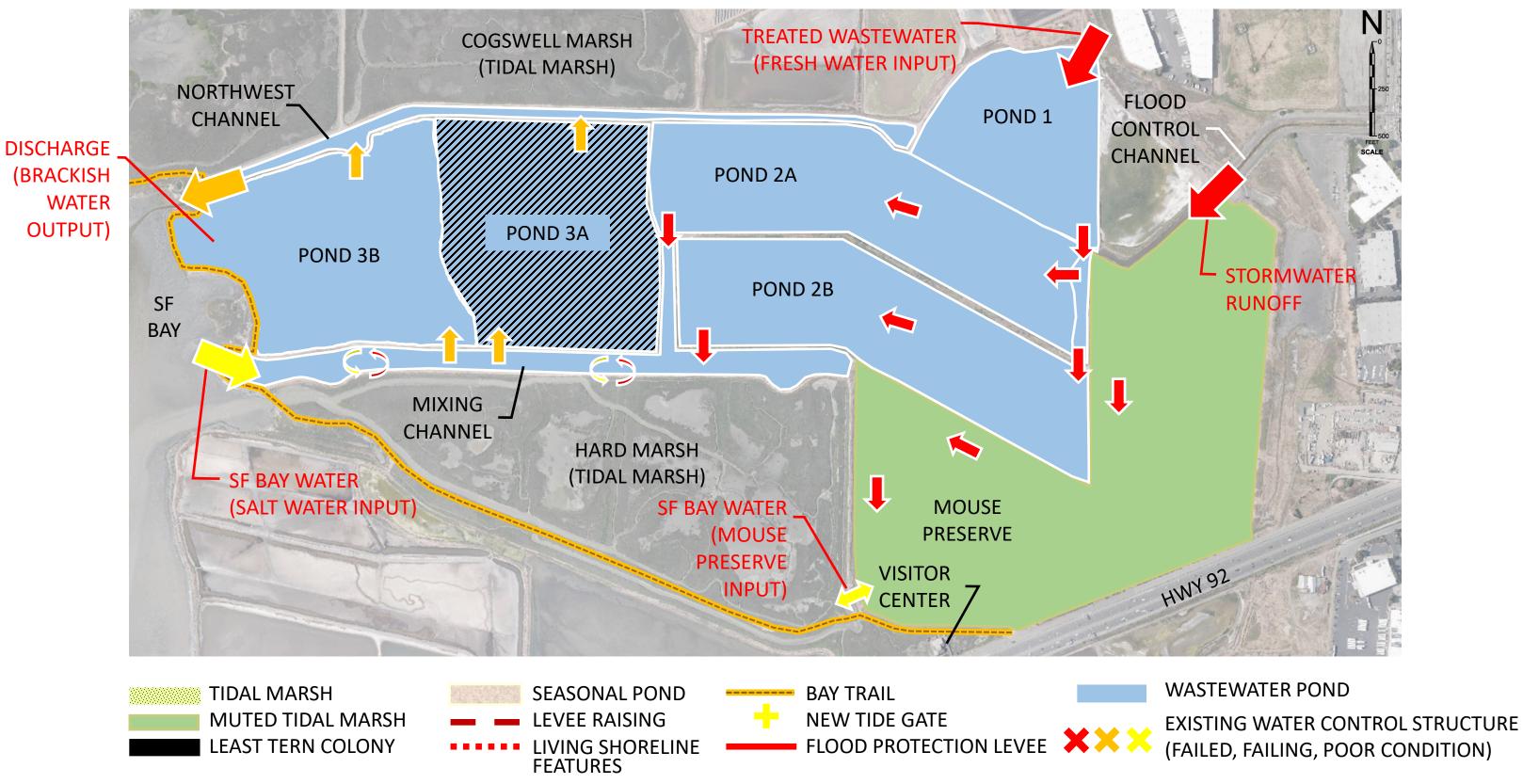




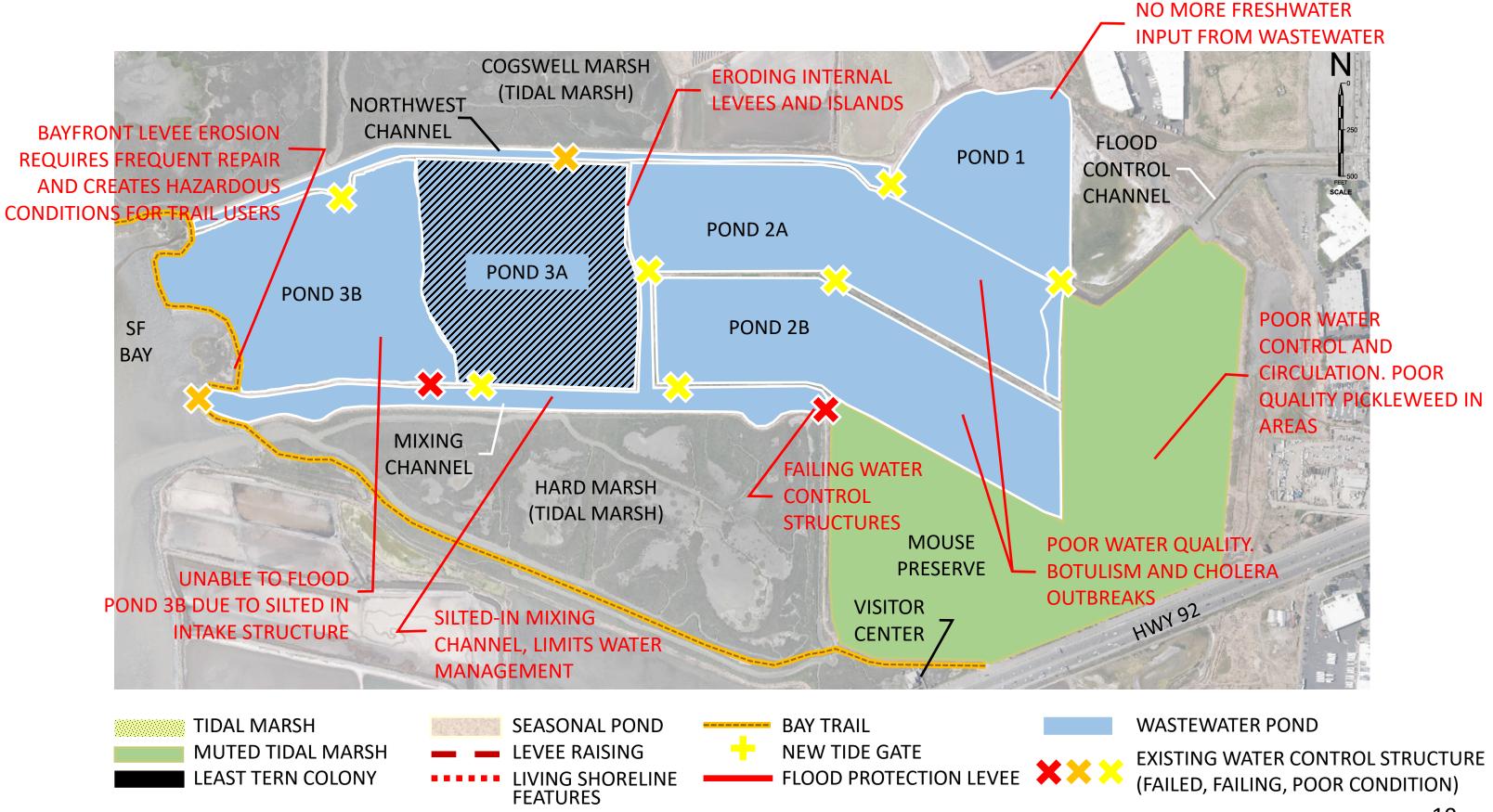
Existing Conditions



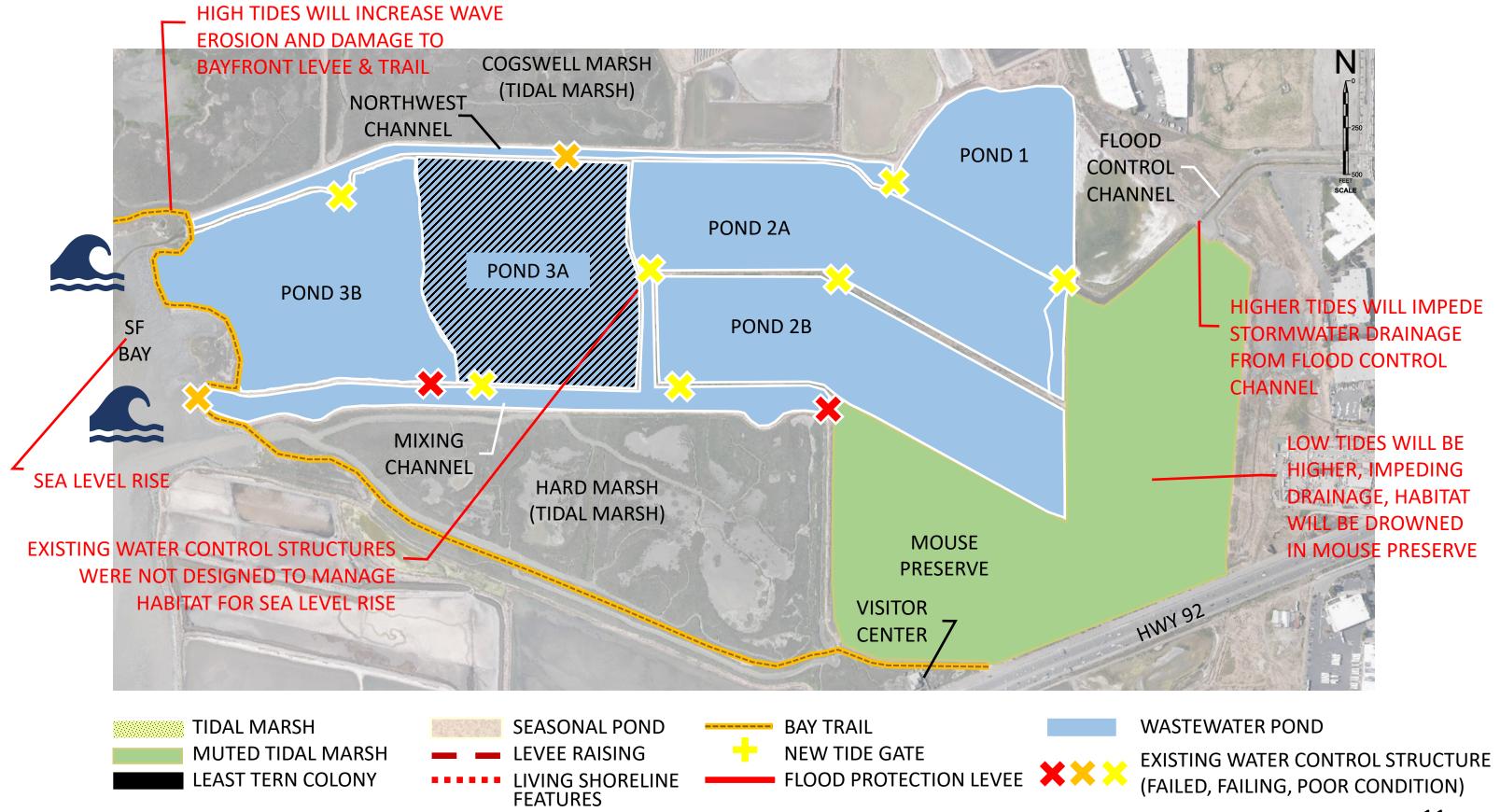
Existing Conditions: Pond Operation Summary



Existing Conditions: Challenges

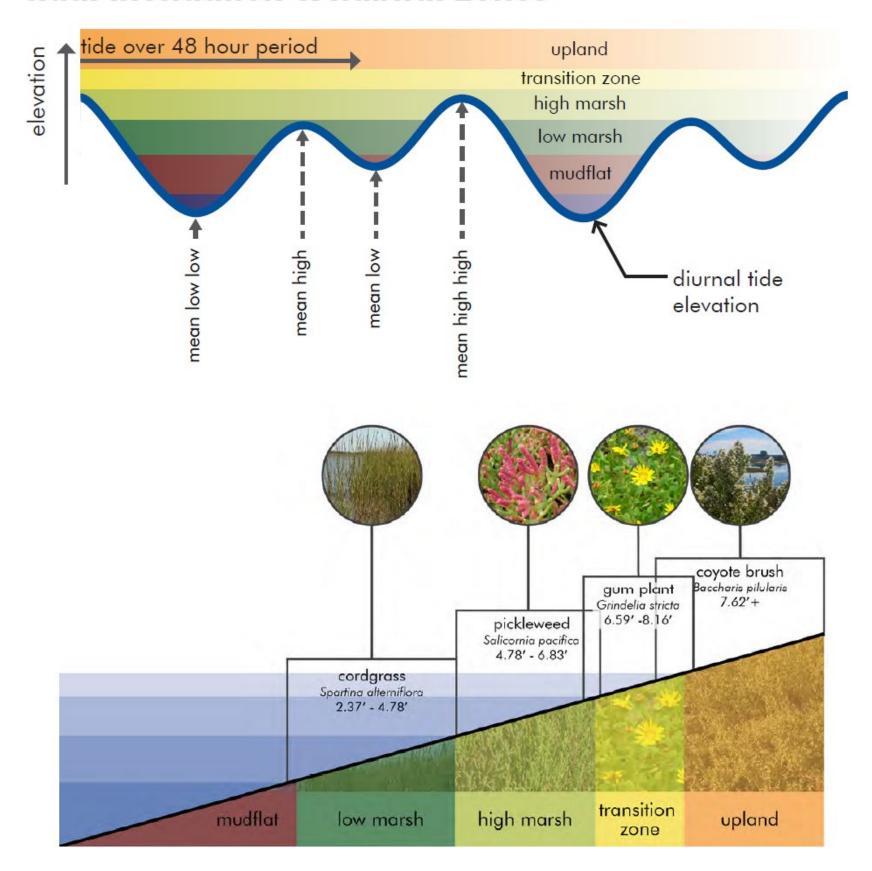


Sea Level Rise Challenges



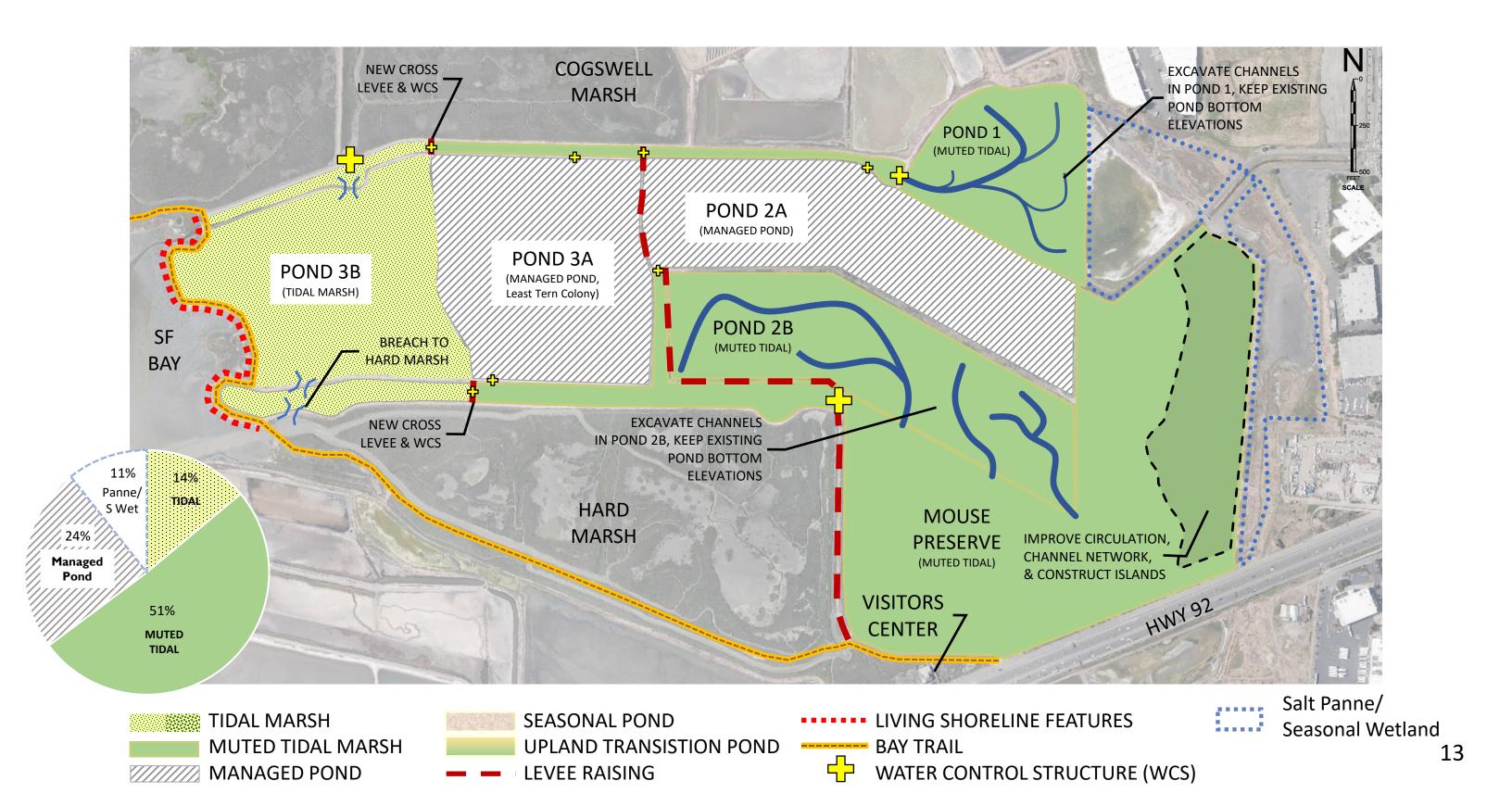
Review of Tides and Habitat

tidal inundation & habitat zones



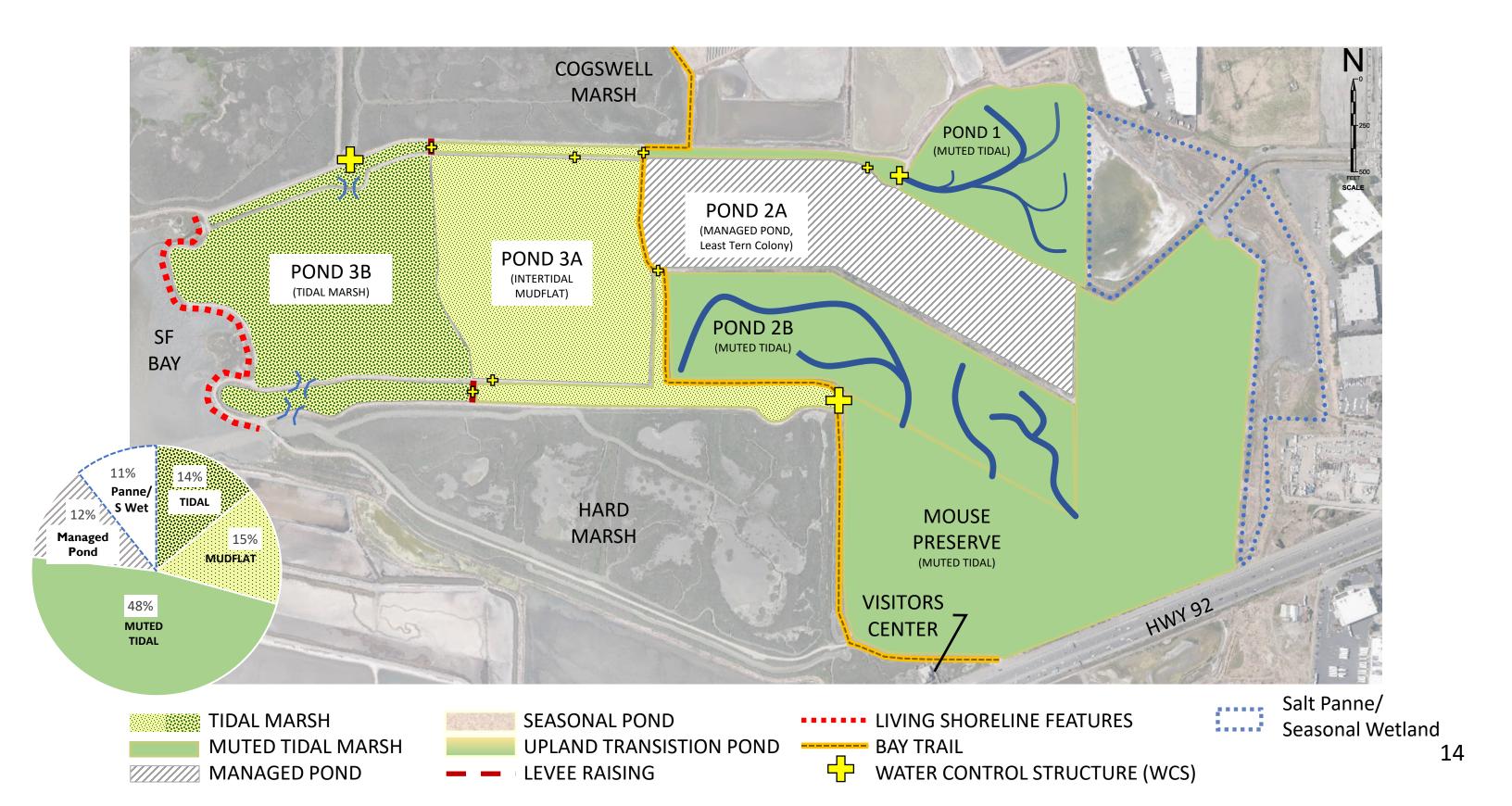
Option I: Maximize Near-Term Tidal

NEAR TERM • ~0-20 YEARS



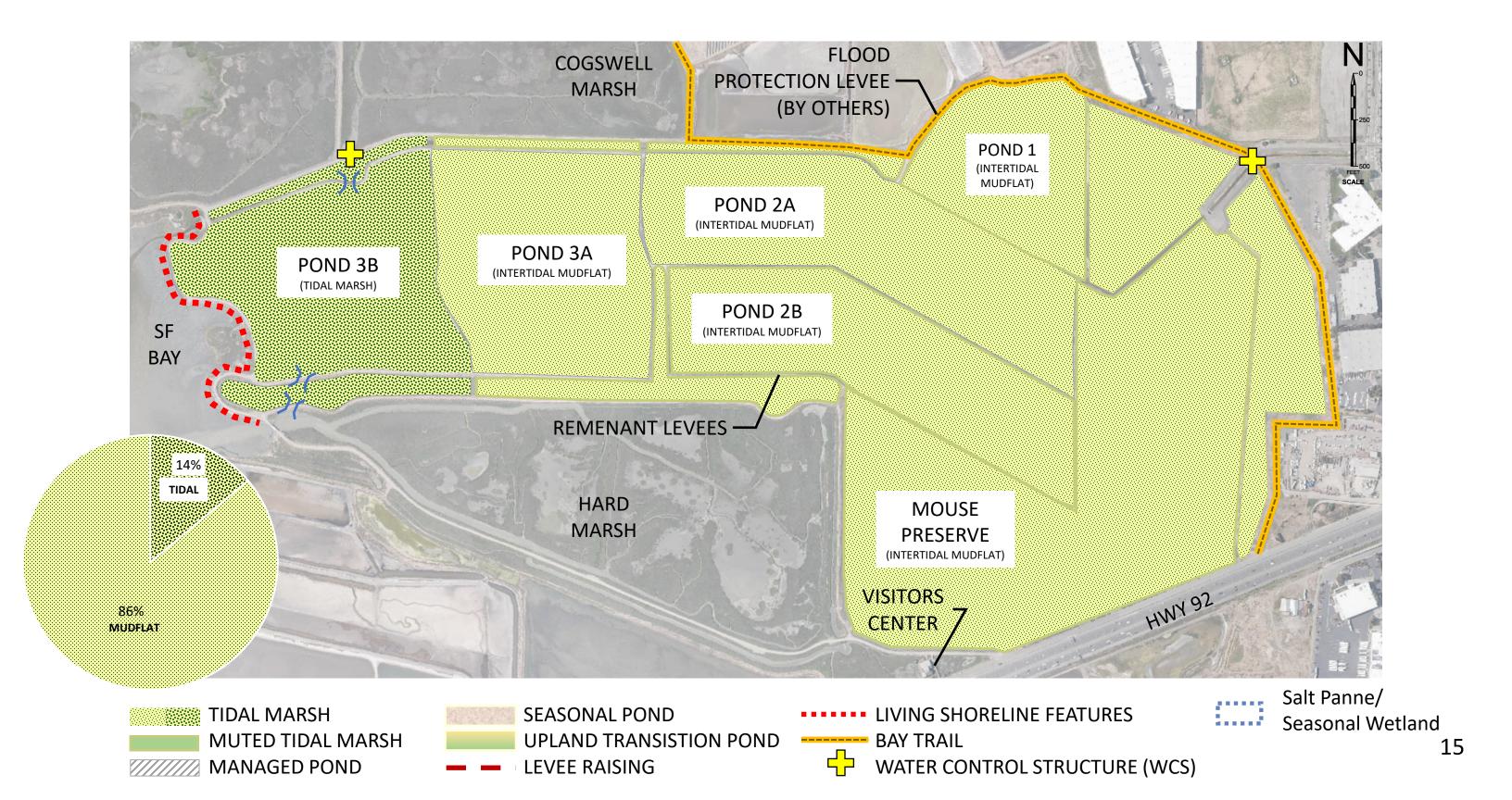
Option I: Maximize Near-Term Tidal

MEDIUM TERM • ~20+ YEARS (2FT SLR)



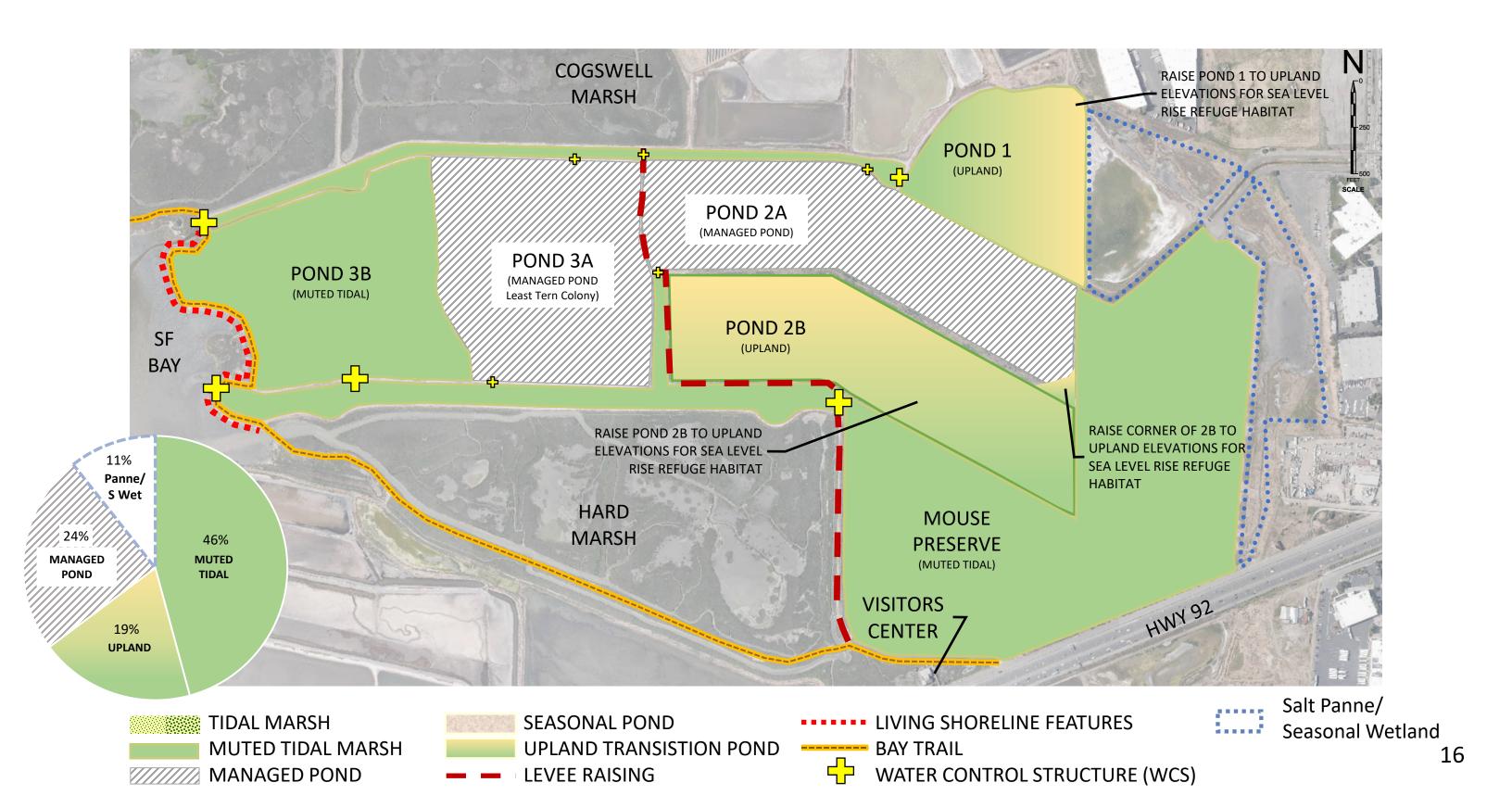
Option I: Maximize Near-Term Tidal

LONG TERM • 50+ YEARS (5FT SLR)



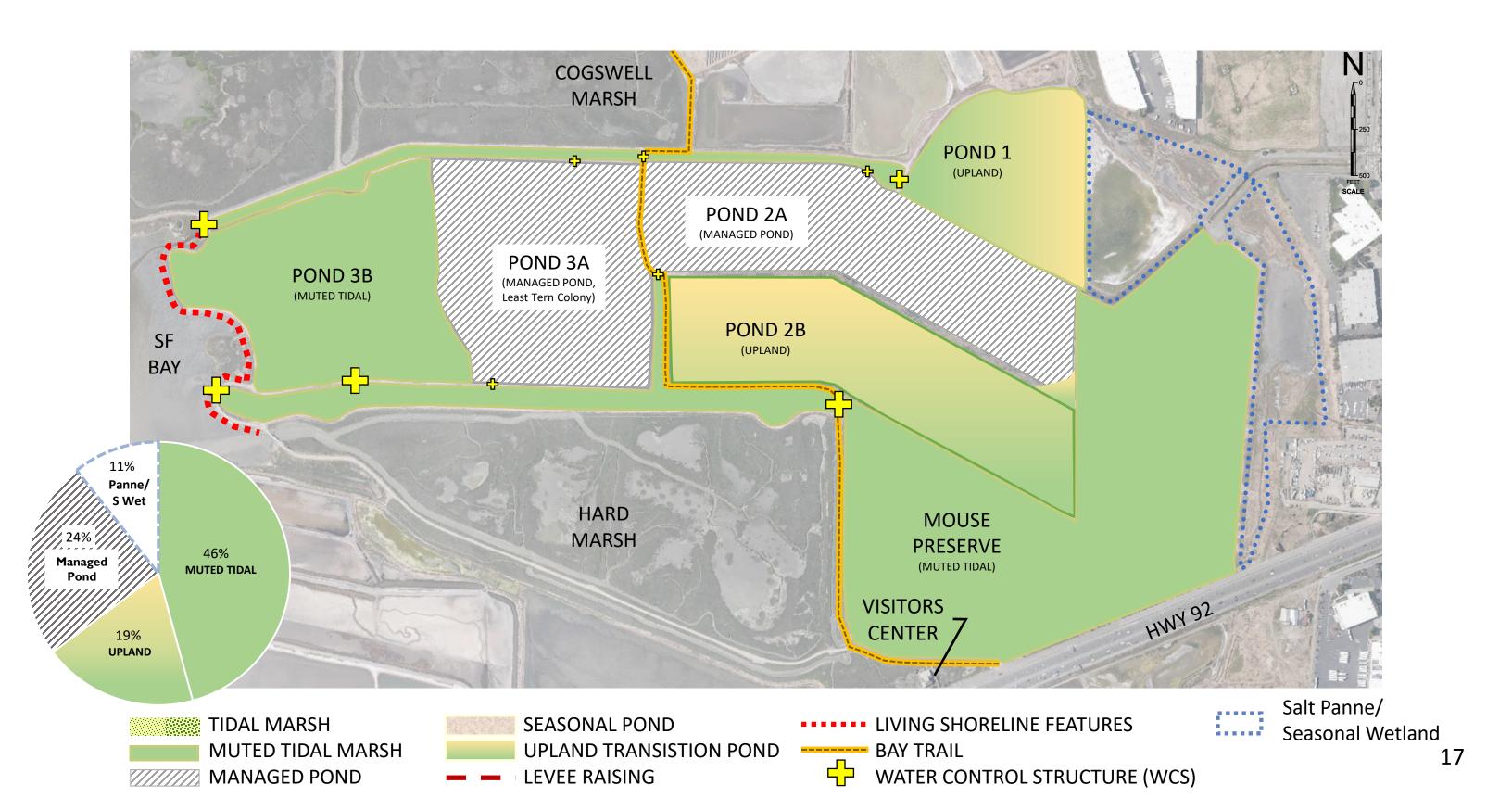
Option 2: Maximize Resilience to Sea Level Rise

NEAR TERM • ~0-20 YEARS



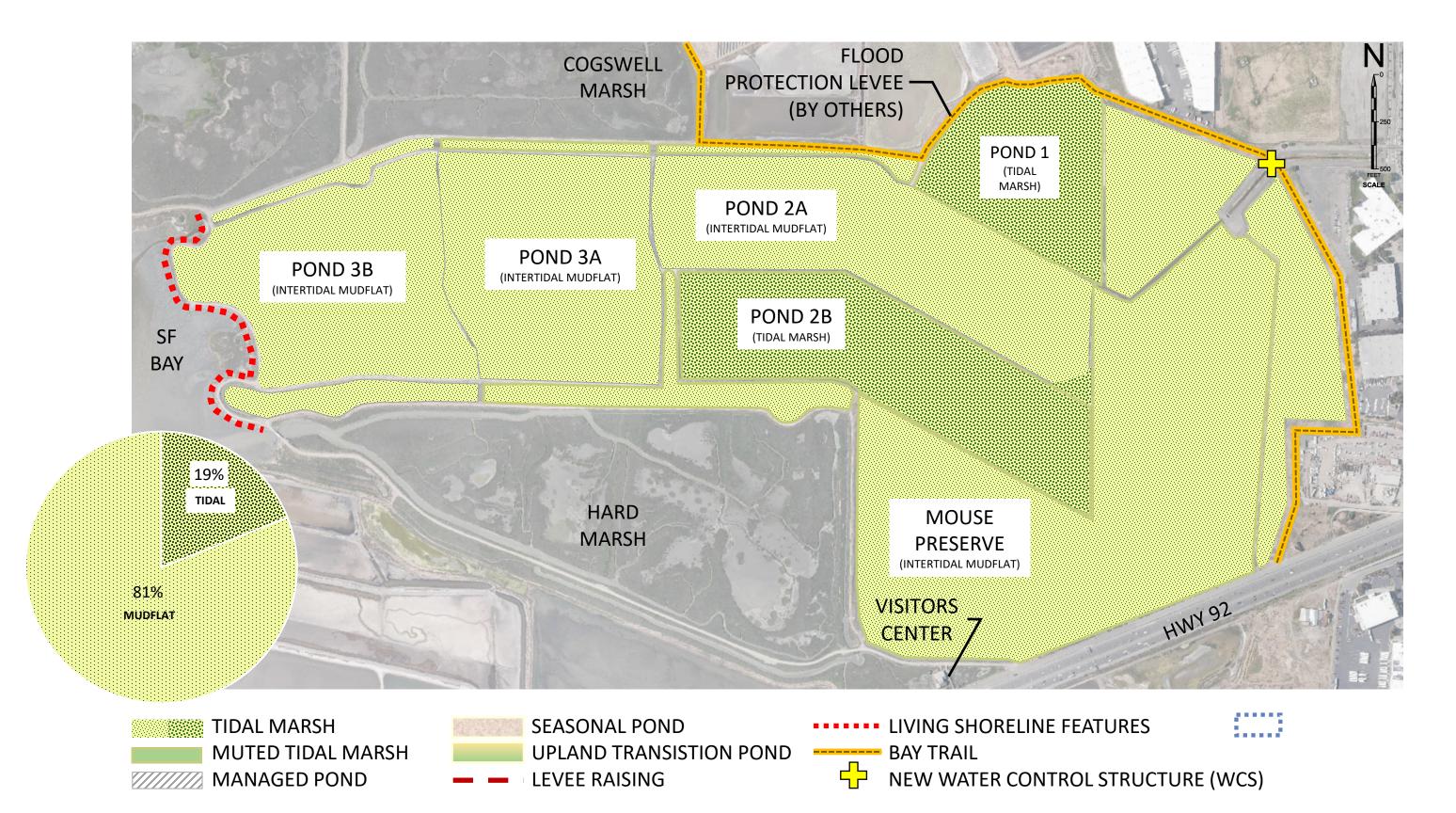
Option 2: Maximize Resilience to Sea Level Rise

MEDIUM TERM • ~20+ YEARS (2FT SLR)

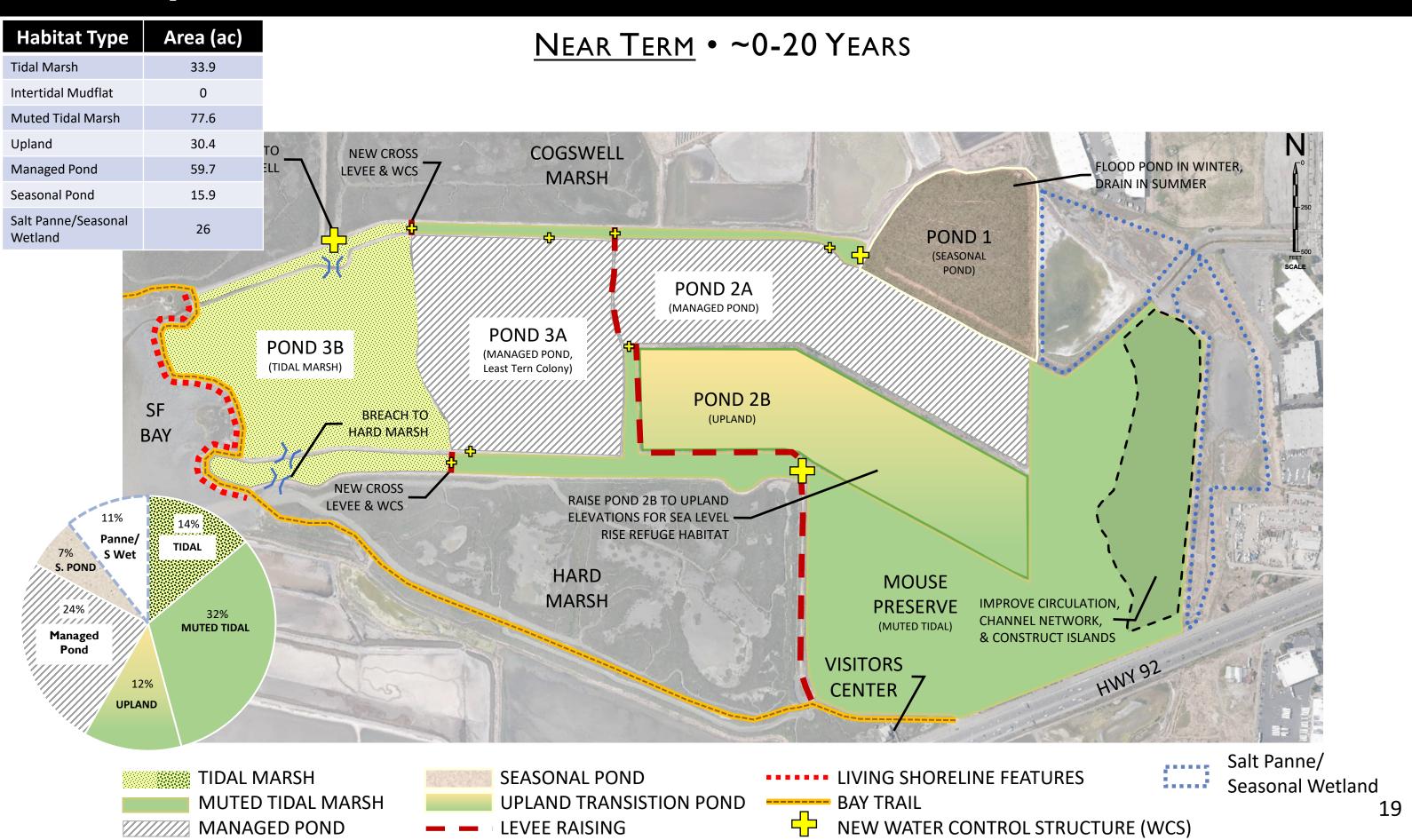


Option 2: Maximize Resilience to Sea Level Rise

LONG TERM • 50+ YEARS (5FT SLR)

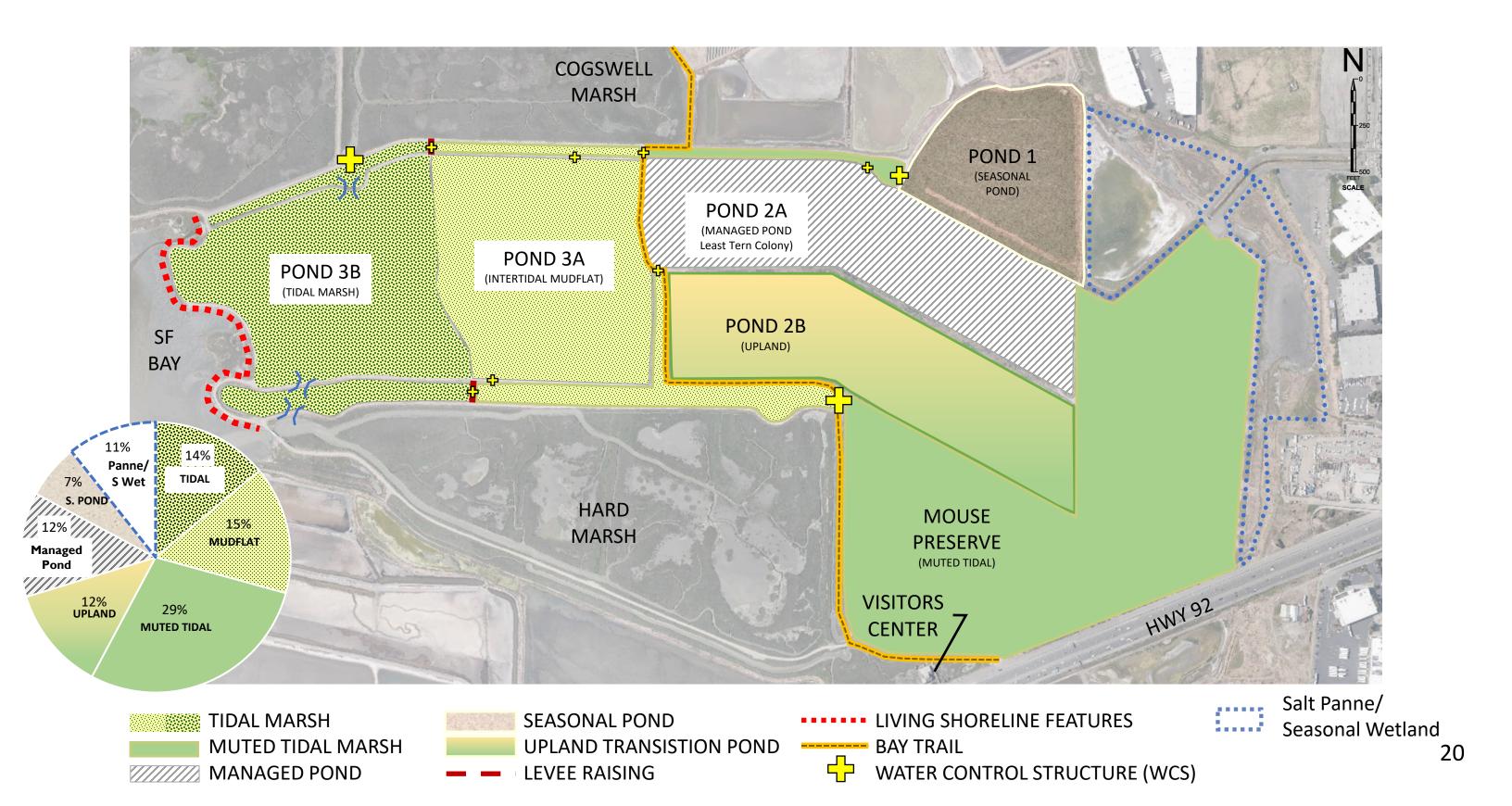


Option 3: Balance of Near-Term Habitat and Resilience



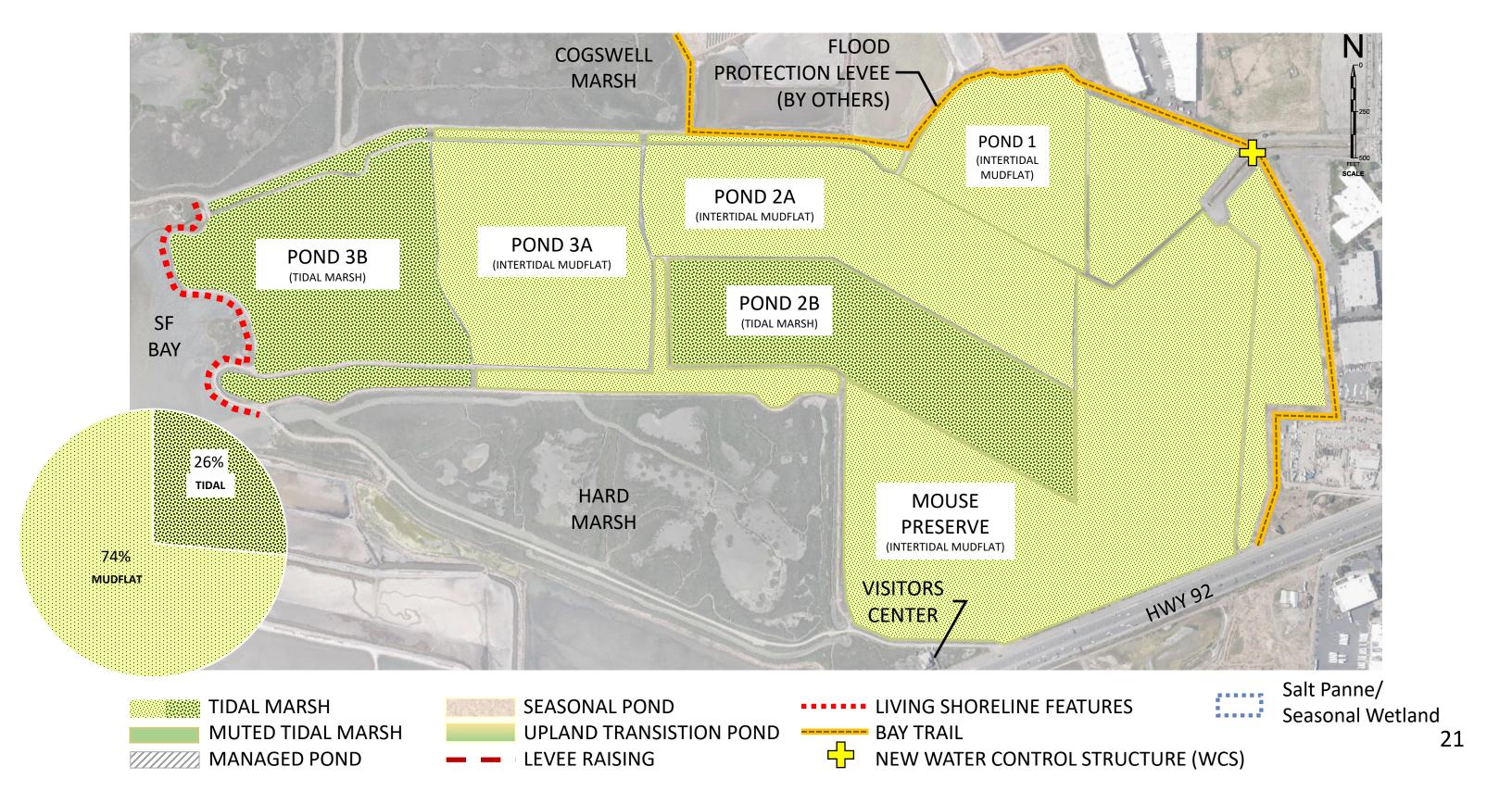
Option 3: Balance of Near-Term Habitat and Resilience

MEDIUM TERM • ~20+ YEARS (2FT SLR)



Option 3: Balance of Near-Term Habitat and Resilience

LONG TERM • 50+ YEARS (5FT SLR)



Evaluation of Project Goals

- Enhance Wildlife Habitat
- Plan for Sea Level Rise
- Improve Public Access Opportunities
- Improve Management Capabilities

	Term		
	Near Years 0-20	Medium 20 Years 2ft SLR	Long 50 Years 5ft SLR
Option 1: Maximize Near Term Tidal Marsh (\$20-\$26M)	+++	+	-
Option 2: Maximize Resilience to Sea Level Rise (\$26-\$32M)	++	+++	++
Option 3: Balance of Near- Term Habitat and Resilience (\$21-\$27M)	+++	+++	++



Scope and Schedule

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