

Port of San Diego Nature Based Solutions

Devon Beach P.E. Capital Project Manager – Engineering Construction

Tim Barrett Program Manager - Environmental Conservation

October 26, 2023

Port of San Diego Granted Lands

34

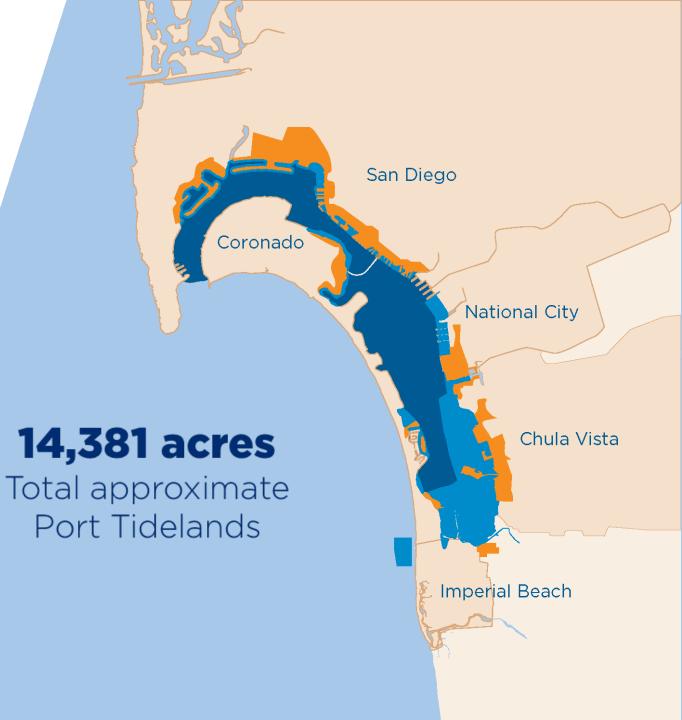
miles of waterfront

2,404 acres of Port Tidelands

3,677 acres of Submerged Tidelands prior to January 1, 2020

Approximately 8,300

acres of new Submerged Tidelands (subject to survey) as of January 1, 2020



Blue Economy Incubator



ESTABLISHED INDUSTRIES

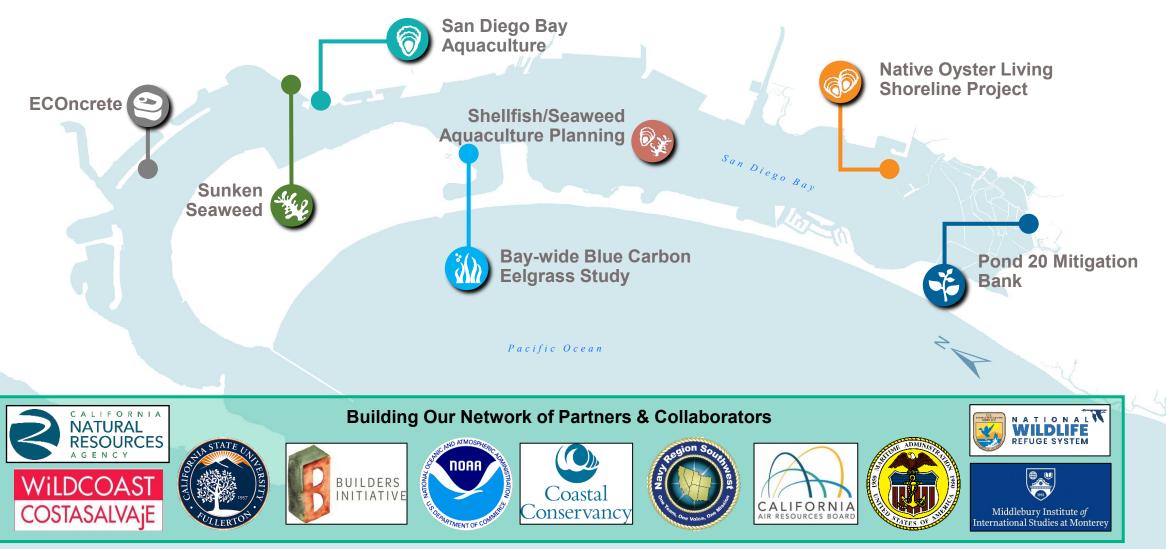


EMERGING INDUSTRIES

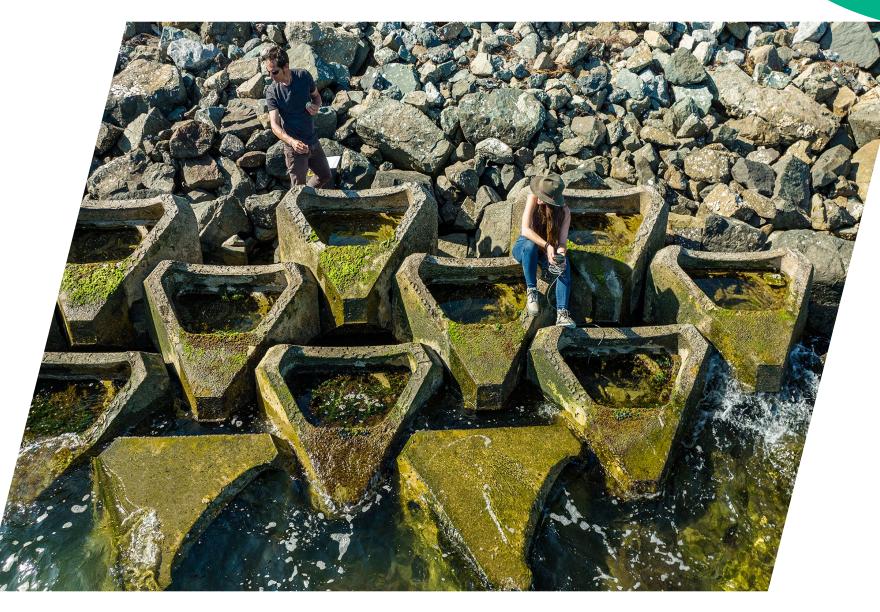




Building a Profile of Nature-Based Solutions







ECOncrete COASTALOCK Tidepools



Habitat - Structural SOLUTIONS

Project Site Harbor Island





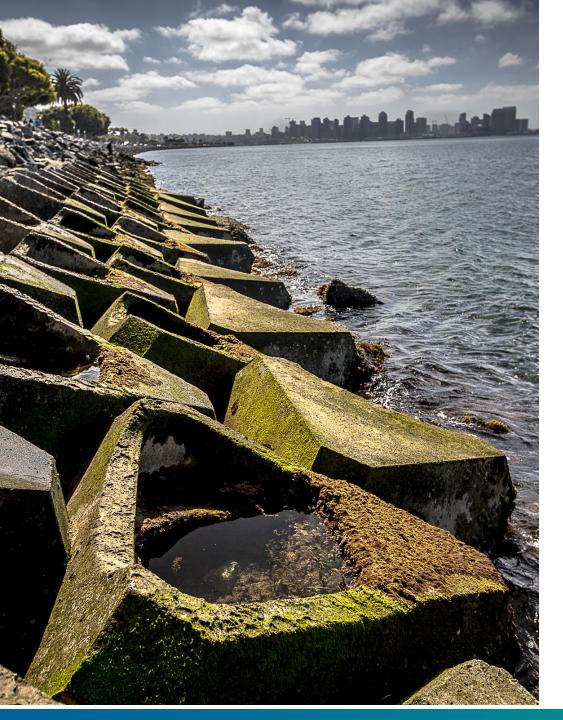








Deployment



Project installed in March 2021

Semi-annual Monitoring for 2 years

- Species composition / richness / diversity
- Organic / inorganic material composition
- Structural integrity evaluation

Project Performance to Date

- Increasing trends of species richness and diversity compared to existing rock revetment in place for decades
- Active tide pool relationships present
- Water retention has amplified composition
- No structural concerns to date











8 Month Post-Deployment Monitoring





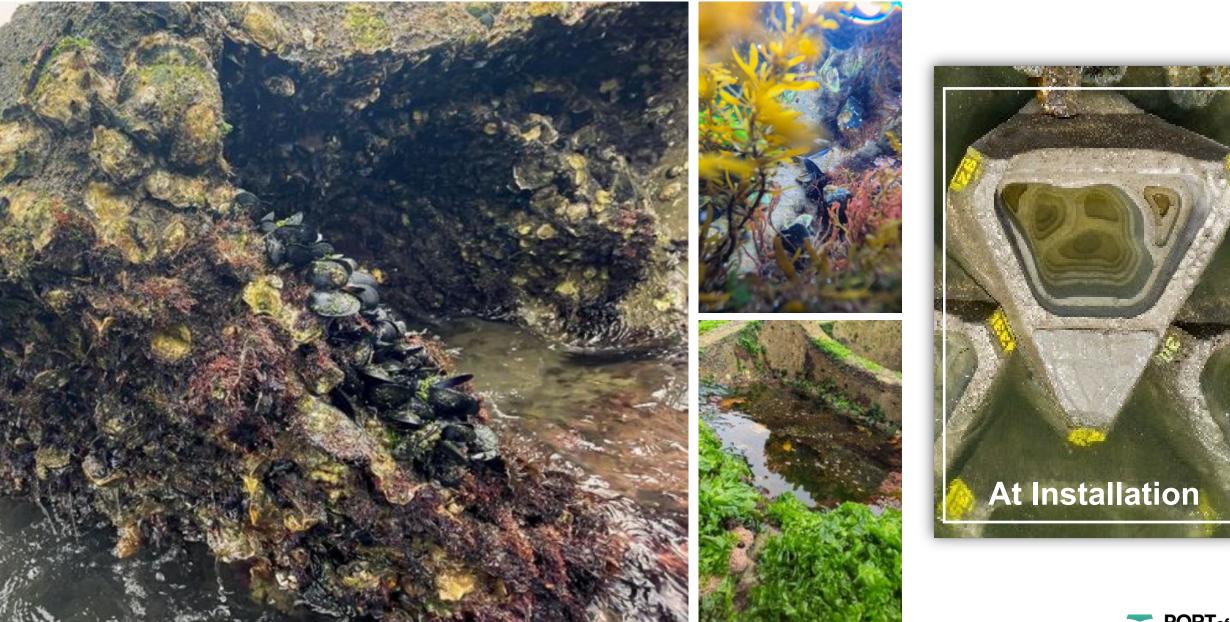


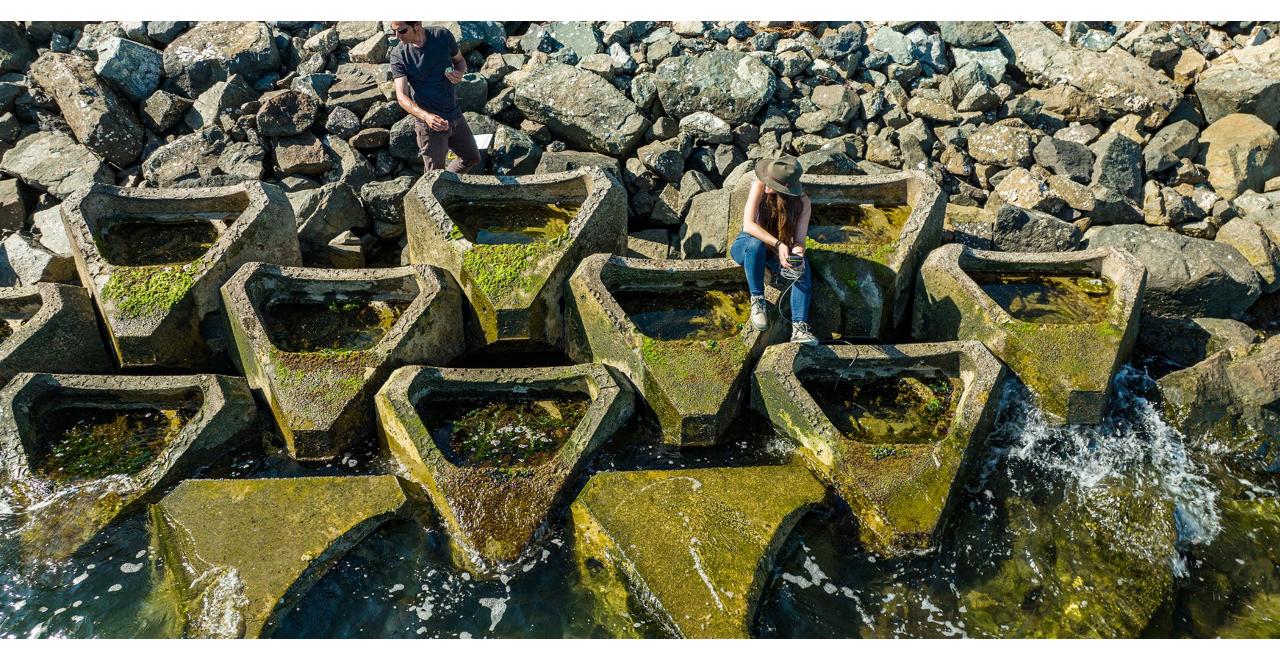














CAPITALIZING ON THE MOMENTUM OF THIS PROJECT

New Projects

Harbor Island = ~450 linear ft of existing armored shoreline – NOAA funding
Sweetwater Channel = ~1,000 linear ft of existing armored shoreline – SEP funding

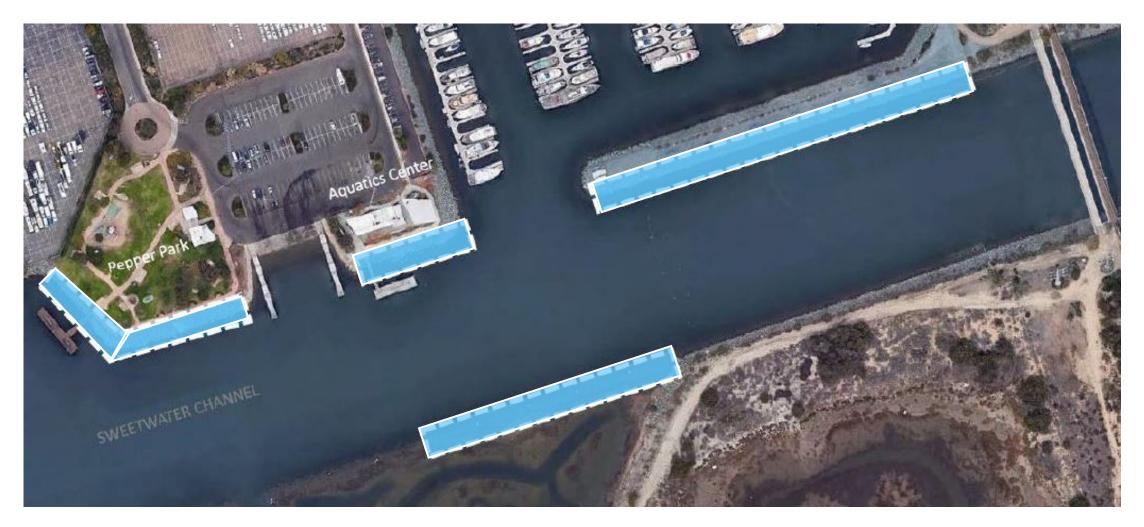


Proposed Scope: Harbor Island Replace existing riprap, ~450' linear of with habitat-friendly shoreline structures Funding support from NOAA

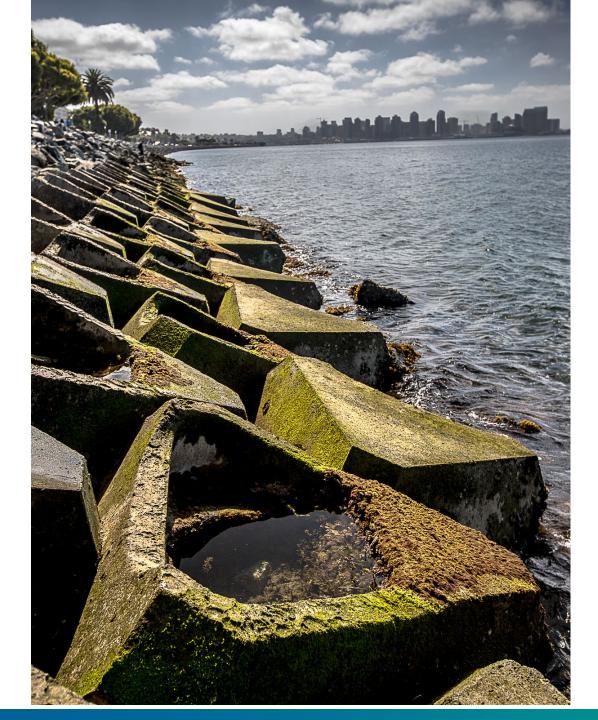




Proposed Scope: Sweetwater Flood Control Channel Replace existing riprap, ~1,000' linear with habitat-friendly structures shoreline Proposed funding from – City of San Diego/RWQCB - SEP







Questions

Thank you

Devon Beach Capital Project Manager, Engineering-Construction dbeach@portofsandiego.org

Tim Barrett Program Manager, Environmental Conservation tbarrett@portofsandiego.org

