



Why is the South End Project Important?

The communities surrounding the South End of Bolinas Lagoon face frequent flooding that is likely to worsen with sea level rise and increased storm intensity. If the habitat along Calle del Arroyo and the eastern span of Dipsea Road is not restored, rising sea levels and storm flooding will all but eliminate refugia for plant and wildlife species and undermine access to surrounding trails and roads.

The South End Living Shoreline Project will benefit the communities of Seadrift and Stinson Beach in the following ways:

- Reduce shoreline erosion
- Protect road access and driver safety
- Reduce impacts from flooding and sea level rise
- Restore coastal trail access
- Establish transitional habitat for plants and wildlife as sea levels rise
- Improve overall health and function of Bolinas Lagoon



Flooding at a low lying area (approx. 500ft) between Walla Vista and Sacramento Patio along Calle del Arroyo. Photo was taken during a king tide event on November 24, 2015



Steep eroding embankment along the vegetated area between Dipsea Road and Bolinas Lagoon. High-velocity currents, combined with riverine outflow of Easkoot creek, and tidal flows in and out of Bolinas Lagoon contribute to shoreline erosion.

What is the South End Project?

The South End Project will help the human and marine environments of Stinson Beach and Bolinas Lagoon adapt to current and future environmental changes. Using nature-based living shoreline techniques along the edge of Dipsea Road and Calle del Arroyo, the project will create transitional habitat to reduce erosion and allow plant and animal species to adapt to rising sea levels. The project will help reduce the frequency and severity of flooding and protect critical roads, utilities, and homes in the area.

The South End Project is lead by Greater Farallones Association in partnership with Marin County and the communities of Stinson Beach and Seadrift.

Community-Supported and Scientifically Sound

The South End project is taken directly from the 2008 *Bolinas Lagoon Ecosystem Restoration Project: Recommendations for Restoration and Management* (i.e. Locally Preferred Plan), under 6b.



South End Living Shoreline Project area includes Calle del Arroyo in Stinson Beach and the eastern stretch of Dipsea Road within the Seadrift Community.

Contribute to this project at:

www.farallones.org/bolinas/

For more information contact:

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What is a Living Shoreline?

Living shorelines use natural elements (native plants, shells, woody debris, rock) to stabilize and strengthen shoreline resilience against future changes. Contrary to traditional hard structures, living shorelines can reduce up front and maintenance costs, establish connectivity between land and water resources, improve water quality, and sequester carbon.