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Low Impact Development/Green Infrastructure in the SF Bay Area

Bay Area Watershed Network

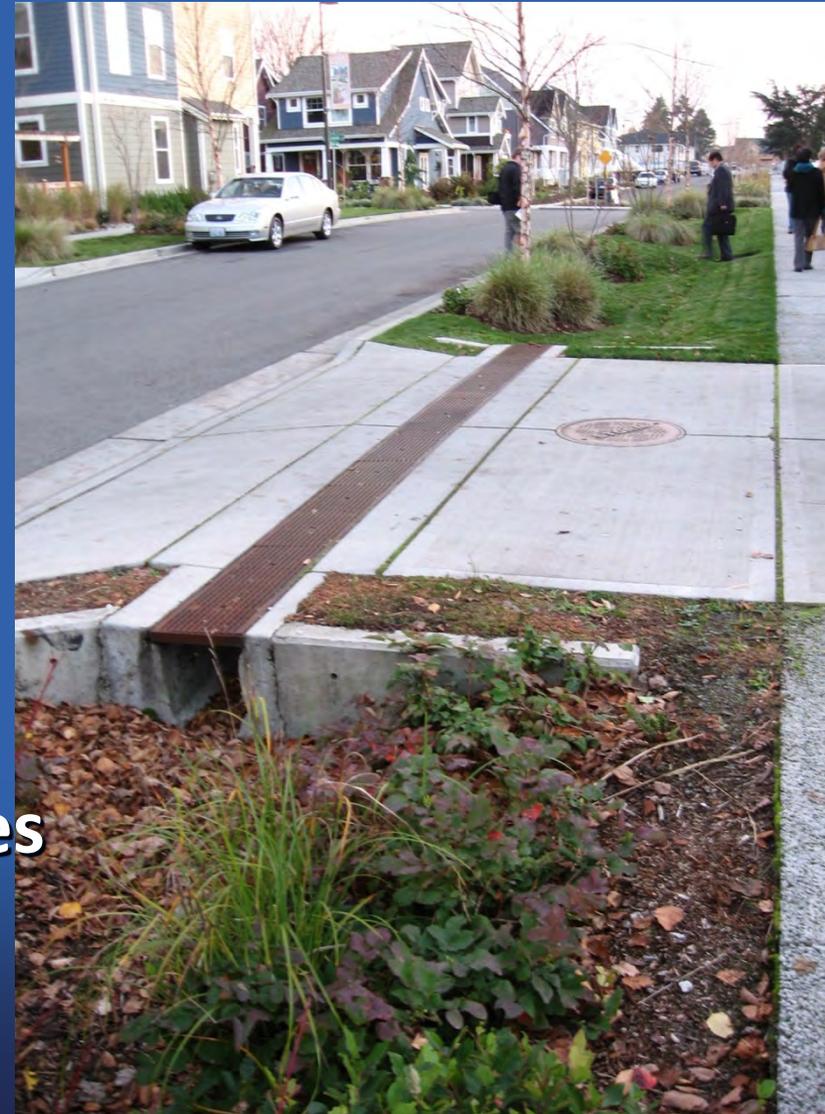
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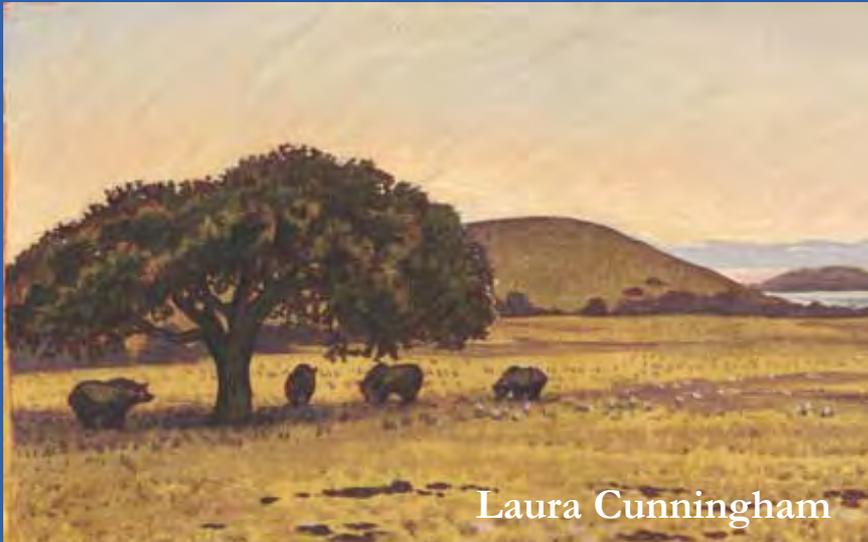
Josh Bradt, Project Manager, SF Estuary Partnership





- ❖ LID Overview
- ❖ Projects in the Bay Area
- ❖ Next Steps for Increased Use
- ❖ Green Infrastructure Resources





Laura Cunningham



Laura Cunningham

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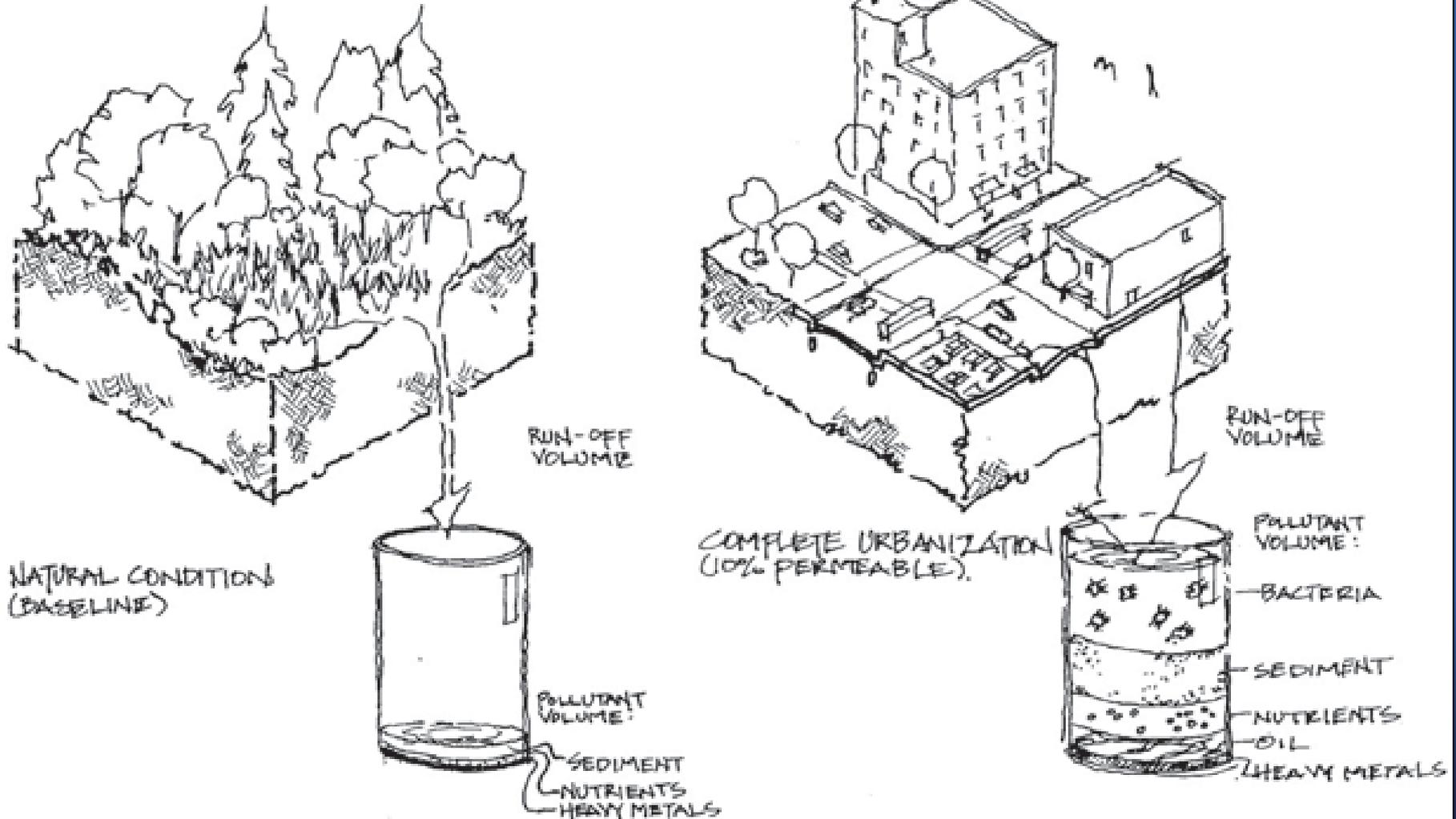


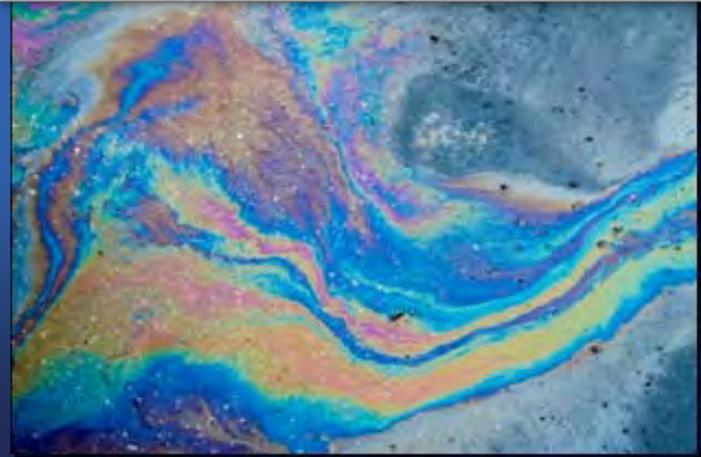
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Credit: *Stormwater Guidelines for Green, Dense Redevelopment*,
City of Emeryville, 2005





Working Together Towards Solutions



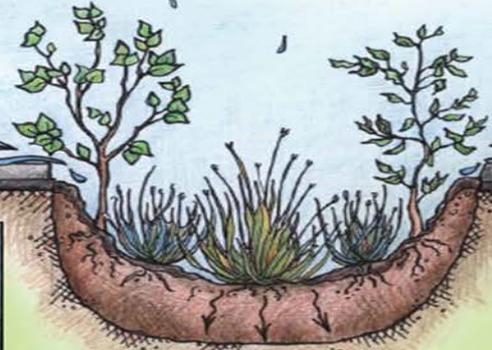
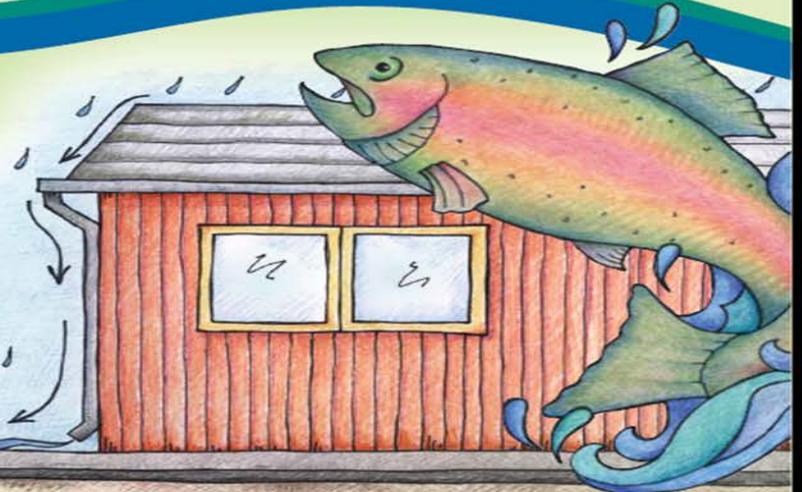


LOW IMPACT DEVELOPMENT/GREEN INFRASTRUCTURE

SWALES for THE BAY

The bioswale you see

before you is designed to intercept and filter the pollutants running off of the parking lot and buildings before they reach Codornices Creek (just to your left) during the rain. The creek is home to a threatened population of steelhead, aka rainbow trout, as well as other native fish that live and spawn in its waters. The fish are supported by small critters at the base of the food chain that rely on clean water in the creek to survive. The soil and the plants in the swale do all the work, acting as nature's filtration systems and keeping creek waters healthy.



This "before" photo shows the site before the curbcut was excavated and planted.

Codornices Creek flows from high in the East Bay Hills to San Francisco Bay to the west. Over the years, many state and local dollars—and volunteer elbow grease—have gone toward restoring the creek, returning its meanders and restoring habitat for fish and other wildlife. The Codornices Creek Watershed Council works to promote, protect and restore the watershed.
<http://www.codornicescreekwatershed.org/>

The bioswale is planted with California natives, including juncus, California fescue, redbud, alder, big-leaf maple, native California grape, and others. The plants provide habitat for native birds: at one time, California quail thrived along the creek.

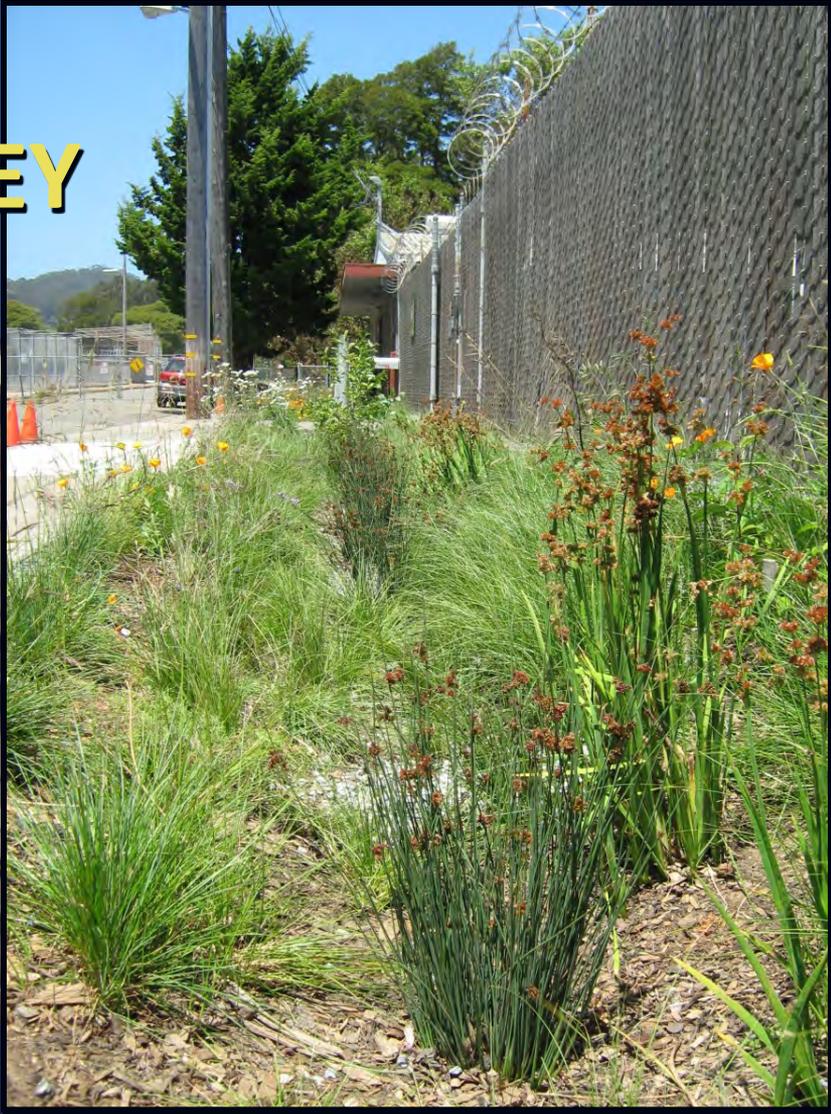


This project was funded by the Alameda County Clean Water Program and the San Francisco Estuary Partnership and by in-kind contributions from Daniel Dole and the Codornices Creek Watershed Council.





BIOSWALES IN BERKELEY



Low Impact Development Strategies



Credit: Todd Eberle, *Vanity Fair*



Credit, Friends of Mint Plaza



Credit: Treadwell & Rollo, website



Adeline Street Curb Extension, Emeryville



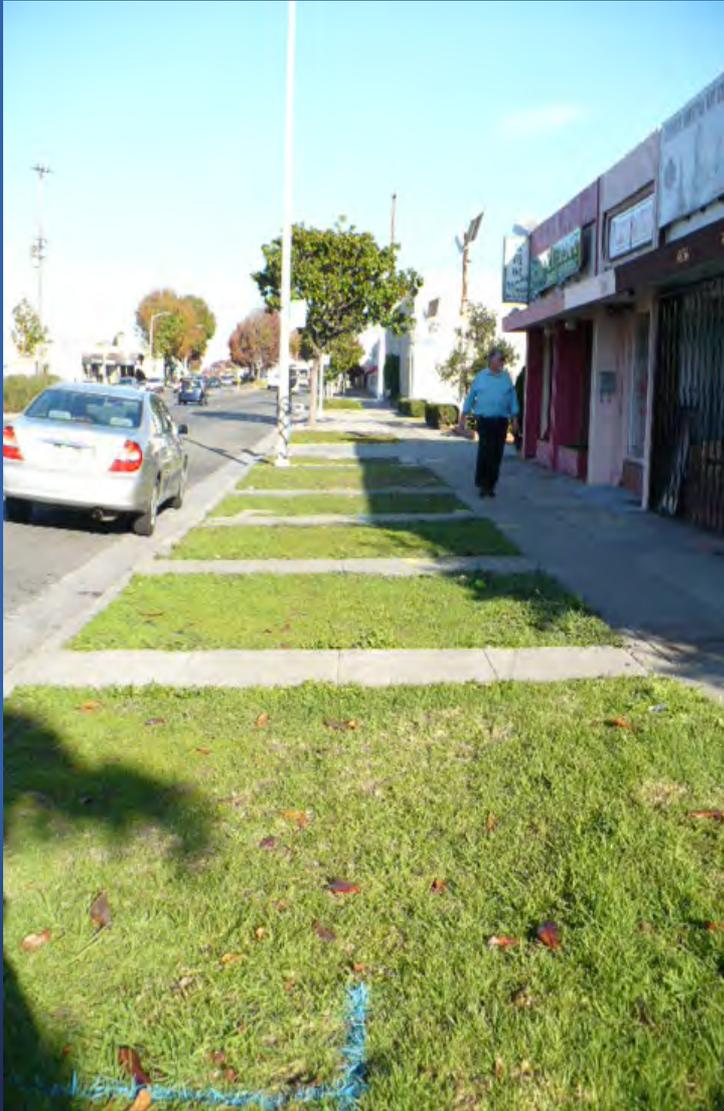
Serramonte Library Stormwater Treatment Gardens, Daly City



Credit: CMG Landscape Architecture, website

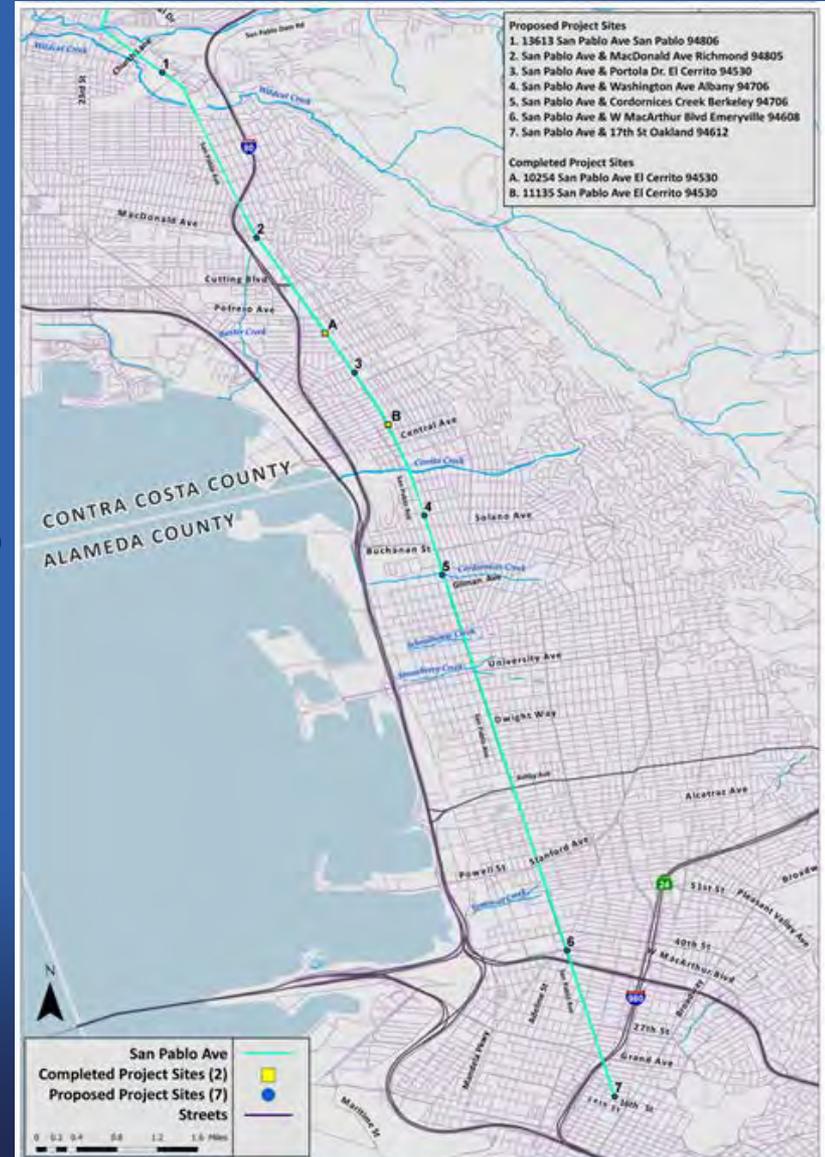


EL CERRITO RAIN GARDENS



San Pablo Ave Stormwater Spine

- Implement retrofits in 7 cities
- Treat 7 acres of impervious surface
- Emphasize vegetating the public right-of-way



San Pablo Avenue Opportunities

Create a better and "greener" pedestrian environment



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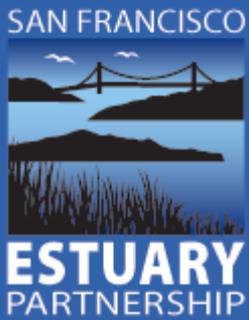
INCREASING IMPLEMENTATION





LID/Green Infrastructure Resources

- www.SFESTUARY.org
- www.BlueGreen.org
- www.BetterStreets.org
- US EPA website
- *Sustainable Green Streets and Parking Lots Design Guidebook, San Mateo County*
- C3. Technical Manuals
- www.casqa.org
- www.lowimpactdevelopment.org



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Photograph by Dan Cloak

