

Supplemental Environmental Project (SEP) Report Card		City of Oakland Firehouse Biotreatment Retrofit
Regional Water Board	Region 2 - San Francisco	<b>OUTCOMES:</b> <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory
Total Project Cost	\$244,634	
SEP Funding	\$125,000	
Approval Date	2/15/2011	
Project Category	Pollution Reduction	

### Summary

The City of Oakland implemented the Firehouse Biotreatment Retrofit project as their SEP to reduce stormwater flows and velocities and improve water quality by reducing pollutants that flow to local creeks, Lake Merritt, and San Francisco Bay.

The Oakland Fire Station 1 Parking Lot Biotreatment Retrofit project transformed a traditional asphalt parking lot into a Low Impact Development (LID) green infrastructure feature including permeable pavers, a bioretention rain garden, landscaped planter strips, stormwater-beneficial trees, and a planted trellis. The site will be monitored to evaluate how well the stormwater detention features function in the context of the parking lot.

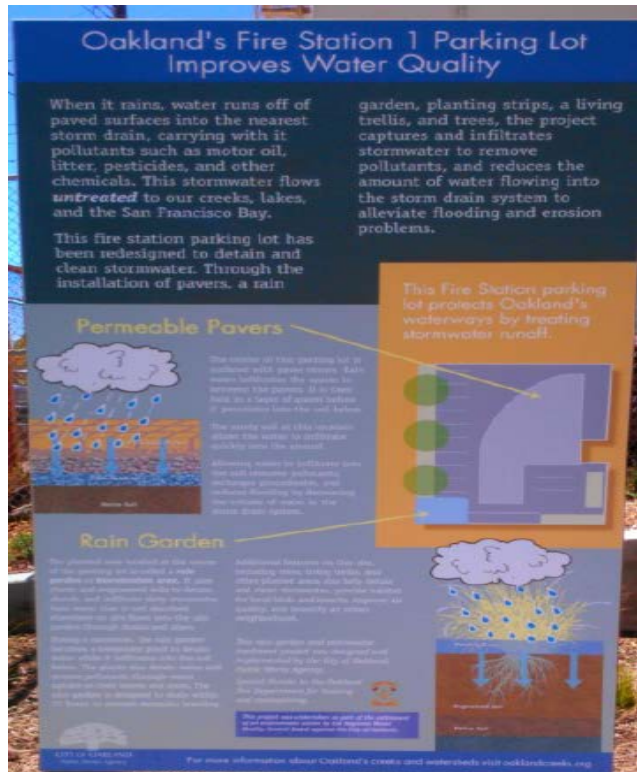
The project's location of downtown Oakland, provided high-visibility for showcasing the green infrastructure features of the Biotreatment Retrofit project. The SEP also incorporated an informational sign to educate staff and visitors to the fire station and the adjacent Emergency Operations Center about the function and value of the parking lot's unique infrastructure components.

### Location Map



ArcGIS® 10.1

### Educational Sign Graphic



### Water Quality Outcomes

- The SEP project demonstrates how a conventional parking lot can be retrofitted to meet:
  - 1) Water quality
  - 2) Flood protection
  - 3) Air quality improvement
  - 4) Climate change resiliency
- Successful elements of the project may be replicated at future retrofit sites to maximize environmental benefits.