



bay restoration commission

STEWARDS OF SANTA MONICA BAY

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July 12, 2011

Agenda Item #6a

To: Executive Committee, SMBRC

From: Shelley Luce

Subject: Proposition 84 Round 2 Project Recommendations

Action Requested of the Executive Committee:

- Review and Recommend Governing Board approval of Proposition 84 funding recommendations

Background

Proposition 84 (The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006) allocated approximately \$18 million to the Santa Monica Bay Restoration Commission (SMBRC) for projects that protect Santa Monica Bay beaches and coastal waters. As is the case with Prop 50, these projects are administered jointly by SMBRC and the State Water Board (State Board).

The SMBRC released the second Request for Proposals (RFP) for our Proposition 84 grant program on 1/24/2011. The RFP solicited capital improvement projects that will benefit coastal water quality. Eleven applications were received by the 3/16/2011 deadline.

In March 2011, SMBRC staff determined that all eleven applications met the initial criteria for eligibility, and further reviewed the proposals for consistency with the priorities in the RFP. In April, 2011 the SMBRC's Technical Advisory Committee (TAC) reviewed proposals for technical feasibility and ability to meet RFP criteria. Based on the TAC review, SMBRC staff requested additional information from several applicants, conducted two site visits, and used the information to develop an initial Recommended Project List (RPL).

The four projects described below best fit the criteria outlined in the RFP, are closest to being ready for implementation and are recommended to the Executive Committee for funding. Three additional projects require further review before proceeding and four proposals were rejected.

City of Santa Monica In-line Stormwater Infiltration

Requested Amount \$600,000

Recommended Amount: Up to \$300,000





This pilot project will consist of design, construction and monitoring of two sets of two separate storm drain treatment BMP retrofit systems (total of four locations) located to capture, filter and clean polluted urban and stormwater runoff. The first system will be a retrofit of an existing storm drain catch basin to divert daily urban (dry weather) runoff and low flow stormwater runoff to a 2-stage pre-treatment and infiltration/drywell system for percolation into sub-surface soils. The second system will be a retrofit of an existing storm drain manhole to divert daily urban (dry weather) runoff and low flow stormwater to a 2-stage pre-treatment and infiltration/drywell system for percolation into sub-surface soils.

Pollutants of Concern and Estimated Reductions (revised scope).

Treatment area: 12 acre urbanized area.

Infiltration volume: approximately 120,000 cubic feet.

Pollutant of Concern	Influent Concentration	Estimated Quantities for One Rain Event	
	ug/L	Pounds	Ounces
Bromodichloromethane	4.35	0.033	0.52
Tribromomethane	0.3	0.002	0.04
Chloroform	7.45	0.056	0.89
Dibromochloromethane	2.85	0.021	0.34
	mg/L		
Copper	0.013	0.10	2
Zinc	0.043	0.32	5
Nitrate	3.4	26	408
Total Dissolved Solids	591	4,433	70,920
Total Suspended Solids	12	90	1,440
	MPN/100 mL	MPNs	
Total Coliform	28,000	100%	
Fecal Coliform	1,600	100%	
Fecal Enterococci	5,000	100%	

TAC/Staff Recommendation: Pilot project. Project is scalable; reduce scope to 1 set of storm drain treatment BMP retrofits (one catch basin and one storm drain access hole). Applicant agrees to work with SMBRC, TAC and RB4 to develop comprehensive monitoring plan to determine benefits and potential for broader application.

Project: City of Calabasas Trash Basin Inserts



Requested Amount \$168,000

Recommended Amount: Up to \$168,000

The City of Calabasas will install a minimum of 400 catch basin screens made out of 95% post-consumer recycled plastic in all storm drains that discharge to Las Virgenes Creek. This includes the west side of the City. The screens will help prevent trash and debris from entering the stormdrains which eventually discharge into Las Virgenes Creek and Santa Monica Bay beaches.

Pollutants of Concern and Estimated Reductions:

Screens will capture trash and debris greater than 5mm in size. The city estimates that average capture will be approximately 12 pounds of debris per applicable drain per quarter (dry weight). However, there are large variations in the amount of trash and debris collected by each drain in relation to location and size. The estimates were based on data from a previous pilot project, and street sweeper and CDS unit tonnage reports.

TAC/Staff Recommendation: Fund at full amount requested.

Project: LA City University Park Neighborhood Rain Gardens

Requested Amount \$510,000

Recommended Amount: Up to \$510,000

This project proposes to install rain gardens to capture and infiltrate dry weather and a portion of stormwater runoff from streets in the University Park neighborhood surrounding the University of Southern California. A total of thirty five (35) rain gardens, each approximately 4' wide by 50' long by 3' deep with and a void ratio of 0.40, will be constructed in an area of mixed residential and commercial use. Gardens will be vegetated with native species.

Pollutant(s) of Concern and Estimated Reductions.

The project will capture and treat up to 2,298,312 gallons for a 0.75" storm (up to 36,772,996 gallons per year for the average 12" rain fall in the area). The total drainage area for the project is approximately 209 acres. Pollutant load reductions were not supplied by the applicant, but the objective of the project is to prevent stormwater pollutants including pathogens, trash, metals, pesticides, oil and grease from entering existing storm drains.

TAC/Staff Recommendation: Fund at full amount requested. Applicant agrees to develop a community outreach and involvement program as part of the project. The applicant will work with SMBRC, TAC and RB4 to develop comprehensive monitoring plan to quantify pollutants removed, runoff captured and impacts to groundwater.



Project: LA City Old Oak Road Bioswales
Requested Amount \$500,000

Recommended Amount \$500,000

The proposed project will prevent polluted runoff from entering the storm drain system by capturing, treating and infiltrating wet and dry weather runoff through a series of bio-swales along the Old Oak Road Riviera Road. There are several horse stables along this street with runoff into the storm drain and ultimate discharge into the Pacific Ocean at Will Rogers State Beach at Santa Monica Canyon. The project includes the construction of 10-14 bio-swales along both Old Oak and Riviera Ranch Road. The project will utilize standard plans for bio-swales recently developed by the City.

Pollutants of Concern and Estimated Reductions:

The project will capture and treat up to 191,030 gallons of runoff from a 0.75” rain event (up to 3,056,000 gallons per year for the average 12” rain fall in the area). Drainage area of the project is approximately 51 acres. Pollutant load reductions were not supplied by the applicant, but the primary pollutants of concern are bacteria, nutrients (phosphorous and nitrogen), and pathogens.

TAC/Staff Recommendation: Fund at full amount requested.

Applicant agrees to pre-project monitoring to confirm this site is a major contributor of contaminated runoff and beach closings at Will Rogers State Beach. Applicant will develop an education/outreach campaign by partnering with groups experienced in working with the equestrian community.