



THOMAS L. BOLICH  
DIRECTOR OF PUBLIC WORKS

# County of Santa Cruz

## DEPARTMENT OF PUBLIC WORKS

0307

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### AGENDA: JUNE 4, 2002

May 22, 2002

#### SANTA CRUZ COUNTY BOARD OF SUPERVISORS

701 Ocean Street  
Santa Cruz, California 95060

#### SUBJECT: PROPOSITION 13 COASTAL NON-POINT SOURCE CONTROL GRANT APPLICATION

##### Members of the Board:

The Department of Public Works is preparing a grant application for a maximum of \$1.2 million from the Proposition 13 Coastal Non-point Source (NPS) Control Program. The project proposed for funding is entitled "Implementing an Effective Stormwater Management Program on the Shores of Monterey Bay." The purpose of this project is to restore and protect the water quality and environment of Monterey Bay, and at the same time implement a stormwater pollution prevention program that meets the requirements of the National Pollutant Discharge Elimination System (NPDES) Phase II Stormwater Regulations. The secondary purpose is to build, expand and foster county-wide cooperation in reducing polluted runoff. We are seeking a resolution from the Board authorizing our department to apply for these funds.

A pre-proposal was submitted to the Coastal NPS Control Program on January 31, 2002. The California Regional Water Quality Control Board invited us to submit a full proposal for the Coastal NPS Control Program. The full proposal is due June 7, 2002. Notification of award/non-award will occur in October/November 2002. Our department has contracted with Monica Burke Consulting for project development and preparation of the proposals, and work is in progress.

Through a collaborative process with more than 36 stakeholders, our department has identified 14 specific actions to improve water quality, which are included in the project summary (see attached). These actions will occur in the coastal San Lorenzo, Soquel, Aptos, Watsonville Sloughs, Majors Creek and Pajaro watersheds, and some will be implemented county-wide. Each and every action item is interrelated and leveraged with partnerships and existing plans, programs and investments. Collectively, these action items constitute a powerful strategy to effect long-term improvements in water quality and reduce non-point source pollution.

The strategy we have crafted amounts to a full implementation of the Model Urban Runoff Program at the county level. All of the action items address the causes of water quality degradation, not symptoms, and are consistent with all other approved plans for these watersheds. To facilitate a regional approach, the action items were coordinated with the cities of Santa Cruz, Scotts Valley, Watsonville, and Capitola, with the United States Department of Agriculture, National Resource Conservation Service, Resource Conservation District, and County Environmental Health and Planning Departments, as well as local watershed groups. We intend to partner with these cities and groups, the Coastal Watershed Council, and agricultural groups on several projects.

Several action items are priorities in the Implementation Plan for the FishNet 4-C Goals for County Policies, Planning and Management Practices which was recently approved by your Board. The San Lorenzo Watershed Plan supports sediment and pathogen reduction projects. The Monterey Bay National Marine Sanctuary Urban Runoff Action Plans I and II recommend specific actions in the areas of technical training, education/outreach, runoff management, structural/non-structural controls, sedimentation/erosion controls, storm drain inspection, and organizational efficiencies related to California Environmental Quality Act.

If the grant application is approved, the County is required to enter into a contract agreement with the State Water Resources Control Board for development of the project. The County is required to provide a 15 percent matching fund to the Capital Cost Projects, complete all projects and spend all funds within three years of the contract execution. The required matching funds needed in 2003/04 will be made available in the 2003/04 road budget.

It is therefore recommended that the Board of Supervisors take the following action:

1. Adopt the attached resolution in support of the County's submission of an application to the State Water Resources Control Board for Proposition 13 funds to support activities required by the NPDES Phase II permit requirements and reduce polluted runoff.
2. Authorize the Director of Public Works to take the appropriate actions to secure this grant funding.

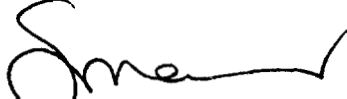
Yours truly,



For THOMAS L. BOLICH  
Director of Public Works

RJF:bbs  
Attachments

RECOMMENDED FOR APPROVAL:



County—Administrative Officer  
Copy to: Public Works Department  
ptcb.wpd

RESOLUTION NO. \_\_\_\_\_

On the motion of Supervisor  
duly seconded by Supervisor  
the following resolution is adopted:

RESOLUTION AUTHORIZING THE SUBMITTAL OF A PROPOSITION 13 COASTAL  
NON-POINT SOURCE CONTROL PROGRAM GRANT APPLICATION TO THE  
STATE WATER RESOURCES CONTROL BOARD

WHEREAS, the Environmental Protection Agency established the National Pollutant Discharge Elimination System (NPDES) stormwater program in 1983 under the authority of the Clean Water Act to protect and improve water quality; and

WHEREAS, the people of the State of California have approved AB 1584, the Costa-Machado Water Act of 2000 (Proposition 13), making funds available from the Safe Drinking Water, Clean Water, Watershed Protection, and Flood Protection Bond Fund; and

WHEREAS, the State Water Resources Control Board and the California Coastal Commission have been delegated the responsibility for the administration of the funding program within the coastal region of the state; and

WHEREAS, the Department of Public Works submitted a concept proposal entitled "Implementing an Effective Stormwater Management Program on the Shores of Monterey Bay" which was subsequently invited for a full proposal due June 7, 2002; and this proposal was developed in collaboration with other departments, cities and organizations in the county; and

WHEREAS, if awarded, the Department of Public Works proposes to use the grant funds to implement a stormwater pollution prevention strategy to meet NPDES Phase II permit requirements and is conducive to a regional application for the permit; and

WHEREAS, the proposed stormwater management program is consistent with other plans approved by the Board of Supervisors including the County of Santa Cruz Implementation Plan for FishNet 4-C Goals for County Policies, Planning and Management Practices; the San Lorenzo River Management Plan; and the Pajaro Watershed Water Quality Management Plan.

NOW, THEREFORE, BE IT RESOLVED, that the County of Santa Cruz Board of Supervisors:

1. Authorize the Department of Public Works to apply for a Proposition 13 grant.
2. Agree to provide 15 percent of the capital cost match.
3. Agree to act as the claimant for this grant and request funds, if the grant is approved.

4. Authorize Thomas L. Bolich, Director of Public Works, and the Department of Public Works to execute all the necessary applications, contracts, payment requests, agreements and amendments hereto for the purposes of securing grant funds and to implement and carry out the project as contracted.

PASSED AND ADOPTED by the Board of Supervisors of the County of Santa Cruz, State of California, this \_\_\_\_ day of \_\_\_\_\_ 2002, by the following vote:

AYES: SUPERVISORS

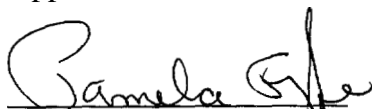
NOES: SUPERVISORS

ABSENT: SUPERVISORS

\_\_\_\_\_  
Chairperson of said Board

ATTEST: \_\_\_\_\_  
Clerk of said Board

Approved as to form:

  
\_\_\_\_\_  
Assistant County Counsel

Distribution: County Counsel  
Planning Department  
Environmental Health  
City of Santa Cruz Public Works Department  
City of Scotts Valley Public Works Department  
City of Watsonville Public Works Department  
City of Capitola Public Works Department  
Public Works Department

## **Implementing an Effective Storm Water Management Program on the Shores of Monterey Bay**

0311

Provide a brief overview including purpose, duration and anticipated outcome. Describe the watershed, its significant problems and issues, and a short discussion of where this project fits within the long-term watershed or resource management plans.

The purpose of this project is to restore and protect the water quality and environment of Monterey Bay, and at the same time implement a stormwater pollution prevention program that meets the requirements of the NPDES Stormwater Regulations. A secondary purpose is to build, expand and foster county-wide cooperation in reducing polluted runoff. Through a collaborative process with over 36 stakeholders, we have identified 14 specific actions to improve water quality. These actions will occur in the coastal San Lorenzo, Soquel, Aptos, Watsonville Sloughs, Majors Creek and Pajaro watersheds, and some will be implemented countywide. Each and every action item is interrelated and leveraged with partnerships and existing plans, programs and investments. Collectively, these action items constitute a powerful strategy to effect long-term improvements in water quality and reduce non-point source pollution.

The County of Santa Cruz Department of Public Works proposes to implement a stormwater and runoff pollution prevention program that is fundamentally different from what is in place now. The 14 action items fall into six categories, corresponding with the six "minimum control measures" (MM) of the NPDES stormwater permit. Many of these projects represent new ways of doing business: others, like the illicit discharge detections, will efficiently fix long-standing problems. The strategy is to take actions concurrently, so that they support each other. Education programs will reduce nonpoint source pollution loads and encourage citizen involvement. We have initiated a regional approach to stormwater education and coordinated with the City of Monterey (application # 188) and the MBNMS Foundation. Education programs done by the RCD in Capitola (application # 273), and a Clean Beaches Initiative project there will leverage the detection & repair of problems in that city's sewer system. Better county maintenance procedures for vegetation management and new erosion control ordinances will support NRCS agricultural buffer strip initiatives, the Watsonville Wetlands project (application # 304), and the work of the RCD. The assessment of public roads and a priority repair in the San Lorenzo watershed will reduce sediment inputs and is leveraged with a 319 grant to assess private roads and all culverts. The information from that watershed, along with three new watershed assessments will be synthesized into the County GIS so that problem areas can be mapped and identified. These areas will be priorities for BMPs including an improved silt & grease trap maintenance program. The action items are much more interrelated than can be described here.

To facilitate a regional approach, these action items have been coordinated with the Cities of Santa Cruz, Watsonville, and Capitola; with the NRCS, RCD, and County Departments of Environmental Health, Planning and Water Resources, as well as local watershed groups. We intend to partner with these cities and groups, the Coastal Watershed Council, and the Fields to Ocean Program on several projects. We are also pursuing coordination with the City of Scotts Valley. We have coordinated with the City of Monterey and MBNMS for the Regional Stormwater Education Project. Several action items are also priorities in the FishNet 4C Implementation Plan for Santa Cruz County, which was recently approved by the County Board of Supervisors. The San Lorenzo Watershed Plan supports sediment and pathogen reduction projects. The MBNMS Urban Runoff Action Plans I & II recommend specific actions in the areas of technical training, education/outreach, runoff management, structural/non-structural controls, sedimentation/erosion, storm drain inspection, and organizational efficiencies related to CEQA.

### **Describe the goals and objectives as they relate to the Coastal NPS program**

The goal of this project is to restore and protect the water quality and environment of Monterey Bay. The main objective is to implement stormwater & nonpoint source pollution reduction programs that will make sustained improvements to coastal water quality. Two action items specifically target water quality at public beaches and improve existing sewer collection systems. One action item expands citizen monitoring of ambient water quality. The strategy we have crafted amounts to a full implementation of the Model Urban Runoff Program at the county level. All of the action items address causes of water quality degradation, not symptoms, and are consistent with all other approved plans for these watersheds.

### **Describe how it fits with SWRCB priorities and WMI**

SWRCB Central Coast regional priorities for nonpoint source pollution control include: implementing water quality plans in Farm Bureau pilot watersheds (Pajaro), restoring natural systems of drainage/recharge, implementing management measures consistent with existing plans, and implementing the Model Urban Runoff Program. The WMI identifies expansion of nonpoint source pollution management as a high priority in Santa Cruz County and throughout the region. Many action items will provide comprehensive solutions to nonpoint source pollution problems in the San Lorenzo-Soquel, Aptos, Watsonville Sloughs and Pajaro watersheds, which are high priorities in the WMI. The TMDL for nitrates in the San Lorenzo watershed was recently completed and the TMDL for sediments and pathogens is underway. Projects in the San Lorenzo watershed address both urban runoff and sedimentation from roads. The TMDL for sediments is underway in the Pajaro Watershed, where action items will address runoff from farms and long-standing road maintenance/drainage issues.

Describe work to be performed including major tasks, estimated cost of each task, significant methods and materials being used, and information to judge the technical accuracy.

1. Erosion Control Adjacent to Roads in Farm & Livestock areas (MM 1A & 1G); \$45,683; Dedicate DPW staff time for outreach with farmers through NRCS, RCD & Watsonville area groups. Develop ordinances and road entrance designs.
2. Green Certification- Scheduled BMP Training for Construction & Mobile Washing Contractors (MM 3.2); \$30,162; Collaborate with RCD, NRCS, CWC and others in development. Contract with college or other institution for regularly scheduled training for contractors and inspectors to be used by all cities. Tie to bid process.
3. A Regional Approach To Stormwater Education (MM3.6); \$230,977 Cover Monterey Bay region with award-winning "Dirty Word" radio campaign, & SC County with artful bus & movie theater ads for 6 full months at discounted rates. City of Monterey has similar proposal (#189) for the other 6 months to deliver a year-round, consistent message,
4. Good Housekeeping and Pollution Prevention at Two County Road Maintenance Yards (MM 3.3); \$80,776; Make improvements & create a demonstration site for BMPs for fleet management. Install interceptors, covered wash rack & connect to sanitary sewer. Pave Felton Yard and install trap to catch asphalt debris from trucks. Do outreach to other vehicle fleets in County.
5. Find & Fix Cross-Contamination in Capitola Sewers (MM 3.4B); \$200,981; Smoke or TV test sanitary sewer for exfiltration. Monitor/smoke test storm sewer. ID & fix problems within 100 yards of Soquel Creek. Cooperative effort with Capitola, Clean Beaches Initiative & RCD (application #273) to address severe bacterial contamination area.
6. Find Cross-Contamination in Pot Belly Beach Sewers (MM 3.4B); \$21,186; Smoke or TV test sanitary sewer for exfiltration. Monitor/smoke test storm sewer. Augments proposed relocation of sewer line from public beach.
7. Resolve Internal Constraints for Full Implementation of Stormwater Pollution Prevention Program (MM 3.6A); \$147,097; Institute changes to implement program, leverage DFG support of new County position for environmental projects; train county employees in new stormwater programs and outreach/participation goals.
3. Road Assessment & Priority Repair, San Lorenzo Watershed (MM 3.5E); \$447,161; Complete assessment of public roads to leverage DFG and 319 grants for private roads & all culverts. Repair Redwood Dr. at Felton Creek permanently.
9. Establish A Road Spoils Disposal Site (MM 3.5 E,F); \$55,000 Develop plan, identify potential sites, coordinate with CalTrans, negotiate option on spoils disposal site in Santa Cruz Co. Currently there is not one. The objective is to prevent road maintenance spoils from eroding into streams.
10. Address Silt & Grease Trap/Stormdrain Maintenance Problems (MM 3.3, 3.4); \$291,677; Review designs of silt/grease traps & test new ones. Purchase first-ever Vactor truck for this purpose. Train crews; resolve landfill issues. Share w/Capitola.
11. Get More Citizens Involved (MM 3.6); \$20,798; Contract with Coastal Watershed Council to expand Urban Watch & First Flush programs to Scotts Valley & the unincorporated Live Oak area. Areas are priority for NPS pathogens.
12. Improve County Vegetation Management Practices (MM 5.4); \$36,685; Train crews & supervisors in softer techniques & principles of geomorphology to facilitate good decisions in the field. Work with NRCS. Videotape for future use.
13. Synthesize New Assessments in County GIS - Complete Sewer System Map & Identify Problem Areas (MM 5.1); \$52,965; Bring four new watershed assessments into County GIS; share information widely. Assessments include: Aptos Creek, Arana Gulch, Scotts Creek, Soquel Creek & drainage facilities information from San Lorenzo. Complete storm sewer system map. Establish new map overlays for locating runoff problems.
14. Identify Opportunities for Natural Drainage/Filtration Systems (MM 6C); \$12,852; In combination w/ above project, ID opportunities on maps, ground truth, and prioritize. Coordinate with existing groundwater recharge plans.

Projects Grand Total: \$1,674,000

Coastal NPS Control Program Grant Request: \$1,170,000

Discuss how success/impact of the project will be measured.

We will work with the California Coastal Commission, Dept. of Env. Health, & Urban Watch to design meaningful measures for water quality. Success for some projects will be measured by increased levels of participation & awareness. Radio/bus audiences will be estimated. A likely target is for 33% of the County population to see or hear one or more ad in six months. Monitoring plans will be developed fully with full proposals.

Describe how the project will ensure community and stakeholder outreach and involvement.

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The project was developed in a collaborative effort with input and ideas from 36 individuals & organizations. A major component of project #17 is to develop internal capacity and networks for outreach & participation, as required by NPDES.