

9. DEVELOPMENT PLANNING

Water Quality Management Plan

The 2002 MS4 Permit requires that within 20 months of the 2002 MS4 Permit adoption (i.e. by June 25, 2004) the Permittees will develop a Water Quality Management Plan (WQMP) identifying BMPs, including design standards for source control and structural BMPs, that are to be applied for certain categories of new development and significant redevelopment. Specific requirements are contained in 2002 MS4 Permit provision VIII.

WQMP Development, Public Notice, Comment Period, and Submittal

The Permittees initiated the process during FY 2003-2004 to develop the WQMP for submittal to the SARWQCB within the timeframes to comply with provision VIII. Final revisions and submittal to the Santa Ana RWQCB occurred during FY 2004-2005 based on the following chronology of events.

Significant Events - FY 2003-2004

- January-May Permittees developed draft WQMP, noticed on web site
- April 6 Permittees posted the draft WQMP on web sites, public notice appeared in the newspaper (Press Enterprise)
- April 30-June 1 30-day comment period
- May 18 Public workshop
- June 1-24 Permittees refined the draft WQMP, addressed & incorporated comments
- June 25 Submitted the draft WQMP to the SARWQCB

Significant Events - FY 2004-2005

- August 5 Permittees addressed comments that were received after the 30-day comment period and incorporated the revisions into the draft WQMP. Re-submit with revisions and errata clarifications to Santa Ana RWQCB.
- September 17 Draft WQMP approved at Santa Ana RWQCB meeting.

- November 10 & 15 Permittees host employee training sessions for development review staff on WQMP implementation.
- January 1, 2005 WQMP effective for New Development and Significant Re-development projects in the Santa Ana region.

Significant Events - FY 2005-2006

- July 24, 2005 Coordinated with the San Timoteo Watershed Management Authority to develop a watershed management plan that analyzed the effect of new development on water quality and water supply.
- May 23, 2006 The Santa Margarita and Santa Ana co-permittees facilitated a meeting to discuss WQMP implementation issues and experiences. Attendees included representatives from various cities/county planning and engineering departments. The Permittees are developing a Frequently Asked Question (FAQ) committee to facilitate consistent implementation of the WQMP. The FAQ will be complete in FY 2006-2007. The WQMP meeting is anticipated to be held, as needed, but at least quarterly. The Permittees are also working on revised BMP guidance to ensure the maintainability and functionality of BMPs. The guidance will focus on BMPs to address TMDL impairments.

Significant Events - FY 2006-2007

- October 10, 2006 The Permittees recognized the need to provide guidance to help ensure consistent WQMP implementation. The Permittees began developing a Frequently Asked Questions (FAQ) document through a number of email exchanges between workgroup members. On October 5, 2006, Permittees met to develop a consensus on a final version of the FAQ document. In this meeting participants thoroughly discussed the concepts and the wording for each of the 28 questions in the FAQ. The result of this effort is documented in the final FAQ completed on October 10, 2006 and included in **Appendix A**.
- November 14, 2006 District staff met with Metropolitan Water District (MWD) to evaluate opportunities to use the WQMP to address drinking water concerns with Lake Mathews.

Significant Events - FY 2007-2008

- August 2, 2007 The Flood Control District, Riverside County and the MWD discussed assessing the current level of water quality protection for Lake Mathews, and maximizing existing programs (i.e. the WQMP) to help address drinking water concerns.

The WQMP will provide further protection of Receiving Waters by building on existing programs to manage Urban Runoff from New Development and Significant Redevelopment projects under the jurisdiction of the Permittees. The WQMP will provide a project planning and design framework and identify the post-construction Best Management Practices (BMPs) that may be applicable when considering any map or permit for which discretionary approval is sought.

The WQMP identifies three major categories of post-construction BMPs to be addressed by New Development and Significant Redevelopment during the project planning and design phase:

- Site Design BMPs
- Source Control BMPs, and
- Treatment Control BMPs.

The WQMP provides guidelines for project-specific post-construction BMPs, as well as the option of utilizing regional and sub-regional Treatment Control BMPs to manage Urban Runoff quantity and quality. In addition, the WQMP provides an outline for preparation of project-specific WQMPs. Project applicants will be required to submit a project-specific WQMP to the local jurisdiction for review and approval prior to discretionary approval of a map or permit.

The impact of WQMP requirements on project proponents and the planning and permitting function of the local jurisdiction will vary greatly depending upon the size of the project under consideration.

The Riverside County WQMP Section 2.3 requires the Co-Permittees to document their procedures for WQMP administration and include a description of departments with implementation responsibility. WQMP implementation procedures are contained in each agency's specific Annual Report (**Appendix G**). The Co-Permittees have several departments involved in implementing and/or administering WQMP requirements. **Table 9-1** (shown below) has been edited to reflect the current departments with primary and secondary responsibility for providing conditions of approval.

Table 9-1. Department Responsible for Conditions of Approval

Co-Permittee	Primary Responsibility	Secondary Responsibility
County of Riverside	Planning Department with assistance of Riverside County Flood Control & Water Conservation District	Transportation and Land Management Agency – Building and Safety Department
Beaumont	Public Works	Planning
Calimesa	Planning Department	Public Works Department
Canyon Lake	Building and Safety	Code Enforcement
Corona	Public Works Department – Land Development Section	Public Works Department – Special Projects Section (NPDES)
Hemet	Public Works Department – Development Engineering	Public Works Department
Lake Elsinore	Engineering Division	Public Works/Code Enforcement
Moreno Valley	Public Works Department – Land Development Division	Public Works Department – Land Development Division
Murrieta	Engineering Department	Planning Department
Norco	Engineering/Public Works Department	Planning Department
Perris	Development Services Department-Planning Division (Preliminary WQMP's)	Public Works Department-Engineering Administration Division (Final WQMP's)
Riverside	Public Works Department	Community Development Department
San Jacinto	City Engineer/Public Works Inspections	Building Division/Building Inspections
Temecula	Public Works	Public Works

Hydromodification

Thee Permittees are also continuing to coordinate with Southern California Coastal Water Research Project (SCCWRP) to develop technical hydromodification guidance for Southern California. The Permittees has been actively participating with this effort by providing comments on the monitoring protocols used in the study, identifying sites that fit the site selection criteria, and by offering in-kind services for the survey work needed.

The goal of this project is to develop a series of tools for implementation of hydromodification management measures that could be used to better protect the physical, chemical, and biological integrity of streams and the associated beneficial uses. The project would consist of four technical tasks. The first task would involve developing a mapping and classification system for streams based

on their susceptibility to the effects of hydromodification. The second task would establish protocols for ongoing monitoring that is carefully designed to assess the effects of hydromodification. The third task would involve development and calibration of dynamic models to assess the effects of hydromodification on stream condition. The fourth task would involve development of a series of tools that managers can easily apply to make recommendations or set requirements relative to hydromodification for new development and redevelopment.

The District used a specific site selection criterion to identify 14 locations in the Santa Ana and Santa Margarita Watersheds. SCCWRP staff visited each of these sites and made assessments on the scientific usefulness of each location. Each site is determined if it is appropriate for the study. If a site is deemed appropriate for the study, it is then determined whether or not the site should be a *Modeling* or a *Screening site*. *Modeling sites* will be physically surveyed with precise accuracy limits and will be used to determine how a particular stream will react for a variety of hypothetical situations. *Screening sites* will be used to identify the threshold between single and braided channels and will need only simple hand measurements. Out of the fourteen (14) possible sites, five (5) monitoring sites were selected as modeling sites based on their value toward the goals of this study. The District has offered to conduct the survey work for the five (5) modeling sites identified for the study. In addition, the District has identified at least 5 possible screening sites, with the final number of sites to be determined by SCCWRP's staff.

All of the three possible sites in the Santa Margarita watershed were eliminated because it was determined by SCCWRP staff that the sites in the Santa Ana and other watersheds in this study would provide better data for the goals of this study. The District has been assured by SCCWRP staff that the sites available in this study will provide enough data to be representative of the specific conditions in the Santa Margarita watershed. The SCCWRP staff has conducted a gap analysis to ensure that all of the various watershed conditions necessary to complete the study are analyzed. Therefore, Santa Ana and other watershed sites will act as surrogates for Santa Margarita sites. The District has participated by offering the most number of sites and providing comprehensive support for implementing project tasks.