



CITY OF NEWPORT BEACH

COMMUNITY DEVELOPMENT DEPARTMENT BUILDING DIVISION

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GUIDELINES FOR PREPARING WATER QUALITY MANAGEMENT PLAN (WQMP) REPORT

1. Purpose

The purpose of Water Quality Management Plan (WQMP) is to reduce discharge of pollutants into urban runoff from development projects by reducing or eliminating sources of pollutants, and managing site runoff volumes and flow rates through application of appropriate Best Management Practices (BMP's). Our goal is to preserve and protect Newport Harbor, Upper Newport Bay, and the ocean beaches.

2. Major Elements

- Project information including: size in acres, watershed, groundwater depth, soil type and percolation properties, proximity to Environmentally Sensitive Areas, and location of receiving waters.
- Identification of Pollutants and Hydraulic Condition of Concern
- BMP Selection: A table of various BMP's is attached (See Table 1). These include Site Design BMP's, Hydraulic Source Control (HSC) BMP's (hybrid LID BMP's), LID BMP's, Treatment Control BMP's and finally Source Control BMP's. Priority projects must incorporate LID (Low Impact Development) BMP's to the maximum extent possible.
- Operation and Maintenance Program: Describe how BMP's will be operated and maintained.
- Educational Material
- Site Plan: Shows location of all BMP's, landscape areas, paved areas, roof discharge locations, drainage connections and discharge points.
- Appendix: Supporting feasibility criteria for infiltration and harvest and use BMP's, hydraulic computations (see worksheets in Orange County Technical Guidance Document) for sizing selected BMP's.

3. Selection of BMP's

BMP's are to be selected in the following progression:

- Site Design BMP's
- HSC BMP's
- Infiltration
- Harvest and Use
- Evapotranspiration
- Biotreatment
- Treatment Control, and
- Source Control

4. Supporting Documents

- Priority Projects - A template is provided to assist in preparing the WQMP document. See County of Orange template:
<http://www.newportbeachca.gov/home/showdocument?id=21687>
- Non-Priority Projects - A template is provided to assist in preparing the WQMP document: <http://www.newportbeachca.gov/home/showdocument?id=10747>
- Technical Guidance Document - A manual for preparing WQMP:
<http://www.newportbeachca.gov/home/showdocument?id=10749>
- Technical Guidance Document Worksheets - Calculation worksheets for various LID BMP's and sizing methods:
[http://ocwatersheds.com/gov/pw/watersheds/documents/wqmp/technical_guidance_document_\(tgd\)/technical_guidance_document_worksheets.asp](http://ocwatersheds.com/gov/pw/watersheds/documents/wqmp/technical_guidance_document_(tgd)/technical_guidance_document_worksheets.asp)
- 2011 Model WQMP - The County of Orange has prepared a 2011 Model WQMP for North (includes Newport Beach) and South Orange County to assist in preparation of WQMP on City website:
<http://www.newportbeachca.gov/home/showdocument?id=10750>

5. Most Common Mistakes

- Not planning early enough. Project team (Civil, architect, landscape architect, geotechnical engineer, etc.) need to meet at the planning stage to come up with strategies to meet WQMP requirements.
- Assuming French drain and media filters will be adequate for compliance. LID BMP's must now be considered to the maximum extent possible prior to use of any media filters.
- Not following the priority order in selecting LID BMP's. After Site Design BMP's, the first priority is infiltration BMP's, followed by harvest and use, then evapotranspiration and finally biotreatment. In general treatment control BMP's such as media filters are the last choice if it is shown that LID BMP's are not feasible.
- Not following the City's Water Quality Management Plan (WQMP) Plan Review Comments. This can result in missing some of the requested information and can also result in additional report review time.