



Changes to Stormwater Quality Control Requirements

Information for Developers, Builders and Project Applicants

Why Are New Requirements Needed?

Stormwater runoff from urbanized areas remains the largest source of pollution to San Francisco Bay. Local agencies in urbanized portions of the Bay Area are responsible for controlling stormwater pollution by complying with the new Municipal Regional Stormwater Permit (MRP), issued by the State Regional Water Quality Control Board (Water Board) in October 2009.



Rain garden collects and filters parking lot runoff in Brisbane.

Overview of Stormwater Requirements

During development review, local agencies require projects to include stormwater controls, including site design measures, source controls, treatment measures, low impact development, hydromodification management, and construction BMPs, as described below. Many of these requirements have existed for years and are unchanged. See the side bar at right for new requirements.

Site Design for Water Quality

Site design measures to reduce water quality impacts include:

- Reduce impervious surfaces.
- Direct runoff from impervious surfaces to vegetated areas.

Source Controls

Source controls prevent potential pollutant sources from contacting rainfall and stormwater. Examples include:

- Roofed trash enclosures.
- Pest-resistant landscaping.
- Sanitary sewer drains for vehicle wash areas (with sewer district approval).

Contact the city where your project is located for its Local Source Control Measures list (see Contact Info on page 2).

Stormwater Treatment

Stormwater treatment measures are engineered systems that remove pollutants before stormwater reaches the storm drain system, creeks, and San Francisco Bay.

Since 2006, projects that create and/or replace 10,000 square feet or more of impervious surface have required hydraulically-sized, post-construction, stormwater treatment measures. On December 1, 2011, new Low Impact Development requirements, highlighted in the sidebar at right, will go into effect.

Low Impact Development

The goal of low impact development (LID) is to reduce stormwater runoff and mimic a site's predevelopment

Summary of New Requirements

The following requirements begin December 1, 2011:

- The amount of runoff that requires stormwater treatment (the "C.3.d amount of runoff") will have to be treated with evapotranspiration, infiltration, and/or rainwater harvesting and use. Where this is infeasible, biotreatment measures that infiltrate less than the C.3.d amount of runoff may be used. (More information under "Low Impact Development," below.)
- The threshold for requiring stormwater treatment will drop from 10,000 to 5,000 square feet, or more, of impervious surface for the following project categories: uncovered parking areas (stand-alone or part of another use), restaurants, auto service facilities¹, and retail gasoline outlets.

hydrology by minimizing disturbed areas and impervious cover and then infiltrating, storing, detaining, evapotranspiring (evaporating stormwater into the air directly or through plant transpiration), and/or biotreating stormwater runoff close to its source.

Municipal staff will provide worksheets for determining the feasibility of infiltrating or harvesting and using the amount of rainwater runoff



specified in Provision C.3.d of the MRP (the “C.3.d amount of runoff”). If the demand for rainwater harvesting is insufficient to use the C.3.d amount of runoff, and if site conditions preclude infiltration of the full C.3.d amount of runoff, then “biotreatment” is allowed. (Modeling conducted to prepare the feasibility worksheets incorporated evapotranspiration.)

Biotreatment measures must use biotreatment soil that has a long-term infiltration rate of 5 to 10 inches per hour and is suitable for plant health. Except in areas where infiltration is unsafe (such as steep slopes, high groundwater table), biotreatment measures should be designed to maximize infiltration, even if native soils do not infiltrate the full C.3.d amount of runoff.

Vault-based systems may not be used as stand-alone treatment, except for limited use of media filters in high density and transit oriented “Special Projects,” as defined by the Water Board in an amendment to the MRP scheduled for adoption in November 2011.



Bioretention area in Burlingame.

Hydromodification Management (HM)

When land is covered with buildings and pavement, runoff enters creeks at higher rates and volumes, resulting in channel erosion, flooding

and habitat loss. These changes to waterways are known as hydromodification. Hydromodification management (HM) measures are detention and/or infiltration facilities that are constructed with special discharge structures to match pre-project runoff patterns. HM requirements are different from stormwater treatment, LID, and flood control requirements. If a project creates and/or replaces one acre or more of impervious surface, is located in a susceptible area, AND increases impervious surface over the pre-project condition, HM requirements apply. View the Countywide Program’s HM Control Area Map, and a flyer on HM requirements, on the Countywide Program’s New Development webpage (see Contact Information).

Maintaining Treatment and HM Measures

Stormwater treatment measures and HM measures need ongoing maintenance to keep working properly. Applicants must prepare a maintenance plan and sign, with the applicable local agency, a maintenance agreement that runs with the land.

Construction Site Controls

Project sites are required to use construction BMPs, such as:

- Prepare and use sediment and erosion control plans.
- Minimize exposed soil by stabilizing slopes.

Projects disturbing one acre or more must comply with the statewide Construction General Permit. Visit www.swrcb.ca.gov/water_issues/programs/stormwater/construction.shtml for more information.

Will New Requirements Affect My Project?

If your permit application was deemed complete before December 1, 2009, and you “diligently pursue²” the project, the new requirements do not apply. If a permit application was deemed complete after December 1, 2009, and final discretionary approval is received before December 1, 2011, the new requirements will not apply. Contact the municipality for project-specific information.



Bioretention area in Daly City.

Contact Information:

- San Mateo Countywide Water Pollution Prevention Program: 650/363-4305, www.flowstobay.org. (For New Development webpage, click on “Businesses,” then “New Development.” For a list of local new development contacts, click “local permitting agency.”)
- Regional Water Board staff: 510/622-2300.

¹ Auto service facilities are identified using Standard Industrial Classification Codes listed on the Countywide Program’s New Development webpage (click on “New Low Impact Development requirements.”)

² Diligent pursuance may be demonstrated by submitting supplemental plans or other documents needed for project approval.

Filename: C3_Flyer_revised_Sept2011.doc
Directory: F:\Sm1x\SM13 New Development\C.3 Products\C.3 Flyer
Template: C:\Documents and Settings\lprickett\Application
Data\Microsoft\Templates\Normal.dot
Title: Notice to Developers, Builders, and Other Project Proponents:
Subject:
Author: DellT450
Keywords:
Comments:
Creation Date: 9/27/2011 2:57:00 PM
Change Number: 17
Last Saved On: 9/27/2011 4:40:00 PM
Last Saved By: Laura Prickett
Total Editing Time: 88 Minutes
Last Printed On: 9/27/2011 4:40:00 PM
As of Last Complete Printing
Number of Pages: 2
Number of Words: 917 (approx.)
Number of Characters: 5,227 (approx.)