



Stormwater Permit Update

Green Infrastructure Planning

Engineering & Transportation Department
October 19, 2016

Information provided by the Alameda Countywide Clean Water Program

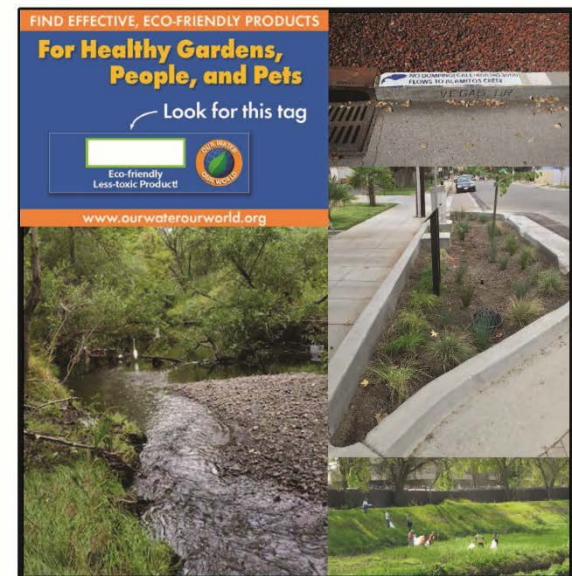
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Municipal Regional Stormwater Permit (MRP 2)

- Allows storm drain system to discharge to creeks/Bay
- Reissued by Regional Water Quality Control Board November 2015
- Effective date January 1, 2016
- 76 permittees in San Francisco Bay Region, including
 - All nine Bay Area Counties
 - All municipalities within each County

California Regional Water Quality Control Board
San Francisco Bay Region
Municipal Regional Stormwater NPDES Permit

Order No. R2-2015-0049
NPDES Permit No. CAS612008
November 19, 2015



Significant Requirements in MRP 2

- Due to impairment of creeks and the Bay, agencies must:
 - Reduce trash discharges from 2009 levels per the following schedule:
 - Achieve 60% reduction (performance measure) by 7/1/16
 - 70% reduction (required) by 7/1/17
 - 80% reduction (required) by 7/1/19
 - Implement and monitor control measures for mercury and Polychlorinated biphenyls - PCBs (regional and countywide collaboration)
 - Develop a plan for how each jurisdiction will implement green infrastructure to reduce the water quality impacts of urbanization



What is Green Infrastructure?

- Facilities that manage stormwater using vegetation, soils, and natural processes
- Removes pollutants and reduces volume of flow
- Examples:
 - Rain gardens/bioretention
 - Flow-through planters
 - Tree well filters
 - Pervious paving
 - Green roofs
 - Rainwater harvesting/use



Rain garden removes pollutants in runoff using natural processes (Emeryville)

Green Infrastructure Plans - Overview

- Guide the identification, prioritization, implementation, tracking, and reporting of green infrastructure projects
- Set goals for reducing, over the long term, adverse water quality impacts of urbanization on receiving waters
- Serve as an implementation guide and reporting tool to provide reasonable assurance that pollutant load allocations will be met
- Identify green infrastructure implementation targets for 2020, 2030, 2040 – consistent with assessments of mercury and PCB load reductions



Bioretention area in Albany

Relationship to Pre-existing Requirements

- 2009 MRP required GI stormwater treatment in projects exceeding specific size thresholds
- This requirement continues, and agencies must also seek opportunities for GI in smaller projects
- Green infrastructure planning will account for:
 - Planned and potential projects required to include GI
 - Private development and
 - Capital improvements
 - Past projects, as indicated in MRP 2
 - Additional projects may also be required in order to meet green infrastructure targets



Countywide/Regional Tasks

- Alameda Countywide Clean Water Program will conduct key tasks for its 17 member agencies, such as providing
 - Template for framework of tasks/schedule for GI Plan development
 - Equitably allocated agency-specific targets for the amount of impervious surface to receive stormwater treatment
 - Countywide data management tool to identify/map/track projects
 - Draft design guidelines and standard specifications
 - Training workshops for agency staff
 - Green Infrastructure Plan template
- Bay Area Stormwater Management Agencies Association-BASMAA
 - Regional tasks, such as project tracking methods





Key Local Agency Responsibilities

- Customize the Framework for Plan development (drafted by the Clean Water Program) and approve by 6/30/2017
- Update planning documents to include GI requirements
- Update CIP planning/procedures to implement GI requirements
- Use the countywide tool to identify projects
- Identify/prioritize funding options
- Fund public projects needed to meet prioritization goals and GI targets
- Adopt legal mechanism to implement plan
- Plan, implement, track, and report on projects





Schedule of Key Tasks for Local Agencies

Date	Task
Fall 2016	Draft Framework for Preparing Green Infrastructure Plan provided for review by local governing body
June 30, 2017 <i>(required date)</i>	Permit deadline by which Framework must be approved by local governing body, mayor, city manager, or county manager
September 30, 2019 <i>(required date)</i>	Green Infrastructure Plan must be submitted to Regional Water Quality Control Board (Water Board)
September 30, 2019 <i>(required date)</i>	Documentation of legal mechanism (e.g., policy or ordinance) ensuring plan implementation must be submitted to Water Board



Questions?



Protecting Alameda County
Creeks, Wetlands & the Bay