



Marin County Stormwater Pollution Prevention Program TMDL Implementation Measures 2008-2009

TOMALES BAY PATHOGENS TMDL

MCSTOPPP Outreach

The Marin County Stormwater Pollution Prevention Program (MCSTOPPP) assists horse facility owners to implement Best Management Practices and to address non-stormwater discharges from their properties in Marin County.

The San Francisco Bay Regional Water Quality Control Board adopted a [Pathogen TMDL](#) (Total Maximum Daily Limits) for the Tomales Bay Watershed which requires MCSTOPPP's countywide program and the Marin County local stormwater program to reduce pathogens in stormwater runoff.

During 2008-2009, MCSTOPPP and County local stormwater program staff continued to direct horse facility owners to guidance documents on good horse facility management practices. The MCSTOPPP website offers five different resource documents for horse owners and MCSTOPPP distributes printed outreach materials upon request and in response to illicit discharge complaints:

1. [Assessment of Best Management Practices for Equestrian Facilities in the Tomales Bay Watershed](#) – 2005 report on Best Management Practices (BMPs) at 18 equestrian facilities within the Tomales Bay Watershed in Marin County. Assessments were designed to detect the level of actual or potential pollutant sources from horse facilities.
2. [Horse Keeping: A Guide To Land Management for Clean Water](#) - This large format manual contains over 100 pages, with color photographs and diagrams showing conservation practices, evaluating potential sources of contamination, and management measures.
3. [Horse Manure Management: A Guide for Bay Area Horse Keepers](#) - conservation practices and on-site manure management.
4. [Horse Owners Guide to Water Quality Protection](#) - conservation practices for horse owners.
5. [Manure Management Practices of 30 Horse Ranches in Marin County](#) - 2002 study on manure management practices at 30 horse facilities in Marin County.

In addition, MCSTOPPP staff began planning a workshop for horse keepers to be held on September 15, 2009. The workshop will cover manure management, erosion and

sediment control, and runoff management. Results from workshop evaluations will be included in the 09-10 MCSTOPPP Annual Report.

County of Marin Ordinance Enforcement

In 2008-2009, Marin County local stormwater program staff investigated one horse facility based on a potential stormwater violation complaint. No violations of County ordinances were found. Staff also verified that best management practices were in place at a horse facility located within the Tomales Bay Watershed. The site was originally inspected in 2007-2008. At each facility, local stormwater program staff provided education and outreach materials from the list above and discussed potential BMPs with the property owners.

RICHARDSON BAY TMDL

MCSTOPPP countywide program and local stormwater programs located within the Richardson Bay Watershed (Marin County, Sausalito, Mill Valley, Tiburon and Belvedere) continued to develop a program to address the pending pathogen TMDL for Richardson Bay. These efforts will include public outreach and education to reduce pet waste discharges to stormwater.

The following was accomplished in 2008-2009:

- MCSTOPPP staff prepared a Richardson Bay Pathogens TMDL Implementation Plan for the 2008-2009 Annual Report. The plan updates the program's existing Stormwater Management Plan (Action Plan 2010) and includes a description of the additional outreach and education that will be conducted to help reduce pathogen loading to Richardson Bay.
- County of Marin stormwater staff made progress toward mapping and verifying county-maintained outfalls to Richardson Bay.
- Marin County Parks and Open Space District maintained pet waste bag dispensers at Bothin Marsh and Strawberry Park.
- City of Mill Valley stormwater staff sent brochures on the importance of reducing the amount of fats, oil and grease that enters sanitary sewer drains to about 500 residents in the Cascade Canyon area. This outreach will help to reduce the potential for sewer clogging and sewer overflows.
- City of Mill Valley local stormwater staff also mailed the new MCSTOPPP restaurants brochure to all food service businesses within the city limits and inspected three local food establishments after noting food or wash water in nearby gutters.
- City of Belvedere continued to work to reduce the frequency of sanitary sewer overflows by requiring inspections of residential sewer laterals at the time of sale.
- Town of Tiburon stormwater staff coordinated with volunteers for Coastal Cleanup Day at Blackie's Pasture and Shoreline Park.
- City of Sausalito stormwater staff enforced the local urban runoff pollution prevention ordinance at two restaurants and one food store. The restaurants were required to improve housekeeping practices and to dispose of wash water properly. The food store was required to abate improper surface cleaning.
- City of Sausalito stormwater staff also required a multifamily building to correct an illegal sewer/storm drain connection.

DIAZINON AND PESTICIDE-RELATED TOXICITY IN SAN FRANCISCO BAY AREA URBAN CREEKS - TMDL

MCSTOPPP continues efforts to reduce the priority pollutant diazinon and other pesticides through its comprehensive public education and outreach activities designed to reduce pesticide use. In addition, MCSTOPPP countywide and local program staff coordinate with the County's Agricultural Commissioner on any complaints from the public related to pesticide use. In 2008-2009, MCSTOPPP implemented the Pesticide Reduction Strategy with the following actions:

- Held the Third Eco-Friendly Garden Tour.
- Coordinated the second annual Bay-Friendly Landscape Maintenance Training & Qualification Program in Marin. The program was co-sponsored by the Marin Municipal Water District in cooperation with the Marin Art and Garden Center.
- Planned an IPM workshop on Ants, Rats and Raccoons, to be held September 17, 2009.
- Provided copies of MCSTOPPP resource materials to Marin Master Gardeners for distribution in Marin County.
- MCSTOPPP participated in the BASMAA Our Water, Our World (OWOW) program. Below is a list of 08/09 OWOW activities/accomplishments:
 - 1) Recruited Home Depot into program
 - 2) Coordinated master print run of the following: fact sheets, shelf talkers, literature rack signage, banner, beneficial bug brochure, business card, magnet, Pest or Pal activity guide for kids, pocket guide, and Pests Bugging You? booklet
 - 3) Updated Healthy Home and Garden booklet (and renamed Pests Bugging You?)
 - 4) Published new fact – Rats and Mice (English and Spanish)
 - 5) Started development of a new fact sheet – Gophers, Moles, and Voles
 - 6) Updated less-toxic Product Lists: Master – by brand name version; by pest version, and OSH and Home Depot-specific lists/labels
 - 7) Updated materials – Poster, Flyer – Professional IPM Help
 - 8) Updated [Website](#) architecture, kept website updated, and added Green Gardener tab and created Green Gardener page to provide one location on web for information on any of the separate Green Gardener programs in the state (Monterey Bay, Santa Barbara County, Santa Clara Valley)
 - 9) Provided [Ask-the-Expert](#) service
 - 10) Provided and staffed exhibitor booths
 - Excel Gardens Dealer Show (August 2008)
 - Ace Hardware National Show (August 2008)
 - L&L Dealer Show (October 2008)
 - NorCal trade show (January 2009)

- How-to-Fair Pleasanton (March 2009)
- 11) Provided on-call assistance (e.g., display set-up, training, IPM materials review) to specific stores (e.g., OSH, Walgreens)
 - 12) Provided print advertising and article -- [Green Zebra guide](#)
 - 13) Provided print advertising -- [Bay Nature magazine](#); Bringing Back the Natives Garden Tour's garden guide, OSH weekly flier – 10 year anniversary ad, Summer Winds IPM Innovator ad
 - 14) Provided articles (Ace Green Hardware Retailing, Pacific Coast Nurseryman and Garden Supply Dealer, San Francisco Chronicle Letter to Editor mention, Excel Garden Products catalog mention (attached))
 - 15) Made presentations
 - Healthier Alternatives MD (December 2008)
 - International IPM Symposium (March 2009)