



MCSTOPPP

Marin County Stormwater
Pollution Prevention Program
www.mcstoppp.org



2010—2011 MCSTOPPP Annual Report

Belvedere ▪ Corte Madera ▪ County of Marin ▪ Fairfax
Larkspur ▪ Mill Valley ▪ Novato ▪ Ross ▪ San Anselmo
San Rafael ▪ Sausalito ▪ Tiburon

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Cover photo: Garden designed by Art Gardens Landscape Co., 2010 Marin Eco-Friendly Garden Tour – Photo by Gina Purin.

*This Annual Report is dedicated to the memory of Stan Griffin (1920-2011),
with gratitude for his tireless efforts to protect and restore fish habitat in Marin's creeks.

**Ann Thomas replaced Sam Wilson on the MCSTOPPP CAC in May 2011.

If you require materials in alternative formats, please call 415-473-4381 voice/TTY or email disabilityaccess@co.marin.ca.us.

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Additional Documentation

The following documents were prepared in connection with this Annual Report. Hyperlinks to the documents appear throughout the report. All documents can be accessed at www.mcstoppp.org.

Chapter Two

[North Bay Watershed Association 2010-2011 Accomplishments](#)
[MCSTOPPP 2010-2011 and 2011-2012 Budgets](#)
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Chapter Three

[Marin County Watershed Program](#)
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[County CIP Presentation](#)

Chapter Five

[Countywide and Multi-jurisdiction Business Inspections](#)
[Marin County Fire Department Business Inspections](#)
[Self Inspection Checklist for Business Owners](#)
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[Bay Friendly Landscape Professional Series Agenda, Evaluations and Presentation](#)

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Chapter Six

[Pest or Pal Activity Guides](#)
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[MCSTOPPP 2011 Calendar Ad](#)
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[BASMAA Final Media Relations Report 2011](#)
[Free Resources Brochure 2011](#)
[MCSTOPPP 2011 Tidebook Cover](#)
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[Go Native! Updated Booklet](#)

Chapter Seven

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[BASMAA MRP Annual Report 2010-2011 DRAFT](#)

[Protecting and Enhancing Marin's Watersheds Presentation](#)

City of Belvedere

[Bella Belvedere Newsletter – Fall 2010](#)

[Bella Belvedere Newsletter –Summer 2011](#)

City of San Rafael

[Volunteer Voice Newsletter](#)

CHAPTER 1: Let's Preserve and Enhance Marin's Watersheds

Overview of the 2010-2011 Annual Report

This report covers activities by the countywide program (which is funded and supported by the County, cities, and towns) and local municipality activities.

Administration, organization, staffing and financing of the countywide program are covered in [Chapter 2](#), *Local Government Leads the Way*.

[Chapter 3](#), *Caring for Our Creeks*, describes the heart of MCSTOPPP: keeping streets and storm drains clean, stopping illegal dumping, stabilizing creek banks, and setting a good pollution-prevention example in all municipal operations.

[Chapter 4](#), *Building and Renewing*, covers Marin municipalities' review of development proposals to ensure they minimize impervious area, control sources of pollutants, and where required, incorporate stormwater treatment facilities. In addition, local building officials and public works staff inspect construction sites to ensure erosion is controlled and sediment and other pollutants are contained.

[Chapter 5](#), *Educating Ourselves at Work*, documents our outreach to businesses to ensure they operate in a way that keeps pollutants away from creeks and storm drains.

[Chapter 6](#), *Educating Ourselves at Home and School*, details MCSTOPPP's extensive work to engage, involve, and educate Marin residents in protecting local creeks.

[Chapter 7](#), *Water Quality Planning and Monitoring*, is about how MCSTOPPP is planning ahead to ensure Marin municipalities are in ongoing compliance with stormwater quality regulations.

Local pollution-prevention accomplishments, outside of routine activities, are documented in supplements, one for each of Marin's 12 municipalities.

About MCSTOPPP

MCSTOPPP is a project of the [County of Marin](#) and Marin's 11 cities and towns. In a 1991 update to its [Basin Plan](#), the [RWQCB](#) mandated Marin's municipalities pursue a "baseline" program to prevent increases in urban runoff pollutants. In 2003, the [State Water Resources Control Board](#) (SWRCB) required small municipal storm drain systems, including those in Marin, to be regulated under a statewide Phase II [NPDES permit](#). MCSTOPPP's [Action Plan 2010](#) functions as MCSTOPPP's required Storm Water Management Plan (SWMP) under the Phase II permit.

In June 2011 the SWRCB released a Draft Phase II General Permit. It is anticipated that the final permit will be issued in 2012. MCSTOPPP staff are attending workshops and meetings to further understand the changes the Draft General Permit will bring to Marin's municipalities and to the countywide program. In addition, MCSTOPPP will prepare comments to the Draft General Permit.

MCSTOPPP comprises local stormwater pollution prevention efforts by each municipality and a countywide program funded jointly by the municipalities and administered by the [Marin County Flood Control and Water Conservation District](#) within the County Department of Public Works. The [Marin General Services Authority](#) provides programmatic and budgetary oversight. Budgets are approved by the [District's Board of Supervisors](#).

MCSTOPPP has developed a creek-focused approach to stormwater pollution prevention by integrating habitat restoration, school-based education, volunteer projects, and public education with public works maintenance and code enforcement.

Funding Stormwater Pollution Prevention Programs

Continuing to operate with reduced budgets, Marin municipalities still supported ongoing improvements in countywide and local stormwater quality programs during 2010-2011.

By partnering with others, MCSTOPPP was able to sponsor a variety of programs and workshops including the [Eco-Friendly Garden Tour](#), the Bay-Friendly Landscaping classes for residents and the [Bay-Friendly Landscaper Maintenance Training and Qualification series](#) for professionals.

As in previous years, MCSTOPPP distributed 7,000 tidebooks and 28,000 [calendars](#) – the latter of which carried messages about ensuring sewer laterals are functioning, using permeable surfaces, installing rainwater catchment systems, using smart irrigation, maintaining healthy soils without fertilizers or pesticides, and about copper pollution in San Francisco Bay. Partners and a Used Oil Block Grant helped fund the calendar and provided content. Grant funds were provided by the Department of Resources Recycling and Recovery (CalRecycle). Other partners included Marin County Wastewater Treatment Agencies, Marin Municipal Water District, Ross Valley Sanitary District, the Marin Independent Journal (Marin IJ) and the Almonte Sanitary District. This year the Marin IJ distributed the vast majority of calendars to residents who receive home deliveries which led this year's production to increase from 15,000 in previous years to 28,000.

Another way MCSTOPPP is leveraging funds is to partner with other agencies and apply for grants. Marin County received a \$1.4 million state grant from the State Water Resources Control Board to reduce pollution runoff into the Duxbury Reef and the Point Reyes Headlands Areas of Special Biological Significance (ASBS). The County will improve the Agate Beach parking lot in Bolinas to ensure filtration of runoff, control sediment in gullies and install fencing to keep cattle out of creeks within ASBS watersheds.

CalRecycle Used Oil Block Grants, now referred to as Oil Payment Plan Program, also help MCSTOPPP conduct a variety of projects including:

- ◆ Purchasing storm drain markers for local programs
- ◆ Distributing 2011 Tidebooks
- ◆ Hiring a consultant to visit and inspect used oil collection facilities and to distribute BMP brochures
- ◆ Distributing absorbent pads to boaters on Tomales Bay and Richardson Bay (Planning was completed in FY 10-11, and implementation will occur in FY 11-12)
- ◆ Funding a contract with Marin Recycling to collect used oil and filters
- ◆ Providing presentations at English as a Second Language (ESL) classes on how and why to recycle used oil.
- ◆ Funding 50% of the MCSTOPPP Calendar.

Marin County Public Works Department received a [grant](#) from the California State Coastal Conservancy for \$98,335 for a Landowners Assistance Program in the San Geronimo Valley focused on protecting and restoring critical salmon habitat. See Chapter 3 for more details on grants.

Follow the Links

The [Regional Water Quality Control Board \(RWQCB\)](#) requires Marin municipalities to report annually about their stormwater pollution prevention activities.

You can read the report online at www.mcstoppp.org and follow the links for more details.

Comment on the report: mcstoppp@co.marin.ca.us

CHAPTER 2: Local Government Leads the Way

Joint Funding and Oversight are Key to Countywide Program Effectiveness

The County of Marin and Marin's 11 cities and towns fund MCSTOPPP's countywide activities. The [2010-2011 MCSTOPPP budget](#) included \$440,270 in municipal contributions as well as \$131,281 in Used Oil Block Grant funds (expected reimbursements from the 14th and 15th cycle of the Used Oil Block Grant) from the California Department of Resources, Recycling and Recovery (CalRecycle). Additional revenues were received from partner agencies, workshop registrations, and interest. The 2010-2011 budget included one time substantial budget reduction of 27% from FY09-10 municipal contributions. The [2011-2012 budget](#) will increase due to an increase in municipal contribution of \$550,000. The 2011-2012 municipal contribution is an increase from FY10-11 but is still a 8% decrease from the FY09-10 contributions.

MCSTOPPP's countywide staff includes a Program Manager, an outreach coordinator, and a part time engineering technician. They are assisted by County Department of Public Works staff, including Marin County Watershed Stewardship Program staff, and by other County staff. In addition to countywide activities, the staff provides technical and outreach resources and reporting assistance to local stormwater coordinators.

At bimonthly Agency Staff Committee (ASC) meetings, countywide staff and local staff report on their activities, discuss challenges and solutions, and strategize and prioritize their ongoing work. [Caltrans](#), the [Marin Municipal Water District](#), and the [Regional Water Board](#) are frequently represented at these meetings. ASC and MCSTOPPP staff regularly update the Marin Public Works Association (MPWA) on stormwater issues. The MPWA comprises the public works directors of each Marin municipality.



MCSTOPPP's 7-member [Citizens' Advisory Committee](#) (CAC) was created in 1997 and meets quarterly to discuss issues related to development and construction, small businesses, local government, the community, and the environment. The CAC reviews annual work plans and budgets, acts as a community liaison, and is a sounding board for new ideas.

MCSTOPPP Participates in Stormwater Pollution Prevention Statewide

MCSTOPPP participates in and helps fund the following regional efforts to protect water quality:

[Bay Area Stormwater Management Agencies Association \(BASMAA\)](#)

BASMAA comprises Bay Area municipal stormwater NPDES permittees. Members implement regional projects designed to understand and/or improve the quality of stormwater runoff to the San Francisco Bay, promote regional consistency and facilitate efficient use of public resources.

[BASMAA's 2010-2011 Annual Report](#) outlines accomplishments and work products, some of which assist Marin's municipalities to implement countywide and local stormwater program activities. During FY2010/2011 MCSTOPPP continued to contribute to the Regional Ad Campaign that focuses on reducing litter and use of pesticides. In addition, MCSTOPPP contributed to the Enhanced Surface Cleaners program, and two Five-Year Regional Strategic Outreach Plans, one on Litter and the other on the "Our Water, Our World" Pesticides Program.

Regional Monitoring Program for Trace Substances (RMP). The Regional Water Board mandated the RMP in 1992. The RMP funds the [San Francisco Estuary Institute](#) (SFEI) to monitor pollutant concentrations in Bay water, sediments, fish and shellfish. The RMP publishes an annual report, *Pulse of the Estuary*. Marin’s 12 municipalities contribute ~\$55,000 annually to the RMP through MCSTOPPP.

North Bay Watershed Association (NBWA). NBWA includes Marin, Napa and Sonoma municipalities, water and sanitary districts, and non-profit organizations interested in watershed health. NBWA facilitates partnerships across political boundaries that promote stewardship of North San Pablo Bay watersheds. MCSTOPPP contributes ~\$5,500 to NBWA annually and the County of Marin’s local stormwater program contributes almost \$24,000 and the Marin County Flood Control District contributes \$10,000.

In 2010-2011 MCSTOPPP staff attended the NBWA Watershed Monitoring Workshop held November 30, 2010. Read about the other NBWA activities in the [NBWA 2010-2011 Accomplishments](#).

California Stormwater Quality Association (CASQA). MCSTOPPP is part of CASQA, a statewide group of municipal, industrial, and construction stormwater NPDES permittees. During 2010-2011 MCSTOPPP staff participated in monthly conference calls of CASQA’s Phase II committee and led the monitoring workgroup charged with commenting on the Draft Phase II reissued permit receiving water monitoring Section E.13 and participated in other workgroups dedicated to providing constructive comments on the draft permit.

Marin, Napa, Sonoma and Solano Stormwater Association (MNSSSA). In 2009-2010 MCSTOPPP joined the MNSSSA, a group of North Bay Phase II municipal stormwater programs that meets to share information and work jointly on projects of mutual interest. On July 29, 2010 the group held a [New NPDES Construction General Permit Workshop](#) for North Bay Development Projects.

Performance Standards are Verifiable Pollution Prevention Goals

Performance Standards are verifiable stormwater pollution prevention goals. They incorporate specific BMPs that municipalities implement.

For example, here are some of the Performance Standards for Storm Drainage Facilities:

- ◆ Inspect and clean storm drainage facilities as directed, preferably, prior to rainy season.
- ◆ When cleaning storm drains, remove maximum amount of material at nearest access point.
- ◆ Document and track spill incidents and coordinate with your illicit discharge control field surveys.
- ◆ Identify/target storm drain inlet areas requiring more frequent or alternative cleaning and/or public education efforts.
- ◆ Maintenance staff makes appropriate phone calls if they suspect toxic or hazardous material spills.

At the end of each fiscal year, each municipality completes a designated official [matrix](#) noting whether each Performance Standard was implemented and if not, a plan and schedule for full implementation is developed.

[Certification statements](#), available on the MCSTOPPP website, swear to the accuracy of the completed matrices and note where they can be accessed.

Performance Standards
◆ Street Sweeping
◆ Storm Drainage Facilities
◆ Road Repair & Maintenance
◆ Operation & Maintenance of Pump Stations
◆ Corporation Yards
◆ Illicit Discharge Control
◆ New Development and Construction Site Controls
◆ Industrial and Commercial Discharge Controls
◆ Public Information and Participation

CHAPTER 3: Caring for Our Creeks and Waterway

A Creek-Centered Approach to Water Quality Protection

MCSTOPPP’s countywide program partnered with the City of San Rafael, City of San Rafael Volunteer Program, San Rafael Clean, Marin County Parks and Open Space District, Marin County Public Works, Marin County Community Development Agency, Marin Municipal Water District, and the Center for Volunteer and Nonprofit Leadership of Marin to implement Earth Day 2011 service projects, which included beach and creek cleanups. MCSTOPPP and partners provided content for the newly created www.myearthdaymarin.org to promote [Earth Day](#) trash abatement and other service projects throughout Marin. Together this partnership promoted trash abatement projects throughout Marin and increased the number of volunteers taking part in Earth Day service projects. MCSTOPPP staff performed captain duties at the Mahon Creek Cleanup on Earth Day, where 27 volunteers collected 366 lbs of trash and 71 lbs of recycling.



Mahon Creek cleanup volunteers on Earth Day

MCSTOPPP also provided staff to perform captain duties during Coastal Cleanup Day at three different sites:

- ◆ Corte Madera Creek at Creekside Park had 62 volunteers and collected 191 lbs of trash
- ◆ San Rafael Shoreline Path had 12 volunteers and collected 47 lbs of trash
- ◆ San Rafael Pickleweed Park had 33 volunteers and collected 131 lbs of trash.

A summary of Trash and debris removal is provided at the end of the Chapter.

Coastal Cleanup Day Totals for All of Marin	
Volunteers	2,037
Miles Cleaned	128
Pounds of Trash	7,249
Pounds of Recyclables	1,213

MCSTOPPP staff assisted [Marin County Watershed Program](#) staff and the North Bay Watershed Association with preparation of a grant proposal to



Volunteers at Shoreline in San Rafael

implement projects in the [Richardson Bay Watershed](#).

These projects were included in the NBWA portion of San Francisco Estuary Partnership (SFEP) joint proposal to the U.S. EPA for the San Francisco Bay Water Quality Improvement Fund. SFEP was awarded \$3.3 million for several projects, with \$370,000 slated for Marin County’s projects designed to improve

water quality in Richardson Bay. The grant agreement was finalized in 2010-2011. The County of Marin and City of Mill Valley are partners under this grant and will implement a creek/riparian restoration project on a tributary to Warner Creek, water quality monitoring, and a program to encourage houseboat owners in Richardson Bay to repair sewer laterals. Project implementation will begin in 2011-2012.

Watershed Program staff host the Marin Project Coordination (MPC) meetings. Staff from the Regional Water Quality Control Board, Department of Fish and Game, Army Corp of Engineers, NOAA and other agencies attend MPC meetings. Project proponents can meet with the regulatory and resource agencies to discuss prospective projects. The meetings help to streamline the permitting process by providing feedback on habitat, streambed, and stream bank protection and enhancement features. MCSTOPPP directs project proponents to these meetings and provides technical and permitting advice to creek-focused community organizations, individual creekside property owners and city and town engineers.

The County of Marin Public Works Department received a \$98,335 [grant](#) from the California State Coastal Conservancy for a Landowners Assistance Program in the San Geronimo Valley focused on protecting and restoring critical salmon habitat. The County is administering the program in partnership with the San Geronimo Planning Group and the University of California Cooperative Extension. The grant award will be used to help landowners with assessments of their properties, to identify measures which they can take to help salmon and protect their property from erosion. Over 50 landowners have signed up for this assistance program, and a waiting list exists should additional grant funds be available. All the landowner assessments will be conducted by a third party technical team, which will work directly with the property owner to develop recommendations and

Marin County Fish and Wildlife Commission

MCSTOPPP contributed \$5,000 to support [14 projects](#) selected by the committee. Some examples are:

Mill Valley Streamkeepers: Banners and signs

Friends of Corte Madera Creek: Newsletter production

Salmon Protection & Watershed Network: Salmon rescue & restoration supplies

Marin Audubon: Revegetation materials for ongoing restoration

designs for implementing restoration actions on private property. A summary of Projects are provided at the end of the Chapter.

Street Sweeping, Storm Drain Inlet Cleaning, and Visual Outfall Monitoring

Current typical minimum frequencies of street sweeping, storm drain cleaning, and visual monitoring are summarized in a Table at the end of the Chapter.

Downtown areas, such as in Sausalito, may be swept more frequently, and sweeping of all streets may be doubled during leaf season. Many municipalities monitor catch basin accumulations more frequently during rains.

Visual monitoring of culverts and outfalls that discharge to creeks allow municipal staff to detect and stop dry-weather non-stormwater discharges, identify maintenance needs, and detect erosion problems and visual pollutants.

During 2010-2011, Marin municipalities [swept](#) more than 24,800 curb-miles and [removed](#) more than 7,200 cubic yards of debris from gutters and storm drains. They also placed “No Dumping” markers on 1,282 storm drains around the County.

“ 107 residents and businesses within the Novato Creek Watershed received a stormwater pollution prevention and creek protection outreach [letter](#) and residential self inspection checklist from MCSTOPPP and partner agencies.”

Street Sweeping, Storm Drain Inlet Cleaning, and Visual Outfall Monitoring

	Street Sweeping			Storm Drain Cleaning			Visual Outfall Monitoring	
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Sites	Frequency
Belvedere	Weekly	Weekly		Annually			5	Monthly
Corte Madera	Weekly	Weekly	Weekly	Annually	Annually	Annually	33	2/wk summer daily winter
Fairfax	Monthly	Weekly		As needed	As needed		2	Twice Annually
Larkspur	Monthly	Monthly	Weekly	Annually	Annually	Annually	53	Annually
County	Annually	2x/year		As needed*	As needed*		56	Annually
Mill Valley	Monthly	4x/month		Annually	Annually	Annually	10	Monthly
Novato	Ea. 6 weeks ⁺	Weekly ⁺	Monthly ⁺	Annually	Annually	Annually	18	Annually
Ross	Weekly	Weekly		As needed	As needed		10	Monthly
San Anselmo	Weekly	Weekly		Annually	Annually		5	Monthly
San Rafael	As needed [†]	2x/week [†]	1x/month	Annually	Annually	Annually	14	Monthly
Sausalito	Monthly	3x/week	Monthly	Annually	Annually	Annually	36	Annually
Tiburon	Weekly	Weekly		Annual	Annual	Annual	17	3-4x/year

*The County rents a vactor from Nov. 1 to Feb. 28 to clean catch basins in Santa Venetia and Tam Valley and respond to complaints in other areas.

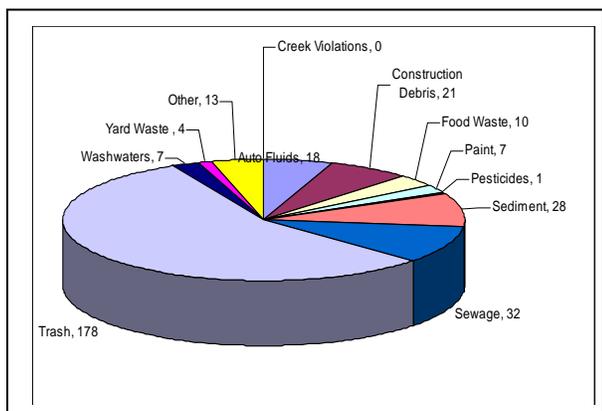
⁺Altered street routes to not be in the same area as the local garbage trucks.

[†]San Rafael collects the same amount of debris on a less frequent basis.

Municipalities Continue Outreach in Response to Illegal Dumping Incidents

Municipal stormwater staff respond to complaints of dumped materials found in creeks or storm drains. Sometimes residents see dumped materials or witness illicit discharges in progress and report it to local police or public works departments.

Types of materials found this year, and the number of



times each was found, are shown in the pie chart. Municipal staff issued 54 verbal or written warnings, 20 warnings with [notices to abate](#), and two cease and desist orders in response to dumping incidents. Staff often implement an outreach and education approach to preventing stormwater pollution. In 2010-2011, staff distributed educational materials in response to more than 30 incidents. When it is impossible to identify the responsible party, municipal staff may distribute door hangers or other materials to businesses and residents in the area.

Compared to previous years, there was a significant increase in the frequency of incidents, 319. This increase was due in large part to a substantial increase in the number of trash incidents reported in San Rafael. There were a 172 reports of trash dumped on the streets that Street Maintenance removed. This

increase in reported incidents and public awareness may be due to the San Rafael Clean Campaign.

Students and Teachers Restoring Marin Watersheds

MCSTOPPP supported the [PRBO Conservation Science's Students and Teachers Restoring A Watershed](#) (STRAW) program again in 2010-2011.

STRAW and MCSTOPPP staff made classroom presentations to approximately 24 classes on stormwater pollution prevention and riparian restoration. The presentations prepared approximately 826 students for their restoration days.

Topics included watershed anatomy, the value of healthy riparian corridors, and the need to prevent stormwater pollution and erosion. The 2010-2011 in-class presentation was improved to better emphasize the importance of maintaining a healthy and diverse riparian corridor and stormwater pollution prevention.

Highlights from this year's [report](#):

- ◆ In the Arroyo Corte Madera del Presidio Watershed, 19 1st grade students participated in a maintenance day that included weeding around native plants that were planted by previous years' students.



Photo Left: Parents hold large trash bags to collect non-native plants removed by the students and then dump them in the collection pile for City of Novato Parks staff.

- ◆ At the Marinwood Park/Miller Creek Middle School (MCMS) STRAW site, 194 6th graders and 182 7th graders helped remove 20 cubic yards of invasive plants and planted 137 native riparian plants.
- ◆ At the Dixie School site on Miller Creek, 75 4th graders pulled over five cubic yards of Himalayan blackberry and other non-native species along Miller Creek. They also mulched around existing native plants from the previous season.
- ◆ 252 6th grade students completed 2 days of restorations in a tributary to Mahon Creek that runs through Davidson Middle School. Students removed eight cubic yards of non-native plants and planted 49 native riparian plants.
- ◆ In Novato Creek students from 4th grade removed three cubic yards of non-native plants and planted 21 natives. The students also got a chance to work with staff from Point Reyes Bird Observatory to conduct a riparian bird survey.



Following the Santa Barbara Sedge transplanting, students are seeding the newly exposed areas of the creek bank and flood plain with California Fescue; afterwards the area will be covered with straw.

Trash and Debris Removal in 2010-2011

Municipality	Activity
Belvedere	Volunteers cleaned up a section of public shoreline along San Rafael Avenue Seawall.
Corte Madera	Staff walks the High and Low Canals and the Cay Passage Outfall weekly and removes debris as necessary. Staff also monitors local creeks, wetlands and lagoons. Staff assist residents with debris removal on the annual volunteer trash cleanup day. San Quentin crews perform weed abatement and debris removal every sixth week.
Fairfax	Coordinated creek cleanup with Fairfax Volunteers to remove trash and debris from Fairfax and San Anselmo Creeks annually.
Larkspur	Marin Rowing Club volunteers clean up creek bank debris adjacent to their boat docks and capture floating debris for city pick up.
County	Flood District contracted with Conservation Corps North Bay (CCNB) to maintain 26.5 creek miles. Marin County Parks also has volunteers that work every month doing beach cleanups at Agate Beach and litter pick up along Coyote Creek and Bothin Marsh. Marin County Parks had 190 volunteers for Coastal Cleanup Day at various park locations.
Mill Valley	City contracted with CCNB to clean creek areas including Arroyo Corte Madera del Presidio, Ryan, Sutton Manor and Warner Creeks. The City hosted a Beautification Day with volunteers picking up trash in locations including Corte Madera del Presidio Creek, Goodman's Marsh and Bayfront Park.
Novato	Use CCNB crews for creek cleaning. Utilize local volunteers for trash pickup in local creeks and for Novato Clean and Green in April.
San Rafael	Volunteer litter cleanups at Mahon Creek and Gallinas Creek for Coastal Cleanup Day and Earth Day. City staff coordinated cleanups with volunteers at several locations in conjunction with the San Rafael Clean campaign.
Sausalito	The Friends of Willow Creek participated in a creek cleanup event led by San Francisco Bay Regional Water Quality Control Board member, Steve Moore.
Tiburon	Town staff assisted volunteers with debris removal on Coastal Cleanup Day and Earth Day.

Creek Restoration and Maintenance Projects Update

Project	Description	Status
Belvedere drainage improvements - Pine to Belvedere Avenue Storm Drain Replacement - 49 Belvedere	Remove and replace a section of deteriorated storm drain pipe	Engineering phase
Tamalpais/Redwood Ave Overlay	Repair, reconfiguration and paving of sidewalks, catch basins and streets	Complete
Golden Hind Flood Control Station	Installation a new pump station and storm drains to eliminate flooding due to tidal action	Under construction
Marina Village Flood Control Project	Flood control improvements consisting of storm drain lines and stormwater pump station	Preliminary Design
Pastori outfall pipe	Outfall pipe replacement	On hold
Pedestrian bridge replacement over Fairfax Creek at the end of School St.	New Pedestrian Bridge	Completed
Bank Stabilization project for the Lanai apartments along Fairfax Creek	Bank Stabilization	Willows planted
Sausalito Yacht Harbor Bulkhead	Installing a Concrete Sheet Pile Bulkhead to shore up a failing existing timber pile bulkhead and stormwater filtration system	Project started in March 2011 and is expected to continue into the first qtr of 2012
Dunphy Park Outfall Rehab	Replace Culvert	In Planning Phase
Gate 5 Road culvert outfall rehab	Installation of "duck bill" flap gate of a storm drain adjacent to 306 Gate 5 Road	Problem assessment study completed. Project scoping will be started in FY2011/12.
Corporation Yard Repave	Repaves the yard, installs BMP facilities to allow liquid non-stormwater discharges to be routed to sanitary sewer. Corp Yard spans a culverted portion of Willow Creek	Project design completed. Expected to be completed in 3 rd Qtr, 2011
Lagunitas Bridge Replacement	Replaced	Completed Nov. 2010
Laurel Grove Culvert Replacement	Replaced	In Progress
Laurel Grove Slide Repair	Repair	In Progress
Corte Madera Creek Left Bank Repair @ Lagunitas Bridge	Repair	In Progress
Arroyo Creek Fish Passage Restoration	Replace an existing CMP culvert with an open-bottomed arched culvert, combined with a rocky ramp to improve fish passage.	Constructed began on this project in the summer of 2010 and will be completed in September 2011.
Berens slough culvert: Replace or Reline - ECFX90C	Reline or Replace 2 deteriorated corrugated metal pipe culverts under the flood control levee in Kentfield	Met with RVSD to discuss coordination with the force main relining project. Project construction to begin in 2010.
Bothin Marsh/Coyote Creek. Restoration & Flood Control	A multi-faced channel re-design - marsh restoration project that will improve connectivity between Bothin Marsh and Coyote Creek, enhancing and expanding habitat and mitigating channel maintenance requirements and impacts.	PWA has developed and continues to refine conceptual project alternatives which were favorably received by State Regulatory Agencies. PWA has also completed a wetlands delineation for the project area and received input from USACE to develop preliminary.
Vineyard Creek Improvements	Replace the Center Road culvert and improve channel to increased cross-sectional area, stabilize banks/creek bed, and improve habitat.	Project construction is completed and for the next 5 years geomorphic monitoring will be performed.

CHAPTER 4: Building and Renewing

Municipalities Continue to Assist Water Board Staff with Construction Permit Compliance

In October 2008 Water Board staff asked for help compiling a list of active construction sites in Marin. Explaining their own records were out of date, they asked municipalities to prepare a list within a few days and Marin municipalities immediately complied.

The Water Board staff requested this submittal become routine. In addition to the construction site performance standards described in Action Plan 2010, each MCSTOPPP municipality will develop and submit to the Water Board, on or before October 15th, a list of all active construction sites within its jurisdiction.

Projects that are part of a development disturbing an acre or more are regulated by a statewide [General Stormwater Permit for Construction Activities](#). All Marin municipalities require builders of these projects to show they have notified the SWRCB they intend to comply with that permit. Projects in progress are tabulated at right.

Some Marin municipalities prohibit grading during the wet season. All require builders of projects with potential to cause significant erosion to prepare and implement effective erosion and sediment control plans if they plan any wet-season construction activity.

For smaller projects, municipalities attach erosion control information—either an [8½" x 11" sheet](#) or a full-sized plan sheet—to the project’s building, grading, or encroachment permits.

Municipalities conduct timely seasonal outreach to contractors to help ensure compliance with erosion control requirements (for example the County sends a notice by October 15th) and monitor construction sites to ensure construction materials are stored under cover or tarped and that excess concrete, paint, and other wastes aren’t washed into storm drains. To aid in these inspections, the partnering MCSTOPPP

agencies developed the [Inspection Checklist for Construction Stormwater Controls](#).

Major Construction Projects

Project	Acres
Marin County	
1 Saint Vincents Drive	1.5
Ross	
2 Glenwood Avenue	>1
36 Glenwood Avenue	>1
Branson School	>1
Ross School/Common Restoration	>1
San Rafael	
33 San Pablo Development	>1
Target	19.4
The Village at Loch Lomond	131
Elk’s Club	2
Tiburon	
110 Gilmartin Drive	3.1

MCSTOPPP Focus on Training

Training workshops this fiscal year focused on the new State Construction Stormwater General Permit and construction site compliance.

MCSTOPPP co-sponsored a workshop with the Marin Napa Sonoma Stormwater Association (MNSSA) on July 29, 2010. A flier for the [“Stormwater Regulatory Compliance Workshop for North Bay Construction and Development Projects”](#) was mailed to 135 local stormwater coordinators and local contractors/developers. The flier was also emailed and posted on the MCSTOPPP website.

MCSTOPPP held a [Construction Stormwater Management Compliance Workshop](#) on May 5, 2011. Thirty five people attended from municipalities and private construction firms. This year, in addition to using evaluation forms to determine if the material was appropriate and useful, there was a test given before and after the Workshop. On average there was an 18% improvement in correct answers after the Workshop.

MCSTOPPP also co-sponsored with MNSSA a [Construction Permit QSD/QSP Training Course](#) for the California Construction General Permit in September 2010. The training flier was emailed to Marin municipal staff, developers and contractors and posted on the MCSTOPPP website. The purpose of this training course was to prepare individuals intending to take the Qualified SWPPP Developer and Qualified SWPPP Practitioner Exam given by the Regional Water Boards.

MCSTOPPP staff gave a [presentation](#) to County Capital Improvement Projects (CIP) staff on the new NDPEs Construction General Permit April 14, 2011.

Low Impact Development Drainage Design Featured in 2010-2011 Projects

Marin municipalities continue to adapt their development review procedures to incorporate MCSTOPPP’s *Guidance for Applicants* manual.

Notable 2010-2011 projects include:

- ◆ The Twin Cities Police Building currently under construction in the City of Larkspur. The site design includes bioswales, pervious concrete paving and planter box drains.
- ◆ A residential subdivision in Novato currently under construction will include grassy swales and detention pond basin.
- ◆ Two projects under construction in Novato, a residential subdivision and a new office/retail building, will have on site treatment as part of the site design. An underground stormwater filter system will be connected to the storm drain.

- ◆ In Sausalito, two new single family homes were designed with biofilters and another home was designed with a green roof and cistern.

See the table of [2010-2011 projects](#) online.



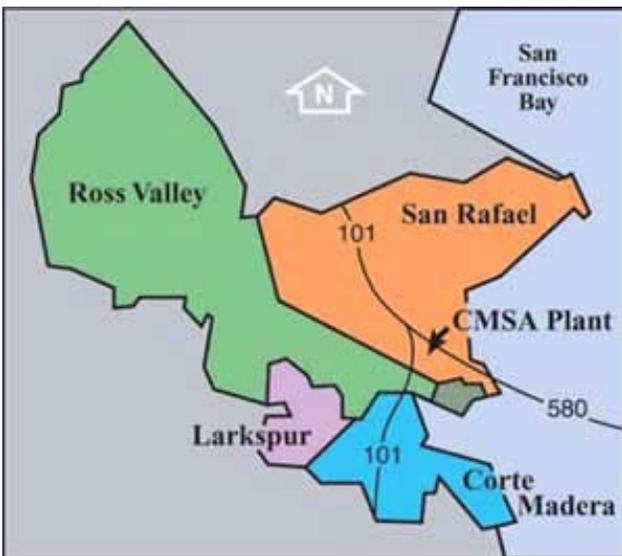
Top picture is before and bottom picture is after creek maintenance project in Corte Madera

CHAPTER 5: Educating Ourselves at Work

MCSTOPPP Countywide Stormwater Inspection Program

Business [inspections](#) were conducted in multiple jurisdictions by inspectors from Marin County Environmental Health Services (EHS), Central Marin Sanitation Agency (CMSA) and Marin County Certified Unified Programs Agency (CUPA). A number of municipal fire departments also look for stormwater issues during routine business inspections. Stormwater staff from Corte Madera, Fairfax, Mill Valley, San Anselmo, Sausalito and the County conducted additional inspections based on complaints, referrals or knowledge of their commercial areas.

In 2010-2011 [EHS](#) inspected 3,398 food-handling facilities and commercial swimming pools throughout Marin’s municipalities. Inspectors referred non-stormwater discharges at 8 locations to the MCSTOPPP program. EHS modified their new database to add service codes for response to stormwater issues to enhance their ability to track and report responses to stormwater problems found at food service businesses, multi-family housing and



Central Marin Sanitation Agency’s service area includes many of Marin’s commercial areas.

swimming pools.

[CMSA](#) inspects significant industrial facilities,

automotive facilities—including dealerships and repair shops—and commercial car wash facilities within its service area. Of the 212 stormwater inspections conducted one referral was issued and three citations.

The CMSA Fats, Oil and Grease (FOG) Program includes inspections of grease recycle bins at food service establishments (FSEs). The objective of the program is to reduce clogging of sanitary sewers and overflows to storm drains. In 2010-2011 CMSA conducted 457 inspections of FSEs.

[CUPA](#) inspects all sites where regulated quantities of hazardous materials are stored. Local Fire Departments or Districts also inspect businesses in Mill Valley, Ross, San Anselmo and Fairfax.

Any actual or potential stormwater discharges found during these inspections are reported to the local municipal stormwater coordinator. In response to the referral, the coordinator investigates and works with the business owner to correct the problem. Inspectors may hand out available outreach material with BMPs. If necessary, the coordinator can bring enforcement action under the local stormwater ordinance.

Education for Businesses and Inspectors

Marin’s urban corridor along Highway 101 is largely residential. Small local service businesses—such as auto repair shops, restaurants, and nurseries—are the most significant potential sources of stormwater pollutants.

In 2010-2011, businesses in Corte Madera, Larkspur, and Tiburon received [self-inspection forms](#) with

“The Marin County Fire Department [inspected 350 businesses](#) for stormwater issues.”

annual business license renewal notices. The City of Belvedere targeted automotive repair, nursery and restaurant businesses to direct mail the self inspection forms.

With support from Marin Municipal Water District, MCSTOPPP co-sponsored its [4th Annual Bay-Friendly Landscaping Maintenance Training and Qualification Program](#). The MCSTOPPP Program Manager gave a presentation on Marin’s Stormwater Ordinances during one of the classes held over the seven week series. Bay-Friendly graduates, including 28 from 2011, are listed at www.bayfriendlycoalition.org, in the 2011 MCSTOPPP calendar, on the MCSTOPPP website, and in the AT&T Yellow Pages under the County Resource Recycling Guide.

MCSTOPPP with review assistance from NBWA finalized a BMP brochure for painting contractors. MCSTOPPP held a Workshop March 30, 2011 on “[Meeting Stormwater Inspection Requirements in Marin Industrial and Commercial Facilities](#)”.

Sample Questions from Business Self Inspection Checklist	
◆	Are storage containers free from cracks and leaks, have lids or covers that are kept closed, and are not exposed to rain water?
◆	Are storage areas enclosed or covered from rain?
◆	Are parking areas and access roads free of excessive oil, motor fluids, leaks, stains, litter and sediments?
◆	Are vehicle repair and maintenance areas covered and out of the rain?
◆	Are dry cleanup methods used to clean work areas?
◆	Are vehicles and heavy equipment, which are stored outside, free of leaks and grime?

There were 23 attendees including representatives from all municipalities, CalTrans, CMSA, EHS and CUPA. Workshop topics included a regulatory overview, what to look for during stormwater inspections, working with business owners and the Regional Water Board’s perspective. The workshop also included an exercise where participants conducted a corporation yard inspection and then discussed the findings, documentation and follow-up actions. The workshop ended with a panel discussion of inspectors from CUPA, CMSA and EHS. Ninety five percent of the attendees surveyed found the workshop useful.

Outreach Materials Available for Businesses

Title	Publisher
What Apartment Managers Need to Know About Sewers & Storm Drains (in English and Spanish)	MCSTOPPP
Bay-Friendly Landscape Guidelines	STOPWaste
Stormwater Pollution Prevention for Restaurants and Food Handling Facilities (poster in English and Spanish)	MCSTOPPP
Food Handling Facilities Guidebook	MCSTOPPP
Pollution Prevention for Swimming Pool, Spa and Fountain Maintenance	MCSTOPPP
Preventing Pollution for Gas Stations and Related Businesses	MCSTOPPP
Horse Owner’s Guide to Water Quality Protection	Bay Area RCDs
Pollution from Surface Cleaning	BASMAA
Our Water Our World (Integrated Pest Management website)	BASMAA
Painting Contractors BMP brochure	MCSTOPPP/ NBWA
All materials are available at www.mcstoppp.org or by calling MCSTOPPP at 415-499-6528. See Chapter 6 for more on MCSTOPPP’s pollution-prevention outreach activities.	

Enforcement Actions

After years of MCSTOPPP outreach, stormwater violations are rare. When required, agencies act to ensure businesses comply with local ordinances. Some 2010-2011 examples include:

- ◆ Fairfax inspected one restaurant based on complaints of a messy trash area. The owner received a warning and the follow-up inspections indicated compliance.
- ◆ In response to a complaint, County staff investigated and issued a notice of violation. The follow-up inspection was conducted to verify that potential pollutants had been removed or properly stored.
- ◆ Two-citations were issued to automotive repair shops for washing cars outside of wash racks and one citation was issued for using soap instead of plain water on cars in San Rafael.



The MCSTOPPP Business Inspector Workshop focused on how to recognize stormwater issues during routine inspections and the BMPs that are required to correct them.

CHAPTER 6: Educating Ourselves at Home and at School

Reaching the Next Generation in School and Out

From early on MCSTOPPP has supported school based education and outreach.

Publication Distribution: During 2010-2011, MCSTOPPP provided 85 copies of [Pest or Pal](#) activity guides to Tam Valley School and an assortment of information to St. Rafael’s School for Earth Awareness Day. On request, MCSTOPPP also provided numerous publications (e.g. [coloring books](#), miscellaneous [activity guides](#)) to other teachers as well as organizations and the general public for use by children.

Diorama: MCSTOPPP’s [diorama](#), which illustrates how stormwater carries pollutants to local creeks and bays, was loaned to several schools. It was also used by two MCSTOPPP staff for Wetland Days on June 2 – 3.



This event is sponsored by Sewage Agency of Southern Marin and attracts over 200 students annually. Seven classes of third graders spent 25 minutes each watching and participating in the watershed diorama demonstration. The diorama continually shows signs of wear and requires refurbishing annually.

School Presentations: In January 2011, MCSTOPPP Program Administrator gave a [presentation](#) to Ross School students. The presentation was “How Can Students in the Ross Valley Protect the Watershed and its Creeks, the Bay and the Ocean”.

MCSTOPPP provided assistance to the Environmental Action Committee’s (EAC) watershed education program, funded by NOAA’s Bay-Watershed Education and Training Program, at the West Marin School. MCSTOPPP staff attended one class period on September 8, 2010 and gave a presentation on stormwater pollution prevention using MCSTOPPP’s watershed diorama. Staff also wrote a [letter of](#)



Miller Creek Middle School students remove non-native, invasive species.

[support](#) to assist EAC obtain additional funding from NOAA and committed to providing assistance.

The Bay Institute’s Student’s and Teachers Restoring A Watershed ([STRAW](#)) activities are discussed in Chapter Three and the above photo shows students participating in that program.



Students transplant native Santa Barbara Sedge into an area of creek bank and floodplain.

Reaching the General Public

During 2010-2011, MCSTOPPP continued its successful programs to reduce homeowners' use of toxic pesticides in the home and garden.

Our Water – Our World: MCSTOPPP continues to be part of the [Our Water - Our World](#) (OWOW) program and staff completed eight store setups (refreshed shelf talkers and fact sheets) and contracted to complete six additional stores for a total of 14 OWOW [store setups](#) in Marin. A free in-store [employee training](#) at an OWOW store was held on July 26, 2011. [Nine employees](#) from 3 Sloat Nursery stores attended the training. Training for other OWOW stores will be offered next fiscal year. To support our partner stores, the OWOW program is promoted in the MCSTOPPP 2011 calendar, on the website, and in an advertisement in the AT&T Yellow pages. Most recently MCSTOPPP staff worked with the Marin Watershed Program to place information on their home page about less toxic pest management and the OWOW program.



MCSTOPPP booth at the Bay Friendly Gardening workshops

Eco Friendly Garden Tour: The Marin Municipal Water District (MMWD), North Marin Water District (NMWD) and the Marin Independent Journal joined with MCSTOPPP in sponsoring the Fifth Annual [Eco Friendly Garden Tour](#) on May 19, 2011. Support was also provided by the Sonoma County Water Agency and the University of California Cooperative Extension Marin Master Gardeners, as well as 93 volunteers. Participants chose from 28 gardens to view eco friendly gardening practices and talk to landscape professionals. Over 400 people accounted for more than 1,800 garden visits during the 6 hours the gardens were open to the public. Registrants were given a detailed booklet describing eco-friendly elements of each garden and a *Gardens at a Glance*

handout which included a map showing each garden location, major watershed boundaries and local creeks. The written materials that were made available promoted and featured stormwater-friendly practices found at each of the gardens.

Educational Calendar & Tidebooks: Since 2002, MCSTOPPP has published a wall [calendar](#) for the general public. Every month touches on an environmental theme relating to Marin watersheds. In 2012, the Central Marin Sanitary District, Marin Municipal Water District, Ross Valley Sanitary District and Marin Independent Journal provided support for the calendar's 28,000 print run which were distributed mainly by the [Marin IJ](#). A [survey](#) accompanied each calendar and recipients were asked to mail it back to MCSTOPPP. A total of 447 responses were received.

MCSTOPPP continued to print and distribute 7,000 tidebooks with a "clean boating" message on the back cover. They were made available at 34 locations throughout Marin.

Bay-Friendly Gardening Workshops: MCSTOPPP also cosponsored [Bay Friendly Gardening workshops](#) for residents on July 17, July 31 and August 17, 2010. MMWD funded the workshops co-sponsored by MCSTOPPP and Marin Art and Garden Center.

Home & Garden EXPO: MCSTOPPP staff purchased booth space and recruited seven Bay-Friendly Landscape Professional volunteers to staff the [booth](#) at the Marin Builder's Association's [Marin Home and Garden Expo](#) held June 4-5, 2011. The booth focused on less toxic alternatives to managing pests in the home, water conservation, native plants and Bay-Friendly gardening. At the suggestion of a MCSTOPPP CAC member, MCSTOPPP worked with the Bay-Friendly Coalition to allow Bay-Friendly graduates to obtain continuing education credits by assisting MCSTOPPP with the event.

IPM Advocates Training: MCSTOPPP is a partner with BASMAA, UC IPM and the Department of Pesticide Regulation in the IPM Advocates Training and

Mentoring Program funded by a Pesticide Alliance Grant. This program will [train professionals](#) to assist employees at OWOW stores to better inform customers on making informed choices about less toxic products and to assist store managers in making product selections for their stores.

Garden Summit: The [Marin Community Garden Summit](#) held on April 29, 2011 in San Rafael was well received by attendees. The summit featured expert speakers from around the Bay Area specializing in



Bay Friendly Landscape Professional volunteer at the MCSTOPPP booth

specific areas related to community gardens. One hundred and six community members registered for the event along with twelve organizations with display tables promoting their services to strengthen the community garden resources for Marin residents. MCSTOPPP sponsored a table and distributed Eco-/Bay- Friendly gardening and IPM materials. MCSTOPPP provided financial support to the workshop and staff also participated in the workshop planning in order to include a water quality protection message.

Door Hangers: At the request of the City of Novato, MCSTOPPP developed [door hangers](#) that can be distributed by municipal staff and/or community organizations (e.g. boy scouts) when canvassing a neighborhood or doing stenciling projects.

Storm Drain Markers: MCSTOPPP purchased 1,200 storm drain markers for use by municipal staff in the 2010-2011 FY.



Regional Cooperation: MCSTOPPP is a member of the Bay Area Stormwater Management Agencies Association (BASMAA) and as such, is part of the Regional Ad Campaign that focused primarily on developing a strategic plan on reducing [Litter](#) and improving exposure of the OWOW campaign that addresses reduced use of [Pesticides](#). The [Media Relations Campaign](#) did a series of media pitches on rainy season/car maintenance, burning holiday gift wrap, reusable lunch boxes/water bottles, hiring an IPM certified PCO, ant control, and summertime reusable/anti-litter tips.

Publication Distribution: MCSTOPPP responds to numerous [requests for publications](#) throughout the year. For example, 145 copies of "Growing Gardens from Garbage: A Guide to Composting, Mulching and Grasscycling" were provided for use through the Marin Master Gardener composting workshops held January 27, February 8, March 3 and April 16, 2011.

In addition, another 240 copies of "Growing Gardens from Garbage: A Guide to Composting, Mulching and Grasscycling" went to the County Office of Waste Management for distribution at the 2010 County Fair.

MCSTOPPP also provided a selection of materials to the Marin County Community Development Agency for distribution to 2011 Marin County Fair participants.

Other Examples of Publication Distribution

- ◆ Provided materials to Marin Master Gardeners for distribution at the Marin County Fair and farmers markets.
- ◆ Printed 1208 Fish Friendly Guides for Mill Valley Stream Keepers to distribute at outreach events and to include with a newsletter mailing to 600 residents and businesses.
- ◆ Sent 50 Groundwork Manuals to San Geronimo residents
- ◆ Provided materials to Mill Valley Stream Keepers to distribute at the Mill Valley Fall Arts Festival in September 2010.
- ◆ Provided 200 “Go Native” booklets to Marin Master Gardeners for distribution through events such as the MMWD Garden Walks.
- ◆ Granted Marin Municipal Water District permission to re-print copies (over 500) of MCSTOPPP’s publication called “Go Native!” for distribution through events sponsored by the District.

C2 Alternatives worked with the group Promotores Verdes (Green Promoters). They provided information on a variety of environmental topics with an emphasis on recycling of used motor oil and filters. It was estimated that more than 1,500 people attend the event.

MCSTOPPP New and Revised Publications 2010-2011	
Title	Notes
Door Hanger with pollution prevention message	Developed at the request of the City of Novato
Go Native!	Updated and printed
Our Water – Our World Pocket Guide	Updated for the OWOW Program
Fish Friendly Guide	Finalized countywide version
Annual MCSTOPPP Tidebook (funded through Used Oil Block Grant)	Distributed 7,000 copies through more than 41 Marin locations
MCSTOPPP 2011 Wall Calendar	Distributed 28,000 calendars and surveys to residents
MCSTOPPP website	Includes local stormwater coordinators’ contact information and online brochures

Targeted Outreach – ESL Students:

MCSTOPPP contracted with C2 Alternatives to provide curriculum to local English as a Second Language (ESL) instructors who taught [lessons](#) on Used Oil Recycling in (ESL) classes. Classes are taught on two College of Marin campuses and at various community venues. A total of 176 students participated in the classes. Eleven class record forms showed 78% of the students had cars and 53% of all students reported that they or someone in their household changed their own oil. Used oil recycling education was funded by State Used Oil Block Grants, a program administered on behalf of 11 Marin County municipalities by MCSTOPPP.

MCSTOPPP also funded C2 Alternatives participation in the October 9, 2010 [Canal Health and Safety Day](#).

CHAPTER 7: Water Quality Planning and Monitoring

MCSTOPPP Participating in Water Quality Initiatives

The Regional Water Quality Control Board has approved the following Total Maximum Daily Loads (TMDLs) and Basin Plan Amendments for waterbodies in the County:

[Tomales Bay Pathogens TMDL](#), the [Richardson Bay Pathogen TMDL](#) and [Diazinon and Pesticide-Related Toxicity in Urban Creeks TMDL](#).

The focus of MCSTOPPP's water quality efforts in the Tomales Bay Watershed is to assist horse facility owners implement Best Management Practices and address non-stormwater discharges from their properties. Stormwater program staff respond to complaints regarding horse facilities and direct facility owners to guidance documents on good horse facility management practices. The MCSTOPPP website offers five different resource documents for [horse property](#):

- ◆ Assessment of Best Management Practices for Equestrian Facilities in the Tomales Bay Watershed
- ◆ Horse Keeping: A Guide to Land Management for Clean Water
- ◆ Horse Manure Management: A Guide for Bay Area Horse Keepers
- ◆ Horse Owners Guide to Water Quality Protection
- ◆ Manure Management Practices of 30 Horse Ranches in Marin County

Richardson Bay Pathogen TMDL activities target pet waste. Specific implementation measures include additional education and outreach by MCSTOPPP's countywide program and maintenance of existing pet waste dispensers by local municipalities. Local programs have responded by maintaining existing dispensers at the optimum level of distribution. Local programs are also addressing sanitary sewer overflows and rehabilitation of older sanitary sewer lines.

In this fiscal year MCSTOPPP compiled a list of pet-

related businesses in the Richardson Bay Watershed. Next year the Program will distribute a [pet waste pollution prevention brochure](#) to the businesses with a letter asking them to make the brochure available to customers.

Both the Countywide Program and local municipalities continue outreach to boat owners regarding illegal discharge of untreated sewage into Richardson Bay and San Francisco Bay.

MCSTOPPP continues efforts to reduce pesticides through its comprehensive public education and outreach activities. In addition to implementing their own activities and co-sponsoring activities, MCSTOPPP participated in BASMAA's [Our Water - Our World](#). For more information on MCSTOPPP and OWOW activities see Chapters 5 and 6 and [BASMAA's Annual Report](#). Pesticides were also addressed in [BASMAA's Media Relations campaign](#).

For more information on all of the MCSTOPPP TMDL efforts see the summary of [TMDL Implementation Measures 2010-2011](#).

Educating and Informing with Marin Monitoring Data

The Environmental Forum of Marin is a nonprofit organization dedicated to "preserving the quality of our environment through education". They provide an intensive training program and public educational services that increase understanding of ecology, environmental issues and the planning process.

The MCSTOPPP Program Manager gave a presentation on February 26, 2011 to the Environmental Forum of Marin. The presentation "MCSTOPPP: Protecting and Enhancing Marin's Watersheds" discussed the Program and the water quality monitoring conducted over the past 10 years.

MCSTOPPP did not conduct any creek monitoring this last fiscal year. The Program did contribute to a portion of the 2010-2011 water quality testing conducted by the Richardson Bay Regional Agency (RBRA). RBRA

conducted water quality testing in support of the Richardson Bay TMDL. All of the results were submitted to the San Francisco Bay Regional Water Quality Control Board in 2010-2011.

MCSTOPPP staff also participate in the North Bay Watershed Association's Habitat and Floodplain and Water Quality Technical Committee meetings.

Stormwater Pollution Prevention in the City of Belvedere

About Belvedere’s Stormwater Pollution Prevention Program

The City of Belvedere, population 2200, occupies about one square mile on the Tiburon peninsula. The community comprises three areas: Belvedere Island, a portion of Corinthian Island, and the Lagoon, which is situated between the two islands.

The City was incorporated in 1896, and grew as an exclusive residential community near the railroad and ferry terminus in adjacent Tiburon. Following World War II, portions of the Lagoon were filled for tract homes and a golf course, which was subsequently developed for additional residences.

Hilly and lush, Belvedere Island has narrow roads with no curbs or gutters. Streets and private lots drain through pipes and culverts to Richardson Bay or to the privately owned Lagoon.

Streets in the Lagoon area have curbs and gutters. The Lagoon typically functions as a detention basin and a recreation area to residents on the Lagoon; water flowing into the Lagoon is discharged after settling and during a low tide. City staff works with Lagoon property owners to keep pollution from entering the body of water.

Belvedere’s Stormwater Staff

Stormwater Coordinator, Illicit Discharge Detection and Elimination, Municipal Maintenance, Outfall Monitoring, Public Information and Participation	Scott Derdenger, Public Works Manager, 415-435-3838 sderdenger@cityofbelvedere.org
Capital Improvement Projects and Drainage	Bob Branz, City Engineer
Planning Department contact; Development Approvals	Pierce Macdonald, Planning Manager
Construction Inspection	Genaro Muniz, Building Inspector

Stormwater Program Organization

The local stormwater pollution prevention program is funded by the City’s General Fund. Scott Derdenger, Public Works Manager, coordinates the City’s program and participates in MCSTOPPP’s

bimonthly Agency Staff Committee meetings.

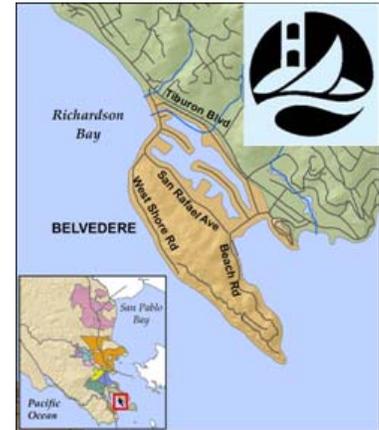
A 2005 ordinance restricts the use of pesticides by City staff. Weeds and other invasives are removed by hand or mechanical methods. No pesticides were used in publicly maintained areas in 2010/2011.

The City is working with members of the Community after forming a Flood Zone Committee to review the new FEMA Flood Zone map. The committee is working to develop priorities that will determine what actions will be taken to mitigate future flood concerns. An engineering firm has been retained to evaluate and develop a strategy for mitigating flood concerns.

Improved Communication with Residents and Stormwater Controls Implemented

Belvedere continues to improve communication to residents, organizations and businesses about stormwater pollution prevention both during construction and as a permanent amenity after construction is completed. The City’s [new website](#) is a powerful tool which the City uses to inform residents of a wide variety of news.

In 2010-2011, the Planning Department successfully obtained a Stormwater Control Plan for all new residences and additions. Creative solutions in the plans included green roofs over portions of the new impermeable areas and the incorporation of on-site dissipaters and bio-retention features. The Public



Belvedere occupies about one square mile on the Tiburon peninsula.

Works department successfully reviewed the safety of on-site storage and treatment features, which can be a challenge on the steep topography of Belvedere.

Some of the earliest examples of permanent stormwater pollution prevention features are now being installed in projects which obtained approvals in 2009 or later. The City's landscape improvement project along San Rafael Avenue will decrease a significant portion of impermeable paving (+100 feet) by replacing existing asphalt and adding landscaping and plantings. The City's terrace remodel will also triple the amount of existing permeable areas by adding new planters and tree wells, where there is only cement now.

More Accomplishments by Belvedere in 2010-2011 and Priorities for 2011-2012

City of Belvedere staff accomplished the following during 2010-2011:

- ◆ Launched a new website that has an updated page containing details on the [street sweeping program](#) including maps and specific route details.
- ◆ Included articles on preventing storm water pollution in City hardcopy [newsletter](#) mailed [twice](#) a year to residents.

Priorities for 2011-2012

- ◆ Solicit the participation of Belvedere's yacht clubs in the design of water retention and treatment features in applications for remodels and additions.
- ◆ Improve web pages and interactive features dedicated to stormwater pollution prevention on the City's website.
- ◆ Pursue additional staff training in LID and the NPDES permitting requirements.

For information about Belvedere's routine stormwater pollution prevention activities, see the MCSTOPPP Annual Report at www.mcstoppp.org.



In Belvedere we request that concrete contractors use plastic under their pumps during use

“City staff are continuing to evaluate environmental improvements at the City corporation yard, including improved area for vehicle washing.”

Belvedere links for on-line viewers:

- ◆ [City of Belvedere website](#)
- ◆ [San Francisco Yacht Club](#)
- ◆ [Email Belvedere's Stormwater Coordinator](#)

Stormwater Pollution Prevention in the **Town of Corte Madera**

About Corte Madera’s Stormwater Pollution Prevention Program

Corte Madera is located in central Marin County and has about 9,500 residents. The Highway 101 corridor divides the town into east and west sections. The town is bordered on the east by San Francisco Bay and by hilly terrain on the west. It borders the Cities of Larkspur and Mill Valley.

Corte Madera was part of the Corte Madera del Presidio land grant given to John Reed in 1836. Reed established a mill in neighboring Mill Valley and produced lumber used to build San Francisco’s Presidio. After most redwoods were harvested, the local economy shifted to farming and cattle ranching. The area became a summer retreat for San Franciscans, and many summer homes became permanent after the 1906 quake. The Town was incorporated in 1916.

In later years, as concern over the perception of expanding commercial development occurred, the Corte Madera Ecological Reserve was created.

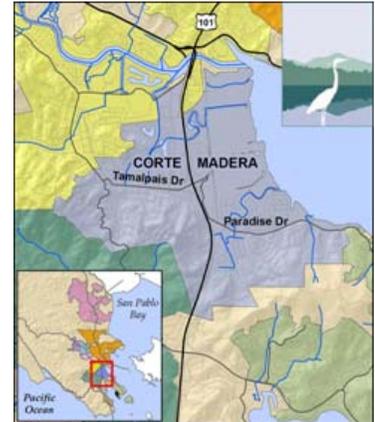
Stormwater Program Organization

Stormwater Coordinator Kevin Kramer directs the Town’s stormwater pollution prevention activities. He is also the Superintendent of Sanitary District #2 so activities related to both agencies regarding

Corte Madera’s Stormwater Staff

Stormwater Coordinator, Municipal Maintenance, Commercial and Industrial Inspections and Outreach, Illicit Discharge Detection, and Public Information and Participation	Kevin Kramer, Director of Field Maintenance & Operations 415-927-5057 kkramer@ci.corte-madera.ca.us
Capital Improvement Projects and Drainage,	Barry Hogue, Director of Public Works
Construction Inspection	David Keane Engineer
Development Approvals and Planning Department contact	Dan Bell, Director of Planning

stormwater pollution prevention can be and are closely coordinated. Recent negotiations between Mill Valley Refuse (MVR) and the town made MVR responsible for 133 more trash receptacles throughout the Town.



Corte Madera is centrally located and is bisected by the Highway 101 corridor

Corte Madera continues to implement an Integrated Pest Management (IPM) policy.

Town Going Straight to the Water

In Corte Madera the waterways are cleaned weekly. The Department of Public Works staff walk the High and Low Canals, and the Cay Passage Outfall, each week throughout the year. All center medians are also walked and cleaned weekly. All debris found is immediately removed and disposed of properly.

Stormwater Program staff participated in the planning and construction of a bio-dock at Lagoon 1. Staff provided landscape materials and support for the project.

The Town has repaired the bank along High Canal to prevent further erosion.

More Accomplishments by Corte Madera in 2010-2011 and Priorities for 2011-2012

Town of Corte Madera staff accomplished the following during 2010-2011:

- ◆ Installed 5 check valves along High Canal.
- ◆ Repairing discharge tubes and manifold at Marina Village (in progress).
- ◆ Installed 600 feet of silt fence to keep trash out of waterway.

- ◆ Monitoring erosion sites on a weekly basis
- ◆ Building concrete pads for trash receptacles to eliminate water pollution.
- ◆ Building Golden Hind Flood Control Pump Station (in progress).
- ◆ Modified several catch basins to eliminate erosion.
- ◆ Captured and removed vegetable based hydraulic fluid from storm drain system. From start to finish, clean up took 2 weeks and approximately \$40,000.
- ◆ Installing cathodic protection at San Clemente Pump Station, Marina Village Pump Station, Lagoon A Pump Station and High Canal Pump Station.
- ◆ Conducted District wide smoke testing. Inspected and repaired problems within the sanitary sewer system including illicit connections to the storm drain system.
- ◆ Dispersed another 100 storm drain marker medallions throughout town limits.
- ◆ Continue to receive assistance from town residents to stop illegal dumping

Priorities for 2011-2012

- ◆ Implement performance standards and survive as a financially viable municipality.

For information about Corte Madera’s routine stormwater pollution prevention activities, see the MCSTOPPP Annual Report at www.mcstoppp.org.



Installed 600 feet of silt fence to keep trash out of waterway

Corte Madera links for on-line viewers:

- ◆ [Town of Corte Madera website](#)
- ◆ [Corte Madera’s IPM Ordinance](#)
- ◆ [NOAA Community Profile \(pdf\)](#)
- ◆ [Corte Madera Chamber of Commerce](#)
- ◆ [Email Corte Madera’s Stormwater Coordinator](#)



Town Recreation Center

Stormwater Pollution Prevention in the County of Marin

About County of Marin’s Stormwater Pollution Prevention Program

Covering about 430 square miles, unincorporated Marin County includes suburban communities such as Kentfield, Greenbrae, Marin City and Strawberry, and rural towns such as Woodacre, Bolinas and Pt. Reyes Station. In 2010, the estimated population was 70,685.

Marin’s aquatic ecosystems include salt, brackish, and freshwater wetlands and over 1000 miles of creeks from headwaters to bays or the Pacific Ocean. Protected species include steelhead trout, coho salmon, red-legged frog, California freshwater shrimp, clapper rail, salt marsh harvest mouse, and many plants.

The Marin Countywide General Plan update was adopted November 6, 2007. The updated Plan includes policies that restrict development in Stream Conservation Areas and that support preservation of

County Stormwater Staff

Stormwater Coordinator	Howard Bunce 415-499-3748 hbunce@co.marin.ca.us
Stormwater Program Administrator	Terri Fashing
Watershed Program Mgr.	Liz Lewis
Municipal Maintenance	Craig Parmley
CIP Projects/Drainage	Hugh Davis/ Jack Curley
Illicit Discharge Elimination, Outfall Monitoring	Howard Bunce/ Terri Fashing
Construction Inspection	Bernice Davidson
Planning Dept. Contact	Rachel Warner
Development Approvals	Berenice Davidson/ Terri Fashing/ Howard Bunce
Commercial/Industrial Inspections and Outreach	Scott Alber, Fire Dept. Rebecca Ng, EHS Steve Devine, CUPA
Public Information and Participation	Gina Purin/ Howard Bunce/ Terri Fashing

Marin’s watersheds.

Stormwater Program Organization

Howard Bunce and Terri Fashing coordinate the County’s program with support from the Countywide program and other County departments.



The County’s program benefits from being an integral part of the Marin County Flood Control and Water Conservation District (District). The stormwater program assists the District in field tasks, such as fish relocation and temperature monitoring, while the District implements vegetation management, debris removal, and some restoration activities in 26.5 creek miles. Stormwater staff also review proposed development projects to assure consistency with the NPDES permit and the County’s urban runoff and drainage setback ordinances.

Unincorporated County includes urban areas and over 400 square miles of rural lands.

Department of Public Works road maintenance staff sweep streets, clean catch basins, and implement SWPPPs at the County’s two corporation yards.

County Wins State Water Board Grant

On June 14, 2011, the Marin County Department of Public Works (DPW) received a grant for \$1.4 million from the State Water Resources Control Board through its Proposition 84 Areas of Special Biological Significance (ASBS) grant program. The grant will fund projects designed to reduce the potential for polluted runoff to enter two sensitive marine ecosystems in west Marin: Duxbury Reef and the Point Reyes Headlands. DPW secured the grant funds in partnership with the Parks and Open Space Department and the National Park Service (NPS).

This grant will allow the County of Marin and the Point Reyes National Seashore to improve our protection of these California coastal treasures. The

County will make improvements to the Agate Beach parking lot, which serves visitors to Duxbury Reef, which will improve the filtration of stormwater pollutants, and the Park Service will build exclusion fences to keep cattle out of creeks and repair sediment churning gullies that drain to the Headlands.

Both the County and NPS will finalize design work in 2012 and construction will be completed by the end of 2013.

More Accomplishments by County of Marin in 2010-2011 and Priorities for 2011-2012

County stormwater staff accomplished the following during 2010-2011:

- ◆ Continued field work to finish GIS mapping and stenciling of all County-owned storm drains. Staff collaborated with MCSTOPPP, Marin County Flood Control and Water Conservation District, and MarinMap to refine standards for data collection. For 2010-11 the mapping of the storm drain networks focused in the surrounding areas of Alto, Tamalpais Valley and Marin City, and included the final mapping and the verification of existing maps of county-maintained outfalls to Richardson Bay.
- ◆ Followed up on 57 reported illicit discharge and creek/riparian habitat violations and did inspections, provided guidance and outreach materials to promote water quality and reduce the impacts to watershed health, sent violation letters when appropriate, required clean-up and remediation where needed, and worked with other local and outside agencies as necessary to achieve compliance on the violations.
- ◆ The Local Stormwater Program partnered with MCSTOPPP, Marin County Parks and Open Space District, City of San Rafael Volunteer Program, City of San Rafael, San Rafael Clean, the Center for Volunteer and Nonprofit Leadership of Marin, Marin Municipal Water District, and the Marin County Community Development Agency to form the My Earth Day Marin Coalition. The Coalition developed a website www.myearthdaymarin.org, sent out press releases, and handed out fliers to local businesses to promote volunteer trash cleanup sites throughout the County.
- ◆ Coordinated with Manor Elementary School's Green Team Club, Loma Verde Elementary School's Afterschool Garden Club, Environmental Action Committee and Friends of Novato Creek to install stencils and markers on storm drains. MCSTOPPP provided supplies and storm drain markers. Some markers were funded by the Used Oil Block Grant.
- ◆ The Marin County Flood Control and Water Conservation District contracted Shelterbelt to maintain a total of 1820 native plants that they installed in 2009 and 2010 along Vineyard Creek as the final stage of the Vineyard Creek Flood Control project. The plants consisted of 25 different species of trees, shrubs, ground cover, and sedge to provide creek canopy and an integrated riparian habitat. The Conservation Corps North Bay is providing Shelterbelt with ongoing assistance with weed management and invasive species removal. A rare but invasive Red Sesbania plant was found on the project site, entered into the Bay Area Early Detection Network database, and removed from the site before spreading.
- ◆ County stormwater staff and DPW land development staff continued to work together to comply with Attachment 4 of the permit and to implement the [Guidance for Applicants](#). These requirements ensure that post-construction stormwater treatment and control are implemented on specific types of development projects.
- ◆ The Local Program staff assisted the Countywide Program (MCSTOPPP) to conduct in-class presentations to educate students about Stormwater Pollution Prevention and complete 7 riparian restoration projects with Point Reyes Bird Observatory (PRBO) Conservation Science's

Students and Teachers Restoring A Watershed (STRAW) Project. The projects were completed at 5 creek locations within 4 different East Marin watersheds. 5 different schools participated in these restorations which included the efforts of 826 students, 15 teachers, 55 parents, and 13 volunteers. The total area under restoration for the 7 days was 8,488 sq. ft. with 36 cu. yd. of non-natives removed and 207 natives planted.

- ◆ Stormwater staff and County Land Development staff conducted design reviews and field inspections for new and redevelopment projects subject to stormwater requirements or that are in proximity to a creek, wetland/marsh, or watercourse.
- ◆ Local Program staff conducted field work to verify outfalls identified as potential pollutant discharge sources to Duxbury Reef ASBS. The field work included GPS mapping of the storm drain systems and sub-watersheds and editing the finished data in GIS.
- ◆ Continued to direct horse facility owners to guidance documents on “good horsekeeping” practices and continued to require horse facilities, where necessary, to implement BMPs to protect stormwater and creeks.

Priorities for 2011-2012

- ◆ Respond to and plan implementation of the re-issued Phase II Stormwater Permit.
- ◆ Continue implementing the Guidance for Applicants in order to comply with Attachment 4 and other Phase II general permit new development requirements.
- ◆ Continue storm drain mapping in partnership with the Marin County Flood Control and Water Conservation District, and storm drain stenciling with local creek and school groups.
- ◆ Continue providing education and outreach to businesses and the public.

County Links for on-line viewers:

- ◆ [Marin County Watershed Program](#)
- ◆ [County of Marin website](#)
- ◆ [County General Plan Update](#)
- ◆ [West Marin Chamber of Commerce](#)
- ◆ [Point Reyes National Seashore](#)
- ◆ [Email the County of Marin Stormwater Coordinator](#)

Stormwater Pollution Prevention in the Town of Fairfax

About Town of Fairfax’s Stormwater Pollution Prevention Program

Fairfax has approximately 7,434 population and encompasses approximately 1,400 acres. It is named for Lord Charles Snowden Fairfax, tenth Baron of Cameron, Scotland. The British Crown granted Lord Fairfax land which is now Virginia. Fairfax came to California with gold fever and was elected a Marin County Supervisor in 1865.

Fairfax tracts were subdivided in the 1900s through the 1920s, in reach of a commute to San Francisco via electric train and ferry. Construction of Alpine Dam in 1917 brought an influx of Italian immigrants. The Town was a location for silent films. It was incorporated in 1931.

Fairfax occupies the uppermost reach of the Ross Valley, and its residential neighborhoods extend into the surrounding hills. Fairfax Creek and other tributaries to San Anselmo Creek flow through the town. Most drainage is natural creek channels and culverts.

Most building permits are for residential remodels. There are occasional small infill projects subject to discretionary review.

Fairfax’s Stormwater Staff

Stormwater Coordinator, Municipal Maintenance, Capital Improvement Projects/Drainage, Construction Inspection, Illicit Discharge Detection and Elimination/Outfall Monitoring	Mark Lockaby, Public Works Manager 415-458-2370, building@townoffairfax.org
Planning Department/Development Approvals	Jim Moore, Planning Director
Commercial Inspections	Ross Valley Fire Department Fire Marshal
Public Information and Participation	Maria Baird, Community Resources Coordinator

Stormwater Program Organization

Fairfax’ Stormwater Pollution Prevention Program is managed by Public Works Manager Mark Lockaby. All public works engineering, including FEMA-funded work, is done under contract.

The Town contracts with Marin Sanitary Service to sweep downtown areas weekly and residential neighborhoods monthly.

Notably, the Fairfax Police Department is very engaged and responsive to reports of illegal dumping.

Drainage flow rates for new residences must not exceed pre-project rates; this usually requires that some type of detention be installed on-site.

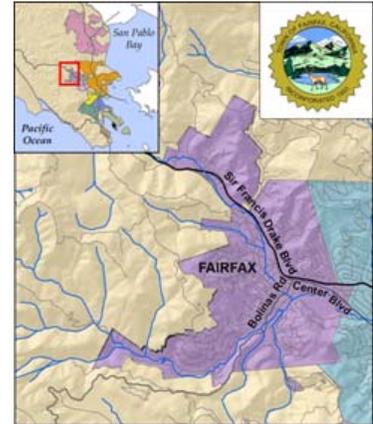
Grading is prohibited from October 1 through April 31 unless an engineered erosion control plan is approved by the Town Engineer.

Fairfax: Forward-Thinking, Environmentally Friendly Community

Fairfax is a small community that is forward-thinking, environmentally friendly and prides itself on passing strict ordinances aimed to protect our creeks, wildlife and the air we breathe.

Being a small community that is nearly built out, there are only a few large construction projects in any given year. Most construction projects are residential interior remodels. The Public Works Department, Building Code Enforcement and the Police Department are all authorized to respond to stormwater violations. This allows for timely response by Town staff.

The Town also relies on the residents to report any activity that is a threat to the environmental or



Fairfax is at the upper end of the Ross Valley

wellbeing of the watershed.

Educating commercial businesses about stormwater pollution prevention, coupled with low business turnover, has reduced the number of related illicit discharges. Last year there was only one warning given to a restaurant based on complaints of a messy trash area. The follow-up inspection indicated compliance.

More Accomplishments by Town of Fairfax in 2010-2011 and Priorities for 2011-2012

City of Fairfax staff accomplished the following during 2010-2011:

- ◆ Completed Sir Francis Drake overlay project.
- ◆ Completed School Street pedestrian bridge project.
- ◆ Completed Peri Park tennis court bank stabilization project.
- ◆ Sent staff from Building, Planning, and Public Works to several MCSTOPPP training classes.
- ◆ Supported Fairfax Volunteers’ annual cleanup of Fairfax an San Anselmo creeks.

Priorities for 2011-2012

- ◆ For in-stream CIP projects, improve oversight and monitoring in order to ensure compliance with permits from outside agencies.
- ◆ Attend Marin Project Coordination meetings as necessary regarding private and public project permitting.
- ◆ Develop system for ensuring that necessary instructions/avoidance measures are included in-stream CIP project plans and consider tightening bid specifications in order clarify the permit compliance aspects of in-stream construction projects.
- ◆ We have repaired our street sweeper and expect to put it back into service in August. This will increase the number of days that we will sweep during the year.

- ◆ Complete the Pastori outfall pipe project.
- ◆ Continue to provide storm drain locations into GIS to be uploaded into Marin Map.

For information about Fairfax’s routine stormwater pollution prevention activities, see the MCSTOPPP Annual Report at www.mcstoppp.org.



Cascade Falls

Fairfax links for on-line viewers:

- ◆ [Town of Fairfax website](#)
- ◆ [Fairfax history](#)
- ◆ [Marin Town & Country Club](#)
- ◆ [Fairfax Chamber of Commerce](#)
- ◆ [Sustainable Fairfax](#)
- ◆ [Email Fairfax’s Stormwater Coordinator](#)

Stormwater Pollution Prevention in the City of Larkspur

About City of Larkspur Stormwater Pollution Prevention Program

Incorporated in 1908, Larkspur has approximately 12,000 population and covers 3.3 square miles near the confluence of Corte Madera Creek with San Pablo Bay. There are some hilly neighborhoods, but much of the City is low-lying.

The City is bisected by US 101. To the east, the Larkspur Landing area includes a ferry terminal with service to San Francisco and a shopping center. The City’s downtown and Madrone Canyon residential area are west of the highway.

Larkspur was laid out as a bedroom community in 1887 by developer O.W. Wright, who mistook the lupine growing on local hillsides for larkspur. The City’s downtown includes classic commercial architecture from the 1890s to the 1930s and is listed on the National Register of Historic Places.

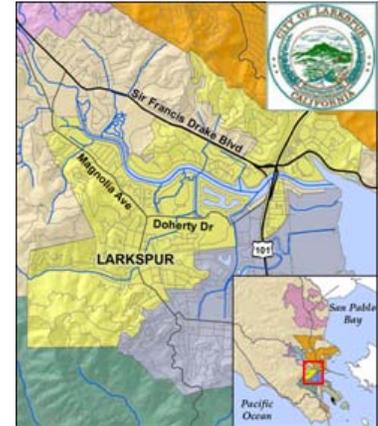
Stormwater Program Organization

Larkspur’s Stormwater Pollution Prevention Program is coordinated by Mike Myers, Superintendent of Public Works, who also manages and performs

Stormwater Coordinator, Commercial Inspections	Mike Myers, Superintendent of Public Works mmyers@larkspurcityhall.org
Municipal Maintenance, Illicit Discharge Elimination, Outfall Monitoring	Mike Myers and Steve Pappas, Field Supervisor
Planning Dept. Contact/ Development Approvals	Neal Toft, Assistant Planner
New Development and Construction Controls	Phiroze Wadia, Consulting Engineer
Capital Improvement Projects and Drainage	Hamid Shamsapour, Director of Public Works
Public Information and Participation	Mike Myers and Nathalie Bamatter, Permit Tech.

maintenance of city infrastructure and facilities.

Street sweeping is contracted for once per month from February through September and twice per month in winter. The main streets and industrial areas are swept weekly. The same contractor performs catch basin box culvert cleaning. The City also performs storm drain inspections.



Larkspur lies at the mouth of Corte Madera Creek.

Consulting Engineer Phiroze Wadia responds to problems with erosion and sedimentation control or construction-related pollution incidents. Nathalie Bamatter hands out construction-phase BMP materials with building permits.

The City of Larkspur reduced spending on all levels due to loss in revenues. All major improvement projects this year were grant funded. The City has many infrastructure replacement and repair needs, some of which are being addressed while others are postponed. The City continues to find ways to comply with stormwater regulations and to maintain safe streets and pathways with fewer resources. The drainage system is repaired as needed and City staff plan to monitor and maintain it in preparation for the next rainy season.

Due to fiscal constraints, the City lost their major landscape services contract. As a result, City staff are conducting all routine landscape work and most of the vegetation reduction/fire prevention work. This reduces staff time available for implementing stormwater program tasks. However, staff continues to set stormwater program priorities and continues to implement the required performance standards.

Larkspur Bike Path Improvements Reduce Erosion

For the last three to four years the City has been planning bike path improvements in various locations in Larkspur. These projects are funded through grants. These grants are designed to make the multi-use path system safe and more usable by all and to encourage people out of their cars and onto bikes or into walking/running shoes. Three projects are coming to fruition this year.

Two projects began in spring 2011: the Post Street Stairs Walking Path and ADA parking space and the Elm Avenue to Bay View Staircase. Post Street was an unpaved street that had erosion issues and was unaccommodating for the residents and patrons alike. The newly paved pathway will be marked, the ADA space will be paved and marked and the stairs will have a new hand rail. Built in 1988 to replace an eroded sloping pathway, the stairs will now serve the neighborhood with the connecting pathway to Magnolia Avenue.

The second project is a new wooden staircase connecting Elm Avenue to Bay View. It was a steeply sloping pathway that could get wet, muddy and slippery. Now it is a very navigable staircase and erosion issues have been addressed.

The third project is the ADA Pathway Saddle Crossing over the Sandra Marker bike path at the easterly most end of William Avenue. This project will safely connect Larkspur and Corte Madera at a very busy crossing. The ADA accessible ramps to the pathway are more gradual and suitable for all. There will be plantings in and around these ramps to recover the look of the nearby pathway. Historically, prior to the paved service ramp, this unpaved crossing was steep, eroded and not a suitable passage for most. This project will be completed in 2011-2012.

More Accomplishments by City of Larkspur in 2010-2011 and Priorities for 2011-2012

City of Larkspur accomplished the following during 2010-2011:

- ◆ Maintained the catch basin marking program.
- ◆ Mailed out 1220 stormwater self-inspection checklists to businesses in Larkspur.
- ◆ Continued to provide property owners and contractors with information on construction site BMPs and requirements at the one-stop permit desk at City Hall.
- ◆ Continued to develop GPS capabilities. Purchased a digital camera with GPS markers, time, and date for each picture taken.
- ◆ Completed a photographic asset survey of the City and the results are being incorporated into a GIS database.
- ◆ Worked with Marin Rowing Club volunteers to clean up debris adjacent creek banks.
- ◆ Obtained funding to rebuild two stormwater pumps.
- ◆ Rebuilt slide/flap gate to better serve Redwood Marsh.
- ◆ Loss of funding prevented implementation of a plan to remove invasive Parrot feather from Tubb Lake/Miwok Park.
- ◆ Loss of funding prevented implementation of a plan to remove the inner circle of tulle growth to maintain habitat fly zones for water fowl and reduce the mosquito population at Remillard Park Pond.

Priorities for 2011-2012

- ◆ Continue to develop GPS capabilities for mapping and record keeping with digital pictures.
- ◆ Continue to use business license mailings to distribute self inspection checklists.
- ◆ Coordinate with Central Marin Sanitary Agency (CMSA) on their stormwater business inspections and follow-up.
- ◆ Create list of businesses for inspections outside of CMSA's target inspection list.
- ◆ Re-build two storm water pumps.
- ◆ Re-visit creek setback ordinance requirements.

- ◆ Update annual training program for performance standards.

For information about Larkspur's routine stormwater pollution prevention activities, see the MCSTOPPP Annual Report at www.mcstoppp.org.

Larkspur links for on-line viewers:

- ◆ City of Larkspur website
- ◆ Email Larkspur's Stormwater Coordinator

Stormwater Pollution Prevention in the City of Mill Valley

About City of Mill Valley's Stormwater Pollution Prevention Program

Mill Valley has a population of approximately 14,000 and covers close to 5 square miles. Located at the foot of Mt. Tamalpais, the City has an active and charming downtown commercial district amidst quiet tree-lined neighborhoods.

Mill Valley is crossed by Old Mill Creek, Reed Creek, Arroyo Corte Madera Del Presidio Creek, Warner Creek, and Sutton Manor Creek. Small numbers of Steelhead trout inhabit the Arroyo Corte Madera del Presidio and Old Mill Creek.

Most of the City's remaining buildable lots are on steep slopes with difficult access. The City's review requires extensive mitigation of drainage and other environmental considerations.

Stormwater Program Organization

The Stormwater Pollution Prevention Program, in the

Mill Valley's Stormwater Staff

Stormwater Coordinator	Jill Barnes, Senior Civil Engineer 415-388-4033 jbarnes@cityofmillvalley.org
Municipal Maintenance, Illicit Discharge Elimination, Outfall Monitoring	James Powell, Public Works Superintendent
Capital Improvement Projects and Drainage	Russ Eberwein Senior Civil Engineer
Planning Department Contact	Mike Moore, Planning Director
Development Approvals	Richard Dudak, Associate Engineer
Commercial Inspections, Public Participation	Julie McClure, Engineering Technician
Construction Inspection	Julie McClure, Mike Barnett, Tony Martinez

Department of Public Works, is funded by an annual parcel fee. The City's Engineers and Engineering Technician, along with the Police and Fire Departments, have authority to issue

administrative

citations to enforce City ordinances, including creek protection measures and the stormwater pollution prevention ordinance.

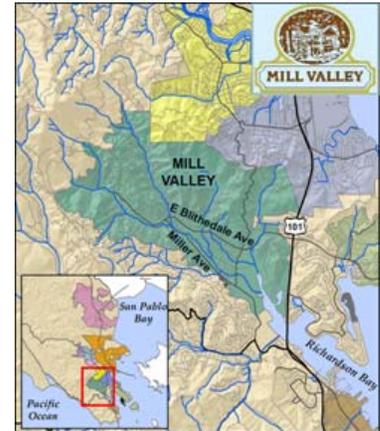
A pre-construction meeting is held for every project subject to design review. Pollution prevention and erosion and sedimentation control BMPs specific to the project are discussed at this meeting.

Each fall the Engineering Technician visits all the construction sites that require erosion and sediment control, to confirm that the materials are on site and ready for use and that these measures are in place before the winter storm season.

Mill Valley Hosts Successful Beautification Day

The City of Mill Valley hosted another very successful Beautification Day with approximately 200 people in attendance from 12 different community groups. The Rotary, Middle School, Bloomathon, Cub Scouts, Girl Scouts, Redwoods Retirement community members and Homeowner Associations to name a few, participated in picking up trash and removal of non-native vegetation.

Groups focused on Bayfront and Boyle Parks, the downtown plaza, the Goodman's Marsh, the public stairs at Oak Lane and the Corte Madera del Presidio creek near the outfall at the bay. The volunteer efforts were a great success and improved the beauty and health of our town.



Mill Valley extends from Richardson Bay to Mt. Tamalpais.

The Beautification Day also included information booths and displays at the downtown plaza. The City of Mill Valley, the Marine Mammal Center, Mill Valley Chamber of Commerce, and the Mill Valley Streamkeepers were all involved and took this opportunity to share information with the community in an effort to inform people and improve our local habitats.

More Accomplishments by Mill Valley in 2010-2011 and Priorities for 2011-2012

City of Mill Valley staff accomplished the following during 2010-2011:

- ◆ Worked with local grocery store, business owners and the Mill Valley Police Department to try and curb loitering and littering, that has been problematic at Arroyo Corte Madera del Presidio.
- ◆ With the Sewerage Agency of Southern Marin (SASM), participated in “Wetland Days” at the SASM Wastewater Treatment Plant. Seven 3rd grader classes each day learned about stormwater pollution prevention and protecting creek and wetland habitats.
- ◆ A very successful beautification day increased attendance this year, which helps educate about the importance of creek health and keeping creeks and storm drains free of trash and debris.
- ◆ Hosted a number of 3rd-grade class tours at City Hall where we teach students about stormwater quality and creek protection.
- ◆ Inspected local food establishments, specifically targeting new restaurants, distributing MCSTOPPP handouts.
- ◆ Conditioned development of new homes and remodels, which were adding plumbing, to replace clay sewer pipes.
- ◆ Continued to enforce the seasonal grading moratorium between October 15 and April 15.
- ◆ The Golf Course and Parks Department held staff training in various aspects of safe pesticide application and IPM.
- ◆ Conducted an aggressive sewer cleaning and maintenance program to include our City of Mill Valley sewer maintenance staff and contractors.

Priorities for 2011-2012

- ◆ Reinstate street and sewer rehabilitation list, in which some streets were postponed due to costly sewer repairs.
- ◆ Continue to work with the Mill Valley Fire Department to coordinate reports for follow-up business inspections.
- ◆ Continue to educate new business owners about best management practices.
- ◆ Continue to learn and adopt policy regarding cutting edge drainage solutions, to include bio-swales and catchment systems.

For information about Mill Valley’s routine stormwater pollution prevention activities, see the MCSTOPPP Annual Report at www.mcstoppp.org.

“The City of Mill Valley and Marin County are partners under the North Bay TMDL Implementation EPA grant and will implement a creek/riparian restoration project on a tributary to Warner Creek.”

Mill Valley links for on-line viewers:

- ◆ [City of Mill Valley website](#)
- ◆ [Mill Valley School District](#)
- ◆ [Mill Valley Chamber of Commerce](#)
- ◆ [Mill Valley Historical Society](#)
- ◆ [Mill Valley Film Festival](#)
- ◆ [Email Mill Valley’s Stormwater Coordinator](#)

Stormwater Pollution Prevention in the City of Novato

About Novatos’s Stormwater Pollution Prevention Program

Novato covers 28 square miles and has a population of nearly 50,000. Elevations vary from Mt. Burdell at 1,558 feet to 18 feet in the City’s downtown. Rainfall averages approximately 27.5 inches per year. Novato has a rural atmosphere largely because of its low population density and the high amount of open space and parks. Commercial areas host a mix of corporate headquarters, state-of-the art technology companies, and retail centers.

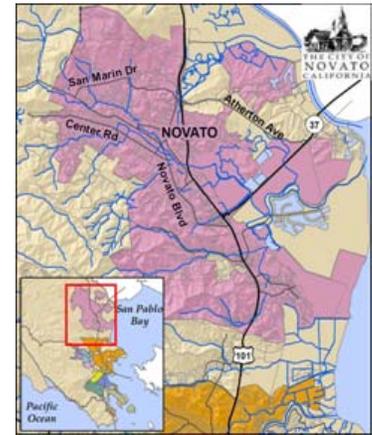
Novato’s creeks include Novato Creek, Rush Creek and Pacheco Creek. Novato Creek flows from west to east and encompasses a drainage basin of approximately 44 square miles. Numerous streams flow into Novato Creek, including Warner, Arroyo Avichi and Arroyo San Jose creeks. Rush Creek flows eastward from Highway 101 to the Petaluma River north of the City Limits.

Stafford Lake, a reservoir and headwater for Novato Creek, is approximately 11 miles upstream from San Pablo Bay. The reservoir, which was established in 1951, stores water for domestic use and reduces

Novato’s Stormwater Staff

Stormwater Coordinator, Development Approvals, Public Information and Participation, Commercial Inspections	Dave Harlan, Principal Civil Engineer 415-899-8948 DHarlan@ci.novato.ca.us
Municipal Maintenance	Gloria Morgan, Public Works Admin Clerk, and Dave Meyers, Maintenance Superintendent
Capital Improvements and Construction Inspection	Jerry Novak, Civil Engineer
Planning Department Contact	Liz Dunn, Deputy Community Development Director; and Alan Lazure Principal Planner
Illicit Discharge Elimination/Outfall Monitoring	Ellen Ellsworth; Senior Engineer; Joe Stene, Street Supervisor

flooding along Novato Creek. San Pablo Bay borders the eastern edge of Novato and the shoreline extends for approximately seven miles. The Petaluma River and its marshlands border the north-east boundaries of Novato, where the river empties into San Pablo Bay.



Novato is Marin County’s northernmost city.

The City is completing an update to the General Plan. The City has completed mapping all existing outfalls.

Stormwater Program Organization

The City’s stormwater program, including all MCSTOPPP activities, is funded by property tax revenues. Review and approval of private development projects for stormwater compliance is funded through permit fees and is coordinated among Planning and Engineering staff.

Novato Responds to Business Outreach Needs

The City of Novato, in collaboration with County staff, responded to illicit discharge incidents at commercial businesses. City staff provided outreach material and educated businesses on stormwater pollution prevention.

One business, a construction material retail store (specifically for tile), received education on proper material storage and staging outside. The second business was a restaurant conducting washing activities outside behind the building. The restaurant received education on appropriate Best Management Practices for washing floor mats and preventing other non-stormwater discharges.

The City also provides access to education and outreach brochures and literature at their main office.

More Accomplishments by Novato in 2010-2011 and Priorities for 2011-2012

City of Novato staff accomplished the following during 2010-2011:

- ◆ Conducted annual creek inspections in May and June 2011.
- ◆ Novato continued to train engineering, planning, and maintenance staff to ensure that the City is utilizing the most applicable procedures for protecting water quality and to comply with the State Permit.
- ◆ Will conduct training with Marin County Flood Control on BPM for erosion control and Federal regulations for debris removal in local Creeks.
- ◆ Installation of separator unit at Corp Yard Dumpster Site.
- ◆ Coordinate with volunteer groups and provide staging area for crews.

Priorities for 2011-2012

- ◆ Restructure Stormwater Business Inspection Plan to ensure compliance with new NPDES Phase II permit.
- ◆ Provide support and oversight to County Staff and consultants on the County’s Novato Creek Watershed Stewardship program to enhance water quality in Novato Creek and tributaries.
- ◆ To address the anticipated provisions in the re-issued Phase II Permit, the City of Novato will be coordinating with the County of Marin and the City of San Rafael to explore further collaboration aimed at meeting the Phase II Permit requirements with our current staff resources.
- ◆ The City of Novato will reorganize the staff assignments to provide enhanced stormwater management. This reorganization is necessitated by the on-going staff reductions to address the budget deficit and by the more rigorous provisions in the re-issued Phase II Permit.

For information about Novato’s routine stormwater pollution prevention activities, see the MCSTOPPP Annual Report at www.mcstoppp.org.



Novato wetlands

Novato links for on-line viewers:

- ◆ [City of Novato website](#)
- ◆ [Novato Area History](#)
- ◆ [Novato Sanitary District](#)
- ◆ [Downtown Novato Business Association](#)
- ◆ [Novato Chamber of Commerce](#)
- ◆ [Email Novato’s Stormwater Coordinator](#)
- ◆ [Novato Flood Protection and Watershed Program](#)

Stormwater Pollution Prevention in the Town of Ross

About Ross' Stormwater Pollution Prevention Program

The Town of Ross is the second-smallest Marin community, with 1.6 square miles and slightly more than 800 residential parcels. The Town has 2,401 residents. Land use is primarily residential with a small commercial area, public grade school and private high school, residential care center for adults with developmental disabilities, and open space. New development in the town is primarily residential; there is little new development and few vacant, developable parcels.

The Town has mainly open watercourses draining to Corte Madera and Ross Creek, particularly in the upper reaches of the watershed. Some reaches are channelized and in culverts. The endangered Central California Coast steelhead inhabits Ross Creek.

Stormwater Program Organization

Ross's stormwater program is funded through the general fund. Special drainage projects are funded by a drainage fee of 1% of the project valuation on

Ross' Stormwater Staff

Stormwater Coordinator, Municipal Maintenance, Illicit Discharge Detection	Robert Maccario, Superintendent of Public Works 415-453-1453 rmaccario@townofross.org
Capital Improvement Projects and Drainage	Bob Hemati, Public Works Director and Gary Broad, Town Manager
Construction Controls	Bob Hemati and Bob Haggett, Contract Building Inspector
Development Approvals, New Development	Elise Semonian, Senior Planner
Commercial Inspections	Bob Hemati
Public Information and Participation	Bob Hemati and Robert Maccario

building permits. The program is a combined effort among the Town's building, public works, and planning departments.

The Town does not have an integrated pest management ordinance; however, the Public Works Superintendent

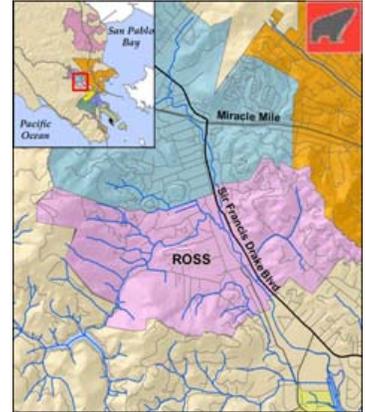
Robert Maccario has over 30 years experience as a licensed landscape contractor, maintains a pesticide applicator certificate, is a member of the International Society of Arboriculture, a Sonoma/ Marin Qualified Water Efficient Landscaper and a certified water auditor. The Town General plan calls for adoption of an integrated pest management ordinance. The Town does not use pesticides.

The Town has mapped its storm drains and outfalls on GIS and is currently improving this system. The public works superintendent and his assistant know the location of all outfalls, connecting drainage and where they originate. They inspect and clean ditches and catch basins during all rain events.

The Town completed the Lagunitas Bridge replacement project in November 2010. The Town is also working with the Army Corps of Engineers on a fish ladder replacement project, now scheduled for 2012. Both projects should assist in reducing flooding.

Public Works Supervisor Teaches Creek Stewardship

Public Works Supervisor Robert Maccario educated four groups of Ross School Science Class on creek stewardship. During a creek walk with the students Maccario pointed out examples of good and bad



Ross occupies 1.6 square miles in the heart of Marin's city-centered corridor.

practices by creek-side property owners.

More Accomplishments by Town of Ross in 2010-2011 and Priorities for 2011-2012

Town of Ross staff accomplished the following during 2010-2011:

- ◆ Hillside Lot Ordinance went into effect in September of 2010. The Ordinance restricts floor areas. Conditions of Approval for hillside residences require dispersal of runoff on-site. Owners are required to maintain drainage facilities for the life of the project.
- ◆ Summarized the Flood Control Report from each Town Council meeting in the monthly “Morning After” newsletter and emailed it to over 1,000 Town residents. The Town applied for FEMA Community Rating System credits in acknowledgement of these efforts.
- ◆ Updated the Town’s [website](#) to include on line municipal code and information about drainage maintenance and floodplains.
- ◆ Upgraded the Sir Francis Drake Pathway, which will help mitigate run-off from Sir Francis Drake Blvd.
- ◆ Planted over a hundred street trees on Sir Francis Drake, Furnhill and Glenwood Avenues.
- ◆ The public works committee and planning department began developing a new right of way ordinance that will improve drainage and water quality issues within the town right of ways.

Priorities for 2011-2012

- ◆ Continue work on the Storm Drain Master Plan.
- ◆ Use the Bolinas Avenue Drainage Study to incorporate drainage improvements for Bolinas Avenue in conjunction with our Safe Routes to School Grant.
- ◆ Begin the Creek Bank Stabilization project south of the new Lagunitas Bridge.

- ◆ Continue assisting the Army Corps with Fish Ladder Replacement project.
- ◆ Continue assisting property owners to protect creeks through our building and planning process. Our superintendent of public works continues helping the residents with storm water issues.
- ◆ Continue planting street trees on arterial streets.
- ◆ The public works committee will complete the new right of way ordinance.
- ◆ The Ross Common will be restored after the completion of the Ross School Building Project.

For information about the Town of Ross’s routine stormwater pollution prevention activities, see the MCSTOPPP Annual Report at www.mcstoppp.org.

Ross links for on-line viewers:

- ◆ [Town of Ross website](#)
- ◆ [Marin Art and Garden Center](#)
- ◆ [The Branson School](#)
- ◆ [Jose Moya del Pino Library and Ross Historical Society](#)
- ◆ [Ross School District](#)
- ◆ [Email Ross’s Stormwater Coordinator](#)

Stormwater Pollution Prevention in the Town of San Anselmo

About San Anselmo’s Stormwater Pollution Prevention Program

San Anselmo has slightly over 12,000 population and encompasses approximately 2.7 square miles. Its name came from the Punta de Quintin land grant, which marked this valley as the Canada del Anselmo, or Valley of Anselm, referring to an Indian who was buried in the area.

San Anselmo was incorporated in 1907, around the same time Marin’s electric train system extended to the area. It was a silent film capital in the early 1900s. Commuters could take the train to Sausalito and then the ferry to San Francisco in a about an hour. The system was closed following construction of the Golden Gate Bridge.

Drainages to the east, west, and north converge in and around the Town’s low-lying downtown area. Most creek reaches are privately owned. Steelhead salmon can sometimes be seen in urbanized San Anselmo Creek. San Anselmo experienced serious flood damages in 1925, 1940, 1963, 1982, and most

San Anselmo’s Stormwater Staff

Stormwater Coordinator, Public Information & Participation, Capital Improvement Projects and Drainage, Development Approvals, Construction Inspection	Sean Condry, Public Works Director , 415-258-4676, scondry@townofsananselmo.org
Municipal Maintenance, Illicit Discharge Elimination, Outfall Monitoring	Dave Craig, Superintendent of Public Works
Planning Department Contact	Phil Boyle, Senior Planner
Commercial Inspections and Outreach	Robert Bastianon, Fire Inspector, Ross Valley Fire District

recently on New Year’s Eve 2005. In addition to downtown, San Anselmo includes the Red Hill Shopping Center and various small businesses along Sir Frances Drake Boulevard.



San Anselmo is centered on the confluence of several creeks.

There is little developable area in the Town; however, development of subdivisions in remaining hillside areas pose concerns about erosion control and contribution to flooding.

Stormwater Program Organization

The Public Works Department works closely with MCSTOPPP to administer the Storm Water Program. The funding for this program is 100% supported by the Town’s general fund. The Town has no stormwater fee.

The Town conducts and funds the street sweeping program each fall from September through January. Streets are cleaned at least once a week with “hot spots” cleaned more frequently by Town staff as needed. Storm drain inlets are inspected before each storm and “hot spots” are inspected during each major storm event.

The Town works closely with the Ross Valley Fire Department (RVFD) to ensure the Town’s 200 businesses remain in compliance with storm water program requirements. Stormwater violations noted by the RVFD are referred to Town staff.

Town Staff Assist Building Sites Prepare for the Rainy Season

Just prior to the fiscal year 2010/2011 rainy season, Town of San Anselmo staff inspected all sites with

active building permits. If a site was found not to be in compliance with erosion control BMPs a letter was issued explaining the storm water requirement and how to implement erosion control BMPs. Once the owner had adequate time to make the required revisions to the erosion control measures in place Town staff would perform a follow up inspection before October 15th.

Once the rainy season was underway Town staff would perform monthly inspections of all sites to ensure continued compliance throughout the rainy season. In addition to monthly inspections, the building inspectors would ensure compliance with stormwater requirements when called for building inspections.

More Accomplishments by Town of San Anselmo in 2010-2011 and Priorities for 2011-2012

Town of San Anselmo staff accomplished the following during 2010-2011:

- ◆ Adopted and implemented a new excavation, grading and erosion control ordinance.
- ◆ Provided stormwater pollution prevention outreach in two of the weekly newsletters to residents from the Town Manager.
- ◆ Promoted installation of garbage receptacles that prevent the storm water from entering the container. Many receptacles have been installed within the Town.
- ◆ Attended MCSTOPPP illicit discharge class in March 2011.
- ◆ Installed bio-retention in front of Town Library as part of the new rain garden.

Priorities for 2011-2012

- ◆ Continue to replace garbage receptacles with new receptacles that prevent the storm water from entering the container until all are changed out.

For information about San Anselmo’s routine stormwater pollution prevention activities, see the MCSTOPPP Annual Report at www.mcstoppp.org.



San Anselmo Public Library

“Public Works staff notified grocery store to clean up illicit discharge caused by an open dumpster during a rain event. The store was instructed to keep all lids closed.”

- San Anselmo links for on-line viewers:**
- ◆ [Town of San Anselmo website](#)
 - ◆ [San Francisco Theological Seminary](#)
 - ◆ [San Anselmo Chamber of Commerce](#)
 - ◆ [San Anselmo Historical Museum](#)
 - ◆ [Email San Anselmo’s Stormwater Coordinator](#)

Stormwater Pollution Prevention in the City of San Rafael

About San Rafael’s Stormwater Pollution Prevention Program

With 56,900 residents, the City of San Rafael is Marin County’s commercial center and most populous municipality. The City occupies 17 square miles of land and 5 square miles of water and wetlands. Much of the former wetlands have been filled and developed; remaining portions are home to the endangered salt marsh harvest mouse. There are riparian areas along San Rafael, Mahon, Gallinas, and Miller Creeks. China Camp State Park and McNear’s Beach State Park are adjacent to the City.

Stormwater Program Organization

A user fee, collected through property tax bills, funds the program. San Rafael’s stormwater program is now coordinated by a team of the Department of Public Works staff: Diane Decicio, Lead Stormwater Coordinator, Jim Forsythe, Street Maintenance Superintendent, Kevin McGowan, Assistant Public Works Director/City Engineer and Nader Mansourian,

Director of Public Works. San Rafael’s Engineering Division continues to assume plan review responsibility.

Public Works Street Maintenance Superintendent Jim Forsythe leads the City’s efforts to eliminate illicit discharges, to maintain the City’s extensive storm drain system, control litter, maintain the corporation Yard, and sweep streets. Business inspection and outreach is conducted primarily by the Central Marin Sanitation Agency under a cooperative agreement. County Environmental Health conducts stormwater business inspections at restaurants and Marin County CUPA inspectors will refer all potential storm drain or runoff concerns to Jim Forsythe.



The City of San Rafael is Marin County’s most populous municipality.

San Rafael’s Stormwater Staff

Stormwater Coordinator, Construction Inspection,	Diane Decicio, Senior Associate Engineer DPW 415-485-3360 Diane.Decicio@ci.san-rafael.ca.us
Municipal Maintenance, Illicit Discharge Elimination, Outfall Monitoring	Jim Forsythe, Street Maintenance Supervisor
Capital Improvement Projects and Drainage	Kevin McGowan, Ass’t Director of Public Works
Public Information and Participation	Cory Bytof, City Volunteer Program Coordinator
Community Development Department Contact	Raffi Bolyan, Senior Planner
Development Approvals	Nader Mansourian, Public Works Director
Commercial and Industrial Inspections and Outreach	Robert Cole, Central Marin Sanitation Agency

San Rafael Clean Campaign

In FY 2010-2011, San Rafael Clean, a joint program of the City of San Rafael Volunteer Program, Marin County Visitors Bureau, MCSTOPPP, Marin Sanitary Service, Conservation Corps North Bay, local businesses and individuals stepped up it’s efforts with regard to business outreach and cigarette litter. Thanks to donations from local businesses, and efforts by staff and volunteers, San Rafael Clean designed and distributed color Clean Business Partner brochures and drink coasters.

The brochures are geared toward all businesses in San Rafael and encourage proprietors to follow city codes with regard to litter management as well as to provide opportunities for their staff and customers to be more litter-conscious and have means to dispose of their trash adequately. Means could include more trash and recycling bins, covering trash containers, or installing cigarette litter receptacles.

The coasters feature Oscar the Bulldog, who states “Don’t trash San Rafael. Put your cigarette butts in the can.” (See picture below). Volunteers have been canvassing downtown as well as a few areas near the San Rafael Canal and creeks to distribute coasters to bars and restaurants that serve alcohol. In addition, the volunteers have been posting signs and flyers with similar messages. Last, they are trying out new cigarette receptacles to find a successful way to capture cigarette litter in a sustainable way. These volunteers also clean up litter as they go and talk to smokers outside of cafes and bars to gather data and encourage compliance. Since the program began the end of calendar year 2010, over 10,000 coasters and hundreds of brochures have been distributed.

More Accomplishments by San Rafael in 2010-2011 and Priorities for 2011-2012

City of San Rafael staff accomplished the following during 2010-2011:

- ◆ Implemented the San Rafael Clean Campaign.
- ◆ Increased communication between Departments.
- ◆ Checked warning sign posted at businesses on employee bulletin boards that shop water cannot be discharged to storm drains or sanitary sewers. The sign includes the 800-SAV-R-BAY number for questions about improper disposal.



- ◆ Recruited 138 businesses to be a part of the Clean Business Partnership. Their motto is “A Clean Business is Good Business.”
- ◆ Coordinated 7 storm drain medallion installation projects done by volunteers through the Boy Scouts and the Project ReGeneration program of

the Conservation Corps North Bay, which resulted in several hundred medallions being installed throughout San Rafael by nearly 100 volunteers.

- ◆ Attended North Bay Watershed Association Monitoring workshop, industrial storm water inspections workshop, MCSTOPPP business inspection workshop, pesticide handlers training workshop and a MCSTOPPP refresher workshop.
- ◆ Engaged close to 100 volunteers in manual weed abatement and mulching of areas adjacent to Falkirk Cultural Center and along Shoreline Path and Pickleweed Park to reduce the use of herbicides for weed inhibition.

Priorities for 2010-2011

- ◆ Increase stormwater training for all Departments.

For information about San Rafael’s routine stormwater pollution prevention activities, see the MCSTOPPP Annual Report at www.mcstoppp.org.



Marin Academy Volunteers at the Falkirk Cultural Center Garden

San Rafael links for on-line viewers:

- ◆ [City of San Rafael website](#)
- ◆ [San Rafael Chamber of Commerce](#)
- ◆ [Dominican University of California](#)
- ◆ [Email San Rafael’s Stormwater Coordinator](#)
- ◆ [City of San Rafael Clean](#)

Stormwater Pollution Prevention in the City of Sausalito

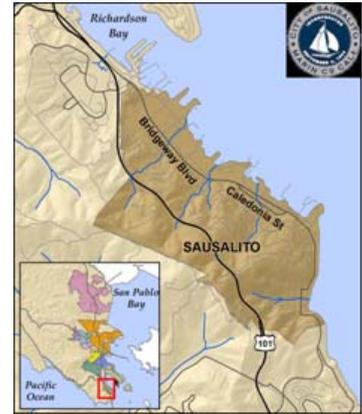
About Sausalito’s Stormwater Pollution Prevention Program

The City of Sausalito was incorporated in 1893. Located just north of the Golden Gate Bridge from San Francisco the City hosts tourists throughout the year.

Sausalito has a population of 7,116. Total area is 2.2 square miles, of which 15% is under water. Sausalito has one perennial stream, Glen Creek, which is located primarily within private property. Protecting the sensitive waters of Richardson Bay is the prime objective of the City’s Stormwater Pollution Prevention Program.

The North Pacific Coast Railroad created a terminus at Sausalito (“little willow grove”) in 1871. Train services diminished rapidly after World War II and no longer exist, though old rails can still be seen along the old route. The City’s character changed dramatically with

the creation of the Marinship Shipyard in the early 1940’s. The yard significantly filled Richardson’s Bay and created a massive industrial complex to serve the World War II war effort. Following the closure of the shipyard and sale of land and buildings the area has transformed



Sausalito is Marin’s most southerly municipality.

into a mixture of Storage Facilities, recreational boating marinas, light industrial (ranging from ceramic tableware maker, landscape supplies, auto repair). Office complexes serving real estate, legal, and internet services enterprises, and home to many artist workshops. The City’s hills are populated with homes, churches and hotels.

The City has about 4,300 housing units. High visibility businesses in the City serve tourist visitors, and recreational boating enthusiasts. The City also has a large number of design oriented businesses ranging from painters, graphic artists, craftsman and musicians.

Stormwater Program Organization

The sewer systems coordinator conducts storm water business inspections concurrent with sanitary source control inspections. The City Engineer and Staff Engineer recommend conditions for land development based on the City’s stormwater ordinance and MCSTOPPP’s *Guidance for Applicants*. Stormwater construction inspections are conducted by Building Inspectors routinely; Engineering Division staff conducted wet weather oversight of construction sites. All staff, as necessary, responded to referrals from outside agencies. The local program is funded through a fee collected on property tax bills.

Sausalito’s Stormwater Staff

Stormwater Coordinator, Public Information & Participation, Capital Improvement Projects and Construction Controls	Todd Teachout, City Engineer 415-289-4111 tteachout@ci.sausalito.ca.us
Illicit Discharge Elimination, Outfall Monitoring, Commercial and Industrial Inspections and Outreach	Pat Guasco, Sewers Coordinator
Planning Department Contact	Heidi Burns, Associate Planner
New Development	Andrew Davidson, Staff Engineer
Municipal Maintenance	Jonathon Goldman, Public Works Director, Kent Basso, Public Works Foreman

LEED Certified Sausalito Public Safety Facility

A major accomplishment for 2010-2011 was the completion of the LEED certified new Sausalito Public Safety facility. This project constructed two modern state of the art buildings to house our Police and Fire Operations. The project utilized green materials, has solar panels, is designed to minimize energy usage and has site a vehicle wash area that discharges wash water to the sanitary sewer.

The City’s work with new development and construction projects extends beyond its own Capital Improvement Projects. The City continues through stringent Development entitlement conditions of approval to have new development utilize Low Impact Development Guidelines, even though the projects are less than one acre in size.

The City continues to distribute BMP information with grading permits, and encroachment permits involving staging of scaffolding for painting and power washing efforts.

More Accomplishments by Sausalito in 2010-2011 and Priorities for 2011-2012

City of Sausalito staff accomplished the following during 2010-2011:

- ◆ The City rehabilitated 1,100 feet of sanitary sewer main and lower laterals along Johnson Street. This is expected to begin to respond to the Richardson’s Bay pathogen impairment TMDL as the new line does not leak.
- ◆ The City began a project to install a concrete seawall (a.k.a. Bulkhead) along the north boundary of Spinnaker Point within the Sausalito Yacht Harbor. The project will install a stormwater filtration system to improve discharges from the paved parking areas that cover Spinnaker Point.
- ◆ Efforts were started to improve inspections of Business and Industrial enterprises. The effort revealed that these enterprises are currently being inspected by several government agencies. The City completed an Inventory of buildings and

business operations within those buildings in the Marinship part of the City. This inventory will be useful in evaluating inspection practices and enforcement emphasis. The inventory was prepared to address City Council concerns about possible business financial and tax/fee underreporting.

- ◆ The City participated in Meetings with Marin County MCSTOPPP staff, regional board staff, and staff of other Cities/special districts to review inspection and enforcement efforts of high profile businesses, such as boatyard and marine service facilities. The effort yielded information that most of the business of greatest concern were currently subject to inspection and enforcement actions through Public Health Code regulations and Industrial Health regulations.

“Water samples are taken to determine if wastewater has entered naturally occurring ground water sources, stormwater drainage systems, creeks or the San Francisco Bay when illicit discharges/sanitary sewer overflows are investigated.”

Priorities for 2011-2012

- ◆ Begin efforts to transition from current permit requirements to new General Permit. Efforts are expected to revolve around securing financial resources to accomplish new mandates, beginning efforts to revise City Ordinances and standards, continuing dialog with County and Regional agencies on inspection efforts of existing businesses.
- ◆ Continue to Collaborate with Richardson’s Bay Regional Agency on Pathogen TMDL implementation.
- ◆ Continue efforts to recommend conditions of approval on small development projects that conform to the spirit of Low Impact Design principles. And then enforce those conditions during construction.

- ◆ Continue to work with property owners to rehabilitate sanitary sewer laterals. This effort responds to the Richardson’s Bay Pathogen TMDL, as well as EPA order for compliance requirements and the City’s settlement agreement with California Riverwatch.
- ◆ Continue Business Inspection review internally and with County agencies (CUPA and Env. Health), special districts (Sausalito Fire Protection District, Sausalito Marin City Sanitary District, Central Marin Sanitation Agency, Marin Municipal Water District) to assure proper inspections are occurring to limit non-stormwater discharges to the maximum extent practicable.
- ◆ The City aggressively enforced its local sanitary sewer ordinance which requires the inspection and rehabilitation of sewer laterals at point of sale. 3,326 feet of private sanitary sewer laterals were replaced or rehabilitated in the report period. This work is expected to reduce pathogen loadings in Richardson’s Bay, to improve Sewage Treatment Plant operations during storm events, reduce the likelihood of Sanitary Sewer Overflows and resulting risk to human health. The City provided 56 grants to home owners for the repair of their sewer laterals in the report period totaling \$52,092.74. The program provides individual residents up to \$1,000 to offset repair/rehabilitation expenses.



Sausalito marine business

Sausalito links for on-line viewers:

- ◆ [City of Sausalito website](#)
- ◆ [Guide to Sausalito Art Galleries](#)
- ◆ [History of Sausalito](#)
- ◆ [Sausalito Chamber of Commerce](#)
- ◆ [Email Sausalito’s Stormwater Coordinator](#)

Stormwater Pollution Prevention in the Town of Tiburon

About Tiburon’s Stormwater Pollution Prevention Program

The Town of Tiburon, population 8,900, occupies 16 square miles—approximately five of which are dry land. The remainder is in the Bay.

Once a railroad terminus, Tiburon’s downtown features many shops and restaurants. The remainder of the town is largely single-family residential, including some neighborhoods on steep hillsides.

Tiburon is home to many endangered species of plants and animals, some of which are found only on the Tiburon peninsula. Bay and wetland environments in and around Tiburon include the Romberg Tiburon Center for Environmental Studies and the Richardson Bay Audubon Sanctuary and Center. There are no year-round creeks within Town limits—only two seasonal channels established for flood control many years ago.

Tiburon’s Stormwater Staff

Stormwater Coordinator, Public Information & Participation	Matt Swalberg, Engineering Technician 415-435-7354 mswalberg@ci.tiburon.ca.us
Municipal Maintenance, Illicit Discharge Elimination, Outfall Monitoring	Joel Brewer, Public Works Superintendent
Capital Improvement Projects and Drainage	Nick Nguyen, Town Engineer
Planning Department Contact	Dan Watrous, Planning Manager
Development Approvals	Dan Watrous, Nick Nguyen
Construction Inspections	Fred Lustenberger, Building Official
Commercial and Industrial Inspections and Outreach	Joel Brewer, Fred Lustenberger and Matt Swalberg

Most development applications are for new or expanded residences. A Design Review Board considers all new buildings, additions, and exterior renovations. Development of tracts outside Town limits, but within the Town’s sphere of influence, have been a source of controversy over past decades. Construction has yet to begin on a few major projects.



Tiburon occupies most of Tiburon peninsula.

Stormwater Program Organization

Matthew Swalberg is the Town’s Stormwater Coordinator, among other duties and responsibilities assigned to him. Joel Brewer, Superintendent of Public Works, supervises a crew of six employees in maintenance of streets and parks. The streets crew is responsible for inspecting, clearing and maintaining all storm drains.

Tiburon’s stormwater program is funded through the Town’s General Fund and through a stormwater impact fee of \$1/square foot of new impervious surface. All the town’s outfalls have been mapped to GIS. The town inspects all outfalls and catch basins before and after the rainy season.

The Town requires new developments to include on-site detention of stormwater to ensure peak flows from frequent storms, as well as rare large storms, are not increased. New developments include open space buffers of at least 50 feet on each side of the top of stream bank (100 feet from wetlands or if the parcel is < 5 acres). The Town requires grading be

minimized and strongly discourages development on slopes exceeding 40%.

Town Staff Seek Out Relevant Training

The Town of Tiburon’s Director of Public Works/Town Engineer, Nick Nguyen has been proactively taking steps to become a Qualified Stormwater Pollution Prevention Plan (SWPPP) Developer and Qualified SWPPP Practitioner.

The State General Permit for Stormwater Discharges Associated with Construction Activities (General Permit) has certification and training requirements for Qualified SWPPP Developers (QSD) and Qualified SWPPP Practitioners (QSP). The construction of the Town’s Capital Improvement Projects (CIP) is performed by contractors. The contractors are required to develop a SWPPP using a QSD and implement the SWPPP using a QSP. However, the Town Engineer, a Professional Engineer (PE), has taken the QSD training course and plans on taking the QSD exam later this year to complete his training.

The QSD training course, held in February 2011, covered the General Permit regulations, soil erosion, SWPPP implementation, monitoring, reporting, project planning and termination of coverage. With this additional training the Town Engineer can provide improved oversight of contractors on CIP projects and a resource for the Town’s construction site inspectors and development plan reviewers.

More Accomplishments by Town of Tiburon in 2010-2011 and Priorities for 2011-2012

Town of Tiburon staff accomplished the following during 2010-2011:

- ◆ The Public Works Department completed the SWPPP for Town Hall and it is now in place. The department is currently finalizing the SWPPP for the Police Department.
- ◆ In September and October of 2010, the Town retained the services of Aquatic Environments to conduct cattail removal in the Town’s Railroad

Marsh. Utilizing specialized equipment such as the Aquamog with rotary mowing attachment and the Marsh Master II amphibious track vehicle, approximately 280 cubic yards of cattail were removed over the month long project. This green waste was hauled off in 14 dumpsters (20 CY each) by Mill Valley Refuse Service. Total cost for this work was \$35,220. This impact has been tremendous.

- ◆ Business and Restaurant Self Inspection Forms were mailed out to over 560 businesses and restaurants in August 2010 and January 2011.



Tiburon Town Hall

- ◆ Public Work staff installed over 250 new and replacement “No Dumping – Drains to Bay” buttons at various storm drain inlets throughout the Town.
- ◆ Public Work staff assisted volunteers with debris haul off during the Coastal Clean Up Day on September 25, 2010 and Earth Day on April 23, 2011.
- ◆ Public outreach was conducted via the Town’s electronic newsletter, Tib Talk. Article topics included, “First Rains, Hazardous for Drivers – and Local Waterways” and an article on the Cattail Removal, November 24, 2010, “Broom Busters Open Space Workday” on December 4, 2010, “Public Works Advice Corner: The Benefits of Using Pervious Services in Driveway and other Construction”, January 28, 2011 and an

announcement about Earth Day in April.

- ◆ Distributed two stormwater pollution prevention handouts with Encroachment Permits during the winter season. These included MCSTOPPP Minimum Erosion/Sediment Control Measures for Small Construction Projects and Storm Drain Pollution Prevention: It's Up To Us.
- ◆ Retained the services of Gardener's Guild to remove nonnative plant material from seven (7) open space areas to reduce fire loads and clean up drainage ditches and outfalls.
- ◆ Volunteers from CCNB removed nonnative Monterey Pine trees from the Middle Ridge Open Space.
- ◆ Spent approximately \$13,500.00 on biodegradable pet waste bags.

Priorities for 2011-2012

- ◆ Complete the Police Department SWPPP and engage department staff on implementation and management.
- ◆ Retain contract services to clean and "flush out" over 6,000 LF of storm drains as ongoing routine maintenance.
- ◆ Retain contract services to remove the last sections of concrete islands along Tiburon Blvd. totaling approximately 15,000 square feet and install appropriate drought tolerant landscaping.
- ◆ Continue staffs training as opportunities present themselves.
- ◆ Develop a greater understanding of the Phase II permit and its possible implications.
- ◆ Attempt to move draft IPM policy to a final version.

For information about Tiburon's routine stormwater pollution prevention activities, see the MCSTOPPP Annual Report at www.mcstoppp.org.



Tiburon wharf

Tiburon links for on-line viewers:

- ◆ [Town of Tiburon website](#)
- ◆ [Richardson Bay Audubon Center](#)
- ◆ [Romberg Tiburon Center](#)
- ◆ [Tiburon Peninsula Chamber of Commerce](#)