

**NAPA COUNTY STORMWATER MANAGEMENT PROGRAM
(NCSWMP)**

ANNUAL REPORT

FY06/07

MEMBER AGENCIES

CITY OF AMERICAN CANYON
CITY OF NAPA
TOWN OF YOUNTVILLE
CITY OF ST. HELENA
CITY OF CALISTOGA
NAPA COUNTY

FOR MORE INFORMATION, PLEASE CONTACT THE
NAPA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
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INTRODUCTION AND BACKGROUND

INTRODUCTION

The Cities of Napa, St. Helena, Calistoga, Town of Yountville, and Napa County, collectively referred to as the Napa County Stormwater Management Program (NCSWMP) agencies, submitted an NOI and a Stormwater Management Plan (SWMP) to the Regional Water Quality Control Board (RWQCB) on March 10, 2003 to comply with the Phase II Municipal Stormwater regulations. This was the initial phase of the process to gain coverage under the Phase II Stormwater Permit (Phase II Permit).

After reviewing the SWMP, the RWQCB submitted comments and a request for clarifications regarding the content of the SWMP. These comments were used to improve the clarity of the plan and to add goals that were deemed lacking. The plan was resubmitted to the RWQCB in December of 2003 and the RWQCB staff approved the SWMP. The SWMP was posted on the State Water Resources Control Board (SWRCB) website for public review and comment before adoption by the RWQCB. Public notices also ran in three local newspapers once per week for three weeks during the 60-day public comment period. Baykeeper requested a public hearing near the end of the comment period to request a public hearing. Baykeeper requested that two programs be added to the SWMP, an outfall monitoring program and an Integrated Pest Management (IPM) program. The NCSWMP agencies did not wish to modify the SWMP to include an outfall monitoring program because the Phase II permit does not require such monitoring, the SWMP already includes a voluntary water quality monitoring program, and the large variability in pollutant concentrations in outfall samples requires that many samples be taken to gather meaningful data. The NCSWMP agencies also did not want to modify the SWMP to include an IPM program because many of the SWMP elements include IPM practices, such as landscape and park maintenance and corporation yards. As a result of these clarifications, Baykeeper withdrew its request for a public hearing and the RWQCB issued coverage under the Phase II permit to the NCSWMP co-permittees for a Napa County-wide Stormwater Management Program (County-wide Program) on May 20, 2004.

In order to fund the County-wide Program, each of the Local Programs entered into a Joint Powers Authority (JPA) administered by the Napa County Flood Control and Water Conservation District (NCFWCWD). The JPA was adopted with an initial (first-year) budget of \$100,000 and each Local Program provided funds based upon population and BAU. The purpose of the JPA is to allow the Local Programs to combine their resources to implement programs that promote pollution prevention practices within each of their jurisdictions.

This Annual Report covers the period from July 1, 2005 through June 30, 2006, which represents the 3rd year of the program. The majority of the 3rd year measurable goals involved continued program development and training. As the program matures, evaluation of the effectiveness of these and future accomplishments at reducing water pollution in Napa County will become part of the annual goals for the program.

BACKGROUND

Napa County encompasses 754 square miles of land and has a population of 124,279 with approximately 78% of its citizens living in the incorporated areas of American Canyon, Napa, Yountville, St. Helena, and Calistoga. There are two major watersheds in Napa County: the Napa River and Putah Creek Watersheds. Most of Napa County's citizens (approximately 95%) live in the Napa River watershed. For this reason, most of the NCSWMP activities are focused in the Napa River Watershed. The Napa River is 55 miles long and drains an area of 426 square miles. With the exception of 35 square miles in Solano County, the entire Napa River watershed is within the boundaries of Napa County. It is bordered by Mt. St. Helena to the north, Coastal Range and Mayacamas Range mountains to the west and east, respectively, and ultimately discharges to the San Pablo Bay to the south.

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Overview of Major Accomplishments for FY03/04.

The majority of the 1st year measurable goals involved program development and training. The major accomplishments included:

1. Developed lesson plans and activities and piloted them at 3 schools.
2. Sponsored two Kids in Creeks workshops to provide teachers resources and training on creek and water quality.
3. Participated in the Our Water Our World program to encourage the use of less-toxic pest control methods.
4. Hosted 3 creek cleanup events that had over 300 participants and removed more than 8,000 pounds of trash from Napa County waterways.
5. Collected over half a million pounds of household hazardous waste at the Napa-Vallejo Collection Facility and at upvalley collection events.
6. Developed a draft BMP field guide for surface cleaners.
7. Provided outreach materials and explained stormwater requirements to all the restaurants in Napa County.
8. Co-sponsored a Construction Site Planning and Management workshop in Napa and sponsored an additional workshop in Calistoga.

Overview of Major Accomplishments for FY04/05.

1. Gave lessons on water quality and pollution prevention to 13 elementary school classes, 1 middle school class, 4 high school classes, and 2 college classes.
2. Staffed a booth with water quality-related information at nine community events.
3. 309 volunteers removed 6,640 pounds of trash and debris from Napa County waterways on Coast and Creek Cleanup Day.
4. Stormwater inspection checklists for food service and business plan facilities were piloted and revised based upon feedback from the inspectors.
5. An illicit discharge database was developed to track complaints, investigations, and follow-ups and to evaluate the effectiveness of the SWMP.
6. A draft construction Site Runoff Control Policy was developed and is in the process of being adopted by Local Programs.
7. A database and checklist for construction site inspections was developed.
8. A draft Post-Construction Runoff Control Requirements policy was developed and the City of St. Helena adopted it.
9. A design, construction, and maintenance of rural roads workshop was held for municipal staff and the general public.

Overview of Major Accomplishments for FY05/06

1. Gave lessons on water quality and pollution prevention to 21 elementary school classes, 4 middle school classes, and 2 college classes reaching over 600 students.
2. Staffed a booth with water quality-related information at 5 community events.
3. 400 volunteers removed 5,410 pounds of trash and debris from Napa County waterways on Coast and Creek Cleanup Day.

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4. Developed a brochure on pool, spa, and fountain maintenance BMPs.
5. Developed a stormwater website for Napa County. www.napastormwater.org.
6. Operation and maintenance standards were developed for swimming pool, fountain, and spa maintenance.

Overview of Major Accomplishments for FY06/07

1. Gave lessons on water quality and pollution prevention to 18 elementary school classes, 5 middle school classes, and 3 college classes reaching 614 different students.
2. Staffed a booth with water quality-related information at 4 community events.
3. 537 volunteers removed 15,000 pounds of trash and debris from Napa County waterways on Coast and Creek Cleanup Day.
4. Developed a wallet-sized pollution reporting guide.

SUMMARY AND EVALUATION FOR FY06/07

ELEMENT I – PUBLIC EDUCATION AND OUTREACH

1. CHARACTERIZE GENERAL PUBLIC

TASK 1D – CONDUCT SURVEY

Performance: Modified for implementation in FY07/08.

The County-wide Program did not have sufficient funds to conduct the phone survey (\$20K) because the printing of educational materials was a higher priority. The County-wide Program did get approval from the Cities and the County to increase the County-wide budget for FY07/08. This additional revenue will be used to execute a contract for the public awareness survey and to develop a new SWMP.

2. OUTREACH TO LOCAL GOVERNMENT OFFICIALS

TASK 2C – ANNUAL PROGRESS REPORTS

Performance: One presentation was given to the Napa County Flood Control and Water Conservation District Board.

The Flood Control Board includes the five Napa County Board of Supervisors, the Mayors from each of the five cities, and one council member from the City of Napa.

A power point presentation was given to the Flood Control Board on June 13, 2006. The presentation highlighted the SWMP accomplishments to date and major goals for FY 06/07. The presentation included examples of Post-Construction BMPs (i.e. bioretention) to inform the Flood Board members of the post-construction BMP requirements that were adopted or are in the process of being adopted by the NCSWMP partners.

3. STORMWATER WEBSITE

TASK 3B – EVALUATE WEBSITE

Performance: Website evaluated.

The stormwater website (www.napastormwater.org) updated continuously throughout FY06/07 as new BMPs and materials were developed. The calendar of events in the original website was abandoned because it did not allow for text formatting or attachments. In its place, a

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section on the home page was developed with links to different events. This allows the website administrator to create a new page for each event that can be formatted and include attachments. The ability to evaluate the usage of the website was added as a feature in Dec 2006. Based on an evaluation of the website, the County-wide Program plans to improve the format and organization of the post-construction BMP and business pages during FY07/08.

To increase the public's awareness of the website, the address was included on the following outreach materials and websites.

- Pollution Prevention for Pools, Spas, and Fountains
- Pollution Reporting Guide
- OWOW factsheets (e.g. Aphids, Ants, Lawns)
- Website: Napa County Home Page
- Website: American Canyon
- E-mails sent by the SPC

Over the period from February 2, 2007 through September 12, 2007, the stormwater website received a total of 18,334 hits with an average of 84 hits per day. Over the same period the website had 3,306 visitors and averaged 15 visitors per day. This baseline data is valuable because it will allow us to measure the public's awareness and use of the website over time.

4. COMMUNITY EVENTS

TASK 4A – DEVELOP BOOTH

Performance: Two booths were developed to educate the public about water quality-related issues.

Our Water Our World (OWOW)

The OWOW booth features a bug collection of common insect found in the home and garden. The "bugs" are the main draw to the booth for kids and adults alike. Many people recognize many of the insects in the collection, but do not know if they are a pest or a pal. As it turns out, there are a lot more pals than pests and this is the basis for discouraging the use of broad-spectrum pesticides. Also on display are a number of less-toxic products that may be used to kill specific pests while avoiding or minimizing impacts to stormwater. Free samples of Sluggo are often handed for people to try at home. Visitors to the booth are encouraged to look for the OWOW shelf talkers and factsheets at the six participating stores in Napa County. The OWOW booth distributes the most popular factsheets (e.g. Wonderful Roses, Beautiful Lawns, Healthy Gardens) as well as a booklet that includes all the factsheets and a booklet with games and puzzles that is for kids.

Only Rain Down the Drain

The County-wide Program developed a booth to feature the role of storm drains in carrying urban runoff and pollutants to creeks and other waterbodies without treatment. The display features three posters highlighting stormwater issues related to development, municipal operations, businesses and the general public. Stormwater brochures developed by the County-wide Program including Pools, Spas, and Fountains; Surface Cleaning; and Pollution Reporting were distributed at the booth.

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TASK 4B – STAFF BOOTHS AT EVENTS

Performance: Staffed booths at four community events.

The OWOW booth was staffed by the County-wide Program and the DEM for three days at the Napa County Fair in Calistoga. The County Fair was a good venue to increase awareness of the OWOW program and the role of storm drains in contributing to pollution because it's attended by a large number of people from all walks of life. In particular, the County Fair is a good event to conduct outreach to the Hispanic community.

The County-wide Program staffed the OWOW and Weed Management Area booth at the Napa Sustainable Winegrowers Group fundraiser event at the Silverado Country Club. The event was attended by a couple hundred people. The OWOW and the Weed Management Area booths were both very popular with those attending the event.

The County-wide Program staffed the OWOW booth at the Day at the Farm event which brought several hundred elementary school kids to the Napa Valley Expo to learn about agriculture. The bugs were a big hit and a couple hundred Pest or Pal booklets were distributed. The County-wide Program also assisted the Napa County RCD with the stormwater diorama demonstration.

The County-wide Program staffed the OWOW and the "Only Rain Down the Drain booths on Earth Day at the Napa Valley College. The turn out in 2007 was relatively low due to the scattered showers and gusty winds, but the booths were visited by a hundred people or so.

TASK 4C – EVALUATE BOOTH

Performance: Booths evaluated.

After evaluating the OWOW booth, it was determined that a visual aid was needed to show the connection between our daily activities and water pollution. To meet this need, three posters (see Task 4A above) were created to show the role of storm drains in contributing to pollution. The posters included a picture of a storm drain inlet and an outfall discharging pollutants. The posters also included pictures of BMPs and some text to describe things we can do to protect creeks from pollution

5. OUTREACH TO GENERAL PUBLIC

TASK 5C – NAPA-VALLEJO HOUSEHOLD HAZARDOUS WASTE (HHW) COLLECTION FACILITY

Performance: Facility open every Friday and Saturday year-round.

The Napa-Vallejo Household Hazardous Waste Collection Facility continued to accept HHW from Napa and Solano County residents free-of-charge. Businesses from these areas are charged a fee to dispose of hazardous wastes at this facility. A map with the facility's location, hours of operation, and materials accepted is included in the Napa Recycling Guide which is included in the phone book yellow pages. The facility is also featured on brochures distributed by the DEM and the City of Napa at community events and their front counters.

A total of 537,023 pounds of HHW was collected at this facility in FY06/07. Approximately 65% of the HHW collected was paint. After paints, the 2nd most common HHW collected at this facility was poisons which accounted for 8% (43,224 pounds) of waste collected.

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TASK 5D – UPVALLEY HOUSEHOLD HAZARDOUS WASTE COLLECTION

Performance: A household hazardous waste collection event was held in Calistoga in FY06/07.

A total of 60,566 pounds of HHW was collected at the Calistoga event in FY06/07. Upvalley HHW collection events are funded by a grant through the California Integrated Waste Management Board. In the past, two upvalley events were held each year, but there was only one event in FY06/07 because the limited funding was used to supplement other related recycling programs.

There are several locations in the upvalley area where used oil and oil filters may be disposed. Curbside used oil collection was also added to the garbage service contracts that provide service in the Napa River watershed. For these reasons, the most common HHWs collected at the upvalley annual events are paints and poisons. Upvalley residents may still dispose of these HHWs year-round at the Napa-Vallejo HHW Collection Facility.

The performance measure is proposed to be reduced from 2-4 events per year to 1-2 events per year due to the reasons above and because there has never been more than two upvalley events held in the same FY.

TASK 5I – USED OIL RECYCLING

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Performance: A special 18 page, bilingual, tabbed recycling guide was published in the SBC Napa Valley Yellow Pages in July 2006. The Recycling guide provides information on: reducing and reusing waste, recycling buyback and drop-off locations, curbside recycling, yard waste & composting, construction related recycling, appliance recycling, household hazardous wastes, electronic wastes, motor oil recycling, and recycling of batteries, anti-freeze and paint.

Radio ads were run on the local radio station (KVON) to encourage the public to properly dispose of used motor oil. The ad included a message on the hazards of improper disposal and a list of many of the locations where used oil may be recycled in Napa County.

The effectiveness of providing the public with information on the proper disposal of household hazardous wastes and used oil is expected to be very high since everyone with a land phone in Napa County receives a phone book each year. People also tend to hold on to their phonebooks, so this is an excellent method of reaching out to the public.

TASK 5J – USED OIL RECYCLING

Performance: Not implemented.

The task to promote used oil recycling through the point-of-purchase program is proposed for termination. After evaluating the costs and benefits of this program, it was determined that it would be better to devote more time and resources toward the curbside used oil collection service and increase recycling at multifamily complexes. Garbage cans provided by the garbage service continue to provide stickers with information in English and Spanish on used oil recycling and the Recycling Guide published in the yellow pages also list 19 locations in Napa County where citizens may dispose of used oil and receive \$0.16 per gallon. The curbside used motor oil recycling was also promoted with garbage bill inserts in English and Spanish in July 2006.

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TASK 5K – PRIORITIZE FUTURE OUTREACH

Performance: Two additional outreach publications were prioritized for development.

The following are the NCSWMP outreach materials developed to date:

- 1) Stormwater Pollution Prevention for New Development and Redevelopment (FY03/04)
- 2) Industrial Facilities BMPs (FY03/04)
- 3) Food Service Facility BMPs (FY03/04)
- 4) Yard Waste and Creek Banks (FY03/04)
- 5) Pollution Prevention for Surface Cleaning (FY04/05)
- 6) Stormwater Door-hanger (FY04/05)
- 7) Restaurant BMP Poster (FY04/05)
- 8) Creek Care Guide and Brochure (FY05/06)
- 9) Pollution Prevention for Swimming Pools, Fountains, and Spas (FY05/06)
- 10) Pollution Reporting Guide (FY06/07)

Of the two outreach materials prioritized for development, the County-wide Program developed the Pollution Reporting Guide. The Pollution Reporting Guide is wallet-sized which is convenient for people to keep handy in case they witness an illicit discharge. The guide includes a section on the role of storm drains in contributing to water pollution, examples of what can and cannot be discharged into the storm drain, and who to call in the event of an illicit discharge.

BMPs for painting and concrete and stucco work was developed in FY06/07 and posted on the stormwater website, but a brochure has not yet been developed for these activities. The development of this brochure will be a top priority in FY07/08. An additional brochure on home repair BBased upon reports from municipal staff and the public it was determined that a brochure on working with concrete and stucco should be developed in FY06/07.

TASK 5L – DEVELOP MATERIALS

Performance: One outreach material developed.

The County-wide Program and the Napa County RCD developed and printed 3,000 copies of a wallet-sized Pollution Reporting Guide in FY06/07. The purpose of the guide is to increase public awareness of the stormwater hotlines in Napa County and the stormwater website. In addition to providing hotlines for reporting pollution, the Pollution Reporting Guide includes information on the role of storm drains in contributing to pollution, the types of discharges exempt from local, State, and Federal prohibitions, and how to determine whether a substance is natural or artificial. The cities, County, DFG, and RWQCB all commented on the content of the guide.

TASK 5M – DISTRIBUTE MATERIALS

Performance: Materials distributed by various methods.

The County-wide Program provided copies of the outreach material per request. Construction-related materials such as the CASQA factsheets, Blueprint for a Clean Bay and business-related brochures such as the surface cleaner booklet and pool spa, and fountain brochure are

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distributed at the front counters of the Local Programs and during inspections conducted by the Local Programs. The majority of the outreach materials are also distributed by the County-wide Program at community events and the Local Programs distribute materials as needed during responses to illicit discharges.

6. OUTREACH TO SCHOOLS

TASK 6C – CONDUCT PRESENTATIONS

Performance: Stormwater-related lessons were given to 18 elementary school classes, 5 middle school classes and 3 college classes reaching a total of 614 students.

The Napa County RCD education coordinator, with funding from the County-wide Program, presented the Pollution Soup lesson plan at 16 elementary school classes with a total of 378 students reached. The grades of the classes ranged from 3rd through 5th grade. The Pollution Soup lesson plan was developed by The Watershed Project and is part of the Kids in Creeks education program. The lesson discusses the importance of protecting water quality, the sources of stormwater pollution and how it enters local creeks, and some BMPs that can be used at home to protect our creeks. The lesson includes an activity where students add substances to a bowl of water to illustrate the harm that pollution causes and some lessons use a stormwater diorama to illustrate how runoff from homes, farms, and businesses can contaminate waterways. The Napa County RCD also gave a power point presentation on water quality to one middle school class with 23 students present.

The CWPC gave three power point presentations at two environmental studies classes at Pacific Union College. The presentation covered the history of the Clean Water Act, the status of the health of the nation's waters and local water bodies including the San Francisco Bay and the Napa River, and the common pollutants impairing water bodies and their impacts and sources. The presentation ended with an overview of using biotic indicators to measure water quality and included BMI data collected by the Friends of the Napa River from two local creeks. The data from the two creeks illustrate how the biotic community reflects the chemical and physical characteristics of the stream. The BMIs made the presentation more interesting and more relevant to a college-level environmental studies class.

The County-wide Program and the STRAW program collaborated on a series of watershed lessons and activities for two classes at American Canyon Middle School. The classes had decided to adopt Rancho del Mar Creek as part of their community service project. The following is an overview of the lessons and activities given over a four-day period.

Lesson 1: Introduction to Watersheds.

The students studied three different maps of the Rancho del Mar watershed and answered questions on a worksheet. The student identified where they live in the watershed and the pollutants of concern based upon the land uses in the watershed. Afterward, the students brainstormed ideas for keeping pollutants out of Rancho del Mar Creek including marking storm drains, distributing education materials, and installing hidden cameras where littering is common.

Lesson 2: Stream Habitat Assessment

This lesson was given at Rancho del Mar Creek adjacent to the school. The students used a form to rate the quality of different stream habitat features such as bank erosion, pool depth, riffle length, riparian vegetation and weeds. Based on the assessment it was determined that the upper reach needs to be revegetated to reduce bank erosion and to provide shade. The lower reach had a patch of French Broom that should be eradicated and trash was abundant all along the creek.

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Lesson 3: Water Quality Monitoring

The STRAW program gave this lesson at the creek. The lesson included a discussion of chemical and physical properties of water that sustain life such as the temperature range required for salmon. As an activity, the students measured the temperature, pH, and dissolved oxygen in the stream and collected and identified BMIs to measure the health of the creek. Based on the results of the assessment, the students determined that the temperature and dissolved oxygen were not ideal for supporting salmonids.

Lesson 4: Watershed Action Plan

The final lesson concluded with a discussion of what we learned and the classed broke into small groups to discuss potential projects to reduce pollution and improve the condition of Rancho del Mar Creek. Some of the ideas discussed included marking storm drains, distributing education materials, and installing hidden cameras where littering is common. After the discussion the classes concluded with an hour-long creek cleanup on Rancho del Mar Creek. The student collected over a hundred pounds of trash.

The County-wide Program also presented the Water Quality and Stream Assessment lesson at two Silverado Middle School classes. The lesson includes a power point presentation on water quality and the pollutants of concern and their sources in the Napa River watershed and San Francisco Bay. The presentation concluded with an overview of using BMIs as indicators of water quality. The students then broke into small groups and identified BMIs collected from the upper, middle, and lower reaches of Tulocay Creek. The number of pollution sensitive species was highest in the upper reach where there was less development. The water quality score for the upper reach was “good” and the water quality scores for the lower reaches were both “fair”. While these results agreed with the hypothesis that increasing human development in a watershed reduces water quality, as measured with BMIs, additional studies would have to be performed to determine the extent to which pollution and other factors (i.e. Stream Continuum Concept) influence the water quality score.

TASK 6D – EVALUATION

Performance: Students from 12 classes completed a short survey before and after the Pollution Soup lesson was presented by the Napa County RCD education coordinator.

The survey results were a valuable tool for evaluating the effectiveness of the lessons. The education coordinator at the RCD reviewed the surveys and used the results to add emphasis where needed to ensure that students understood to key points of the lessons.

TASK 6E – PROGRAM IMPROVEMENT

Performance: Watershed lesson plans improved.

The County-wide Program expanded upon the watershed and stream assessment lessons conducted with the STRAW program at the two American Canyon Middle School classes. In particular, the watershed lesson was expanded to include an activity where the students studied a map of their watershed and answer questions on a worksheet.

The County-wide Program also improved its stream assessment lesson by purchasing sixteen 4X viewers to use for identifying BMIs.

ADDITIONAL ACCOMPLISHMENTS

A. WATERSHED CALENDAR

The Napa County RCD created a calendar titled “Reflections on the Napa River” with funding from the Napa County CDPD. The County-wide Program supported the development of the

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calendar by providing comments on the section about watersheds. The calendar has an opening section with a map of Napa County's watersheds and a list of all the named creeks in Napa County. The 2007 calendar did not include watershed-related information for each month as in the past, but included excellent photos of the Napa River taken by Samanda Dorger. Approximately 2,000 calendars were distributed to residents throughout Napa County in FY06/07.

B. STREAM MAINTENANCE WORKSHOP

The County-wide Program and the Napa County RCD hosted a Stream Maintenance Workshop on June 7, 2007 at the Napa Senior Center. The workshop was publicized in the newspaper and on various website, but the major outreach was to the residents that live in the Napa Creek watershed. The outreach was focused on a particular watershed with the idea of bringing people together to discuss problems they have along the creek. To accomplish this goal, post cards were mailed to all the residents in the watershed. The workshop attendance (19) was not as high as we had hoped for, but the presentations were well received and were followed by a stimulating discussion of various problems along the creek.

A total of three presentations were given at the workshop. The first was given by Jonathan Koehler from the Napa County RCD who provided an overview of watershed processes, the evolution of stream channel morphology, and the habitat features that are favorable to fish and wildlife. The second presentation was given by Rick Thomasser from the FCD who discussed FEMA's flood insurance program. The final presentations was given by the SPC who discussed stream maintenance practices that reduce the potential for flooding while minimizing bank erosion and impacts to wildlife.

ELEMENT II – PUBLIC INVOLVEMENT AND PARTICIPATION

2. STORM DRAIN STENCILING

TASK 2B. STORM DRAIN STENCILING PROGRAM

Performance: One storm drain stenciling event conducted in FY06/07.

The County-wide Program conducted one storm drain marking event in the City of Napa in July 2006. The storm drain marking was conducted by approximately 20 kids attending the Connolly Ranch Summer Camp. The activity was a follow-up to the water quality and Pest or Pal lessons given the week before. The Summer Camp students marked XX storm drains with markers in English and Spanish. The area targeted for outreach was a low-income, residential neighborhood.

The County-wide Program recruited an intern from New Tech High to inventory and to map the storm drains and storm drain markers in the City of Napa. Approximately 30 hours was spent in the field marking GPS points for the storm drain inlets and noting the presence and condition of the storm drain markers. Approximately 30% of the storm drain inlets in the City of Napa were surveyed. Although the survey was not randomly sampled, the areas surveyed were more or less representative of the city. Based on the results, it is estimated that there are 1,500 storm drain inlets in the City of Napa with 25% of them clearly marked, 20% need replacing, and 55% have no visible marking.

The County-wide Program purchased 1,000 storm drain markers from Almetek in June 2007. The markers are stainless steel with green and blue paint and have the wording "No Dumping, Drains to River". The installation of the marker requires the drilling of a 4 inch circle

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to embed the marker into the face of the curb, but with this installation, Almetek will guarantee the marker for 30 years. The stainless steel markers cost a little more than the plastic markers, however the stainless steel markers are expected to last a lot longer and require less maintenance.

The effectiveness of the storm drain marking event may be evaluated in the future by comparing the number of illicit discharges in neighborhoods with and without storm drain markers. The illicit discharge database is able to track illicit discharges by parcel number and the storm drains that have been marked are tracked by the volunteers. In order to conduct this evaluation, GIS shapefiles will have to be generated for the parcels with illicit discharges and the storm drains marked. This evaluation will be conducted in the future if sufficient staff time is available to create and update the shapefiles.

3. WATER QUALITY MONITORING

TASK 3E – TRAIN VOLUNTEERS

Performance: Training program implemented.

The Napa County RCD continued to provide annual training to its water quality monitoring volunteers.

TASK 3F – MONITORING

Performance: Monitoring program implemented.

The tasks related to supporting the volunteer water quality monitoring program is proposed to be terminated for FY07/08. While the education and public participation aspects of the program are important, the program has a small number of volunteers participating and it is not clear if the data will be useful at evaluating the effectiveness of the SWMP. Based upon these factors, the County-wide Program proposes to eliminate these tasks and devote more resources toward coordinating creek cleanups and storm drain marking.

4. CREEK CLEANUP

TASK 4A – COAST AND CREEK CLEANUP DAY

Performance: Coast and Creek Cleanup Day sponsored.

The County-wide Program contracted with the RCD to coordinate and support cleanup efforts in Napa County at eight sites for Coast and Creek Cleanup Day on September 16, 2006. A total of 537 volunteers participated in the event and removed a total of 11,970 pounds of trash and 3,038 pounds of recyclables from local waterways from nine sites in Napa County. The length of stream/shoreline covered was approximately 13 miles.

The number of volunteers that participated was the highest yet with a 26% increase over the previous year. The amount of trash and recyclables collected in 2006 was the highest ever. Possible explanations for the increase in trash collected during this event include 1) more volunteers, 2) a larger area was targeted for cleanup, and 3) the New Years storm of 2005/2006 washed a lot of trash into the creeks and river. A detailed report on the 2004 Coast and Creek Cleanup Day is provided in Appendix B.

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ELEMENT III – ILLICIT DISCHARGE DETECTION AND ELIMINATION

TASK 2H – DEVELOP A ROAD KIT

Performance: Road kits provided with additional materials.

The County-wide Program added the Pollution Reporting Guide to the list of materials maintained in the road kit. The wallet-sized booklet is not only a handy guide to distribute to the public but it's also valuable to the investigator in the field because it has the stormwater hotlines and the Operation of Emergency Service hotline for reporting pollution.

TASK 4H – NEWSLETTER

Performance: Newsletter sent to all business plan facilities in Napa County.

The County-wide Program and the DEM developed and distributed an 8-page newsletter with the billing statements for all the business plan facilities in Napa County. The newsletter included information on the local discharge prohibitions and BMPs for several business and commercial-related activities including outdoor material storage, fueling, surface cleaning and equipment washing. A copy of the newsletter is provided in Appendix C.

The newsletter was sent to 723 business owners of a total 1,122 business plan facilities.

ELEMENT IV - CONSTRUCTION SITE RUNOFF CONTROL

4. OUTREACH

TASK 4B. PROVIDE BMP MATERIALS TO THE PUBLIC

Performance: Outreach materials provided to public upon request.

The County-wide Program provides BMP guides to Local Programs and contractors by request. These BMP guides are mostly distributed through inspections conducted by Local Programs, but occasionally the County-wide Program is contacted directly by contractors. In addition to the brochures and factsheets routinely distributed through inspections, the County-wide Program loaned a video called "Keep it Clean" to a contractor to use during their training of their workers and subcontractors.

TASK 4D. CONSTRUCTION SITE WORKSHOP

Performance: SWPPP Preparation and Management workshop held on January 27, 2007.

The County-wide Program with support of its partners in NSSSA held a half-day workshop on the preparation and management of SWPPP at the Napa County-City Library on January 27, 2007. The instructor for the workshop was Lucinda Dustin who gave a power point presentation that covered the minimum content required in a SWPPP, the importance of making the SWPPP site specific and concise, documentation of trainings and inspections, making modifications and amendments, and maintaining an up-to-date site map.

The maximum registration of 60 was filled to capacity with 44 registered from the private sector and 16 from the public sector. The high attendance by contractors and engineers from the public sector can be attributed to the outreach efforts of the members of NSSSA. NSSSA members also hosted the same workshop in Petaluma and Davis.

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ADDITIONAL ACCOMPLISHMENTS

A. EVALUATE AND REVISE OUTREACH MATERIALS.

Performance: Stormwater Quality Management Plan template developed.

The County-wide Program developed a template that developers of projects under 1 acre can use to develop a mini-SWPPP. The template was developed for a storage shed and includes a description of construction activities, potential pollutants generated and the BMPs implemented to prevent illicit discharges. The template also includes a “weather-triggered action plan” and forms for documenting trainings and inspections. The documents are posted on the stormwater website in Word and Excel documents that can be tailored for a specific project.

ELEMENT V – POST-CONSTRUCTION RUNOFF MANAGEMENT

TASK 5A. WORKSHOPS

Performance: Measurable goal not implemented.

The County-wide program did not sponsor a workshop in FY07/08 because time and resources were spent on developing a new draft of post-construction runoff control requirements with worksheets to assist with the preparation and review of plans.

GOALS AND MODIFICATIONS FOR FY06/07

I. PUBLIC EDUCATION AND OUTREACH

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

TASK 1D. CONDUCT SURVEY

Two methods of establishing baseline data on the public’s knowledge of stormwater issues were evaluated. The first was to distribute a survey in garbage bills and the second was to conduct a phone survey similar to the one conducted in Sonoma County. It was determined that the phone survey would provide the most accurate results and also provide the opportunity compare stormwater knowledge across the North Bay Area. The method of distributing the survey in garbage bill would not provide a representative sample of the county-wide education and outreach efforts because it is not possible to provide inserts into garbage bills outside the City of Napa. It was also determined that in order to determine the effectiveness of the county-wide program’s education and outreach programs it is not necessary to obtain statistically valid samples within each of the Local Program’s jurisdictions. By conducting the survey to target the County as a whole significant cost-savings will result and not compromise the usefulness of the survey at establishing baseline data to measure public awareness of stormwater issues over time.

The County-wide Program did not have sufficient funds to conduct the survey in FY05/06, however, the survey costs were included in the FY06/07 budget. The total cost of conducting the survey is \$20,000.

TASK 5D – UPVALLEY HHW COLLECTION EVENTS

The DEM has generally held two upvalley HHW collection events per FY, however only one upvalley event was held in FY06/07. The previous performance measure was to hold two to four upvalley

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events per year. The performance measure is proposed to be reduced to 1-2 events per year since the maximum number of events over the past three years has been 2 events per FY and additional funding to hold more than 2 events is not anticipated in the future. Since there are several locations in the upvalley area where used oil and oil filters may be disposed, the most common HHWs collected at the upvalley annual events are paints and poisons. Upvalley residents may still dispose of these HHWs year-round at the Napa-Vallejo HHW Collection Facility. Curbside used oil collection was also added to the garbage service contracts that provide service in the Napa River watershed.

TASK 5J – USED OIL RECYCLING

The task to promote used oil recycling through the point-of-purchase program is proposed for termination. After evaluating the costs and benefits of this program, it was determined that it would be better to devote more time and resources toward the curbside used oil collection service and increase recycling at multifamily complexes. Garbage cans provided by the garbage service continue to provide stickers with information in English and Spanish on used oil recycling and the Recycling Guide published in the yellow pages also list 19 locations in Napa County where citizens may dispose of used oil and receive \$0.16 per gallon. The curbside used motor oil recycling was also promoted with garbage bill inserts in English and Spanish in July 2006.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Public Education and Outreach measurable goals.

II. PUBLIC INVOLVEMENT AND PARTICIPATION

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

TASKS 3E AND 3F. VOLUNTEER WATER QUALITY MONITORING

The tasks related to supporting the volunteer water quality monitoring program is proposed to be eliminated. While the education and public participation aspects of the program are important, the program has a small number of volunteers participating and it is not clear if the data will be useful at evaluating the effectiveness of the SWMP. Based upon these factors, the County-wide Program proposes to eliminate these tasks and devote more resources toward coordinating creek cleanups and storm drain marking.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Public Involvement and Participation measurable goals.

III. ILLICIT DISCHARGE DETECTION AND ELIMINATION

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Illicit Discharge Detection and Elimination measurable goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Illicit Discharge Detection and Elimination measurable goals.

IV. CONSTRUCTION SITE RUNOFF CONTROL

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No additions are proposed for the Construction Site Runoff Control Measurable Goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Construction Site Runoff Control Measurable Goals.

IV. POST-CONSTRUCTION RUNOFF MANAGEMENT

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Post-Construction Runoff Management Measurable Goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Post-Construction Runoff Management Measurable Goals.

IV. MUNICIPAL OPERATIONS

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Post-Construction Runoff Management Measurable Goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Municipal Operations Measurable Goals.

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EXECUTIVE SUMMARY

The City of American Canyon (the City) has prepared the attached Stormwater Management Program (SWMP) Annual Report for Fiscal Year (FY) 2006-2007 (July 1, 2006 through June 30, 2007) for submittal to Napa County. This report includes a summary of goals and evaluation of efforts and goals. Below is a brief summary of the history of the City's SWMP.

Tetra Tech, Inc. (Tetra Tech) performed an audit of the City's SWMP during June 27 through 29, 2005. Tetra Tech assessed American Canyon's compliance with National Pollutant Discharge Elimination System (NPDES) Permit No. CAS612007. At the same time, the City of American Canyon (the City) was applying for Phase II permit coverage as a co-permittee in the Napa County Storm Water Management Program (NCSWMP). In a letter dated September 20, 2005, the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) stated the City had 3 potential Permit Violations and 13 Deficiencies. A detailed update of the status of those potential permit violations and deficiencies that were continued into the 2006/2007 permit term are described below.

1. *The City needs to complete the mapping for its storm drain system. *This was a Potential Permit Violation.*

Status: The storm drain system map has been completed. The map shows multiple utilities map, including water, sewer and storm drains. The map is maintained in two binders located in the Corporation Yard (Corp Yard) and the applicable pages can be copied to take out to sites.

2. *The City should conduct regular site inspections of the municipal corporation yard to identify and resolve poor housekeeping issues and to reinforce stormwater requirements to staff using the site.*

Status: The City's Environmental Specialist inspects the Corp Yard frequently and addresses housekeeping problems as they arise. The City's Storm Water Pollution Prevention Program (SWPPP), including the inspection form, is used as a guideline for this task.

3. *Because of the extent of the activities occurring at the municipal corporation yard, the City should develop a SWPPP or similar document to be implemented at the site.*

Status: A map showing all buildings, drainage inlets and direction of drainage was developed. A SWPPP has been prepared and includes necessary capital improvement, operation & maintenance (O&M) standards, and training programs.

4. *The City needs to develop a system to track illicit discharge complaints received and how these discharges are resolved. *Potential Permit Violation*

Status: By joining the NCSWMP, the City is able to use the system already developed by Napa County to track complaints, types of discharges, responders, clean-up and resolutions. The system has been utilized this reporting year and the City was able to track illicit discharge from the complaint stage through resolution. The City will continue to utilize this database each reporting year.

5. *The City should update its spill response plan.*

Status: Napa County developed a Spill Response Plan that that could be adapted by Local Programs. The Spill Response Plan includes a summary of spill and illicit discharge prevention efforts including available outreach materials and the business and construction inspection programs, The procedures for receiving complaints from the stormwater hotline, staff responsible for conducting investigations and cleanup, information on the Local Program

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stormwater ordinance, and criteria to be used for prioritizing response. The City reviewed both the Napa County and City of Napa Spill Response Plans and then finalized the City's Spill Response Plan.

6. *The City should set standards for erosion control BMPs.*

Status: Although no standards have currently been set for erosion and sediment control, the inspectors are inspecting sites for BMPs listed on the inspection forms provided in the Contra Costa Clean Water Program Stormwater C.3 Guidebook (C3). Throughout the City's Planning Department review cycle of submitted plans & specifications, planners and engineers require erosion control BMPs throughout the entire year.

7. *The City should set standards for post-construction design.*

Status: The City is currently reviewing post-construction standards provided in the C3. The City has been directing contractors to these standards. The City has been allowing both Napa County Post Construction Design standards and the Contra Costa C3s to be used by consultants and contractors, and the City will decide on which standard to adopt during this NPDES permit term.

8. *The City should develop a specific plan to evaluate the effectiveness of its stormwater program.*

Status: Although no specific plan has been developed to date, once the City begins using the databases developed by Napa County, the effectiveness of the SWMP will be evaluated.

SUMMARY OF GOALS AND EVALUATION

FISCAL YEAR 2006-2007

ELEMENT I – PUBLIC EDUCATION AND OUTREACH

2. OUTREACH TO LOCAL GOVERNMENT OFFICIALS

TASK 2C – ANNUAL PROGRESS REPORTS

Performance: Presentations given to local council members and managers after each annual report is completed.

During FY 06/07, quarterly progress and status reports regarding the Environmental Specialist's activities under the Stormwater Management Program (SWMP) were provided to the City Council; no oral presentation was given to City Council during this period because of City Council time constraints.

3. STORMWATER WEBSITE

Task 3C- Update City Website

Performance: PM 1 Website developed.
PM2 Link to NCSWMP website

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The resources available to develop the website became available during FY 06/07. A “Storm Water Management Program” page is included in the Public Works section of the City’s website, and a link to the NCSWMP website (www.napasormwater.org) is provided on the page. The City does not have the resources to track number of visits to the site.

4. COMMUNITY EVENTS

TASK 4B – STAFF BOOTHS AT EVENTS

Performance: PM1 Attend at least one county-wide public event and two City events annually.

PM2 Distribute general stormwater brochure and BMP materials.

The City staffed 12 booths at community events, as follows:

City of American Canyon 4th of July Festival: This booth featured a variety of environmental outreach materials. The City provided free materials and information to the public, including oil recycling containers, stormwater brochures for the homeowner and several different pollution prevention coloring books for children. The Environmental Specialist gave two presentations of the “Point and Non-Point Source Pollution” diorama at the booth during the day. Stormwater surveys were also conducted throughout the day.

City of American Friday Nights at the Plaza: Outreach booths were provided on six occasions at the City’s Friday Nights at the Plaza. The booth provided recycling containers, stormwater brochures for the homeowner, and several different coloring books for children were provided free of charge to the public. The City also acquired and distributed the City of Napa’s Recycling guide.

City of American Canyon COPPS in the Park Event: The City provided outreach booths at four Park Events put on by the City’s Police Department and Family Resources Center. Three of the events were held at the Mobile Home Communities, and the other event was in conjunction with the City’s Annual Egg Hunt. Various outreach material was handed out to the public, including the Stormwater bookmarks (10 Things You Can Do to Prevent Stormwater Runoff Pollution), Pollution Prevention Coloring Books, and the Napa County Recycling Guide.

Clean Up Day: The City provided outreach at the Annual Clean Up Day. The Environmental Specialist and volunteers put together bags of various educational outreach materials and distributed the bags to each of the 73 participants who turned out to clean up litter.

Healthy People Healthy Planet: The City provided outreach at this countywide event, sponsored by the Queen of the Valley Hospital, Napa College and the City of American Canyon. The booth had a variety of pollution prevention outreach material. Stormwater surveys were also conducted.

City Hall: The City has a permanent brochure wheel at the City’s City Hall Building containing educational outreach material. The Environmental Specialist stocks the wheel with stormwater brochures and bookmarks, the Mercury Elimination Program information, the Oil Recycling Program, the City and County Recycling Guides, and various timely materials as they become available. The wheel is recharged on a regular basis.

The effectiveness of the booths at the community events may be evaluated over the long term with data collected from the public awareness surveys and from the illicit discharge response program.

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5. OUTREACH TO GENERAL PUBLIC

TASK 5N –CONTINUE TO PROVIDE TOURS AT THE CITY WASTE WATER TREATMENT PLANT

Performance: Public tours are conducted.

The City's waste water treatment plant staff continues to provide facility tours to the public.

Approximately 100 students from Canyon Oaks Elementary school participated in the tour of the City's Wastewater Treatment Plant on May 10, 17, 25, 2007. The following activities were conducted:

- The group watched a video entitled "Where does it go?" which explains the water cycle, storm water, recycled water, and wastewater treatment process. This video also covered the importance of keeping the toxic pollutants out of the water system.
- The group was given a tour of the wastewater treatment plant.
- The group was split into teams and worked at two stations setup with pH litmus paper tests and paper dissolving and disposal tests of different paper products.

TASK 5O –CONTINUE TO PUBLISH STORMWATER QUALITY RELATED EVENTS AND ARTICLES IN THE LOCAL NEWSPAPER

Performance: Publish articles four times annually.

The City published 12 pollution prevention articles in the local paper, the Echo. The Echo is a local paper published monthly. Each month the Environmental Specialist publishes upcoming events or pollution prevention tips.

TASK 5P –CONTINUE CITY MERCURY ELIMINATION PROGRAM OUTREACH

Performance: Conduct outreach campaign and advertise one or more mercury disposal days, annually.

Continued to conduct mercury elimination outreach to residents and businesses in American Canyon. Although a specific Mercury Disposal Day was not developed, the City ran a continuous advertisement throughout the year in the Monthly Newspaper, handed out brochures at events, and kept specific brochures at the Public Education wheel at City Hall, including the Phone Book Recycling Guide.

6. OUTREACH TO SCHOOLS

TASK 6F – REVIEW NCSWMP DEVELOPED MATERIALS

Performance: Incorporate at least one educational item or activity from NCSWMP materials

Schools receive outreach from the Napa County Resource Conservation District (contracted by Napa County). A presentation entitled "Pollution Soup" was given to three classes at Canyon Oaks Elementary School. The City did not review or incorporate any educational items or activities from the NCSWMP during this reporting year.

TASK 6G – CONTINUE TO CONDUCT STORMWATER AND POLLUTION PREVENTION PRESENTATIONS TO THIRD GRADE CLASSES

Performance: Continue to conduct six presentations to schools annually.

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The City made six presentations to Napa Junction Elementary School and Donaldson Way Elementary School, providing outreach to approximately 150 students, and five presentations American Canyon Middle School, providing outreach to approximately 240 students. Presentations included using a diorama that illustrates Point and Non-Point Source Pollution, along with the video "Where Does It All Go."

The presentations for the elementary students focused on bringing the students' awareness to the relationship of the community with local waterways and on how to prevent and reduce the impacts from pollution. The presentations for the middle school students focused on conserving natural resources for future generations.

In addition to the presentations at the schools, approximately 100 students from Canyon Oaks Elementary took field trips to the Water Treatment Plant, the Waste Water Treatment and the Recycling Facility. At the Water Treatment Plant, the students were given tours of the plant and were educated on how water is treated. They were also made aware of the effects of pollution on their drinking water. At the Waste Water Treatment Plant, the students watched the video "Where Does It All Go," toured the facility, and worked at two learning stations that included what can be flushed down the toilet and pH testing. At the end of the tour, the students were given a bag of goodies that included the Napa County Recycling Guide, the American Canyon Recycling Guide, a Stormwater Brochure "After the Storm", information about the Napa Vallejo Household Hazardous Waste Facility, and a coloring book on Protecting the Environment and Wastewater Treatment Plants.

ELEMENT II – PUBLIC INVOLVEMENT AND PARTICIPATION

4. CREEK CLEANUPS

TASK 4. COAST AND CREEK CLEANUP DAY

Performance: Increase garbage collected and number of participants.

The City holds Fall Clean Up Day, a 1-day event, annually. The event was held on September 16, 2006 from 9 am – 12 pm. Approximately 54 volunteers participated and collected trash and recyclables (separated). After the cleanup activities, the City provided food, drinks and prizes along with informational goody bags. The information included in the goody bags included the Napa County Recycling Guide, the brochures "After the Storm, Every Citizens Guide to Stormwater Runoff," a recycle oil flyer, and mercury elimination brochure.

The decrease in the quantity of trash and recyclables may indicate that the City's outreach to the public has been effective in bringing awareness to the issues related to litter. The yield at the 2005 event was 9 cubic yards of trash and 1 cubic yard of recyclables, while the 2006 yield was only 7 cubic yards of trash and 1 cubic yard of recyclables.

ELEMENT III – ILLICIT DISCHARGE DETECTION AND ELIMINATION

1. LEGAL AUTHORITY

TASK 1H – DOCUMENT ENFORCEMENT RESPONSE PLAN (ERP).

Performance: Document Enforcement Response Plan.

The Enforcement Response Plan for Illicit Discharges was completed.

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TASK 1I – ERP TRAINING.

Performance: All relevant staff trained annually.

The Environmental Specialist is the primary responder for reports of illicit discharges. The City staff is aware of the Environmental Specialist's responsibilities and the appropriate protocol to report a suspected illicit discharge. The Environmental Specialist works closely with the City's Code Enforcement Officer and completes refresher training annually regarding the protocol for responding to reports of illicit discharges.

The ERP training has been successful in training inspectors and the Environmental Specialist, as shown by the Environmental Specialist's performance. During this reporting period, the Environmental Specialist responded to 18 (95%) of the 19 reported illicit discharge complaints. An alternate inspector responded to 1 complaint.

2. SPILL RESPONSE

TASK 2A – REPORTING FORMS AND DATABASE.

Performance: 1. Database and reporting forms developed

2. Provide staff training on use of forms.

1. The database and reporting forms have been developed. The City uses the illicit discharge complaint, investigation and follow-up forms. The forms are used for each complaint, and then the information is entered into the database for tracking and reporting purposes.

2. The City staff (the Environmental Specialist and one alternate inspector) who respond to illicit discharges was officially trained on the use of the forms.

By having the same form and database for every local program, the database reports can be used to indicate to the Program Managers the effectiveness of programs in Napa County, as well as the need for specific types of outreach that may be indicated and in which particular area of Napa County.

TASK 2D – STAFF TRAINING

Performance: Training program has been developed.

The City developed a training program for the Spill Response Plan. The primary responder is the Environmental Specialist; additional staff that may respond to illicit discharges were also trained.

TASK 2G RECORD KEEPING

Performance: Annual Reports generated on time.

The City submitted the 05/06 annual report on the mandatory due date. The City began using many of the forms already developed by the County-wide Program, as well as the Access databases created by the County-wide Program.

The City recorded complaints as they came in, indicating the contact information, date and time, associated activity, location, quantity and type of pollutant, and the responsible party, along with other information unique to the incident. The City also performed investigations of the complaints and recorded the findings, and then followed up on the incidents through completion of the abatement of the incidents and recorded observations and notes.

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During this reporting year, the City recorded 19 complaints. The breakdown of the types of activities related to the complaints were as follows:

| Activity | Number of Complaints | Percentage |
|---------------------------|-----------------------------|-------------------|
| Landscaping | 6 | 32% |
| Illegal Dumping | 1 | 5% |
| Surface Cleaning | 1 | 5% |
| Construction/Grading | 3 | 16% |
| Other: | | |
| Painting (House) | 2 | 11% |
| Auto/Truck Accident | 2 | 11% |
| Pool Cleaning | 1 | 5% |
| Process Discharge | 1 | 5% |
| Unsubstantiated Complaint | 1 | 5% |
| Undetermined Cause | 1 | 5% |
| Total | 19 | 100% |

Implementation of the recording process and having the ability to produce reports has provided a valuable tool for beginning to identify which areas and activities require additional outreach. The reports are also valuable in tracking the types of discharges, public awareness and whether discharges were prevented from entering the storm drains and/or waterways.

The reports for this reporting period indicate that complaints were reported in relatively similar numbers by citizens, maintenance crews, inspectors and the Fire Department as in the 2005-2006 reporting period. Communication of details regarding illicit discharges has increased, providing important information about what categories of activities the City will target for additional outreach. The City will continue to improve the reporting procedures and record the records in the database. Personnel will continue to be trained on reporting, inspection and follow-up procedures to document the complete abatement of the incidents as they occur. The City will also utilize the reporting features of the data base to provide periodic reports of discharges within the City.

3. STORM DRAIN SYSTEM MAPPING

TASK 3H – DRAW FINAL MAP

Performance: The drainage system map was completed and was available to staff responding to illicit discharges in FY 06/07.

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4. BUSINESS INSPECTIONS

TASK 4B – DISTRIBUTE BMP BOOKLETS

Performance: BMP booklets distributed to businesses during routine inspections and with permit applications.

The Environmental Specialist distributed the appropriate BMP brochure and surface cleaner guide during routine stormwater inspections. The effectiveness of the outreach and the materials may be evaluated in the future by monitoring the compliance of businesses with stormwater BMP requirements.

TASK 4C – DEVELOP INSPECTION FORMS AND DATABASE

Performance: Forms and database were developed.

During the 2006-2007 reporting year, the City began the County-wide Program's database for inspections.

TASK 4D – TRAINING

Performance: Annual training for inspectors as appropriate

The Environmental Specialist is currently the only staff person performing Stormwater Business Inspections. Since joining the NCSWMP, there will be more opportunities for Business Inspection Trainings.

TASK 4E – INSPECTIONS (FOOD SERVICE FACILITIES)

Performance: Inspect at least 50% of restaurants annually.

Of 18 restaurants that were opened and operating in the City during the 2006-2007 reporting period, 6 facilities (33%) were inspected. The City refers to these inspections as Compliance Assistance Audits. Of the 6 facilities inspected, 3 were observed to have practices that produced potential illicit discharge situations. The food service facilities with the potential for illicit discharges were provided with information and received written comments on the activity that could lead to an illicit discharge.

TASK 4F – HAZARDOUS MATERIAL/WASTE HANDLING AND DISPOSAL

Performance: Napa County/American Canyon Recycling Guides were handed out at stormwater business inspections.

The recycling guides contain information on Hazardous Materials/ Waste Handling and Disposal. It directs residents and businesses to the NVWMA Household Hazardous Waste Facility.

TASK 4G – INSPECTIONS (HAZARDOUS MATERIALS BUSINESS PLAN FACILITIES)

Performance: Stormwater business inspections for facilities that have hazardous materials business plans were conducted.

The City is in the continuing to try to identify those businesses within the City limits that have hazardous materials business plans in place with Napa County. Four facilities with known Hazardous Materials Business Plans that were inspected during this reporting period.

TASK 4K – INSPECT NPDES PERMITTED FACILITIES

Performance: Complete inspections of the NPDES Permitted Facilities.

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The remaining three facilities were inspected during this reporting period. The NPDES permitted facilities will now be inspected annually.

TASK 4M – IMPLEMENT THE INSPECTION PROGRAM FOR THE PRIORITIZED LIST OF BUSINESSES

Performance: Report inspection and enforcement types and quantities in the annual report.

The Business Inspection Program was implemented in December 2005. There were a total of 163 that were identified requiring inspections as per the priority list. Initial site visits were used as outreach opportunities where educational information was provided. None of the businesses were observed to have major violations.

TASK 4N – DETERMINE HOW MANY BUSINESSES HANDLE HAZARDOUS WASTE MATERIALS AND WASTE

Performance: Create an inventory of businesses handling hazardous wastes and waste materials.

The Hazardous Materials Business Plan Inspection Program was in its second year of implementation. The City anticipates completing the list of businesses handling hazardous materials and waste in FY 07/08.

ELEMENT IV - CONSTRUCTION SITE RUNOFF CONTROL

1. LEGAL AUTHORITY

TASK 1B – EVALUATE ORDINANCE

Performance: Ordinance evaluated. No changes are needed at this time.

The City's storm water ordinance properly addresses erosion and sediment control for construction. It gives the DPW full authority to require proper BMPs for projects.

TASK 1C – ENFORCEMENT RESPONSE PLAN (ERP)

Performance: Enforcement Response Plan documented.

The Enforcement Response Plan was revised. If an owner of a site does not comply in a timely manner, a correction notice will be given. Currently, it is the City's Construction Inspectors' responsibility to serve notices of violation.

TASK 1D – ERP TRAINING

Performance: Staff has been trained on the ERP procedures and policies.

The City provided training upon finalization of the Enforcement Response Plan.

2. PLAN REVIEW

TASK 2A – DEVELOP PLAN REVIEW PROCESS

Performance: Plan review process is being developed

The City plan review and inspection staff checks each project to ensure the proper procedures are taken. The contractor must provide an NPDES Notice of Intent (NOI) or a WDID number prior to beginning work on projects disturbing 1 acre. Plans & Specifications are also routed to the Public Works Department for review.

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TASK 2B. DRAFT TRAINING MATERIALS

Performance: Training program developed.

The Plan Review Committee meets on a regular schedule to review the status of projects under construction and proposed projects. The Committee also discusses how to better communicate BMP concerns to permit applicants.

TASK 2C. IMPLEMENT TRAINING PROGRAM

Performance: One training session held.

A training session attended by the planning, building, engineers, city attorney, and public works staff provided an overview of NCSWMP's plan review process along with Post Construction BMP requirements. The plan review committee meets bi-weekly to go over existing projects and those under plan review.

TASK 2D. IMPLEMENT PLAN REVIEW PROCESS

Performance: Plan review process implemented.

The City continues to address stormwater issues through direct review of individual projects, meetings with project applicants as well as internal project review meetings.

3. INSPECTIONS

TASK 3D. IMPLEMENT TRAINING PROGRAM

Performance: Training program implemented.

The County-wide Program conducted training for the City's Environmental Specialist. The training program included a power point presentation that provided an overview of the Construction NPDES permit requirements, quantifiable targets in the SWMP for conducting inspections, prohibitions in the local stormwater ordinances, appropriate enforcement actions for violations. The presentation also included pictures of good, bad, and ugly construction sites in Napa County in previous years and an inspector demonstrated how to fill in a table identifying the applicable BMP requirement observed and evaluation of its implementation as "effective, not implemented, poorly installed, or needs maintenance." After the classroom training was complete, the class visited a construction site. The Environmental Specialist and a Napa County representative also provided training to the Public Works Maintenance staff.

TASK 3E. IMPLEMENT INSPECTION PROGRAM

Performance: Inspect five construction sites within 48 hours of a major (>0.25 inches) storm event.

During FY 06/07, Engineering Construction Inspectors inspected at least six year-long construction sites during storm events. Inspections were coordinated between the Engineering Construction Inspectors and the Public Works Environmental Specialist.

The City is a relatively small community, growing very rapidly. Only two Engineering Inspectors were available to perform inspections, and they covered six year-long projects, four 8-month projects, and four 2- to 4-month projects. Inspectors are onsite on a daily basis. In future years the City will use the construction site inspection database developed by the County-wide Program.

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4. OUTREACH

TASK 4B. PROVIDE BMP MATERIALS TO THE PUBLIC

Performance: Outreach materials provided to public upon request.

The Environmental Specialist provided the “Erosion and Sediment Control Field Manual” (SFBRWQCB) to the City’s Engineering staff and the “Stormwater Best Management Practice Handbook for Construction” (California Stormwater Quality Association) for reference during Pre-Construction Meetings. There are also brochures located in the Education Wheel at City Hall for the public.

TASK 4E. CONSTRUCTION SITE EROSION CONTROL WORKSHOP

Performance: Five City staff attended various construction site runoff control for Phase I and II in FY 06/07.

Proper BMP and site design were the main components of the workshops. The Maintenance Supervisors, who attended the workshop, are responsible for the majority of the maintenance activities where runoff is an issue. The Supervisors conduct on-the-job-training with the crews.

ELEMENT V – POST-CONSTRUCTION RUNOFF MANAGEMENT

1. LEGAL AUTHORITY

TASK 1B. EVALUATE AND REVISE ORDINANCE

Performance: Ordinance evaluated and revised.

The revised ordinance states that the “Authorized Enforcement” as the: Director of Public Works or his or her designee.

TASK 1C. ENFORCEMENT RESPONSE PLAN (ERP)

Performance: The ERP was revised and is currently under review.

The ERP will be finalized in FY 07/08.

TASK 1D. ERP TRAINING

Performance: Enforcement Response Plan is being revised.

The ERP will be finalized in FY 07/08. Training will be provided upon finalization of the plan.

2. DESIGN STANDARDS

TASK 2A. INTRODUCTORY TRAINING

Performance: Training conducted

The Attachment 4 Design Standards continue to be used.

TASKS 2B THROUGH 2V. ADOPT STANDARDS IN ATTACHMENT 4.

Performance: The City is in the process of reviewing and finalizing the design standards.

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3. PLAN REVIEW

TASK 3A. DEVELOP PLAN REVIEW PROCESS

Performance: Plan review process revised to incorporate new requirements for post-construction.

Due to the uniqueness of each project, standardized post-construction requirements have not been adopted by the City. The City uses Napa County guidelines and the C3 guidelines to determine post-construction requirements for each unique project.

TASK 3B. DEVELOP TRAINING PROGRAM

Performance: Training program developed.

Post-Construction Requirements were not adopted by the City. The City Engineers determine specific post-construction requirements for each project, and the Engineering Inspectors are trained on each project.

TASK 3C. IMPLEMENT TRAINING PROGRAM

Performance: Inspection program implemented. Ensure that 100 percent of the participants understand the requirements. Hold one training session per year.

Post-Construction Requirements were not adopted by the City. The City Engineers determine specific post-construction requirements for each project, and the Engineering Inspectors are trained on each project.

TASK 3D. ADOPT PLAN REVIEW PROCESS

Performance: Process implemented; require all construction sites >1 acre to incorporate appropriate structural and/or nonstructural controls.

Post-Construction Requirements were not adopted by the City. The City Engineers determine specific post-construction requirements for each project and require the consultants/contractors to incorporate them.

4. LONG-TERM MAINTENANCE

TASK 4B. IDENTIFY ALL STRUCTURAL CONTROLS OPERATED BY THE MUNICIPALITY.

Performance: Identified structural controls operated by the City.

The City Public Works maintains a list of all post construction BMPs identified by address, project, developer and which type of BMP is in place.

TASK 4C. DEVELOP INSPECTION AND MAINTENANCE SCHEDULE.

Performance: An inspection and maintenance schedule has been initiated. Although the catch-basin maintenance has been documented, documentation of other operation and maintenance (O&M) sites has not been formalized.

TASK 4D. TRAIN MAINTENANCE STAFF.

Performance: One Public Works Maintenance employee has been trained in performing long-term BMP O&M.

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TASK 4E. IMPLEMENT MAINTENANCE SCHEDULE.

Performance: A formal maintenance schedule has been initiated but is not complete.

TASK 4F. DEVELOP POLICY.

Performance: Develop policy for long-term maintenance of BMPs.

The City is in the process of developing a policy for long-term maintenance of BMPs.

ELEMENT VI – MUNICIPAL OPERATIONS

1. Street Sweeping

TASK 1A. STREET SWEEP ACCORDING TO TABLE 8.

Performance: Street sweeping continues.

Street sweeping occurs every 2 weeks. All new developments that the City took possession of are included on the street sweeping schedule.

TASK 1E. SWEEPING PROGRAM EVALUATION

Performance: Evaluate and make recommendations.

The street sweeping operations are an important part of the SWMP. The City continues to grow, and more areas need to be evaluated. There are more cars on the streets that will have to be addressed as suggested in Task 1H-1J.

TASK 1G. STAFF AND CONTRACTOR TRAINING

Performance: The City uses a contractor for street sweeping.

The street sweeper complies with the schedule and will also come out as on an as-needed basis upon request from the City.

TASK 1H – 1J. PARKED AND ABANDONED VEHICLES

Performance: Assessment of areas with high numbers of parked and abandoned vehicles was not completed. Pilot programs were not developed or implemented

The city had priority tasks that were being completed in order to become compliant with its storm water permit.

This task will be completed in FY 07/08

TASK 1M – 1O. LEAVES DURING LEAF SEASON

Performance: Assessment of areas with high volume of leaves was not completed. The Outreach pilot programs was not developed or implemented.

The city had priority tasks that were being completed in order to become compliant with its storm water permit.

This task will be completed in FY 07/08

TASK 1R – 1 T. TREES INTERFERING WITH STREET SWEEPING

Performance: Assessment of areas with trees interfering with street sweeping was initiated by not completed. A Pruning & Abatement Program is active and managed by the Public Works Street Superintendent.

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2. Storm Drain Maintenance

TASK 2A. DEVELOP MAINTENANCE STANDARDS

Performance: Standards developed.

The City's Street Maintenance Division continues to perform this action. The crew uses the Vactor truck to clean out drains and collects the debris, which is then disposed of by the garbage contract at an offsite landfill.

TASK 2B. STORM DRAIN MAINTENANCE TRAINING

Performance: Train staff on use of BMPs.

The Public Works Streets Supervisor attends various on-going BMP training and provides on-the-job-training to the Streets crews.

TASK 2C. ROUTINE INSPECTION AND CLEANING

Performance: The City inspects and cleans stormdrains annually prior to the rain season.

The Public Works Streets Maintenance Supervisor is responsible for this task. The crew is scheduled to inspect each storm drain before the end of the dry season, assess the storm drain for prioritizing, and then a cleaning schedule is generated. The City inspected 100 percent of the storm drains before the onset of the rainy season.

TASK 2D. ASSESS THE NEED FOR MORE FREQUENT CLEANING OF STORMDRAINS

Performance: Assessment Complete.

The City began assessing the need for more frequent cleaning of stormdrains during FY 06/07. The City will continue the assessment during the FY 07/08.

TASK 2E. STORM DRAIN STENCILING MAINTENANCE

Performance: The City of American Canyon has a storm drain marker program

At the end of the summer the crews inspect each storm drain and document which drains need markers then when an opportunity arises the crew will replace or add markers where needed.

4. Litter Control

TASK 4A. SERVICES

Performance: The City has litter receptacles at parks, in most public areas, and at bus stops. The receptacles were checked and emptied by City crews twice each week.

TASK 4B. ASSESSMENT

Performance: Assessment completed; recommendation implemented.

The City continually monitored the amount of trash at all its receptacles. There were pickups on Mondays and Fridays at the parks. This is the same protocol used for City sport fields. The Environmental Manager is working with the Parks Maintenance Supervisor to place recycling containers at the parks most used.

TASK 4D. PET WASTE

Performance: The City has provided Mutt Mitts in areas where there are large numbers of people walking dogs.

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The Parks Maintenance division renews the supply of Mutt Mitts. Mutt Mitt containers were installed at new parks and walkways.

TASK 4E. INVENTORY TROUBLE SPOTS

Performance: The Parks Division inspects areas during their daily routines to identify and maintain trouble areas.

5. Corporation Yard

TASK 5A-D. PREPARE SWPPP

Performance: A SWPPP was prepared and finalized.

The City prepared and implemented the SWPPP.

6. Road Maintenance

TASK 6B. DEVELOP MAINTENANCE STANDARDS

Performance: Standards Adopted

The Public Works Street Maintenance Division adopted maintenance standards. The crew uses appropriate BMPs while doing creek work, cutting concrete, pouring concrete and painting the roadways.

TASK 6C. TRAINING

Performance: The Public Works Street Supervisor provides on-the-job-training to the crews.

The Street Supervisor attended the erosion and sediment control workshops and discusses updated information with his crews.

Task 7. Creek and Ditch Maintenance

TASK 7B. RECORD KEEPING

Performance: The City conducts maintenance work according to the California Department of Fish and Game (DFG) standards.

The City has an ongoing Memorandum of Understanding (MOU) with DFG for stream maintenance. The City conducts the work according to standards put fourth in the MOU, including performing maintenance in late summer when water flow is low and using BMPs.

Forms and a database are not currently used. The Environmental Specialist will review the forms and database developed by the NCSWMP in FY 07/08 to assess whether it would be a useful tool for the City.

TASK 7C. TRAINING

Performance: On-the-job training conducted.

The Public Works Street Supervisor continually trains the crew at new sites. The Supervisor uses the Erosion Control Handbook (SFRWQCB) as a reference and guide.

8. Parks & Recreation Facilities

TASK 8A. ASSESS THE CONDITION OF PARKS AND RELATED

Performance: Two parks (Community Park 1 and Kimberly Park) were assessed for pollution prevention measures.

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TASK 8C. TRAINING

Performance: All relevant staff were trained.

The Parks Maintenance Division staff has been trained on use of Pesticide/Herbicide and on Erosion and Sediment Control in during FY06/07.

9. Other Municipal Activities

TASK 9A. PRIORITIZE

Performance: Municipal activities prioritized

The City began working on a request for proposal (RFP) for an Integrated Water Management Plan that will evaluate the watershed with regard to surface and ground water, waste water, storm water quality, flood control and habitat in FY 06/07. The City will continue working toward this end in FY 07/08 in order to prioritize all municipal activities.

GOALS AND MODIFICATIONS FOR FY 07/08

III. ILLICIT DISCHARGE DETECTION AND ELIMINATION

MODIFICATIONS TO MEASURABLE GOALS

TASK 4N DETERMINE HOW MANY BUSINESSES HANDLE HAZARDOUS WASTE MATERIALS AND WASTE

Performance Measure: Create an Inventory of businesses handling hazardous wastes and waste materials.

The City is still conducting baseline business surveys. An inventory cannot be completed until all businesses have been inspected. This performance measure will not be completed until the 08/09 reporting year.

IV. CONSTRUCTION SITE RUNOFF CONTROL

MODIFICATIONS TO MEASURABLE GOALS

TASK 1C. ENFORCEMENT RESPONSE PLAN

Performance Measure: Document enforcement response plan

The Enforcement Response Plan is under revision. The final draft will be available in the FY 07/08.

TASK 1D. ERP TRAINING

Performance Measure: All relevant staff trained annually

The Enforcement Response Plan is under revision. For Stormwater related incidences, the Environmental Specialist will be the enforcement official. The ERP will be distributed to all Construction Site Inspectors.

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TASK 2B. DRAFT TRAINING MATERIALS

Performance Measure: Training program developed.

The City has not adopted Construction Site BMP requirements. The Plan is still being revised to be suitable for the City of American Canyon. The plan will be finalized in the 07/08 reporting year.

TASK 2C. IMPLEMENT TRAINING PROGRAM

Performance Measure: Relevant staff trained annually

The Plan review has not yet been finalized. When it is finalized, than the training will occur. This will take place in the 07/08 reporting year.

V. POST-CONSTRUCTION RUNOFF MANAGEMENT

MODIFICATIONS TO MEASURABLE GOALS

TASK 1C. ENFORCEMENT RESPONSE PLAN

Performance Measure: Document enforcement response plan

The Enforcement Response Plan is under revision. The final draft will be available in the FY 07/08.

TASK 2B – 2V. ADOPT DESIGN STANDARDS

Performance Measure: Adopt standards.

The City is currently reviewing the design standards. The City may adopt these standards in the FY 07/08.

TASK 3A-3D. PLAN REVIEW PROCESS

Performance Measure: Develop and adopt plan review process to incorporate design standards. Develop and implement training program on plan review process.

Due to the uniqueness of each project, the City Engineers determine specific post-construction requirements for each project. The City requires the consultants/contractors to implement the specific requirements, and the Engineering Inspectors are trained on a project-specific basis. The City proposes to delete this from the City's Goals.

TASK 4C – 4F. LONG TERM MAINTENANCE

Performance Measure: Inspection and maintenance schedule; training program for staff, policy.

The City assumes the maintenance responsibility of the post construction BMPs and has begun documenting the schedule and maintenance. Documentation of the program will continue in FY 07/08.

VI. MUNICIPAL OPERATIONS

MODIFICATIONS TO MEASURABLE GOALS

1. STREET SWEEPING

TASK 1H – 1J. PARKED AND ABANDONED VEHICLES

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Performance Measure: Pilot Program for parked and abandoned cars

Assessment of areas with high numbers of parked and abandoned vehicles was not completed. Pilot programs were not developed or implemented.

This task will be implemented in FY 07/08. There are numerous new developments being built in the city. This task will benefit the city when the developments are more complete.

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OVERVIEW AND MAJOR ACCOMPLISHMENTS

FY03/04

The majority of the 1st year measurable goals involved program development and training. The major accomplishments included:

1. Established authority to prohibit illicit discharges and require runoff controls for development projects
2. Developed an enforcement response plan for enforcing the local stormwater ordinances.
3. Stormwater Standards Maintenance Manual was adopted that included standards and BMPs for street sweeping, storm drain maintenance, stormwater pump stations, road and street maintenance, and creek and ditch maintenance. Relevant staffs were trained on the standards and the BMPs in the manual.

FY04/05

1. Began formal implementation of the construction inspection program.
2. Implemented interim post construction best management practices standards for new construction/redevelopment projects.

FY05/06

1. Continued inspections of Food Service Facilities and Business Plan Facilities.
2. Continued implementation of the construction inspection program.
3. Adopted post construction best management practices standards for new construction/redevelopment projects.

FY06/07

1. Completed a draft SWPPP for corporation yard.
2. Began construction inspection database to improve management of the construction inspection program.

SUMMARY AND EVALUATION FOR FY06/07

ELEMENT I – PUBLIC EDUCATION AND OUTREACH

2. OUTREACH TO LOCAL GOVERNMENT OFFICIALS

TASK 2C – ANNUAL PROGRESS REPORTS

Performance: Presentation given to City Council on November 21, 2006.

Graham Wadsworth, Senior Civil Engineer presented an update on the stormwater management plan to the City Council on November 21, 2006. The status report consisted of an overview of the SWMP accomplishments for FY06/07, major goals that must be completed before the end of the year, and the status of funding for the program.

TASK 5B – TRASH CAN DECALS

Napa Recycling & Waste Services continues to mark all trash containers provided for residential use with bilingual (English and Spanish) decals with information about proper disposal of hazardous waste and used oil.

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TASK 5C NAPA-VALLEJO HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY

Household hazardous waste may be dropped off by Napa residents at no charge on every Friday and Saturday. Items accepted include insecticides, paints, thinner, solvents, cleaners, syringes, outdated medicines, BBQ propane tanks, old gasoline, batteries, automotive fluids, and fluorescent bulbs.

An E-Waste recycling event was also held on December 9, 2006. At this event old computers, monitors, printers, television sets and other outdated electronic items were collected for proper recycling.

TASK 5I – YELLOW PAGES RECYCLING GUIDE AND RADIO ADVERTISEMENT.

The July 2007 AT&T Napa Yellow Pages include a tabbed recycling guide which provides 21 pages of information regarding reduction of waste, reuse and recycling for Napa County, Two of the pages are provided in Spanish

ADDITIONAL ACCOMPLISHMENTS

The Napa Public Works Water Division sponsored a series of free workshops on how to reduce water consumption. The workshops included; understanding drip irrigation, water-wise site preparation and selecting water-wise plants.

ELEMENT II – PUBLIC INVOLVEMENT AND PARTICIPATION

5. STEWARDSHIP GROUPS

TASK 5A – SALVADOR CREEK STEWARDSHIP

Performance: The City of Napa continued to support the Salvador Stewardship Group.

The Group participates in Coastal Cleanup Day by cleaning sections of the creek. The focus of the Salvador Creek Stewardship Group continues to be on prevention of creek bank erosion and increasing the capacity of the creek to carry flood flows.

OTHER PUBLIC INVOLVEMENT

Coastal Cleanup Day Creek/River clean ups were conducted at six locations in Napa; Napa River beneath the Butler bridge, Napa River at Kennedy park, Napa River along Riverside Drive, South Wetland Opportunity Area, Napa Creek, and Salvador Creek. Over five hundred volunteers participated county-wide. It was estimated that 10,980 pounds of trash and 2,157 pounds of recyclable items were picked up.

ELEMENT III – ILLICIT DISCHARGE DETECTION AND ELIMINATION

TASK 1D AND 2E TRAIN STAFF – ENFORCEMENT RESPONSE PLAN FOR ILLICIT DISCHARGES

Performance: Training on the enforcement response plan was provided to PW and CDD (Community Development Department) staff.

On January 7, 2007 the Public Works Director for the City of Napa made the following appointments:

In accordance with Chapter 1.20.030 B of the Napa Municipal Code (NMC), "Persons authorized to make arrests, issue citations"; and Chapter 8.36 NMC, Stormwater Runoff Pollution Control ordinance, section 8.36.030 A. 8, "Enforcement Official". I

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hereby designate the following City staff as my deputies and enforcement officials authorized to enforce compliance with Chapter 8.36:

- Sam Jones, Associate Civil Engineer
- Greg Dietrich, Construction Inspector
- Karen Harnois, Senior Engineering Aide

These designations will remain in force until superseded by an updated appointment memo. You shall become familiar with the provisions of Chapter 8.36 and with section 1.24 of the NMC (copies attached).

Training was provided by CDD following the appointments on the proper way to write and issue citations to enforce the Stormwater Runoff Pollution Control ordinance. Material from EPA Web based training, Illicit Discharge Detection and Elimination 101, September 12, 2006, was utilized by one engineer. Additional training of staff and investigation tools/supplies are needed to improve investigations.

TASK 2G – RECORD KEEPING

Performance: Data of illicit discharge complaints, investigations, and enforcement was maintained.

The DPW tracked the status of illicit discharge incidents with the database developed by the County-wide Program. In FY06/07 a total of 9 complaints were entered in the database by the DPW, of which, 9 were investigated and 9 were abated. (A copy of report from data base is attached). Additional complaints were received and investigated but not entered into the data base. Additional effort and training will be done to improve data record keeping.

3. STORM DRAIN SYSTEM MAPPING

TASK 3C AND 3G – FILL IN DATA GAPS

Performance: Data gaps filled in.

The City of Napa stores hard copy of storm drains plans at the Public Works Department plan room. These plans typically show the location of storm drains, slope of pipe, diameter of pipe, location of manholes and catch basins, and type of pipe material (typically reinforced concrete pipe. As new subdivisions, capital improvement projects, or other construction is approved plans are added to this plan room. An Access data base is maintained to more easily find drawings in the plan room.

There are two index maps showing the City's storm drain system. The older index map is hand drawn on Napa Sanitation District base maps. The newer index map is drawn with computer aided drafting (CAD) using AutoCAD software. Engineering Aides for the City keep these index maps up to date.

The City has a geographic information system (GIS) which includes storm drain information from CAD files.

Keeping the storm drain index maps and GIS system up to date is a challenge because of limited staff and lack of GIS support. The existing mapping has been adequate for illicit discharge investigations.

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4. BUSINESS INSPECTIONS

TASK 4D – TRAINING

Performance: One team inspection conducted.

The DEM conducts stormwater inspections at restaurants and business plan facilities on behalf of the City of Napa. The CPC works with the DEM to develop BMPs for businesses, conduct outreach, and implement the inspection program.

Only one inspector received documented training in FY06/07. This training was a team inspection at a winery with the CPC and an inspector from the RWQCB. The site was a good example of the difficulty in tracing the path of stormwater runoff in the unincorporated areas of the County. After tracing the stormwater path from the crush pad we concluded that in the event of a release, the wastewater would not reach the Napa River or any other receiving water due to the topography of the land. This was a good exercise for the inspector to think about stormwater connectivity.

This was the only documented training in FY06/07 due to a large turnover in inspectors. Only one food service inspector and one CUPA inspector was retained and the DEM was still in the process of refilling some of the inspector positions at the end of the FY. A formal training will be conducted for all the food service and CUPA inspectors when the positions are expected to be filled in early FY07/08.

TASK 4E – INSPECTIONS (FOOD SERVICE FACILITIES)

Performance:

TASK 4G – INSPECTIONS (BUSINESS PLAN FACILITIES)

Performance: 6% of business plan facilities inspected in the unincorporated area of Napa County.

The DEM conducted stormwater inspections at 5 business plan facilities out of the 86 non-exempt facilities in the City of Napa. The performance measure was not reached due to the loss of 2 CUPA inspectors in FY06/07.

In FY06/07 the County-wide Program completed the development of a database to track compliance and enforcement actions at business plan facilities. This database is not yet in use by the inspectors to manage their work, but the CPC entered the available inspection data into the database to summarize the effectiveness of the inspection program.

Based upon the inspections conducted by the DEM in the unincorporated area, the City of Napa, and Napa County, 51% of the facilities were in compliance with the local stormwater ordinance, 30% had the potential for an illicit discharge, 7% had an actual discharge, and 10% were in violation for paperwork-related issues like not having a SWPPP onsite. The most common violations related to a potential or actual discharge included debris and other pollutants in storm drains (14% of inspections), not maintaining a spill kit in the fueling area (11% of inspections), and outdoor hazardous material storage (7% of inspections). An administrative order to correct the violations was issued for each of the facilities not in compliance.

At this time it is difficult to summarize the follow-ups to violations documented during inspections because the inspectors have not started using the database. The database includes a form that the inspectors will use to document follow-ups and resolutions to violations of local stormwater ordinances. The inspectors will begin to use the database in

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early FY07/08 when the database will be installed on their tablets. The tablets will allow the inspectors to maintain the database in the field and in the office.

ADDITIONAL ACCOMPLISHMENTS

The Napa Police embarked on a program to reduce the number of shopping carts thefts. Shopping carts are abandoned under bridges and in creeks and in the Napa River. Under the crackdown anyone spotted with a grocery cart outside of an area where it belongs will be cited for theft.

Napa City officials, law enforcement officers and advocates for the homeless meet in March 2007 to discuss concerns about homeless people in the city. The Police Department received a state grant and hired two part-time homeless outreach workers. Human waste, trash and damage to creek and river banks by "camps" are some of the concerns being addressed.

ELEMENT IV - CONSTRUCTION SITE RUNOFF CONTROL

1. LEGAL AUTHORITY

TASK 1B - EVALUATE ORDINANCE

Performance: This performance measure was implemented in FY05/06 and shouldn't have been included in the measurable goals table for FY06/07.

TASK 1D – ENFORCEMENT RESPONSE PLAN (ERP) TRAINING

Performance: All relevant staff trained on ERP.

The Public Works department is responsible for enforcing the stormwater ordinance at construction sites in the City of Napa. Most enforcement work is conducted by a Construction Inspector with additional inspections by a Senior Engineering Aide and an Associate Civil Engineer.

The Construction Inspector, Senior Engineering Aide and Associate Civil Engineer attended the construction inspection training conducted by the CPC on October 12, 2006 2006. The training included a discussion of the enforcement actions that may be taken under the local stormwater ordinances.

TASK 1E - EVALUATE AND AMEND ERP

Performance: This performance measure was implemented in FY05/06 and shouldn't have been included in the measurable goals table for FY06/07.

3. INSPECTIONS

TASK 3D. IMPLEMENT TRAINING PROGRAM

Performance: Inspectors to attended trainings.

The Construction Inspector is responsible for conducting inspections at construction sites in the city limits of the City of Napa The Senior Engineering Aide and Associate Civil Engineer also conducted inspections.

The Construction Inspector, Senior Engineering Aide and Associate Civil Engineer attended construction inspection training provided by the county-wide program on October 12, 2007. The focus of this 4-hour training was to review the local and state stormwater regulations regarding BMP implementation at construction sites, how to evaluate and document BMP

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implementation, and taking appropriate enforcement action. The pictures provided lots of good discussion of what constitutes a violation and what does not.

TASK 3E. IMPLEMENT INSPECTION PROGRAM

LOCAL PROGRAM: NAPA COUNTY

Performance: The quantifiable target of inspecting 5 sites within 48 hrs of a major storm event was met.

The winter season was very dry with only four (4) major storm events (>0.25 inches in 24 hours) reported for the City of Napa by www.wunderground.com. The dates for each storm event were November 2, 2006, February 12, 2007, February 22, 2007 and February 26, 2007.

Inspections performed:

| Date | Project Inspected |
|-------------------------|---------------------------------------|
| November 2, 2006 Storm | |
| 11/1/06 | Cottage Cove |
| 11/2/06 | Jefferson gardens |
| 11/2/06 | North Napa Bypass Sewer |
| 11/2/06 | Queen Ann Court |
| 11/2/06 | Trumble Jefferson St. |
| February 12, 2007 Storm | |
| 2/12/07 | Vasser Auto |
| 2/12/07 | Tradewinds |
| 12/14/07 | Apella Subdivision |
| 12/14/07 | Brown/Big Ranch Subdivision |
| 12/14/07 | Cottage Cove |
| February 22, 2007 Storm | |
| 2/22/07 | Coffield Subdivision |
| 2/22/07 | Danby Residence |
| 2/22/07 | Glory Court |
| 2/22/07 | Kaiser Medical data center |
| 2/22/07 | Valley Oak Villas |
| 2/22/07 | West F Subdivision |
| February 26, 2007 Storm | |
| 2/26/07 | Christensen Subdivision |
| 2/27/07 | Main Street West |
| 2/27/07 | QV Hospital Ambulatory Surgery Center |
| 2/27/07 | Zeller Commercial Building |

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2/27/07

Zinfandel Subdivision

A total of 52 inspections (32 more than minimum required) were conducted between October 2006 and April 2007. This was the first year data was put into a data base for City of Napa construction inspections. The data provided on BMP performance is somewhat useful but additional work needs to be done on using consistent standards during inspections, timely data entry, and developing data useful to program management. Copies of two reports-inspection summary, and BMP performance, from the database, are attached.

TASK 4E. CONSTRUCTION SITE EROSION CONTROL WORKSHOP

Performance: Workshops attended by Stormwater Inspector and Assistant Engineers.

There were a total of three workshops that Public Works staff attended which are also described in detail under Task 3D. The Inspector went to all three workshops/trainings and each of the Assistant Engineers attended at least one workshop/training.

Other CONSTRUCTION SITE RUNOFF CONTROL ISSUES

Construction dewatering discharge was a new issue for several projects during the past construction season. Several projects are being built with underground parking garages requiring dewatering systems to be used during construction and in one case during the life of the project. Standards were developed by Public Works staff for Construction dewatering-see attachment____.

ELEMENT V – POST-CONSTRUCTION RUNOFF MANAGEMENT

1. LEGAL AUTHORITY

TASK 1D - ERP TRAINING

Performance: This task is proposed for modification to conduct the training next FY because the County has not adopted its draft post-construction requirements.

2. DESIGN STANDARDS

TASKS 2B THROUGH 2V. ADOPT STANDARDS IN ATTACHMENT 4.

Performance: The City of Napa City Council adopted post-construction best management standards (BMP) at the June 20, 2006 Council meeting. These standards are available online at: <http://www.napastormwater.org/Site/11/67/73/LocalRequirements.aspx> and at <http://www.cityofnapa.org/Menu/MnuDevEngineeringDivision.htm>

3. PLAN REVIEW

TASK 3A-D. PLAN REVIEW PROCESS

Performance: Plan reviews of post-construction BMPs are done in conjunction with standard plan review by the Community Development Department staff and their consultants.

In FY 07/08 it is proposed that aides to the plan review be established such as guides and check lists.

4. LONG-TERM MAINTENANCE

TASK 4C-E INSPECTION AND MAINTENANCE SCHEDULE

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Performance: Long term maintenance of post construction BMPs is required by special conditions established for projects. A data base/inspection program is being developed to track maintenance and to verify that it is being done.

ELEMENT VI – MUNICIPAL OPERATIONS

1. Street Sweeping

TASK 1A. STREET SWEEP ACCORDING TO TABLE 8.

Performance: The DPW continues to use a contractor to sweep the streets according to the schedule in Table 8 of the SWMP.

TASK 1E. SWEEPING PROGRAM EVALUATION

Performance: Based upon visual observations, the sweeping program is effective at keeping sediment, debris, and trash off the streets. No changes to the scheduling or BMPs are proposed.

TASK 1G - STAFF AND CONTRACTOR TRAINING

Performance: The sweeping contractor was trained on the street sweeping schedule and the BMPs established for street sweeping in the Stormwater Maintenance Standards (see RS-1).

2. Storm Drain Maintenance

TASK 2B. STORM DRAIN MAINTENANCE TRAINING

Performance:

City maintenance crews responsible for storm drain maintenance were educated about maintenance standards by their supervisor

TASK 2C. ROUTINE INSPECTION AND CLEANING

Performance: All storm drains were inspected prior to the wet season and cleaned out as needed. Storm drains were also periodically inspected throughout the year and cleaned as needed.

3. Stormwater Pump Stations

TASK 3B-3D STORMWATER PUMP STATIONS

LOCAL PROGRAM: CITY OF NAPA

Performance: City maintenance crews responsible for storm water pump station maintenance were educated about maintenance standards by their supervisor. The wet well was cleaned as part of the pump station's annual maintenance in October 2006.

4. Litter Control

TASK 4A. SERVICES

Performance:

5. Corporation Yard

TASK 5B. DEVELOP SWPPP

Performance: SWPPP developed for corporation yard.

NCSWMP ANNUAL REPORT (FY06/07)

LOCAL PROGRAM: CITY OF NAPA

A draft storm water pollution prevention plan was developed for the City's Jackson Street corporation yard. This draft needs additional work to develop additional best management practices and to evaluate the effectiveness of BMPs.

TASK 5C. IMPLEMENT SWPPP

Performance: SWPPPs not fully implemented.

The SWPPP for the corporation yard was only partially implemented because the SWPPP was developed near the end of the FY. Staff training and full implementation of the SWPPP is proposed for implementation in FY07/08.

6. Road Maintenance

TASK 6C. TRAINING

Performance: City streets are paved and typically have curb & gutter not ditches like county-roads which reduces the City's stormwater impact from road maintenance. Typical, non-emergency, road maintenance activities are scheduled for dry weather. Training is conducted in regular "tail-gate" sessions which includes training on water pollution prevention.

7. Creek and Ditch Maintenance

TASK 7C. TRAINING

The City of Napa does not have a Fish & Game Permit for maintenance work in creeks. Work done in creeks is done directly by the Napa County Flood Control and Water Conservation District or with their supervision of City contractors

8. Parks & Recreation

TASK 8A. ASSESS THE CONDITION OF PARKS AND RELATED

Performance:

All City Parks are inspected weekly. Chemical use is limited to turf fertilizer applications twice a year following best management practices. Pesticide use is done following State of California Department of Pesticide Regulations. Monthly summary reports of all pesticide use are made to the Napa County Agricultural Commissioner's office. Pesticide application on City parks are done by licensed State of California applicators on staff.

TASK 8C. TRAINING

City Park staff attended a number off site trainings regarding storm water runoff and pollution provide by the Pesticide Applicators Professional Association in March and April of 2007.

9. Other Municipal Activities

TASK 9B. ASSESSMENT

Performance: Assessment of facility conditions and operating procedures conducted.

An assessment of municipal operations and their impact on stormwater **was** conducted. The following other municipal operations were identified as having potential stormwater impacts:

Water Distribution maintenance-repair of broken water mains

Building maintenance-cleaning, painting, pest control, fluorescent light tubes, etc.

Vehicle accident emergency response-leaking automotive fluids

NCSWMP ANNUAL REPORT (FY06/07)

LOCAL PROGRAM: CITY OF NAPA

Homeless impacts-trash, human waste

GOALS AND MODIFICATIONS FOR FY07/08

I. PUBLIC EDUCATION AND OUTREACH

GOALS FOR FY07/08

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Public Education and Outreach measurable goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Public Education and Outreach measurable goals.

II. PUBLIC INVOLVEMENT AND PARTICIPATION

GOALS FOR FY07/08

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Public Involvement and Participation measurable goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Public Involvement and Participation measurable goals.

III. ILLICIT DISCHARGE DETECTION AND ELIMINATION

GOALS FOR FY07/08

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Illicit Discharge Detection and Elimination measurable goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Illicit Discharge Detection and Elimination measurable goals.

IV. CONSTRUCTION SITE RUNOFF CONTROL

GOALS FOR FY07/08

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No additions are proposed for the Construction Site Runoff Control Measurable Goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Construction Site Runoff Control Measurable Goals.

IV. POST-CONSTRUCTION RUNOFF MANAGEMENT

GOALS FOR FY07/08

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No additions are proposed for the Post-Construction Control Measurable Goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Post-Construction Runoff Management Measurable Goals.

IV. MUNICIPAL OPERATIONS

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Municipal Operations Measurable Goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Municipal Operations Measurable Goals.

NAPA COUNTY SWMP – ANNUAL REPORT FY 06/07
LOCAL PROGRAM: TOWN OF YOUNTVILLE

OVERVIEW AND MAJOR ACCOMPLISHMENTS

FY03/04

The majority of the 1st year measurable goals involved program development and training. The major accomplishments included:

1. Established authority to prohibit illicit discharges and require runoff controls for development projects
2. Developed an enforcement response plan for enforcing the local stormwater ordinances.
3. Stormwater Standards Maintenance Manual was adopted that included standards and BMPs for street sweeping, storm drain maintenance, stormwater pump stations, road and street maintenance, and creek and ditch maintenance. Relevant staff were trained on the standards and the BMPs in the manual.

FY04/05

1. Adopted Grading Ordinance eliminating mass grading operations during winter months.
2. Began implementation of the construction inspection program.
3. Operation and maintenance standards were adopted for park and recreation facilities.

FY05/06

1. Continued inspections of Food Service Facilities and Business Plan Facilities.
2. Continued implementation of the construction inspection program.
3. Operation and maintenance standards were adopted for swimming pool, fountain, and spa maintenance.

FY06/07

1. Developed post-construction runoff management requirements implemented through the development plan review process.
2. Completed the design of a green waste facility for the Town's Corporation Yard to process all street sweeping and landscape waste.

SUMMARY AND EVALUATION FOR FY05/06

ELEMENT I – PUBLIC EDUCATION AND OUTREACH

2. OUTREACH TO LOCAL GOVERNMENT OFFICIALS

TASK 2C – ANNUAL PROGRESS REPORTS

Performance: Presentation given to Town Council on May 23, 2007.

Myke Praul, Public Works Director/Town Engineer presented a summary of the Storm Water Pollution Prevention Program to the Town Council during budget hearings. The summary was an introduction of a request for additional staff time to administer the program and budget approval of several Capital Improvement Projects that included storm water quality features. Additional approvals are pending the hire of a new Town Manager scheduled for October 2007.

ELEMENT II – PUBLIC INVOLVEMENT AND PARTICIPATION

NAPA COUNTY SWMP – ANNUAL REPORT FY 06/07
LOCAL PROGRAM: TOWN OF YOUNTVILLE

ELEMENT III – ILLICIT DISCHARGE DETECTION AND ELIMINATION

TASK 1D TRAIN STAFF – ENFORCEMENT RESPONSE PLAN FOR ILLICIT DISCHARGES

Performance: Training on the enforcement response plan was provided to one PW staff member to become the administrator of the program.

2. SPILL RESPONSE

TASK 2G – RECORD KEEPING

Performance: There were no reported spills for the reporting year and therefore no reports were generated.

3. STORM DRAIN SYSTEM MAPPING

TASK 3C - 3H – FILL IN DATA GAPS

Performance: Storm drain maps are prepared by an outside consultant and are complete. They are modified as new additions are made to the system.

4. BUSINESS INSPECTIONS

TASK 4D – TRAINING

Performance: Wastewater System Supervisor has received training on business inspections performed by the Town.

The Town does not contract with DEM to perform business inspections for storm water issues. These inspections are included as part of the Town's Fats, Oils and Greases and Water conservation Programs with related inspections. DEM continues to administer the CUPA and food service inspections.

TASK 4E – INSPECTIONS (FOOD SERVICE FACILITIES)

Performance: The Town has initiated an inspection process with local restaurants that includes review of the Fats, Oils and Greases; rubber mat cleaning, parking lot cleaning, storm drain cleaning, post construction facilities and water conservation measures. An initial meeting with restaurant representatives was conducted in March 2007 with a following training to be conducted in the fall. Three facilities were inspected and provided guidance on compliance with the local ordinances.

TASK 4G – INSPECTIONS (BUSINESS PLAN FACILITIES)

Performance: The Town does not provide inspection for CUPA or Business Plans. The Town did amend its CUPA for inclusion of modifications to the Yountville community Swimming Pool located at the Veteran's Home.

ELEMENT IV - CONSTRUCTION SITE RUNOFF CONTROL

TASK 1. LEGAL AUTHORITY

TASK 1B - EVALUATE ORDINANCE

Performance: This performance measure was implemented in FY05/06 and shouldn't have been included in the measurable goals table for FY06/07.

NAPA COUNTY SWMP – ANNUAL REPORT FY 06/07
LOCAL PROGRAM: TOWN OF YOUNTVILLE

TASK 1D – ENFORCEMENT RESPONSE PLAN (ERP) TRAINING

Performance: The Wastewater System Supervisor was trained on ERP.

TASK 1E - EVALUATE AND AMEND ERP

Performance: This performance measure was implemented in FY05/06 and shouldn't have been included in the measurable goals table for FY06/07.

2. PLAN REVIEW

TASK 2C. IMPLEMENT TRAINING PROGRAM

Performance: Plan review is provided by the Public Works Director/Town engineer on all proposed grading projects. Training is ongoing.

TASK 2D. IMPLEMENT PLAN REVIEW PROCESS

Performance: Process has been implemented.

3. INSPECTIONS

TASK 3D. IMPLEMENT TRAINING PROGRAM

Performance: The Wastewater System Supervisor provides the majority of construction inspections with additional coverage provided by the Public Works Director.

TASK 3E. IMPLEMENT INSPECTION PROGRAM

Performance: The quantifiable target of inspecting all sites within 48 hrs of a major storm event was met.

The winter season was very dry with only four (4) major storm events (>0.25 inches in 24 hours) reported for the City of Napa by www.wunderground.com. At least five (5) inspections were conducted within 48 hours of each of these storm events. The Town had a total of three construction projects that involved mass grading; Bardessono Inn, Villagio Inn & Spa and the Gateway Swimming Pool and Clubhouse. Although all three projects are required to conform to the Town's Grading Ordinance and inspection procedures, only the Bardessono Inn Project is over one acre in area.

Daily self inspections of the project were conducted by the contractor and seven Town inspection reports were generated following significant storm events. Winter preparation letters were sent to all active construction projects.

4. OUTREACH

TASK 4E. CONSTRUCTION SITE EROSION CONTROL WORKSHOP

Performance: County workshop attended by Wastewater System Supervisor.

ELEMENT V – POST-CONSTRUCTION RUNOFF MANAGEMENT

1. LEGAL AUTHORITY

TASK 1D - ERP TRAINING

Performance: This task is proposed for modification to conduct the training next FY because the County has not adopted its draft post-construction requirements.

2. DESIGN STANDARDS

NAPA COUNTY SWMP – ANNUAL REPORT FY 06/07
LOCAL PROGRAM: TOWN OF YOUNTVILLE

Performance: The Town adopted procedures through the plan review process to include post construction requirements that were included in the final design of each project involving mass grading.

3. PLAN REVIEW

TASK 3A-D. PLAN REVIEW PROCESS

Performance: Implemented as stated in #2 above.

4. LONG-TERM MAINTENANCE

TASK 4C-E INSPECTION AND MAINTENANCE SCHEDULE

Performance: The Town will be developing long term maintenance procedures during the next reporting period.

ELEMENT VI – MUNICIPAL OPERATIONS

1. Street Sweeping

TASK 1A. STREET SWEEP ACCORDING TO TABLE 8.

Performance: The Town continues to use a contractor to sweep the streets according to the schedule in Table 8 of the SWMP.

TASK 1E. SWEEPING PROGRAM EVALUATION

Performance: Based upon visual observations, the sweeping program is effective at keeping sediment, debris, and trash off the streets. No changes to the scheduling or BMPs is proposed.

TASK 1G - STAFF AND CONTRACTOR TRAINING

Performance: The sweeping contractor was trained on the street sweeping schedule and the BMPs established for street sweeping in the Stormwater Maintenance Standards (see RS-1).

2. Storm Drain Maintenance

TASK 2B. STORM DRAIN MAINTENANCE TRAINING

Performance: All Town staff has been trained in pre-winter storm drain maintenance procedures, employing the Town's Vactor truck and hand labor.

TASK 2C. ROUTINE INSPECTION AND CLEANING

Performance: All storm drains were inspected prior to the wet season and cleaned out as needed. Storm drains were also periodically inspected throughout the year and cleaned as needed.

4. Litter Control

TASK 4A. SERVICES

Performance: Town staff collected litter from the trash receptacles throughout Town. The Town also maintains a very active recycling center.

5. Corporation Yard

NAPA COUNTY SWMP – ANNUAL REPORT FY 06/07
LOCAL PROGRAM: TOWN OF YOUNTVILLE

TASK 5B. DEVELOP SWPPP

Performance: The Town has developed an interim plan for operation of the Corporation Yard to minimize the potential storm water pollution until after significant improvements are made next year with the upgrade of the Wastewater Treatment Plant that will include remodel of the Town's fueling facility and storm drain inlets.

The design for the green waste facility is complete and construction was budgeted for this fiscal year. The project will involve the construction of a haulable waste container that can be dumped into directly, covered and drained into the wastewater treatment plant.

TASK 5C. IMPLEMENT SWPPP

Performance: SWPPPs not fully implemented.

The SWPPPs for the Yountville Corporation Yard will be developed this coming reporting year and implemented after completion of the capital improvements.

6. Road Maintenance

TASK 6C. TRAINING

Performance: The Town's staff does not perform road maintenance functions. Outside contractors provide this service and are contracted to adhere to storm water quality measures.

7. Creek and Ditch Maintenance

TASK 7C. TRAINING

Performance: Each year, the Town has removed significant amounts of sediment from Hopper Creek between Mulberry Street and Oak Circle. In October of 2006, due to the long previous winter, the contractor removed over 600 cubic yards of sediment, more than has ever been previously removed. This was after a seven year building moratorium due to lack of a reliable water supply. This coming fall, due to the lack of rainfall and issues related to the Town's Memorandum of Understanding with the Department of Fish & Game, the Town will not be removing sediment from the Creek.

8. Parks & Recreation Facilities

TASK 8A. ASSESS THE CONDITION OF PARKS AND RELATED

LOCAL PROGRAM: NAPA COUNTY

Performance: The Town has assessed all of the parks for operational and infrastructure improvements to reduce the potential of storm water pollution. Each successive year's budget contains funding to make structural improvement to reduce pollution potential.

When the Town constructed Van de Leur Park, it designed a cobble and grass lined swale to filter storm water prior to its entry into the Town's storm drain system. Operationally, the Park is organically maintained. Over the last year, the Town has made improvements to Yountville Park to reduce the potential of pollution to the onsite drainage system with similar methods and has greatly reduced the application of herbicides and pesticides to the Park. This next year, the Town will be modifying Vineyard Park and employing a new system to nearly eliminate any runoff to the storm drain system.

TASK 8C. TRAINING

NAPA COUNTY SWMP – ANNUAL REPORT FY 06/07
LOCAL PROGRAM: TOWN OF YOUNTVILLE

Performance: Maintenance staff is being trained to utilize organic techniques and structure features.

9. Other Municipal Activities

TASK 9B. ASSESSMENT

Performance: Assessment of new Town facilities is presently being employed in the design of the new Town Center which will be a LEED certified project scheduled for construction in 2008. Current operations have likewise been assessed and are being modified to reduce the potential of storm water pollution.

GOALS AND MODIFICATIONS FOR FY06/07

I. PUBLIC EDUCATION AND OUTREACH

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Public Education and Outreach measurable goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Public Education and Outreach measurable goals.

II. PUBLIC INVOLVEMENT AND PARTICIPATION

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Public Involvement and Participation measurable goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Public Involvement and Participation measurable goals.

III. ILLICIT DISCHARGE DETECTION AND ELIMINATION

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Illicit Discharge Detection and Elimination measurable goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Illicit Discharge Detection and Elimination measurable goals.

IV. CONSTRUCTION SITE RUNOFF CONTROL

GOALS FOR FY06/07

NAPA COUNTY SWMP – ANNUAL REPORT FY 06/07
LOCAL PROGRAM: TOWN OF YOUNTVILLE

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No additions are proposed for the Construction Site Runoff Control Measurable Goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Construction Site Runoff Control Measurable Goals.

IV. POST-CONSTRUCTION RUNOFF MANAGEMENT

GOALS FOR FY06/07

See Table 3.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Post-Construction Runoff Management Measurable Goals.

IV. MUNICIPAL OPERATIONS

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modification are proposed for the Municipal Operations Measurable Goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Municipal Operations Measurable Goals.

NCSWMP ANNUAL REPORT (FY06/07)

LOCAL PROGRAM: CITY OF ST. HELENA

OVERVIEW AND MAJOR ACCOMPLISHMENTS

FY03/04

1. St. Helena local program adopted ordinances that prohibit illicit discharges and established requirements to reduce water quality impacts from construction sites.
2. Developed and adopted an Enforcement Response Plan (ERP) to ensure local program ordinance enforcement..
3. St. Helena City Staff installed 125 Storm Drain markers "No Dumping, Drains to Napa River".

FY04/05

1. Established Stormwater hotline to receive information about non-stormwater discharges from the public.
2. The City of St. Helena developed a policy with BMP requirements and plan review procedures to control polluted runoff from construction sites. This policy was adopted by the City Council.
3. Conducted annual storm drain maintenance training for municipal staff.

FY05/06

1. The Department of Public Works applied the Stormwater and Runoff Pollution Control ordinance, Chapter 13.32, St. Helena Municipal Code, and determined no amendments were necessary for FY 2005/2006.
2. Continued implementation of the construction inspection program.
3. The City of St. Helena's Street Department continues compile and analyze data on the number of miles and quantity of material removed from impervious surfaces by its sweeper operations.

FY06/07

1. Distributed free drink coasters with the No Dumping logo on it from the counter at City Hall.
2. Identified Grease Hood vents being pressure washed as a potential illicit discharge via uncontrolled roof drains to the storm drain system and abated 2 instances.
3. The St. Helena Local Program goal modified to all open construction sites less than 5 or a minimum of 5 if they are available within 48 hrs of a major storm event was met.
4. DPW adopted and constructed a capital improvement project to improve the surface facilities for the Parks Department major shop operation resulting in better management and containment of organic matter, sediment,, pesticides and fuels.

SUMMARY AND EVALUATION FOR FY06/07

ELEMENT I – PUBLIC EDUCATION AND OUTREACH

2. OUTREACH TO LOCAL GOVERNMENT OFFICIALS

TASK 2C – ANNUAL PROGRESS REPORTS

Performance: Staff Report given to City Council September 11, 2007

Public Works provided a Staff Report to City Council reiterating the NCSWMP partnership and its stormwater management goals.

ADDITIONAL ACCOMPLISHMENTS

NCSWMP ANNUAL REPORT (FY06/07)

LOCAL PROGRAM: CITY OF ST. HELENA

A. "NO DUMPING DRAINS TO THE NAPA RIVER" DRINK COASTER GIVEAWAY

Distributed free drink coasters with the No Dumping logo on it from the counter at City Hall. The program was considered a success because it sparked interest and questions regarding stormwater management by the general public who were conducting unrelated business at City Hall.

ELEMENT II – PUBLIC INVOLVEMENT AND PARTICIPATION

ST. HELENA LOCAL PROGRAM HAS NO REPORTABLE TASK IN THIS ELEMENT

ELEMENT III – ILLICIT DISCHARGE DETECTION AND ELIMINATION

2. SPILL RESPONSE

TASK 2G – RECORD KEEPING

Performance: Data of illicit discharge complaints, investigations, and enforcement was maintained.

City Public Work's staff tracked the status of illicit discharge incidents for FY 06/07. Of the complaints 3 were identified by City Staff and 2 were reported by the public and all were abated.

The majority of the incidents reported and investigated by the DPW were related to restaurant operations with grease and dry baking products (flour) being the pollutants of concern.

ADDITIONAL ACCOMPLISHMENTS

A. IDENTIFIED NEW POTENTIAL DISCHARGE SOURCE & ABATED 2 INSTANCES

This year the City Department of Public Works identified a new source of potential discharge. Restaurants that operate a grease hood for cooking operations may employ the use of a pressure washer to clean the hood's exhaust vent located on the roof of the building. The discharge may occur when that wash water enters the roof drains that are either connected to the storm drain system or surface drain into a gutter. The City of St. Helena had 2 instances of this occurrence in FY06/07 which were identified by municipal staff and abated by the restaurant owner/operator.

3. STORM DRAIN SYSTEM MAPPING

TASK 3C AND 3G – FILL IN DATA GAPS

Performance: Data gaps filled in.

City Public Work's staff continues to update its storm drain system maps when new storm drains are constructed. The City has both a Master Storm Drain Plan which contains existing and proposed storm drain facilities as well as an Existing Storm Drainage System Map that depicts all the facilities that are actually constructed and operational.

ELEMENT IV - CONSTRUCTION SITE RUNOFF CONTROL

3. INSPECTION PROGRAM

TASK 3E. IMPLEMENT INSPECTION PROGRAM

NCSWMP ANNUAL REPORT (FY06/07)

LOCAL PROGRAM: CITY OF ST. HELENA

Performance: The St. Helena Local Program goal modified to all open construction sites less than 5 or a minimum of 5 if they are available within 48 hrs of a major storm event was met.

The winter season was very dry with only three (3) major storm events (>0.25 inches in 24 hours) reported for the City by www.wunderground.com. Inspections were conducted within 48 hours of each of these storm events.

The City's Stormwater Inspector conducts year-round stormwater inspections to verify that effective BMPs are implemented at construction sites that disturb 10,000 sq ft or more, slopes 15% or more, within 50 ft of a stormwater conveyance system, or earth moving of 50 cu yds or more.

During the FY06/07 reporting period, 17 inspections were conducted at 9 construction sites. Inspection frequency data is summarized in the table below.

| # projects | Total Inspections | Inspections per Site | | |
|------------|-------------------|----------------------|-----|-----|
| | | Min | Avg | Max |
| 9 | 17 | 1 | 1.8 | 3 |

4. OUTREACH

TASK 4E. CONSTRUCTION SITE EROSION CONTROL WORKSHOP

Performance: Workshop attended by Stormwater Inspectors.

Neither Stormwater Inspector attended a workshop for FY 06/07. This PM was not satisfied. \

ELEMENT V – POST-CONSTRUCTION RUNOFF MANAGEMENT

3. PLAN REVIEW PROCESS

TASK 3D. EVALUATION AND ASSESSMENT

Performance: Evaluate effectiveness of local design standards and assess the need for additional standards.

City Public Work's staff evaluated the plan review process and stormwater design standards prior to a large scale project application and determined no revisions were necessary for either small or large scale project implementation.

4. LONG-TERM MAINTENANCE

TASK 4E IMPLEMENT MAINTENANCE SCHEDULE

Performance: Inspect and maintain structural controls according to implementation schedule.

Maintenance schedules were evaluated for compliance and BMP's were in place greater than 80% of the time.

ELEMENT VI – MUNICIPAL OPERATIONS

1. Street Sweeping

TASK 1A. STREET SWEEP ACCORDING TO TABLE 8.

NCSWMP ANNUAL REPORT (FY06/07)

LOCAL PROGRAM: CITY OF ST. HELENA

Performance: The City of St. Helena continues to sweep the streets according to the schedule in Table 8 of the SWMP.

TASK 1E. SWEEPING PROGRAM EVALUATION

Performance: Based upon visual observations, the sweeping program is effective at keeping sediment, debris, and trash off the streets. No change to the scheduling is proposed.

TASK 1G - STAFF AND CONTRACTOR TRAINING

Performance: The sweeping contractor was trained on the street sweeping schedule and the BMPs established for street sweeping in the Stormwater Maintenance Standards (see RS-1).

ADDITIONAL ACCOMPLISHMENTS

A. EQUIPMENT UPGRADES

The City purchased a new street sweeper with increased brushing, suction and holding capacity to further improve sweeping quality of the streets. In addition, the City also purchased a self contained Sidewalk Scrubber for the more heavily traveled sidewalks in the downtown area that the street sweeper could not sweep.

2. Storm Drain Maintenance

TASK 2B. STORM DRAIN MAINTENANCE TRAINING

Performance: Train municipal staff on use of BMP's annually.

Applicable City Staff trained in the use of the newly purchased Street Sweeper hand held suction device for cleaning of Storm Drains to the maximum extent practicable.

TASK 2C. ROUTINE INSPECTION AND CLEANING

Performance: All storm drains were inspected prior to the wet season and cleaned out as needed. Storm drains were also periodically inspected throughout the year and cleaned as needed.

4. Litter Control

TASK 4A. SERVICES

Performance: The City Streets Department collected litter from the trash receptacles located along Main Street on a daily basis.

The exact quantity of trash collected is not tracked. The litter collection service is likely to reduce trash along the Main Street Corridor and more importantly at the 2 significant Main Street stream crossings, Sulphur Creek and York Creek.

5. Corporation Yard

TASK 5C. IMPLEMENT ITEMS FROM SWPPP

Performance: Implement items of SWPPP.

Incremental steps in the City's SWPPP were implemented in FY 06/07 including; construction of containment area for sweeper debris, receipt of purchased stormwater lift station, demolition and removal of flood damaged structures and paint container storage.

8. Parks & Recreation Facilities

TASK 8A. ASSESS THE CONDITION OF PARKS AND RELATED FACILITIES

NCSWMP ANNUAL REPORT (FY06/07)

LOCAL PROGRAM: CITY OF ST. HELENA

Performance: Assess the condition of parks and related facilities.

The City's Department of Public Works worked in conjunction with the City's Parks Department to evaluate park operations at the City's largest park, Crane Park. As a result the DPW adopted and constructed a capital improvement project to improve the surface facilities for the Parks Department major shop operation resulting in better management and containment of organic matter, sediment,, pesticides and fuels.

9. Other Municipal Activities

TASK 9B. ASSESSMENT

Performance: Assess facility conditions and operating procedures

Parks Department operation and the condition of the parks were assessed for FY06/07. Assessment included evaluation of pesticide use, organic matter storage, trash and hazardous materials storage. Assessment resulted in a CIP to improve surface facilities in the City's largest park facility.

GOALS AND MODIFICATIONS FOR FY07/08

NO MODIFICATIONS ARE PROPOSED FOR CITY OF ST. HELENA LOCAL PROGRAM FOR FY07/08

NAPA COUNTY SWMP – ANNUAL REPORT FY 06/07
LOCAL PROGRAM: CITY OF CALISTOGA

ELEMENT III – ILLICIT DISCHARGE DETECTION AND ELIMINATION

1.

Task 1B – Evaluate Effectiveness of Ordinance

Local Program: City of Calistoga

To date there have been no situations where the City’s Stormwater Ordinance has not met the City’s needs. The City uses the BMPs developed by the County-wide program or the California BMP Stormwater Handbook, which to date, has provided adequate information to people and contractors asking for information.

The City of Calistoga owns its own sewer treatment Plant. This has helped in developing BMPs for draining swimming pools, hot tubs, etc. Private citizens are allowed to drain these features straight to the sewer collection system without obtaining any permits. An Encroachment Permit is required for all commercial dischargers and private citizens located in areas with no sewer available.

Task 1D – Train Staff – Emergency Response Plan for Illicit Dischargers

All Public works Department personnel have ongoing training on illicit discharge response. The Public Works crew has a rotation of personnel to perform on-call duties. Someone from the Department is available 24 hours per day, 365 days per year. Formal training has been provided to Public Works Department staff on the ERP.

Effectiveness: The effectiveness of the past training is very good based on how personnel have responded to spills and discharges over the past years. The City of Calistoga is a very small community with lots of interaction between citizens and also with City Staff. This proves to be a very important component in controlling illicit discharges. Within the past year, emergency response to an oil spill at the Porter Garage demonstrated the effectiveness of our trained staff.

2. Spill Response

As stated earlier, training and discussions is an ongoing process. One of the advantages of such a small department is that information is very easy to disseminate.

Effectiveness: Crews have historically responded effectively.

Task 2G – Recordkeeping

Calistoga keeps records of all illicit discharges. The City experienced one illicit discharge at the Porter’s Garage. A copy of the report is attached.

NAPA COUNTY SWMP – ANNUAL REPORT FY 06/07
LOCAL PROGRAM: CITY OF CALISTOGA

The City has developed a Residential Grease Program with a goal of reducing sewer system problems. Since Grease tends to build in the sewer collection system, this has been the reason for most private and public problems over the years. If Public works personnel find areas of town where grease is starting to collect, they place door hangers on the homes in the area. These door hangers contain information on how to properly dispose of cooking grease and what happens when it is deposited in the household drain. This information is also posted on the City's public information television channel.

Effectiveness: This program is in its second year and will take a few years to effectively evaluate the effectiveness. In the last year the City experienced no sanitary sewer overflows, indicating that the program is working.

3. Storm Drain Mapping

Task 3B – Identify Data Gaps

The field crew records gaps in the utility maps and as needed City-wide maps are updated.

Effectiveness: Effective – with map updates the maps are more useful.

4. Business Inspections

Task 4D – 4H

The City of Calistoga has contracted with Napa County Environmental Management to provide business inspections for restaurants and business plan facilities. All indicates are that the program is effective.

TASK 4G – INSPECTIONS (BUSINESS PLAN FACILITIES)

Performance: No business plan facilities were inspected in the City of Calistoga.

The DEM conduct any stormwater inspections at the 8 business plan facilities in the City of Calistoga. The performance measure was not reached due to the loss of 2 CUPA inspectors in FY06/07.

ELEMENT IV – CONSTRUCTION SITE RUNOFF CONTROL

1. Legal Authority

Task 1B – Evaluate Ordinance

To date there have been no situations where the City's Stormwater Ordinance has not met the City's needs.

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3. Inspection Program

Task 3D – Implement Training Program

As stated earlier, the City's ERP training has been an ongoing practice because of the small size of the Department and historically has been effective. Based on the input from the Regional Board this training has been formally documented.

Task 3E – Implement Inspection Program

The City had one project that was greater than one acre in FY 06/07. Inspection reports are attached.

ELEMENT V – POST CONSTRUCTION RUNOFF MANAGEMENT

1D and 1E, 2B – 2W, 3A – 3D, 4B, 4C and 4E

The City of Calistoga has not incorporated post construction runoff legislation into the Stormwater Ordinance. The City has monitored and discussed the County's progress with adoption of this component of the Stormwater Ordinance. Calistoga feels strongly that an effective program will be one that parallels the County's to ensure uniformity. As the County works through the process, public participation will ensue which is critical to the success and acceptance of post construction standards. Once consensus is achieved standards can be adopted, plan review guidelines can be instituted and maintenance standards and monitoring can be determined.

ELEMENT VI – MUNICIPAL OPERATIONS

1. Street Sweeping

Task 1E – Sweeping Program Evaluation

Calistoga is a tourist town that is sensitive to the demands of the local population and business. The street sweeper operators are encouraged and do suggest changes to the routes and when to sweep different areas of town. In a small community such as Calistoga the operators get to know the citizens' habits and what the B&B wishes/demands are. In addition the Maintenance Superintendent regularly monitors the sweeper's effectiveness by checking the swept routes.

Effectiveness: Effective

2. Storm Drains

Task 2C – Routine Inspection and Cleaning

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Storm drains are cleaned prior to the rainy season and monitored through the winter during rain events. Our evaluation of required cleaning frequency shows that we are doing an adequate job.

4. Litter Control

Task 4C – Education

The city replaced all public garbage cans during this time period with slatted recycled plastic containers and slatted cast iron containers. All lids were replaced with dome lids to prevent water from entering the cans. These new cans do not come with anti-littering messages. The City is investigating how this can be accomplished.

5. Corporation Yards

Task 5B – SWPPP

The City of Calistoga was not able to complete a SWPPP for the City's Corporation Yard this year. However, the City has completed a 2-page checklist for cleanup of the City's Corporation Yard. This self-inspection checklist is formally used on a quarterly basis.

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OVERVIEW AND MAJOR ACCOMPLISHMENTS

FY03/04

The majority of the 1st year measurable goals involved program development and training. The major accomplishments included:

1. Established authority to prohibit illicit discharges and require runoff controls for development projects
2. Developed an enforcement response plan for enforcing the local stormwater ordinances.
3. Stormwater Standards Maintenance Manual was adopted that included standards and BMPs for street sweeping, storm drain maintenance, stormwater pump stations, road and street maintenance, and creek and ditch maintenance. Relevant staff were trained on the standards and the BMPs in the manual.

FY04/05

1. Began implementation of the construction inspection program.
2. Road maintenance staff attended a workshop on the design, construction, and maintenance of rural roads to minimize the discharge of sediment to streams.
3. Operation and maintenance standards were adopted for park and recreation facilities.

FY05/06

1. Continued inspections of Food Service Facilities and Business Plan Facilities.
2. Continued implementation of the construction inspection program.
3. Operation and maintenance standards were adopted for swimming pool, fountain, and spa maintenance.

FY06/07

1. Developed a revised draft of post-construction runoff management requirements.
2. Completed a SWPPP for one corporation yard and a draft of another.
3. Adopted CST Site Runoff Control Requirements for projects that disturb greater than 10,000 sq ft, slopes of 15% or more, earthmoving of 50 cu yds or more, or within 50 feet of a stormwater conveyance system.
4. Developed a brochure that explains the CST Site Runoff Requirements and plan review process.
5. Provided stormwater BMP training to 20 building maintenance staff from the DPW.
6. Developed and implemented an inspection program for the County's temporary stockpiles.

SUMMARY AND EVALUATION FOR FY05/06

ELEMENT I – PUBLIC EDUCATION AND OUTREACH

2. OUTREACH TO LOCAL GOVERNMENT OFFICIALS

TASK 2C – ANNUAL PROGRESS REPORTS

Performance: Presentation given to Flood Control Board on June 5th, 2007.

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The Stormwater Program Coordinator (SPC) gave a status report on the SWMP to the Flood Control Board on June 5th, 2007. The Flood Control Board consists of the five (5) County Board of Supervisors, the mayor from each City/Town, and a Councilmember from the City of Napa. The status report consisted of an overview of the NCSWMP accomplishments for FY06/07, major goals that must be completed before the end of the permit term, and the status and timeline for renewing coverage under the General Permit.

ADDITIONAL ACCOMPLISHMENTS

A. WATERSHED CALENDAR

The CDPD provided funding to the Napa County RCD to produce a 2007 watershed calendar entitled "Reflections on the Napa River". The calendar provides information on the Napa River watershed and has a resource directory of organizations that support watershed restoration and conservation practices. Approximately 3,000 calendars were produced and distributed to the public.

B. Our Water, Our World

The County-wide Program continued a contract with Annie Joseph to maintain OWOW factsheets and shelf talkers in the six participating stores in Napa County. Annie Joseph also provides annual training for staff at each of the stores and held a workshop at Whiting's nursery on using less-toxic products to control pests that was open to the public.

ELEMENT II – PUBLIC INVOLVEMENT AND PARTICIPATION

5. STEWARDSHIP GROUPS

TASK 5B – RUTHERFORD DUST RESTORATION TEAM (RDRT)

Performance: Napa County continued to support the development of a restoration plan for the RDRT.

The preliminary design of the Napa River Restoration Project - Rutherford Reach (aka Rutherford Dust Project) is nearing completion. It was previously estimated that the design would have been completed by the end of 2006; however, the project designers in collaboration with Napa County public works engineers determined that additional hydraulic analyses were required to ensure the project would meet Federal Emergency Management Agency (FEMA) floodplain management requirements. The County, as the local floodplain manager, will need to issue a floodplain permit for the project because the Project includes grading work within the regulatory floodway of the river. These additional analyses have now been completed, clearing the way for completion of the preliminary design. The next step for the Project is for it to undergo CEQA review, which should be completed by March 2008. In addition, permit applications will be filed with the resource agencies. Landowners involved with the Project are signing agreements with the County, which is the entity that will oversee construction. Initial construction of the first 1.4 miles of the Project (beginning at Zinfandel Lane and extending downstream) has been funded through a grant from the State Water Resources Control Board and the County. This phase of construction is expected to begin in late 2008 and complete in 2009.

ELEMENT III – ILLICIT DISCHARGE DETECTION AND ELIMINATION

TASK 1D TRAIN STAFF – ENFORCEMENT RESPONSE PLAN FOR ILLICIT DISCHARGES

Performance: Training on the enforcement response plan was provided to PW and DEM staff.

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A total of three meeting were held with DEM managers and one with DPW staff regarding illicit discharge response and enforcement procedures. The meetings covered the responsibilities of County departments in the clean-up, investigation, and enforcement of illicit discharges in the unincorporated areas of the County. The DEM managers passed on the procedures discussed at these meeting to their staff at their regular staff meetings. Both the DEM and DPW discuss specific illicit discharge incidents, their cleanup, investigation, and enforcement with staff at regular staff meetings as needed.

2. SPILL RESPONSE

TASK 2E – STAFF TRAINING

Performance: Training on the enforcement response plan was provided to PW and DEM staff.

A total of three meeting were held with DEM managers and one with DPW staff regarding illicit discharge response and enforcement procedures. The meetings covered the responsibilities of County departments in the clean-up, investigation, and enforcement of illicit discharges in the unincorporated areas of the County. The DEM managers passed on the procedures discussed at these meeting to their staff at their regular staff meetings. Both the DEM and DPW discuss specific illicit discharge incidents, their cleanup, investigation, and enforcement with staff at regular staff meetings as needed.

TASK 2G – RECORD KEEPING

Performance: Data of illicit discharge complaints, investigations, and enforcement was maintained.

The DPW tracked the status of illicit discharge incidents with the database developed by the County-wide Program. In FY06/07 a total of 42 complaints were received by the DPW, of which, 39 were investigated and 36 were abated. Of the three complaints not investigated by the DPW, one was referred to DEM and two were referred to DFG for investigation due to the nature of the violation (i.e. winery discharge, stream work). The three investigations that were not abated involve grading work that the DPW would like to monitor for another rainy season.

The total number of complaints received by the DPW in FY06/07 more than doubled over the previous FY. The greatest increase in complaints was from citizens, which suggests the public is becoming more aware of the County's stormwater hotline. Furthermore, the 25 complaints reported by citizens were from 20 different people which is a fairly broad distribution.

The majority of the incidents reported and investigated by the DPW continue to be related to construction and grading activities with sediment being the primary pollutant of concern. A summary report for the illicit discharge response program is provided in Appendix D.

The DEM is continuing to use its FilePro database to track complaints and investigations. Based on what was captured by the FilePro database in FT06/07, the DEM received a dozen complaints related to stormwater. Unfortunately, the FilePro database was not designed as a comprehensive system for tracking complaints, investigations, and follow-ups and therefore it is difficult to summarize the nature of these incidents, whether discharges reached receiving waters and the conclusions to any enforcement actions. The DEM has investigated a number of existing databases used by similar departments throughout the country and recently purchased a system called Digital Health Department. The new system will improve DEM's ability to track and report illicit discharges when it is installed in FY07/08.

3. STORM DRAIN SYSTEM MAPPING

TASK 3C AND 3G – FILL IN DATA GAPS

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Performance: Data gaps filled in.

The DPW makes updates to its storm drain system maps when new storm drains are constructed. There are very few storm drain systems in the unincorporated areas due to limited zoning for industrial, commercial, and urban residential development. In order to capture storm drain inlets and outfalls that could be missing from the County's storm drain system maps, the County used data collected by the Flood Control District and the Stormwater Inspector collected geographical coordinates for the storm drain inlets in the Airport Industrial Park and Silverado Country Club. With this information, the DPW will create a GIS layer of the storm drain inlets and outlets within the unincorporated areas of the County. The maps made from this layer will be important for tracing illicit discharges to their source as well as stopping them before they reach a receiving water.

4. BUSINESS INSPECTIONS

TASK 4D – TRAINING

Performance: One team inspection conducted.

The DEM conducts stormwater inspections at restaurants and business plan facilities on behalf of Napa County, the City of Napa, and the City of Calistoga. The CPC works with the DEM to develop BMPs for businesses, conduct outreach, and implement the inspection program.

Only one inspector received documented training in FY06/07. This training was a team inspection at a winery with the CPC and an inspector from the RWQCB. The site was a good example of the difficulty in tracing the path of stormwater runoff in the unincorporated areas of the County. After tracing the stormwater path from the crush pad we concluded that in the event of a release, the wastewater would not reach the Napa River or any other receiving water due to the topography of the land. This was a good exercise for the inspector to think about stormwater connectivity.

This was the only documented training in FY06/07 due to a large turnover in inspectors. Only one food service inspector and one CUPA inspector was retained and the DEM was still in the process of refilling some of the inspector positions at the end of the FY. A formal training will be conducted for all the food service and CUPA inspectors when the positions are expected to be filled in early FY07/08.

TASK 4E – INSPECTIONS (FOOD SERVICE FACILITIES)

Performance: Unknown.

TASK 4G – INSPECTIONS (BUSINESS PLAN FACILITIES)

Performance: 15% of business plan facilities inspected in the unincorporated area of Napa County.

The DEM conducted stormwater inspections at 47 business plan facilities out of the 308 non-exempt facilities in the unincorporated area of Napa County. The performance measure was not reached due to the loss of 2 CUPA inspectors in FY06/07.

In FY06/07 the County-wide Program completed the development of a database to track compliance and enforcement actions at business plan facilities. This database is not yet in use by the inspectors to manage their work, but the CPC entered the available inspection data into the database to summarize the effectiveness of the inspection program.

Based upon the inspections conducted by the DEM in the unincorporated area, the City of Napa, and Napa County, 51% of the facilities were in compliance with the local stormwater

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ordinance, 30% had the potential for an illicit discharge, 7% had an actual discharge, and 10% were in violation for paperwork-related issues like not having a SWPPP onsite. The most common violations related to a potential or actual discharge included debris and other pollutants in storm drains (14% of inspections), not maintaining a spill kit in the fueling area (11% of inspections), and outdoor hazardous material storage (7% of inspections). An administrative order to correct the violations was issued for each of the facilities not in compliance. A summary report from the CUPA inspection program is provided in Appendix E.

At this time it is difficult to summarize the follow-ups to violations documented during inspections because the inspectors have not started using the database. The database includes a form that the inspectors will use to document follow-ups and resolutions to violations of local stormwater ordinances. The inspectors will begin to use the database in early FY07/08 when the database will be installed on their tablets. The tablets will allow the inspectors to maintain the database in the field and in the office.

ELEMENT IV - CONSTRUCTION SITE RUNOFF CONTROL

TASK 1. LEGAL AUTHORITY

TASK 1B - EVALUATE ORDINANCE

Performance: This performance measure was implemented in FY05/06 and shouldn't have been included in the measurable goals table for FY06/07.

TASK 1D – ENFORCEMENT RESPONSE PLAN (ERP) TRAINING

Performance: All relevant staff trained on ERP.

The DPW is responsible for enforcing the stormwater ordinance at construction sites in the unincorporated areas of Napa County. Most enforcement work is conducted by the Stormwater Inspector and some enforcement is conducted by two Assistant Engineers.

The Stormwater Inspector and the newest Assistant Engineer attended the construction inspection training conducted by the CPC on October 12, 2006. The training included a discussion of the enforcement actions that may be taken under the local stormwater ordinances.

The ERP was also discussed at a PW staff meeting attended by the two Assistant Engineers, the Stormwater Inspector, a Civil Engineer, and the Deputy Director of PW in the Spring of 2007. The main topic of this meeting was to discuss when it's appropriate to refer violations to the DFG and RWQCB. In summary, cases are referred to the DFG or RWQCB for illegal work within Waters of the State. In these cases, a violation of the stormwater ordinance may have occurred, but the County cannot require corrective actions because State has jurisdiction over work in these areas.

TASK 1E - EVALUATE AND AMEND ERP

Performance: This performance measure was implemented in FY05/06 and shouldn't have been included in the measurable goals table for FY06/07.

2. PLAN REVIEW

TASK 2C. IMPLEMENT TRAINING PROGRAM

Performance: Training provided to relevant staff in the DPW and CDPD.

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On December 7, 2006 a meeting was held with DPW and CDPD staff to discuss implementation of the Construction Site Runoff Control Requirements scheduled for adoption the following week. Three engineers from the DPW who are responsible for reviewing stormwater plans and the Stormwater Inspector attended the meeting as well as a Planning Supervisor and the Plans and Permits Supervisor from the CDPD, and the CPC. The CPC provided an overview of the plan review process described in the Construction Site Runoff Control Requirements and the group discussed the nuts and bolts of processing plans, the responsibilities of each department, and how to inform the public of the new requirements.

A follow-up meeting was conducted on June 11, 2007 to discuss how the plan review process was working and how it might be improved. The meeting was attended by the LPC, Engineering Services staff, the Stormwater Inspector, and the Deputy Director of Public Works. The main difficulty experienced in the early months of implementing the new plan review process was ensuring that building and grading permit applications include all the relevant stormwater-related documentation. The solution proposed to solve this problem was to update the CDPD webpage, ensure that the brochure developed to explain the process is included with permit applications, to reject incomplete applications. As with any change, it will take some time for people to become accustomed to the new stormwater requirements and plan review process.

TASK 2D. IMPLEMENT PLAN REVIEW PROCESS

Performance: Plan review process implemented for grading and building permit applications that disturb 10,000 square feet or more, are on slopes 15% or more, are within 50 feet of a stormwater conveyance system, or involve earthmoving of 50 cubic yards or more.

The Board of Supervisors adopted the Construction Site Runoff Control Requirements on December 12, 2006. The requirements establish standard conditions for all building and grading permit applications as well as requirements for preparing and implementing stormwater plans, documenting trainings and conducting inspections for the applicable projects. Plans must include a description of the project's activities, the potential pollutants generated, and BMPs that will be implemented to prevent illicit discharges. The plans must also include a weather-triggered action plan and forms for documenting trainings and inspections. Applicable projects are added to the construction inspection database and prioritized by the criteria provided in the Applicability Checklist. A copy of the requirements is provided in Appendix F.

3. INSPECTIONS

TASK 3D. IMPLEMENT TRAINING PROGRAM

Performance: Stormwater Inspector and two Assistant Engineers attended trainings.

The Stormwater Inspector is responsible for conducting inspections at construction sites in the unincorporated areas of Napa County. Engineering Services staff occasionally conduct inspections, however, their primary responsibility is to review plans.

The DPW hired a new Stormwater Inspector in early FY06/07 and therefore, a great deal of training was needed to get prepared for the upcoming wet season. In addition to the formal trainings below, the Stormwater worked closely with Engineering Services and the CPC throughout the FY to improve documentation of inspections and follow-ups.

The Stormwater Inspector and an Assistant Engineer from the DPW attended the construction inspection training provided by the County-wide Program on October 12, 2006. The focus of this 4-hour training was to review the local and state stormwater regulations regarding BMP implementation at construction sites, how to evaluate and document BMP implementation, and

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taking appropriate enforcement action. The first half of the training was a power point presentation which included many examples of BMPs at local construction sites and the second half of the training included a site visit to a construction site. Both the pictures and the active construction site provided lots of good discussion of what constitutes a violation and what does not.

The Stormwater Inspector also attended a training hosted by the Certified Professionals in Erosion and Sediment Control (CPESC) to become a Certified Erosion, Sediment and Stormwater Inspector.

The Stormwater Inspector and an Assistant Engineer attended the SWPPP Preparation training workshop taught by Lucinda Dustin on January 25, 2007. The focus of this training was the preparation and maintenance of SWPPPs. This half-day workshop gave a lot of practical information on the most critical components of a SWPPP, how to account for project phasing, and making updates and changes to the SWPPP.

TASK 3E. IMPLEMENT INSPECTION PROGRAM

LOCAL PROGRAM: NAPA COUNTY

Performance: The quantifiable target of inspecting 5 sites within 48 hrs of a major storm event was met.

The winter season was very dry with only four (4) major storm events (>0.25 inches in 24 hours) reported for the City of Napa by www.wunderground.com. At least five (5) inspections were conducted within 48 hours of each of these storm events.

The Stormwater Inspector conducts year-round stormwater inspections to verify that effective BMPs are implemented at construction sites that disturb 10,000 sq ft or more, slopes 15% or more, within 50 ft of a stormwater conveyance system, or earth moving of 50 cu yds or more. The inspection frequency is determined by the project's priority, as described in the Construction Site Runoff Control Requirements, and the project's compliance during previous inspections.

During the FY06/07 reporting period, 273 inspections were conducted at 116 construction sites. Inspection frequency data for the 40 construction projects over an acre is summarized in the table below.

| # projects | Total Inspections | Inspections per Site | | |
|------------|----------------------|----------------------|-----|-----|
| | | Min | Avg | Max |
| 40 | 124 | 1 | 3.1 | 7 |

It's still difficult to determine the total number of projects that were actually active during the reporting period because projects may become inactive and not resume work for a year or more. The DPW uses the database developed by the County-wide Program to keep track of active and inactive projects for the purpose of scheduling inspections, however, the database is not designed to determine the number of active projects over a range in time. Likewise, the SWRCB's database of NPDES-permitted construction site cannot determine the number of sites with active construction over a range in time, nor is it able to determine which MS4 jurisdiction a project is within. In the meantime, the DPW requires all projects with building or grading permits to notify the Stormwater Inspector within 48 hrs prior to starting or resuming work. This process as well as reports from citizens and municipal staff makes it unlikely that a large project under construction will go unnoticed.

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The percent of inspections that found no violations rose from 48% in FY05/06 to 72% in FY06/07. This increase in compliance is partly due to the dry winter and partly due to improved BMP implementation. For example, the percent of inspections that found poorly installed fiber rolls declined from 21% to 6% over the same period and effective DI protection increased from 32% to 83%. While it is difficult to quantify the impact of the dry winter on BMP performance, the decline in poorly installed BMPs demonstrates that construction sites have improved their implementation of BMPs.

A total of 75 inspections identified violations that had the potential to result in a discharge (67) or resulted in an actual discharge (8). The County-wide Program made some modifications to the Construction Inspection Database to assist the inspector with tracking inspections that require follow-ups and documenting the closure of all violations. Of the inspections 75 inspections with violations in FY06/07, only one inspection was not closed by the end of the FY. Based on this result, the database should be an effective tool for ensuring that violations documented during inspections are followed up on in a timely manner.

A summary report of BMP implementation at construction sites and a summary report of actual inspections are provided in Appendix G.

4. OUTREACH

TASK 4E. CONSTRUCTION SITE EROSION CONTROL WORKSHOP

Performance: Workshops attended by Stormwater Inspector and Assistant Engineers.

There were a total of three workshops that Public Works staff attended which are also described in detail under Task 3D. The Inspector went to all three workshops/trainings and each of the Assistant Engineers attended at least one workshop/training.

ELEMENT V – POST-CONSTRUCTION RUNOFF MANAGEMENT

1. LEGAL AUTHORITY

TASK 1D - ERP TRAINING

Performance: This task is proposed for modification to conduct the training next FY because the County has not adopted its draft post-construction requirements.

2. DESIGN STANDARDS

TASKS 2B THROUGH 2V. ADOPT STANDARDS IN ATTACHMENT 4.

Performance: After the County adopted the Construction Site Runoff Control Requirement on December 12, 2006, the 3rd draft of Post-Construction Runoff Management requirements was circulated to other departments for review. The main feedback on the draft requirements was to make it more concise and easier to understand. After a couple months, a 4th draft was created that was more concise and streamlined. One of the most important changes to the 4th draft was the addition of several worksheets to assist the plan preparer and plan reviewer in ensuring the project meets all applicable standards.

At a follow-up meeting, the 4th draft was determined to be acceptable, however, there was concern regarding the practicability of meeting the runoff control requirements and how the calculations are made. A draft calculation worksheet which allows developers to account for DCIPs and bioretention units was created at the end of the FY. Once the worksheet is refined and a few more example projects are designed with it, the post-construction runoff requirements will be made available for public review.

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The following is a rough schedule proposed to adopt the post-construction requirements by the end of the permit term.

October 2007 – Release requirements for public comment, conduct public meetings to explain and discuss the requirements.

December 2007 – Make revisions to the draft requirements to prepare a final draft for adoption.

April 2008 – Introduce requirements to BOS for adoption and make revision as needed.

June 2008 – Adopt the final draft of post-construction runoff management requirements.

3. PLAN REVIEW

TASK 3A-D. PLAN REVIEW PROCESS

Performance: An internal draft of the Post-Construction Runoff Management requirements and plan review process was developed, but was not adopted in FY06/07.

This task is proposed for modification to implement the plan review process for post-construction requirements in FY07/08.

4. LONG-TERM MAINTENANCE

TASK 4C-E INSPECTION AND MAINTENANCE SCHEDULE

Performance: Task proposed for modification due to delay in adoption of post-construction requirements.

Maintenance schedules, training and inspections will be developed and implemented in when the post-construction requirements are adopted in FY07/08.

ELEMENT VI – MUNICIPAL OPERATIONS

1. Street Sweeping

TASK 1A. STREET SWEEP ACCORDING TO TABLE 8.

Performance: The DPW continues to use a contractor to sweep the streets according to the schedule in Table 8 of the SWMP.

TASK 1E. SWEEPING PROGRAM EVALUATION

Performance: Based upon visual observations, the sweeping program is effective at keeping sediment, debris, and trash off the streets. No changes to the scheduling or BMPs is proposed.

TASK 1G - STAFF AND CONTRACTOR TRAINING

Performance: The sweeping contractor was trained on the street sweeping schedule and the BMPs established for street sweeping in the Stormwater Maintenance Standards (see RS-1).

2. Storm Drain Maintenance

TASK 2B. STORM DRAIN MAINTENANCE TRAINING

Performance: Staff trained as appropriate in the field.

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LOCAL PROGRAM: NAPA COUNTY

The Road Maintenance Supervisor and/or the Road Maintenance Crew Leader provide regular in-the-field training to workers involved with storm drain cleaning and maintenance. Before maintenance work Trainings generally cover

TASK 2C. ROUTINE INSPECTION AND CLEANING

Performance: All storm drains were inspected prior to the wet season and cleaned out as needed. Storm drains were also periodically inspected throughout the year and cleaned as needed.

4. Litter Control

TASK 4A. SERVICES

Performance: The DPW collected litter from the trash receptacles at the Yountville Ecological Preserve on a weekly basis.

Approximately 100 cubic yards of trash is collected at the Yountville Ecological Preserve each year. The exact quantity of trash collected at the Yountville Ecological Preserve is not tracked, but a rough estimate of 100 cubic yards is based the assumption that each receptacle is $\frac{3}{4}$ full, based on observations, when it is collected each week. The litter collection service is likely to reduce some of the trash in the active channel of the Napa River and a lot of garbage in the parking lot which could reach the Napa River by wind or flooding.

In FY05/06 a recycling bin was also provided at the ecological preserve through a contract with the garbage service.

5. Corporation Yard

TASK 5B. DEVELOP SWPPP

Performance: SWPPPs developed for 2 of the 3 active corporation yards in the Napa River watershed.

The DPW developed a SWPPP for the corporation yard in Yountville and at California Blvd in Napa. The Yountville corporation yard supports the Roads Division and the Agricultural Commissioner's Office and its main activities include heavy equipment storage, outdoor material storage, vehicle and equipment fueling, and hazardous material storage. The corporation yard at California Blvd supports the Building and Fleet Maintenance operations and the major activities include vehicle and equipment maintenance, outdoor storage of vehicles and equipment, and hazardous waste storage.

The SWPPPs developed for these corporation yards includes a description of activities, how they have the potential to impact stormwater, and BMPs that will be implemented to reduce the discharge of pollutants to the MEP. The SWPPP also includes a description of who is responsible for implementing and maintaining the SWPPP, a site map showing the locations of activities and stormwater conveyance systems, and inspection and training schedules and forms.

The other corporation yard is located near Calistoga and its primary use is to store road maintenance-related materials. Another corporation yard that supports road maintenance activities is located in the Putah Creek watershed. SWPPPs for these smaller corporation yards will be developed in FY07/08.

TASK 5C. IMPLEMENT SWPPP

Performance: SWPPPs not fully implemented.

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The SWPPPs for the Yountville and the California Blvd corporation yards were only partially implemented because the SWPPPs were developed near the end of the FY. Staff training and full implementation of the SWPPPs is proposed for implementation in FY07/08.

6. Road Maintenance

TASK 6C. TRAINING

Performance: One training held on temporary stockpile BMPs.

The Stormwater Inspector and a Road Maintenance Supervisor conducted a hands-on training installing fiber rolls and gravel bag BMPs a temporary stockpile along Silverado Trail. In response to a couple complaints regarding BMP implementation at this stockpile area, the Stormwater Inspector arranged a training to discuss the use of sediment control measures to remove sediment from stormwater runoff. This was a very effective training because it was in the field and reflected the complexities of the real world.

7. Creek and Ditch Maintenance

TASK 7C. TRAINING

Performance: All relevant staff trained.

The Watershed Project Coordinator at the NCFWCWD continues to provide annual training for staff and contractors performing maintenance within ditches and creeks throughout the county. The training includes the conditions of all applicable State and Federal permits and the maintenance standards developed in FY03/04.

8. Parks & Recreation Facilities

TASK 8A. ASSESS THE CONDITION OF PARKS AND RELATED

Performance: Not applicable at this time.

Napa County citizens voted in FY06/07 to create a Parks and Open Space District. This District is tasked with identifying existing public lands and creating or improving access outdoor recreation. The Park and Open Space District will assess stormwater impacts from parks it creates or acquires in the future.

TASK 8C. TRAINING

Performance: Not applicable at this time.

As parks are created or acquired by the Napa County Open Space District, maintenance staff will be trained on appropriate BMPs to reduce the discharge of pollutants to the MEP.

9. Other Municipal Activities

TASK 9B. ASSESSMENT

Performance: Assessment and training conducted for building and landscape maintenance.

Based upon the prioritization of BMP development and implementation for other municipal operations developed in FY05/06, BMPs for building maintenance were developed and a training of building maintenance staff was conducted on July 25, 2006. Nineteen staff (>90%) from the building maintenance division attended this training which included a question and answer session on current practices and appropriate BMPs, the viewing of an Excal stormwater training video, and a post-survey to measure staff understanding of stormwater issues and BMPs. The questions on the post-survey were discussed at the end of the training.

GOALS AND MODIFICATIONS FOR FY06/07

I. PUBLIC EDUCATION AND OUTREACH

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Public Education and Outreach measurable goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Public Education and Outreach measurable goals.

II. PUBLIC INVOLVEMENT AND PARTICIPATION

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Public Involvement and Participation measurable goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Public Involvement and Participation measurable goals.

III. ILLICIT DISCHARGE DETECTION AND ELIMINATION

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modifications are proposed for the Illicit Discharge Detection and Elimination measurable goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Illicit Discharge Detection and Elimination measurable goals.

IV. CONSTRUCTION SITE RUNOFF CONTROL

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No additions are proposed for the Construction Site Runoff Control Measurable Goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Construction Site Runoff Control Measurable Goals.

IV. POST-CONSTRUCTION RUNOFF MANAGEMENT

GOALS FOR FY06/07

See Table 3.

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LOCAL PROGRAM: NAPA COUNTY

MODIFICATIONS TO MEASURABLE GOALS

TASK 2B – 2V. ADOPT DESIGN STANDARDS

The draft Post-Construction Runoff Management requirements underwent significant revisions in FY06/07, but was not adopted because it was not reviewed by stakeholder groups by the end of the FY. The adoption of these requirements is proposed for FY07/08 to allow adequate time for stakeholder groups to review and comment on the proposed requirements. The public participation in the development of the requirements is essential to ensure that post-construction requirements are clear and easy to understand, are fairly consistent from agency to agency, and maximize the reduction of pollutants in stormwater runoff to the MEP.

TASK 3A. ADOPT PLAN REVIEW PROCESS

The draft plan review process is included in the draft post-construction runoff control requirements and will be implemented when the requirements are adopted and take effect.

TASK 4 C, D, AND E. ENSURE LONG-TERM MAINTENANCE.

Inspection and maintenance schedules for Post-Construction BMPs are still in development. Inspection program will be implemented when the post-construction BMPs are adopted in FY07/08.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Post-Construction Runoff Management Measurable Goals.

IV. MUNICIPAL OPERATIONS

GOALS FOR FY06/07

See Table 3.

MODIFICATIONS TO MEASURABLE GOALS

No modification are proposed for the Municipal Operations Measurable Goals.

ADDITIONS TO MEASURABLE GOALS

No additions are proposed for the Municipal Operations Measurable Goals.

NAPA COUNTY SWMP – ANNUAL REPORT FY 06/07

GLOSSARY AND ABBREVIATIONS

GLOSSARY

- 1. Best Management Practices (BMPs)** – Best management practices means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of “waters of the United States.” BMPs also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. (40 CFR § 122.2)
- 2. Maximum Extent Practicable (MEP)** – A technology-based standard established by congress in CWA §402(p)(3)(B)(iii) that municipal dischargers of stormwater must meet. Technology-based standards establish the level of pollutant reductions that dischargers must achieve. MEP is generally the result of emphasizing pollution prevention and source control BMPs as the first lines of defense in combination with treatment methods where appropriate serving as additional lines of defense. The MEP approach is an ever evolving, flexible and advancing concept, which considers technical and economic feasibility.
- 3. Measurable Goal** – Defined tasks or accomplishments that are associated with implementing best management practices.
- 4. Minimum Control Measure** – A stormwater program area that must be addressed by all regulated MS4s. The following six minimum control measures are required to be addressed by the regulated Small MS4s: Public Education and Outreach, Public Involvement/Participation, Illicit discharge Detection and Elimination, Construction Site Runoff Control, Post-Construction Runoff Management, Municipal Operations.
- 5. New Development** – land disturbing activities, structural development, including construction or installation of a building or structure, creation of impervious surfaces, and land subdivision.
- 6. Outfall** – A point source at the point where a municipal separate storm sewer discharges to waters of the United States and does not include open conveyances connecting two separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream or other waters of the United States and are used to convey waters of the United States. (40 CFR § 122.26(b)(9))
- 7. Point Source** – Any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff. (40 CFR § 122.2)
- 8. Regulated Small MS4** – A small MS4 that is required to be permitted for discharging stormwater through its MS4 to waters of the U.S. and is designed either automatically by the U.S. EPA because it is located within an urbanized area, or designated by the SWRCB or RWQCB in accordance with the designation criteria listed at Finding 11 of the General Permit.
- 9. Redevelopment** - Redevelopment means, on an already developed site, the creation or addition of at least 5,000 square feet of impervious surface. Redevelopment includes, but is not limited to: the expansion of a building footprint or addition or replacement of a structure; structural development including an increase in gross floor area and/or exterior construction or remodeling; replacement of impervious surface that is not part of a

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GLOSSARY AND ABBREVIATIONS

routine maintenance activity; and land disturbing activities related with structural or impervious surfaces. Where redevelopment results in an increase of less than fifty percent of the impervious surfaces of a previously existing development, and the existing development was not subject to these SUSMP's, the Design Standards apply only to the addition, and not to the entire development.

10. **Restaurant** – A stand-alone facility that sells prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption.
11. **Small Municipal Separate Storm Sewer System (Small MS4)** – A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that are:
 - i. Owned or operated by the United States, a State, city, town, boroughs, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district, or drainage district, or similar entity, or an Native American tribe or an authorized Native American tribal organization, or designated and approved management agency under section 208 of the CWA that discharges to waters of the United States.
 - ii. Not defined as “large” or “medium” municipal separate storm sewer systems.
 - iii. This term includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings. (40 CFR §122.26(b)(16))

ABBREVIATIONS

1. **BASMAA** – Bay Area Stormwater Management Agencies Association
2. **BAU** – Benefit Assessment Unit
3. **BMI** – Benthic Macroinvertebrate
4. **BMP** – Best Management Practice
5. **CCC** – California Conservation Corps
6. **CDPD** – Napa County Conservation, Development, and Planning Department
7. **CWA** – Clean Water Act
8. **CWPC** – County-wide Program Coordinator
9. **DEM** – Napa County Department of Environmental Management
10. **DFG** – Department of Fish and Game
11. **ECP** – Erosion Control Plan
12. **FONR** – Friends of the Napa River
13. **FY** – Fiscal Year

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GLOSSARY AND ABBREVIATIONS

14. **JPA** – Joint Powers Authority
15. **MEP** – Maximum Extent Practicable
16. **MS4** - Small Municipal Separate Storm Sewer System
17. **NA** – Not Applicable
18. **NCFCWCD** – Napa County Flood Control and Water Conservation District
19. **NCSWMP** – Napa County Stormwater Management Program
20. **NSSSA** – Napa-Solano-Sonoma Stormwater Agencies
21. **NOI** – Notice of Intent
22. **NPDES** – National Pollutant Discharge Elimination System
23. **OWOW** – Our Water, Our World
24. **RCD** – Napa County Resource Conservation District
25. **RDRT** – Rutherford Dust Restoration Team
26. **RWQCB** – San Francisco Bay Regional Water Quality Control Board
27. **SFEP** – San Francisco Estuary Project
28. **SWMP** – Stormwater Management Program
29. **SWPPP** – Stormwater Pollution Prevention Plan
30. **SWRCB** – State Water Resources Control Board
31. **TMDL** – Total Maximum Daily Load
32. **WICC** – Watershed Information Center and Conservancy

Table 1. Overview of Measurable Goals FY06/07.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Too | Napa (City) | | Yountville | | St. Helena | | Calistoga | | Napa County | | County-wide | | |
|---|--|---|-------------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|---|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | |
| Public Education and Outreach | | | | | | | | | | | | | | | |
| 1. Characterize general public. | | | | | | | | | | | | | | | |
| 1D Conduct survey | Evaluate and improve survey as needed. Evaluate options for conducting survey and implement. | PM Get at least 300 responses to the survey. Repeat survey in 4th year. | | | | | | | | | | | | M | X |
| 2. Outreach to local government officials. | | | | | | | | | | | | | | | |
| 2C Annual progress reports | Present annual progress report to public officials. | PM Presentations given to local council members, and managers after each annual report is completed. | I | A | I | A | I | A | I | A | I | A | I | A | A |
| 3. Stormwater Website | | | | | | | | | | | | | | | |
| 3B Evaluate website | Receive feedback on website and continue development/updates. | PM Evaluate annually and continued development/ updates | | | | | | | | | | | | I | A |
| 4. Community Events | | | | | | | | | | | | | | | |
| 4A Develop booth | Develop booth to inform the public on the importance of reducing SW pollution and what they can do to reduce SW pollution. | PM Booth, outreach materials, and activities developed. | | | | | | | | | | | | I | A |
| 4B Staff booth at events | Staff SW booth at community events. | PM Attend at least 3 events per year. (e.g. Earth Day, Home and Garden Show, Symphony on the River, etc.) | | | | | | | | | | | | I | A |
| 4C Evaluate booth | Use the results from the public survey to assess the need to target additional pollutants/activities. | PM Continue booth development as needed. | | | | | | | | | | | | I | A |

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|---|---|--|-------------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation |
| 5. Outreach to general public | | | | | | | | | | | | | | |
| 5B Trash can decals | Provide bilingual (English and Spanish) trash can decals about proper disposal of hazardous waste and used oil. Include message "only rain down the drain". | PM Include with all cans provided by garbage service. | I | U | | | | | | | | | | |
| 5C Napa-Vallejo Household Haz Waster Facility | Continue to provide | PM Open to the public every Fri and Sat, (May-Oct) and two weekends per month (Nov-Apr). EM Quantity and types of waste collected. | I | A | | | | | | | | | | |
| 5D Upvalley hazardous waste collection | Continue to hold hazardous waste collection days for the upvalley community. | PM 2-4 events per year | | | | | | | | | | | I | NA |
| 5I | Place ad in Yellow pages and purchase "used Oil Recycling in Napa County" radio advertisement | PM Advertisement placed | I | A | | | | | | | | | I | A |
| 5J Used oil recycling (cont) | Provide Point of purchase info at stores that sell used oil. | PM 50 percent of businesses selling used oil participating first year. 80 Percent 2nd year. EM Amount of used oil collected. | U | U | | | | | | | | | I | NA |
| 5L Develop materials | Develop priority outreach materials | PM One new message/outreach piece per year. | | | | | | | | | | | I | A |
| 5M Distribute materials | Method of distribution will depend on the target audience of the outreach materials. | PM Materials distributed | | | | | | | | | | | I | A |

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|---|---|--|-------------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|---|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | |
| 6. Outreach to schools | | | | | | | | | | | | | | | |
| 6C Conduct presentations | Conduct presentations. | PM Present to 5 classrooms by 2nd year, 10 classrooms every year thereafter. | | | | | | | | | | | | I | A |
| 6D Evaluation | Conduct survey before and after presentation to assess understanding of SW pollution. | PM Survey conducted EM Results analyzed for accomplishments and deficiencies. | | | | | | | | | | | | I | A |
| 6E Program improvement | Improve program lesson plans and activities based on feedback from students and teachers. | PM Lesson plans and activities revised as needed. | | | | | | | | | | | | I | A |
| Public Involvement and Participation | | | | | | | | | | | | | | | |
| 2. Stormdrain Stenciling | | | | | | | | | | | | | | | |
| 2B SD stenciling program | Provide materials and supplies to citizens and groups. Advertise program on SW website, SW booth, and at applicable stewardship group meetings. | PM One SD stenciling event per year. | | | | | | | | | | | | I | A |
| 3. Water Quality Monitoring | | | | | | | | | | | | | | | |
| 3E Train volunteers | Implement training program to ensure data quality. | PM Volunteers trained | | | | | | | | | | | | M | X |
| 3F Monitoring | Implement volunteer water quality monitoring program. | PM Implement monitoring program. 12 sites FY 04/05; 18 sites FY 05/06. EM Use of data to establish needed programs and characterize water quality. | | | | | | | | | | | | M | X |
| 4. Creek Cleanups | | | | | | | | | | | | | | | |
| 4 Coast and Creek Cleanup Day | Promote and facilitate event. | PM Increase garbage collected and number of participants by 10% in 2003. EM Number of participants and amount of garbage collected. | | | | | | | | | | | | I | A |

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|--|---|--|-------------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation |
| 5. Stewardships | | | | | | | | | | | | | | |
| 5A Salvador Creek Stewardship | Hire the RCD to coordinate and support activities in the stewardship group. | PM Stewardship meeting held, mission statement adopted, and group activities conducted. | I | U | | | | | | | | | | |
| 5B Rutherford Dust Restoration Team | Provide staff to support restoration efforts along the Napa River in Rutherford. | PM Conceptual restoration plan developed. | | | | | | | | | I | A | | |
| Illicit Discharge Detection and Elimination | | | | | | | | | | | | | | |
| 1. Legal Authority | | | | | | | | | | | | | | |
| 1D ERP Training | Train appropriate staff on the policies and procedures of the ERP. | PM All relevant staff trained annually. | I | A | I | A | | | I | A | I | A | | |
| 2. Spill Response | | | | | | | | | | | | | | |
| 2E | Implement training program. Administer a survey at the beginning of the training to gauge staff's understanding of illicit discharges. At the end of the training, give case studies as a quiz to ensure staff can recognize illicit discharges and understand the procedures for responding to them. | PM All relevant staff trained. EM Staff performance on quiz. | I | A | I | A | | | I | A | I | A | | |
| 2G Record keeping | Dedicated staff will maintain and update data base and generate reports as requested. Reports used to determine common pollutants, activities contributing to non SW discharges, and repeat offenders. Information used to prioritize PEO efforts, business inspections, and conduct enforcement. | PM Annual reports generated on time. EM Use of reports to prioritize outreach and business inspections. Number of spills prevented from reaching waters of the State. | I | A | I | X | I | A | I | A | I | A | | |

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|------------------------------------|-------------------------|---|-------------|---|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation |
| 3. SD System Mapping | | | | | | | | | | | | | | |
| 3C | Fill in data gaps | Collect data to fill in data gaps | PM | Data gaps filled. | I | A | I | A | I | A | | | I | A |
| 3G | Fill in data gaps. | Collect data to fill in data gaps. | PM | Data gaps filled. | I | A | I | A | I | A | | | I | A |
| 4. Business Inspections | | | | | | | | | | | | | | |
| 4D | Training for inspectors | Develop and implement training program for inspectors. Use post survey to gauge inspector's understanding of the requirements | PM | Annual training for inspectors as appropriate. EM Score on post survey. | I | A | I | A | | | I | A | I | A |
| 4E | Inspections | Conduct restaurant inspections | PM | Inspect at least 90% of restaurants annually. EM % of restaurants in compliance | I | NA | | | | | I | NA | I | NA |
| | | | PM | Inspect at least 50% of restaurants annually. EM % of restaurants in compliance. | | | I | A | | | | | | |
| 4G | Inspections | Implement inspection program for businesses that handle hazardous materials and waste. | PM | Inspect at least 25% of business plan facilities per year. EM % of businesses in compliance | I | NA | | | | | I | NA | I | NA |
| | | | PM | Inspect at least 15% of business plan facilities per year. EM % of businesses in compliance | | | M | X | | | | | | |
| 4H | Business Newsletter | Produce and mail annual newsletter to businesses which includes a message on SW regulations and preventing SW pollution. | PM | Annual newsletter mailed to all regulated businesses. | | | | | | | | | I | A |

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|---|---|--|-------------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation |
| Construction Site Runoff Control | | | | | | | | | | | | | | |
| 1. Legal Authority | | | | | | | | | | | | | | |
| 1D ERP Training | Train appropriate staff on the ERP procedures and policies. | PM All relevant staff trained annually. | I | A | I | A | | | | | I | A | I | A |
| 3. Inspection Program | | | | | | | | | | | | | | |
| 3D Implement training program | Inspectors from each municipality to attend training program. | PM Annual training of all relevant inspectors. EM Use pre and post surveys to ensure that participants understand the requirements. | I | A | I | A | | | | | I | A | I | A |
| 3E Implement inspection program | Inspect construction sites prior to the onset of the wet season and after major storm events. | PM Inspect 5 construction sites within 48 hours of a major (>0.25 inches) storm event. EM % of sites inspected during wet season; % of sites in compliance. | I | A | | | | | | | | | I | A |
| | | PM Inspect all projects > 1 acre at onset of the wet season; Inspect all projects > 1 acre within 48 hours of a storm event (>0.25 inches/24hours) from April 16th through December 31st Inspect all projects > 1 acre within 48 hours of a storm event (>1.0 inches/24hours) from January 1 through April 15th. EM % of sites inspected during wet season; % of sites in compliance. | | | I | A | I | A | I | A | | | | |

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|---|--|--|--|-----------------------------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|---|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | |
| 4. Outreach | | | | | | | | | | | | | | | |
| 4B Provide BMP fact sheet(s) for construction activities | Provide BMP fact sheets, guidance documents, and handbooks to contractors and developers | PM Informational materials (Stormwater BMP Handbooks, ESC Field manual, Guidelines for Construction Projects, etc.) provided to | | | | | | | | | | | | I | A |
| 4D Construction site erosion control workshop | Encourage planners, inspectors, municipal staff, contractors, and architects to attend annual construction workshops held by the Regional Board and SFEI | PM Sponsor one workshop every other year. EM Attendance | | | | | | | | | | | | I | A |
| 4E Construction site erosion control workshop | Attend workshop. | PM At least one planner or inspector and one public works employee shall attend every other year. | NI | NA | I | A | I | NA | I | A | I | A | | | |
| Post-Construction Runoff Management | | | | | | | | | | | | | | | |
| 1. Legal Authority | | | | | | | | | | | | | | | |
| 1D ERP Training | Train appropriate staff on the ERP procedures and policies. | PM All relevant staff trained annually. | I | A | M | X | | | I | A | M | X | | | |
| 2. Design Standards, * = standards in Attachment 4 of State Municipal General Permit. | | | | | | | | | | | | | | | |
| Design Standards Attachment 4* - All categories: Single-Family Hillside Residences, 100,000 sq. ft. Commercial Developments, Automotive Repair Shops, Retail Gasoline Outlets, Restaurants, Home Subdivisions with 10 or more housing units, Parking Lots 5,000 sq ft or more or with 25 or more parking spaces | | | | | | | | | | | | | | | |
| 2B Peak SW runoff discharge rates | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | | | I | A | | | M | X | M | X | | | |
| 2C Conserve natural areas | | | | | I | A | | | M | X | M | X | | | |
| 2D Minimize SW pollutants of concern | | | | | I | A | | | M | X | M | X | | | |
| 2E Protect slopes and channels | | | | | I | A | | | M | X | M | X | | | |
| 2F Provide SD system stenciling and signage | | | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | | | I | A | | | M | X | M | X | |

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|---|--|------------------------------------|-------------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation |
| 2G Properly design outdoor material storage areas | | | | | I | A | | | M | X | M | X | | |
| 2H Properly design trash storage areas | | | | | I | A | | | M | X | M | X | | |
| 2I Provide proof of ongoing BMP maintenance | | | | | I | A | | | M | X | M | X | | |
| 2J Design standards for structural of treatment control BMP's | | | | | I | A | | | M | X | M | X | | |
| Design Standards Attachment 4* - 100,000 sq. ft commercial | | | | | | | | | | | | | | |
| 2K Properly design loading/unloading dock areas. | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | | | I | A | | | M | X | M | X | | |
| 2L Properly design repair/maintenance bays | | | | | I | A | | | M | X | M | X | | |
| 2M Properly design vehicle/equipment wash areas | | | | | I | A | | | M | X | M | X | | |
| Design Standards Attachment 4* - Restaurants | | | | | | | | | | | | | | |
| 2N Properly design equipment/accessory wash areas | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | | | I | A | | | M | X | M | X | | |
| Design Standards Attachment 4* - Retail gasoline outlets | | | | | | | | | | | | | | |
| 2O Properly design fueling area | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | | | I | A | | | M | X | M | X | | |
| Design Standards Attachment 4* - Automotive repair shops | | | | | | | | | | | | | | |
| 2P Properly design fueling area | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | | | I | A | | | M | X | M | X | | |
| 2Q Properly design repair/maintenance bays | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | | | I | A | | | M | X | M | X | | |

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|---|---|--|-------------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation |
| 2R Properly design vehicle/equipment wash areas | | | | | I | A | | | M | X | M | X | | |
| 2S Properly design loading/unloading dock areas. | | | | | I | A | | | M | X | M | X | | |
| Design Standards Attachment 4* - Parking Lots | | | | | | | | | | | | | | |
| 2T Properly designing parking areas | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | | | I | A | | | M | X | M | X | | |
| 2U Properly design to limit oil contamination and perform maintenance | | | | | I | A | | | M | X | M | X | | |
| 2V Consider other appropriate design standards. | Identify and develop other design standards appropriate to community. | PM Additional design standards considered to protect water quality identified. | | | I | A | | | M | X | M | X | | |
| 3. Plan Review Process | | | | | | | | | | | | | | |
| 3A Develop plan review process | Review and revise plan review process to incorporate new requirements for Post-construction. Plan review process includes a checklist and instructions. | PM Plan review process revised to incorporate new requirements for post-construction. | | | I | A | | | M | X | M | X | | |
| 3B Develop training program | Develop training program on new revised plan review process. | PM Training program developed. | | | I | A | | | M | X | | | | |
| 3C Implement training program | Implement training program for revised plan review process. | PM Inspection program implemented. Ensure that 100% of the participants understand the requirements. Hold one training session per year. | I | A | I | A | | | M | X | | | | |

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Evaluation: A = Quantifiable target achieved; NA = Quantifiable target not achieved; U = Unknown; X = Not Applicable

Table 1. Overview of Measurable Goals FY06/07.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Too | Napa (City) | | Yountville | | St. Helena | | Calistoga | | Napa County | | County-wide | |
|---|--|--|-------------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation |
| 3D Adopt plan review process. | Adopt revised plan review process. | PM Process implemented; require all construction sites > 1 acre to incorporate appropriate structural and/or nonstructural controls to the MEP. | | | I | A | I | A | M | X | M | X | | |
| 4. Long-term Maintenance | | | | | | | | | | | | | | |
| 4C Develop inspection and maintenance schedule. | Develop an inspection and maintenance schedule to maximize efficiency and minimize labor requirements. | PM Completed inspection and maintenance schedule. | | | M | X | | | M | X | M | X | | |
| 4D Train maintenance staff. | Develop a training program on proper inspection and maintenance of structural controls, BMPs, and record keeping. | PM Use post test to ensure workers understand training materials and measurable goals. Check records quarterly to ensure compliance with schedule and BMPs 80% of the time. | I | A | M | X | | | M | X | M | X | | |
| 4E Implement maintenance schedule. | Inspect and maintain structural controls according to implementation schedule. | PM Check records to ensure compliance with schedule and BMPs 80% of the time. | NI | NA | M | X | I | A | M | X | M | X | | |
| 5. Outreach | | | | | | | | | | | | | | |
| 5A Workshop | Hold annual workshop explaining new requirements and the appropriate use and maintenance of structural and nonstructural control measures. | PM Annual workshops held. EM Attendance. | | | | | | | | | | | NI | X |

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Table 1. Overview of Measurable Goals FY06/07.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Too | Napa (City) | | Yountville | | St. Helena | | Calistoga | | Napa County | | County-wide | |
|---|--|---|-------------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation |
| Municipal Operations | | | | | | | | | | | | | | |
| 1. Street Sweeping | | | | | | | | | | | | | | |
| 1A Street sweep according to Table 8. | Street sweep according to schedule in Table 8. | PM Review records quarterly to ensure compliance to schedule in Table 1 80% of the time. | I | A | I | A | I | A | I | A | I | A | | |
| 1E Sweeping Program Evaluation | Evaluate effectiveness of program and make recommendations for improvement (e.g. alter scheduling, frequency, address parked cars, etc.) based on data collected | PM Evaluation completed, report with recommendations produced annually. EM Recommendations made. | NI | NA | I | A | I | A | I | A | I | A | | |
| 1G Staff and contractor | Annually train municipal staff and contract sweepers on O&M standards measurable goals, implementation plans, and record keeping. Use pre and post survey to gauge staffs knowledge of O&M standards and record-keeping practices. | PM All relevant staff and contractors trained annually. EM Staff understanding of O&M standards and record-keeping practices. | NI | NA | I | A | I | A | I | A | I | A | | |
| 2. Storm Drain Maintenance | | | | | | | | | | | | | | |
| 2B Training | Train municipals staff on use of BMP's. | PM All relevant staff trained annually | I | A | I | A | I | A | I | A | I | A | | |
| 2C Routine Inspection and Cleaning | Inspect and clean SD's according to Table 8. | PM Review records quarterly to ensure compliance to schedule in Table 1 80% of the time. | I | A | I | A | I | A | I | A | I | A | | |
| 3. Stormwater Pump Stations | | | | | | | | | | | | | | |
| 3B Train municipal staff | Educate all personnel responsible for SW pump stations about these | PM All relevant staff trained annually | I | A | | | | | | | | | | |
| 3C Visual Inspections | Inspect wet wells and forebays for oil spills or other pollutant discharges | PM Once in June and once in August; Once/month Oct - April. | I | A | | | | | | | | | | |
| 3D Maximize pollutant removal prior to discharge. | Conduct comprehensive cleaning of wet wells. | PM Pump stations cleaned annually; prior to wet season. | I | A | | | | | | | | | | |

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Table 1. Overview of Measurable Goals FY06/07.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Too | Napa (City) | | Yountville | | St. Helena | | Calistoga | | Napa County | | County-wide | |
|---|--|---|-------------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|------------|
| | | | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation | Status | Evaluation |
| 4. Litter Control | | | | | | | | | | | | | | |
| 4A Services | Provide litter receptacles in litter source areas and empty regularly to prevent spills | PM Receptacles provided and maintained. | I | U | I | A | I | A | I | A | I | A | | |
| 4C Education | Label litter receptacles with anti-littering message | PM 25% of receptacles by 2nd year; 50% by 4th year. | I | U | I | A | | | NI | NA | I | A | | |
| 5. Corporation Yards | | | | | | | | | | | | | | |
| 5B | Develop a plan for SW management. Includes necessary capital improvements, O&M standards, and training programs. | PM SWPPP developed with timeline for implementation. | I | A | I | NA | | | NI | NA | I | A | | |
| 5C | Implement items from SWPPP. | PM Items implemented over three to five year period. EM Number and types of BMP's impleneted | NI | NA | I | NA | I | A | NI | NA | I | A | | |
| 6. Road Maintenance | | | | | | | | | | | | | | |
| 6C Training | Train employees on O&M standards for roads. Post-survey used to evaluate staff understanding of BMP's | PM All relevant staff trained annually. | I | A | M | X | | | I | A | I | A | | |
| 7. Creek and Ditch maintenance | | | | | | | | | | | | | | |
| 7C Training | Train all relevant staff and contractors on maintenance standards. | PM All relevant staff trained annually. | NI | NA | I | X | | | I | A | I | A | | |
| 8. Parks and Recreation Facilities | | | | | | | | | | | | | | |
| 8A Assessment | Assess the condition of parks and related facilities (e.g. erosion, | PM Assessment completed for one park/agency per year | I | A | I | A | I | A | I | A | X | X | | |
| 8C Training | Train all appropriate employees on O&M standards and use of BMP's. Use a post-training quiz to ensure staff understand use of BMP's. | PM All relevant staff trained annually. EM Staff understanding of O&M standards and use of BMP's. | I | A | I | A | | | I | A | X | X | | |
| 9. Other Municipal Activities | | | | | | | | | | | | | | |
| 9B Assessment | Assess facility conditions and operating procedures. | PM Assessment completed. | I | A | I | A | I | A | I | A | I | A | | |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|---|--|---|-----------------|------------|
| | | | Status | Evaluation |
| ELEMENT I - PUBLIC EDUCATION AND OUTREACH | | | | |
| 2. Outreach to local government officials. | | | | |
| 2C Annual progress reports | Present annual progress report to public officials. | PM Presentations given to local council members, and managers after each annual report is completed. | I | A |
| 3. Stormwater Website | | | | |
| 3C Update City Website | Update the City's website with information on the SWMP, illicit discharge hotline, upcoming workshops/events, FAQ, and BMP's for businesses and residences. Website will be a stand-alone site. Provide a link to the NCSWMP site. | PM1 Website developed PM2 Link provided to NCSWMP website. EM Number of visits to website. | M | A |
| 4. Community Events | | | | |
| 4B Staff SW booth at community events. | Staff SW booth at community events. | PM Attend at least one Countywide public event and two City events annually. (Fourth of July, Healthy People Healthy Planet, etc.) PM2 Distribute general storm water brochure and BMP materials. | I | A |
| 5. Outreach to general public | | | | |
| 5L Develop materials | Develop priority outreach materials | PM Develop a general storm water pollution prevention brochure. | X | X |
| 5N Continue to provide tours at the City Waste Water Treatment Plant | Waste Water Treatment Plant Staff to Continue to provide facility tours to the public | PM Public tours are conducted. EM Number of guests touring WWTP facilities | I | A |
| 5O Continue to publish stormwater quality related events and articles in the local newspaper. | Publish stormwater quality related events and articles in the local newspaper. | PM Publish articles 4 times annually. | I | A |
| 5P Continue City mercury elimination program outreach. | Conduct mercury elimination outreach to residents and businesses in American Canyon. | PM1 Conduct outreach campaign and advertise one or more mercury disposal days, annually. PM2 Evaluate mercury drives and modify collection efforts accordingly. | I | NA |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | | |
|------------------------------------|---|---|---|------------|---|
| | | | Status | Evaluation | |
| 6F | Review NCSWMP developed materials | Review educational materials developed by NCSWMP to incorporate new information into the City's presentation. | PM Incorporate at least one educational item or activity from NCSWMP materials. | M | A |
| 6G | Continue to conduct stormwater and pollution prevention presentations to third grade classes. | Conduct stormwater and pollution prevention presentations to third grade classes. | PM Continue to conduct six presentations annually. | I | A |

ELEMENT II - PUBLIC INVOLVEMENT AND PARTICIPATION

| 1. Public Comment on SWMP | | | | | |
|---------------------------|----------------------------------|---|---|---|---|
| 1A | Public comment on SWMP | Invite public to comment on Stormwater Management Plan as required by State and local public notice requirements. | PM Send notice of request for comments on SWMP to environmental and business groups. EM Number | I | A |
| 1B | Response to comments | Respond to comments. | PM Submit written comments to public. | I | A |
| 1C | Revise SWMP | Revise Storm Water Management Plan based on comments. | PM Revision complete. EM Revisions made. | I | A |
| 4. Creek Cleanups | | | | | |
| 4 | Coast and Creek Cleanup Day | Promote and facilitate event. | PM Increase garbage collected and number of participants by 10% in 2003. EM Number of participants and amount of garbage collected. | I | A |
| 5. Stewardships | | | | | |
| 5A | Salvador Creek Stewardship | Hire the RCD to coordinate and support activities in the stewardship group. | PM Stewardship meeting held, mission statement adopted, and group activities conducted. | X | X |
| 5B | Rutherford Dust Restoration Team | Provide staff to support restoration efforts along the Napa River in Rutherford. | PM Conceptual restoration plan developed. | X | X |

ELEMENT III - ILLICIT DISCHARGE DETECTION AND ELIMINATION

| 1. Legal Authority | | | | | |
|--------------------|--------------------|---|---|---|---|
| 1B | Evaluate and amend | Evaluate effectiveness of ordinance w.r.t pollutants addressed. | PM Ordinance evaluated and amended as necessary. EM Recommendations made. | I | A |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|---------------------------------------|--|--|-----------------|------------|
| | | | Status | Evaluation |
| 1D ERP Training | Train appropriate staff on the policies and procedures of the ERP. | PM All relevant staff trained annually. | I | A |
| 1E Evaluate and amend ERP | Evaluate effectiveness of ERP w.r.t. ensuring compliance with the SW ordinance. | PM ERP evaluated and modified as necessary. EM % of violators improving pollution prevention practices. Number and type of discharges not abated. | NI | NA |
| 1F Review City stormwater ordinance. | Review City stormwater ordinance for compliance with Phase II Permit requirements and for continuity with NCSWMP guidance. | PM Draft of recommendations for ordinance amendments. | I | A |
| 1G Amend Ordinance | Amend ordinance as necessary to address Phase II Permit requirements. | PM1 Document staff recommendations for ordinance amendment. PM2 Ordinance amended. | I | A |
| 1H Document Enforcement Response Plan | Document in a manual established actions taken for violations, timeframes for action, by whom the actions are taken, and escalating enforcement actions. | PM Enforcement Response Plan documented. | I | A |
| 1I ERP Training | Train appropriate staff on the policies and procedures of the ERP, and provide a copy of the ERP document. | PM All relevant staff trained annually. | M | A |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | | |
|------------------------------------|--|---|--|--|------|
| | | | Status | Evaluation | |
| 2. Spill Response | | | | | |
| 2A | Reporting forms and database. | Review other agencies' reporting forms and databases. Develop reporting forms and database. | PM1 Database and reporting forms developed. | PM2 Provide staff training on use of forms. | I A |
| 2D | Staff training | Develop training program for receiving calls, identifying illicit discharges, spill clean-up, and educating the public on the use of BMP's | PM Training program developed. | | M A |
| 2E | | Implement training program. Administer a survey at the beginning of the training to gauge staff's understanding of illicit discharges. At the end of the training, give case studies as a quiz to ensure staff can recognize illicit discharges and understand the procedures for responding to them. | PM All relevant staff trained. EM Staff performance on quiz. | | M NA |
| 2G | Record keeping | Dedicated staff will maintain and update data base and generate reports as requested. Reports used to determine common pollutants, activities contributing to non SW discharges, and repeat offenders. Information used to prioritize PEO efforts, business inspections, and conduct enforcement. | PM Annual reports generated on time. EM Use of reports to prioritize outreach and business inspections. Number of spills prevented from reaching waters of the State. | | M NA |
| 2K | Non-Stormwater Discharge Reporting | Review feasibility of placing spill reporting phone number in the phone book. | PM In the annual report, report the phone number heading and location in the phone book or report on why placement was not feasible. | | I A |
| 3. SD System Mapping | | | | | |
| 3B | Identify data gaps. | Identify data gaps. | PM Data gaps identified. | | I A |
| 3F | Identify data gaps. | Identify data gaps. | PM Data gaps identified. | | I A |
| 3H | Draw final map. | Complete mapping of the storm drainage system including inlets, piping, outfalls and receiving waters. | PM Drainage system map available to staff and public in FY 05/06. | | I A |
| 4. Business Inspections | | | | | |
| 4B | Distribute BMP booklets | Distribute BMP guides during routine restaurant inspections and all restaurant permit applications. | PM Distributed to all restaurants inspected and with all restaurant permit applications. EM % of businesses in compliance | | I NA |
| 4C | Develop inspection forms and database. | Develop inspection forms and data base to track business compliance and program performance. | PM Forms and database developed. | | M A |
| 4D | Training for inspectors | Develop and implement training program for inspectors. Use post survey to gauge inspector's understanding of the requirements. | PM Annual training for inspectors as appropriate. EM Score on post survey. | | I U |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|--|--|---|-----------------|------------|
| | | | Status | Evaluation |
| 4E Inspections | Conduct restaurant inspections | PM Inspect at least 90% of restaurants annually. EM % of restaurants in compliance. | X | X |
| | | PM Inspect at least 50% of restaurants annually. EM % of restaurants in compliance. | I | NA |
| 4F Hazardous waste disposal | Develop and mail brochures to businesses on proper hazardous waste disposal. | PM Developed and sent to 1/2 of businesses 1st year, 1/2 of businesses 2nd year. | I | U |
| 4G Inspections | Implement inspection program for businesses that handle hazardous materials and waste. | PM Inspect at least 25% of business plan facilities per year. EM % of businesses in compliance. | I | U |
| 4I Develop Inspection forms | Develop inspection forms for commercial and industrial inspections. | PM Inspection form completed and in use. | I | U |
| 4J List NPDES Permitted facilities | Develop a list of NPDES permitted facilities. | PM List completed. | I | A |
| 4K Inspect NPDES permitted facilities | Inspect NPDES permitted facilities. | PM1 Begin inspections in FY 2005-2006. PM2 Complete inspections in FY 2006-2007. | I | A |
| 4L Develop and inspection program for the prioritized list of businesses. | Develop and inspection program for the prioritize list of businesses. | PM Written program procedures completed. Program to include inspection types and frequencies. | I | U |
| 4M Implement the inspection program for the prioritized list of businesses. | Implement the inspection program for the prioritized list of businesses. | PM Report inspection and enforcement types and quantities in the annual report. | I | U |
| 4N Determine how many businesses handle hazardous waste materials and waste. | Determine how many businesses handle hazardous waste materials and waste. | PM Create an inventory of businesses handling hazardous wastes and waste materials. | I | U |

ELEMENT IV - CONSTRUCTION SITE RUNOFF CONTROL

| 1. Legal Authority | | | | |
|------------------------------------|--|--|----|----|
| 1B Evaluate ordinance | Evaluate requirements and compliance with local, state, and federal regulations. | PM Ordinance evaluated and amended as necessary. | I | A |
| 1C Enforcement Response Plan (ERP) | Establish actions taken for violations, a timeframe for action, by whom the actions will be taken, and along what paths enforcement will be escalated. | PM Enforcement Response Plan documented . | M | A |
| 1D ERP Training | Train appropriate staff on the ERP procedures and policies. | PM All relevant staff trained annually. | NI | NA |
| 1E Evaluate and amend ERP | Evaluate effectiveness of ERP w.r.t. ensuring compliance with the SW ordinance. | PM ERP evaluated and modified as necessary. | X | X |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | | |
|------------------------------------|-------------------------------|---|--|------------|---|
| | | | Status | Evaluation | |
| 2. Plan review process | | | | | |
| 2A | Develop review process | Review and revise plan review process. Develop plan check list and instructions. Include relevant State and Federal permits in checklist. | PM Plan review process developed; plan check list and instructions developed. | I | A |
| 2B | Draft training materials | Develop training program for plan review staff. | PM Training program developed. | I | A |
| 2C | Implement training program | Develop training program for plan review staff. | PM Training program developed. | I | A |
| 2D | Implement Plan Review Process | Implement plan review process to ensure that construction sites > 1 acre are covered by the NPDES Construction Permit and projects < 1 acre include plans for ESC measures. | PM Plan review process implemented. EM % approved with an ESC plan; % approved in compliance with State and Federal regulations. | I | U |
| 3. Inspection Program | | | | | |
| 3D | Implement training program | Inspectors from each municipality to attend training program. | PM Annual training of all relevant inspectors. EM Use pre and post surveys to ensure that participants understand the requirements. | I | A |
| 3E | Implement inspection program | Inspect construction sites prior to the onset of the wet season and after major storm events. | PM Inspect 5 construction sites within 48 hours of a major (>0.25 inches) storm event. EM % of sites inspected during wet season; % of sites in compliance. | I | A |
| | | | PM Inspect all projects > 1 acre at onset of the wet season; Inspect all projects > 1 acre within 48 hours of a storm event (>0.25 inches/24hours) from April 16th through December 31st; Inspect all projects > 1 acre within 48 hours of a storm event (>1.0 inches/24hours) from January 1 through April 15th. EM % of sites inspected during wet season; % of sites in compliance. | | |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|---|--|--|-----------------|------------|
| | | | Status | Evaluation |
| 4. Outreach | | | | |
| 4B Provide BMP fact sheets) for construction activities | Provide BMP fact sheets, guidance documents, and handbooks to contractors and developers | PM Informational materials (Stormwater BMP Handbooks, ESC Field manual, Guidelines for Construction Projects, etc.) provided to public upon request. EM # distributed. | I | U |
| 4E Construction site erosion control workshop | Attend workshop. | PM At least one planner/inspector and one public works employee shall attend. | I | A |

ELEMENT V - POST-CONSTRUCTION RUNOFF MANAGEMENT

| | | | | |
|--|--|--|----|----|
| 1. Legal Authority | | | | |
| 1B Evaluate and revise ordinance | Evaluate effectiveness of ordinance and revise as appropriate. | PM Ordinance evaluated and revised. | I | A |
| 1C Enforcement Response Plan (ERP). | Establish actions taken for violations, a timeframe for action, by whom the actions will be taken, and along what paths enforcement will be escalated. | PM Enforcement Response Plan developed and adopted. | M | A |
| 1D ERP Training | Train appropriate staff on the ERP procedures and policies. | PM All relevant staff trained annually. | M | A |
| 1E Evaluate and amend ERP | Evaluate effectiveness of ERP w.r.t. ensuring compliance with the SW ordinance. | PM ERP evaluated and modified as necessary. EM Recommendations made. | NI | U |
| 2. Design Standards, * = standards in Attachment 4 of State Municipal General Permit. | | | | |
| Design Standards Attachment 4* - All categories: Single-Family Hillside Residences, 100,000 sq. ft. Commercial Developments, Automotive Repair Shops, Retail | | | | |
| 2A Introductory training | Develop training materials and curricula. | PM Materials and curricula developed. | I | A |
| 2B Peak SW runoff discharge rates | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | M | NA |
| 2C Conserve natural areas | | | M | M |
| 2D Minimize SW pollutants of concern | | | M | M |
| 2E Protect slopes and channels | | | NI | M |
| 2F Provide SD system stenciling and signage | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | M | M |
| 2G Properly design outdoor material storage areas | | | M | M |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|---|---------------------|-------------------------------------|-----------------|------------|
| | | | Status | Evaluation |
| 2H Properly design trash storage areas | | | M | M |
| 2I Provide proof of ongoing BMP maintenance | | | M | M |
| 2J Design standards for structural of treatment control BMP's | | | M | M |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|--|--|-------------------------------------|-----------------|------------|
| | | | Status | Evaluation |
| Design Standards Attachment 4* - 100,000 sq. ft commercial | | | | |
| 2K Properly design loading/unloading dock areas. | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | M | M |
| 2L Properly design repair/maintenance bays | | | M | M |
| 2M Properly design vehicle/equipment wash areas | | | M | M |
| Design Standards Attachment 4* - Restaurants | | | | |
| 2N Properly design equipment/accessory wash areas | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | M | M |
| Design Standards Attachment 4* - Retail gasoline outlets | | | | |
| 2O Properly design fueling area | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | M | M |
| Design Standards Attachment 4* - Automotive repair shops | | | | |
| 2P Properly design fueling area | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | M | M |
| 2Q Properly design repair/maintenance bays | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | M | M |
| 2R Properly design vehicle/equipment wash areas | | | M | M |
| 2S Properly design loading/unloading dock areas. | | | M | M |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|---|--|---|-----------------|------------|
| | | | Status | Evaluation |
| Design Standards Attachment 4* - Parking Lots | | | | |
| 2T Properly designing parking areas | Adopt standard in attachment 4 of the State General Permit | PM Design standard adopted | M | M |
| 2U Properly design to limit oil contamination and perform maintenance | | | M | M |
| 2V Consider other appropriate design standards. | Identify and develop other design standards appropriate to community. | PM Additional design standards considered to protect water quality identified. | X | X |
| 2W Adopt design standards | Adopt design standards identified in task 2X. | PM Design standards adopted | X | X |
| 3. Plan Review Process | | | | |
| 3A Develop plan review process | Review and revise plan review process to incorporate new requirements for Post-construction. Plan review process includes a checklist and instructions. | PM Plan review process revised to incorporate new requirements for post-construction. | M | A |
| 3B Develop training program | Develop training program on new revised plan review process. | PM Training program developed. | M | A |
| 3C Implement training program | Implement training program for revised plan review process. | PM Inspection program implemented. Ensure that 100% of the participants understand the requirements. Hold one training session per year. | M | A |
| 3D Adopt plan review process. | Adopt revised plan review process. | PM Process implemented; require all construction sites > 1 acre to incorporate appropriate structural and/or nonstructural controls to the MEP. | M | NA |
| 4. Long-term Maintenance | | | | |
| 4B Identify all structural controls operated by the Municipality. | Locate, map, photograph and describe the site conditions of the structural controls. Group the different structural controls with their respective BMPs in a final report. | PM Completed report. | I | U |
| 4C Develop inspection and maintenance schedule. | Develop an inspection and maintenance schedule to maximize efficiency and minimize labor requirements. | PM Completed inspection and maintenance schedule. | M | M |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|------------------------------------|---|---|-----------------|------------|
| | | | Status | Evaluation |
| 4D Train maintenance staff. | Develop a training program on proper inspection and maintenance of structural controls, BMPs, and record keeping. | PM Use post test to ensure workers understand training materials and measurable goals. Check records quarterly to ensure compliance with schedule and BMPs 80% of the time. | M | M |
| 4E Implement maintenance schedule. | Inspect and maintain structural controls according to implementation schedule. | PM Check records to ensure compliance with schedule and BMPs 80% of the time. | M | M |
| 4F Develop policy | Develop policy to ensure long-term maintenance of BMP's | PM Policy developed. | M | M |

ELEMENT VI - MUNICIPAL OPERATIONS

| 1. Street Sweeping | | | | | |
|--------------------|------------------------------------|---|---|---|----|
| 1A | Street sweep according to Table 8. | Street sweep according to schedule in Table 8. | PM Review records quarterly to ensure compliance to schedule in Table 1 80% of the time. | I | A |
| 1A | Street sweeping | Sweep residential and commercial streets. | PM Twice monthly. | I | A |
| 1E | Sweeping Program Evaluation | Evaluate effectiveness of program and make recommendations for improvement (e.g. alter scheduling, frequency, address parked cars, etc.) based on data collected. | PM Evaluation completed, report with recommendations produced annually. EM Recommendations made. | I | U |
| 1G | Staff and contractor | Annually train municipal staff and contract sweepers on O&M standards, measurable goals, implementation plans, and record keeping. Use pre and post survey to gauge staffs knowledge of O&M standards and record-keeping practices. | PM All relevant staff and contractors trained annually. EM Staff understanding of O&M standards and record-keeping practices. | I | NA |
| 1H | Parked and abandoned vehicles | Assess which areas have high numbers of parked cars reducing street sweeping effectiveness. | PM Assessment completed. | M | NA |
| 1I | | Develop two different outreach programs to reduce parked cars that interfere with sweeping. | PM 2 pilot programs implemented | M | NA |
| 1J | | Identify areas to pilot outreach program. | PM Areas identified | M | NA |
| 1K | | Implement pilot programs in areas with high numbers of parked cars. | PM Pilot programs implemented. | X | X |

Status: I = Implemented; NI = Not Implemented; M = Modified

Evaluation: A = Quantifiable target achieved; NA = Quantifiable target not achieved; U = Unknown; X = Not Applicable

Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|---------------------------------------|--|---|-----------------|------------|
| | | | Status | Evaluation |
| 1L | Evaluate success of pilot programs to determine if full implementation is desirable. Success = measurable decrease in average number of cars on streets. | PM Completed evaluation. EM % increase in sweepable area. | X | X |
| 1M Leaves during Leaf Season | Assess which areas have high volume of leaves during Leaf Season | PM Completed assessment. | X | X |
| 1N | Investigate and evaluate at least two appropriate leaf handling methods. Prioritize methods for pilot programs. | PM Evaluation and prioritization of leaf handling methods. | X | X |
| 1O | Implement pilot programs to reduce volume of leaves on streets. | PM Measures implemented | X | X |
| 1P | Evaluate success of pilot programs | PM Evaluation completed EM Increase sweepable areas by 10%. | X | X |
| 1Q | Implement most effective program to reduce leaves on streets. | PM Program implemented EM Increase total sweepable areas by 25% over 2 years. | X | X |
| 1R Trees near streets | Assess the miles of streets that have trees interfering with street cleaning. | PM Assessment completed. | I | A |
| 1S | Investigate and evaluate at least two appropriate methods to reduce tree interference with street cleaning. Prioritize methods for pilot programs. | PM Methods evaluated and prioritized. | I | A |
| 1T | Pilot measures to reduce tree interference with street cleaning. | PM Methods implemented | I | A |
| 1U | Evaluate success of pilot programs | PM Evaluation completed. EM Increase sweepable areas by 25%. | X | X |
| 1V | Expand pilot programs to other areas if successful. | PM Pilot program implemented. EM Increase total sweepable areas by 25% over 2 years. Evaluate mid-term. | X | X |
| 2. Storm Drain Maintenance | | | | |
| 2A Develop maintenance standards | Develop maintenance standards for handling and disposal of SD debris. | PM Standards developed | I | A |
| 2B Training | Train municipals staff on use of BMP's. | PM All relevant staff trained annually | I | A |
| 2C Routine Inspection and Cleaning | Inspect and clean SD's according to Table 8. | PM Review records quarterly to ensure compliance to schedule in Table 1 80% of the time. | I | A |
| 2D | Assess the need for more frequent cleaning of stormdrains. | PM Assessment completed. EM Recommendations made. | NI | NA |

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Evaluation: A = Quantifiable target achieved; NA = Quantifiable target not achieved; U = Unknown; X = Not Applicable

Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|---|---|---|-----------------|------------|
| | | | Status | Evaluation |
| 2E Storm Drain Stenciling Maintenance | Install markers on existing inlets and maintain legibility of existing storm drain markers. | PM Develop and document marker maintenance protocols. | I | A |
| 3. Stormwater Pump Stations | | | | |
| 3B Train municipal staff | Educate all personnel responsible for SW pump stations about these maintenance standards. | PM All relevant staff trained annually | X | X |
| 3C Visual Inspections | Inspect wet wells and forebays for oil spills or other pollutant discharges. | PM Once in June and once in August; Once/month Oct - April. | X | X |
| 3D Maximize pollutant removal prior to discharge. | Conduct comprehensive cleaning of wet wells. | PM Pump stations cleaned annually; prior to wet season. | X | X |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|--|--|---|-----------------|------------|
| | | | Status | Evaluation |
| 4. Litter Control | | | | |
| 4A Services | Provide litter receptacles in litter source areas and empty regularly to prevent spills. | PM Receptacles provided and maintained. | I | A |
| 4B Assessment | Document areas targeted for litter removal and assess the need for additional/better trash receptacles or more frequent collection. | PM Assessment completed EM Recommendations made. | I | A |
| 4C Education | Label litter receptacles with anti-littering message | PM 25% of receptacles by 2nd year; 50% by 4th year. | X | X |
| 4D Education | Develop strategy for placing litter and pet waste signs. | PM Strategy developed for placing litter and pet waste signs | I | A |
| 4E Inventory trouble spots. | Inventory litter trouble spots. | PM Document trouble spots EM Trouble spots cleaned weekly. | I | A |
| 5. Corporation Yards | | | | |
| 5A Prepare SWPPP | Develop a map that shows all facilities, potential sources of pollution, and direction of drainage | PM Map and inventory developed | I | A |
| 5B SWPPP | Develop a plan for SW management. Includes necessary capital improvements, O&M standards, and training programs. | PM SWPPP developed with timeline for implementation. | M | A |
| 5C SWPPP | Implement items from SWPPP. | PM Items implemented over three to five year period. EM Number and types of BMP's implemented | M | A |
| 5D Incorporate post construction BMP into Corporation Yard improvements. | Review construction drawings for corporation yard improvements. | PM Incorporate post construction BMPs into site design. | I | A |
| 6. Road Maintenance | | | | |
| 6B Develop maintenance standards | Develop maintenance standards for roads | PM Standards developed | I | A |
| 6C Training | Train employees on O&M standards for roads. Post-survey used to evaluate staff understanding of BMP's. | PM All relevant staff trained annually. | I | A |
| 7. Creek and Ditch maintenance | | | | |
| 7B Record-keeping | Develop forms to track stream and channel conditions, maintenance work conducted, and inspections to ensure work was conducted according to standards. | PM Forms and database developed EM % of work done according to standards. | I | U |
| 7C Training | Train all relevant staff and contractors on maintenance standards. | PM All relevant staff trained annually. | I | U |

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Table 1. Overview of Measurable Goal Implementation for FY 06/07 (Local Programs)

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | American Canyon | |
|---|--|---|-----------------|------------|
| | | | Status | Evaluation |
| 8. Parks and Recreation Facilities | | | | |
| 8A Assessment | Assess the condition of parks and related facilities (e.g. erosion, chemical use, etc.) | PM Assessment completed for one park/agency per year | I | U |
| 8C Training | Train all appropriate employees on O&M standards and use of BMP's. Use a post-training quiz to ensure staff understand use of BMP's. | PM All relevant staff trained annually. EM Staff understanding of O&M standards and use of BMP's. | NI | NA |
| 9. Other Municipal Activities | | | | |
| 9A Prioritize | Prioritize all other municipal activities that could affect SW. | PM Municipal activities prioritized. | I | U |
| 9B Assessment | Assess facility conditions and operating procedures. | PM Assessment completed. | | |
| 9D Training | Train appropriate personnel on use of BMP's for targeted activities. | PM All relevant staff trained annually for targeted activities. | | |

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Table 2. Goals and Modifications for FY07/08.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | Message/Pollutants Addressed | Targeted Audience | Implementers |
|---|--|---|--|--|---|
| Public Education and Outreach | | | | | |
| 1. Characterize general public. | | | | | |
| 1D | Conduct survey | Evaluate and improve survey as needed. Evaluate options for conducting survey and implement. | <i>PM</i> Get at least 300 responses to the survey. Repeat survey in 4th year. | Public opinion on pollution and how to protect water quality is important. | County-wide Program |
| 1E | Analyze Survey Data | Compile, analyze and interpret survey data. | <i>PM</i> Report complete. <i>EM</i> Recommendations made based on the results of the survey. | | |
| 2. Outreach to local government officials. | | | | | |
| 2C | Annual progress reports | Present annual progress report to public officials. | <i>PM</i> Presentations given to local council members, and managers after each annual report is completed. | Local government officials | All Local Programs/ County-wide Program NCFWCWD |
| 3. Stormwater Website | | | | | |
| 3B | Evaluate website | Receive feedback on website and continue development/updates. | <i>PM</i> Evaluate annually and continued development/updates | | County-wide Program |
| 4. Community Events | | | | | |
| 4A | Develop booth | Develop booth to inform the public on the importance of reducing SW pollution and what they can do to reduce SW pollution. | <i>PM</i> Booth, outreach materials, and activities developed. | General Public | County-wide Program DEM |
| 4B | Staff booth at events | Staff SW booth at community events. | <i>PM</i> Attend at least 3 events per year. (e.g. Earth Day, Home and Garden Show, Symphony on the River, etc.) | | |
| 4C | Evaluate booth | Use the results from the public surveys to assess the need to target additional pollutants/activities. | <i>PM</i> Continue booth development as needed. | | |
| 5. Outreach to general public | | | | | |
| 5B | Trash can decals | Provide bilingual (English and Spanish) trash can decals about proper disposal of hazardous waste and used oil. Include message "only rain down the drain". | <i>PM</i> Include with all cans provided by garbage service | Residences and businesses. | Local Program City of Napa |
| 5C | Napa-Vallejo Household Haz Waster Facility | Continue to provide | <i>PM</i> Open to the public every Fri and Sat, (May-Oct) and two weekends per month (Nov-Apr). <i>EM</i> Quantity and types of waste collected. | Residences and businesses. | |

Table 2. Goals and Modifications for FY07/08.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | Message/Pollutants Addressed | Targeted Audience | Implementers |
|---|--|---|---|-------------------|---|
| 5D <i>Upvalley hazardous waste collection</i> | <i>Continue to hold hazardous waste collection days for the upvalley community.</i> | PM 1-2 events per year | <i>Paints, solvents, pesticides, etc.</i> | <i>Residences</i> | County-wide Program <i>DEM</i> |
| 5I | Place ad in Yellow pages and purchase "used Oil Recycling in Napa County" radio advertisement | PM Advertisement placed | | | County-wide Program <i>DEM</i> City of Napa |
| 5J Used oil recycling (cont) | Provide Point of purchase info at stores that sell used oil. | PM 50 percent of businesses selling used oil participating first year. 80 Percent 2nd year. EM Amount of used oil collected. | Why used oil should be recycled, locations in Napa County that accept used oil. | Public | |
| 5K Prioritize future outreach | Prioritize outreach to address other sources of SW pollution based upon results of illicit discharge data. | PM Outreach priorities established. | Depends on the priority pollutants and most common sources. | Public | County-wide Program |
| 5L Develop materials | Develop priority outreach materials | PM One new message/outreach piece per year. | | | |
| 5M Distribute materials | Method of distribution will depend on the target audience of the outreach materials. | PM Materials distributed | | | |
| 6. Outreach to schools | | | | | |
| 6C Conduct presentations | Conduct presentations. | PM Present to 5 classrooms by 2nd year, 10 classrooms every year thereafter. | | | County-wide Program |
| 6D Evaluation | Conduct survey before and after presentation to assess understanding of SW pollution. | PM Survey conducted EM Results analyzed for accomplishments and deficiencies. | | | |
| 6E Program improvement | Improve program lesson plans and activities based on feedback from students and teachers. | PM Lesson plans and activities revised as needed. | | | |

Table 2. Goals and Modifications for FY07/08.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | Message/Pollutants Addressed | Targeted Audience | Implementers |
|---|---|---|---|--|---|
| Public Involvement and Participation | | | | | |
| 2. Stormdrain Stenciling | | | | | |
| 2B SD stenciling program | Provide materials and supplies to citizens and groups. Advertise program on SW website, SW booth, and at applicable stewardship group meetings | PM One SD stenciling event per year. | | | County-wide Program |
| 4. Creek Cleanups | | | | | |
| 4 Coast and Creek Cleanup Day | Promote and facilitate event. | PM Increase garbage collected and number of participants by 10% in 2003. EM Number of participants and amount of garbage collected. | Trash and litter | Citizen volunteers | County-wide Program RCD, NCFWCWD, DEM |
| 5. Stewardships | | | | | |
| 5A Salvador Creek Stewardship | Hire the RCD to coordinate and support activities in the stewardship group. | PM Stewardship meeting held, mission statement adopted, and group activities conducted. | Stream function, plants and wildlife, invasive species, restoration, creek cleanup events, etc. | Residents in the Salvador Creek Watershed. | Local Program City of Napa Napa County |
| 5B Rutherford Dust Restoration Team | Provide staff to support restoration efforts along the Napa River in Rutherford. | PM Conceptual restoration plan developed. | Enhanced riparian habitat and improved stream function. | Landowners along a 4 mile reach of the Napa River in Rutherford. | Local Program Napa County |
| Illicit Discharge Detection and Eliminator | | | | | |
| 1. Legal Authority | | | | | |
| 1D ERP Training | Train appropriate staff on the policies and procedures of the ERP. | PM All relevant staff trained annually. | | Code enforcement staff. | All Local Programs |
| 2. Spill Response | | | | | |
| 2E | Implement training program. Administer a survey at the beginning of the training to gauge staff's understanding of illicit discharges. At the end of the training, give case studies as a quiz to ensure staff can recognize illicit discharges and understand the procedures for responding to them. | PM All relevant staff trained. EM Staff performance on quiz. | | | All Local Programs |
| 2G Record keeping | Dedicated staff will maintain and update data base and generate reports as requested. Reports used to determine common pollutants, activities contributing to non SW discharges, and repeat offenders. Information used to prioritize PEO efforts, business inspections, and conduct enforcement. | PM Annual reports generated on time. EM Use of reports to prioritize outreach and business inspections. Number of spills prevented from reaching waters of the State. | | Municipal staff | |

Table 2. Goals and Modifications for FY07/08.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | Message/Pollutants Addressed | Targeted Audience | Implementers |
|---|--|--|--|--|----------------------------|
| 3. SD System Mapping | | | | | |
| 3D Draw final map. | Draw final map. | PM Final outfall map completed. EM Use of map to eliminate and detect illicit discharges. | Final outfall map will help to locate discharge points. | Illicit discharge and spill response personnel | All Local Programs |
| 3H Draw final map. | Draw final map. | PM Final storm drain system map completed. EM Use of map to eliminate and detect illicit discharges. | Final storm drain map will help to accurately trace illicit discharges. | | |
| 4. Business Inspections | | | | | |
| 4D Training for inspectors | Develop and implement training program for inspectors. Use post survey to gauge inspector's understanding of the requirements. | PM Annual training for inspectors as appropriate. EM Score on post survey. | Phase II requirements; impacts of grease, soaps, and other pollutants potentially generated from restaurants on water quality, proper use of BMP's | Inspectors | All Local Programs |
| 4E Inspections | Conduct restaurant inspections | PM Inspect at least 90% of restaurants annually. EM % of restaurants in compliance. | Meet local and state requirements for SW discharges. | Food service facilities | |
| | | PM Inspect at least 50% of restaurants annually. EM % of restaurants in compliance. | | | |
| 4G Inspections | Implement inspection program for businesses that handle hazardous materials and waste. | PM Inspect at least 25% of business plan facilities per year. EM % of businesses in compliance. | Legal requirements; Proper use of BMP's to reduce SW pollution. | Commercial facilities | |
| 4H Business Newsletter | Produce and mail annual newsletter to businesses which includes a message on SW regulations and preventing SW pollution. | PM Annual newsletter mailed to all regulated businesses. | Grease, oil, hazardous materials, etc. | Businesses regulated by DEM | County-wide Program |
| Construction Site Runoff Control | | | | | |
| 1. Legal Authority | | | | | |
| 1B Evaluate ordinance | Evaluate requirements and compliance with local, state, and federal regulations. | PM Ordinance evaluated and amended as necessary | Ensure that the ordinance provides the most effective prevention of construction site pollutants. | Construction sites. | All Local Programs |
| 1D ERP Training | Train appropriate staff on the ERP procedures and policies. | PM All relevant staff trained annually. | Effective ESC measure and BMPs are necessary to protect water quality. | Code enforcement officers. | |
| 1E Evaluate and amend ERP | Evaluate effectiveness of ERP w.r.t. ensuring compliance with the SW ordinance. | PM ERP evaluated and modified as necessary. | | NA | |

Table 2. Goals and Modifications for FY07/08.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | Message/Pollutants Addressed | Targeted Audience | Implementers |
|--|---|--|---|---|---|
| 3. Inspection Program | | | | | |
| 3D Implement training program | Inspectors from each municipality to attend training program. | <i>PM</i> Annual training of all relevant inspectors. <i>EM</i> Use pre and post surveys to ensure that participants understand the requirements. | Proper use of BMP's to reduce non SW pollution; sediment, pathogens, oil, paint, etc. | Construction site inspectors | All Local Programs |
| 3E Implement inspection program | Inspect construction sites prior to the onset of the wet season and after major storm events. | <i>PM</i> Inspect 5 construction sites within 48 hours of a major (>0.25 inches) storm event. <i>EM</i> % of sites inspected during wet season; % of sites in compliance. | | | Local Programs City of Napa Napa County |
| | | <i>PM</i> Inspect all projects > 1 acre at onset of the wet season; Inspect all projects > 1 acre within 48 hours of a storm event (>0.25 inches/24hours) from April 16th through December 31st; Inspect all projects > 1 acre within 48 hours of a storm event (>1.0 inches/24hours) from January 1 through April 15th. <i>EM</i> % of sites inspected during wet season; % of sites in compliance. | | | Local Programs Yountville St. Helena Calistoga |
| 4. Outreach | | | | | |
| 4B Provide BMP fact sheet(s) for construction activities | Provide BMP fact sheets, guidance documents, and handbooks to contractors and developers | <i>PM</i> Informational materials (Stormwater BMP Handbooks, ESC Field manual, Guidelines for Construction Projects, etc.) provided to public upon request. <i>EM</i> # distributed. | Sediment, cement, paint, oils, trash, etc. | Contractors and developers | County-wide Program NCFWCDCD |
| 4D Construction site erosion control workshop | Encourage planners, inspectors, municipal staff, contractors, and architects to attend annual construction workshops held by the Regional Board and SFEI. | <i>PM</i> Sponsor one workshop every other year. <i>EM</i> Attendance | Phase II requirements, proper use of BMP's to control runoff. | Planners, inspectors, municipal staff, contractors, architects. | County-wide Program NCFWCDCD |
| 4E Construction site erosion control workshop | Attend workshop. | <i>PM</i> At least one planner/inspector and one public works employee shall attend. | Phase II requirements, proper use of BMP's to control runoff. | Planners, inspectors, municipal staff, contractors, architects. | All Local Programs |
| Post-Construction Runoff Management | | | | | |
| 1. Legal Authority | | | | | |
| 1D ERP Training | Train appropriate staff on the ERP procedures and policies. | <i>PM</i> All relevant staff trained annually. | Post-Construction BMPs must be properly maintained to ensure that water quality is protected. | New and redevelopment > 1acre. | Local Programs City of Napa Napa County |
| 1E Evaluate and amend ERP | Evaluate effectiveness of ERP w.r.t. ensuring compliance with the SW ordinance. | <i>PM</i> ERP evaluated and modified as necessary. <i>EM</i> Recommendations made. | | | Local Programs City of Napa |

Table 2. Goals and Modifications for FY07/08.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | Message/Pollutants Addressed | Targeted Audience | Implementers |
|--|--|-------------------------------------|--|-----------------------------------|---|
| 2. Design Standards, * = standards in Attachment 4 of State Municipal General Permit. | | | | | |
| Design Standards Attachment 4* - All categories: Single-Family Hillside Residences, 100,000 sq. ft. Commercial Developments, Automotive Repair Shops, Retail Gasoline Outlets, Restaurants, Home | | | | | |
| 2B <i>Peak SW runoff discharge rates</i> | Adopt standard in attachment 4 of the State General Permit | <i>PM Design standard adopted</i> | <i>PD peak SW runoff discharge rates shall not exceed estimated predevelopment where increased runoff will result in increased potential for downstream erosion.</i> | New development and redevelopment | Local Programs Yountville Calistoga Napa County |
| 2C <i>Conserve natural areas</i> | | | <i>Cluster development, limit clearing and grading, maximize trees and other vegetation.</i> | | |
| 2D <i>Minimize SW pollutants of concern</i> | | | <i>Incorporate BMP's or combination of BMP's to reduce runoff of pollutants of concern to the MEP.</i> | | |
| 2E <i>Protect slopes and channels</i> | | | <i>Plans must include BMP's to decrease potential of slopes and/or channels from eroding and impacting SW runoff.</i> | | |
| 2F <i>Provide SD system stenciling and signage</i> | Adopt standard in attachment 4 of the State General Permit | <i>PM Design standard adopted</i> | <i>Mark SD inlets with a sign or stencil that includes a brief statement that prohibits dumping into the SD svstem. Ensure outdoor storage areas do not contaminate SW runoff.</i> | New development and redevelopment | Local Programs Yountville Calistoga Napa County |
| 2G <i>Properly design outdoor material storage areas</i> | | | <i>Ensure trash storage areas do not contaminate SW runoff.</i> | | |
| 2H <i>Properly design trash storage areas</i> | | | <i>Ensure that PD BMP's are adequately maintained for the life of the project through maintenance agreements (see Tasks 3A to 3D below)</i> | | |
| 2I <i>Provide proof of ongoing BMP maintenance</i> | | | <i>Require PD treatment control incorporate either a volumetric or flow-based treatment control standard to mitigate SW runoff.</i> | | |
| 2J <i>Design standards for structural of treatment control BMP's</i> | | | | | |

Table 2. Goals and Modifications for FY07/08.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | Message/Pollutants Addressed | Targeted Audience | Implementers |
|---|--|-------------------------------------|---|---------------------------|---|
| <i>Design Standards Attachment 4* - 100,000 sq. ft commercial</i> | | | | | |
| 2K Properly design loading/unloading dock areas. | Adopt standard in attachment 4 of the State General Permit | <i>PM Design standard adopted</i> | <i>Covers, reduce run-on and runoff, prohibit direct connections of depressed loading docks to SD system.</i> | 100,000 sq ft commercial. | Local Programs Yountville Calistoga Napa County |
| 2L Properly design repair/maintenance bays | | | <i>Design to eliminate run-on and runoff of SW, prohibit direct connections to the SD system.</i> | | |
| 2M Properly design vehicle/equipment wash areas | | | <i>Self-contained and/or covered, equipped with pretreatment facility, and properly connected to sanitary sewer or other appropriately permitted disposal facility.</i> | | |
| <i>Design Standards Attachment 4* - Restaurants</i> | | | | | |
| 2N Properly design equipment/accessory wash areas | Adopt standard in attachment 4 of the State General Permit | <i>PM Design standard adopted</i> | <i>Self-contained, equipped with grease trap, and properly connected to sanitary sewer; outdoor wash areas must be covered, paved, have secondary containment, and be connected to the sanitary sewer or other appropriately permitted disposal facility.</i> | Food service facilities. | Local Programs Yountville Calistoga Napa County |
| <i>Design Standards Attachment 4* - Retail gasoline outlet:</i> | | | | | |
| 2O Properly design fueling area | Adopt standard in attachment 4 of the State General Permit | <i>PM Design standard adopted</i> | <i>Fueling area properly covered, paved with smooth impervious surface, designed to reduce run-on and runoff.</i> | Retail gasoline outlets | Local Programs Yountville Calistoga Napa County |
| <i>Design Standards Attachment 4* - Automotive repair shop:</i> | | | | | |
| 2P Properly design fueling area | Adopt standard in attachment 4 of the State General Permit | <i>PM Design standard adopted</i> | <i>Fueling area properly covered, paved with smooth impervious surface, designed to reduce run-on and runoff.</i> | Automotive repair shops. | Local Programs Yountville Calistoga Napa County |

Table 2. Goals and Modifications for FY07/08.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | Message/Pollutants Addressed | Targeted Audience | Implementers |
|---|--|--|---|--|--|
| <p>2Q <i>Properly design repair/maintenance bays</i></p> <p>2R <i>Properly design vehicle/equipment wash areas</i></p> <p>2S <i>Properly design loading/unloading dock areas.</i></p> | <p><i>Adopt standard in attachment 4 of the State General Permit</i></p> | <p><i>PM Design standard adopted</i></p> | <p><i>Must be indoors, designed to eliminate run-on and runoff of SW, prohibit direct connections to the SD system.</i></p> <p><i>Self-contained and/or covered, equipped with pretreatment facility, and properly connected to sanitary sewer or other appropriately permitted disposal facility.</i></p> <p><i>Covers, reduce run-on and runoff, prohibit direct connections of depressed loading docks to SD system.</i></p> | <p><i>Automotive repair shops.</i></p> | <p>Local Programs <i>Yountville Calistoga Napa County</i></p> |
| <p>Design Standards Attachment 4* - Parking Lots</p> | | | | | |
| <p>2T <i>Properly designing parking areas</i></p> <p>2U <i>Properly design to limit oil contamination and perform maintenance</i></p> <p>2V <i>Consider other appropriate design standards.</i></p> <p>2W <i>Adopt design standards</i></p> | <p><i>Adopt standard in attachment 4 of the State General Permit</i></p> <p><i>Identify and develop other design standards appropriate to community.</i></p> <p><i>Adopt design standards identified in task 2X.</i></p> | <p>PM <i>Design standard adopted</i></p> <p>PM <i>Additional design standards considered to protect water quality identified.</i></p> <p>PM <i>Design standards adopted</i></p> | <p><i>Reduce impervious surfaces of parking areas; infiltrate or treat runoff.</i></p> <p><i>Treat to remove oil and petroleum hydrocarbons at heavily used parking lots; ensure adequate operation and maintenance of treatment systems.</i></p> <p><i>Stormwater quantity and quality from new development and redevelopment</i></p> | <p><i>Parking lots</i></p> <p><i>New development and redevelopment</i></p> | <p>Local Programs <i>Yountville Calistoga Napa County</i></p> |

Table 2. Goals and Modifications for FY07/08.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | Message/Pollutants Addressed | Targeted Audience | Implementers |
|--|--|---|--|--|--|
| 3. Plan Review Process | | | | | |
| 3A <i>Develop plan review process</i> | <i>Review and revise plan review process to incorporate new requirements for Post-construction. Plan review process includes a checklist and instructions.</i> | PM <i>Plan review process revised to incorporate new requirements for post-construction.</i> | <i>Ensure that new development and redevelopment projects over 1 acre implement BMP's to the MEP to reduce or eliminate long-term nonstormwater runoff</i> | Planners and developers. | Local Programs Yountville Calistoga Napa County |
| 3B <i>Develop training program</i> | <i>Develop training program on new revised plan review process.</i> | PM <i>Training program developed.</i> | | | |
| 3C <i>Implement training program</i> | <i>Implement training program for revised plan review process.</i> | PM <i>Inspection program implemented. Ensure that 100% of the participants understand the requirements. Hold one training session per year.</i> | | | |
| 3D <i>Adopt plan review process.</i> | <i>Adopt revised plan review process.</i> | PM <i>Process implemented; require all construction sites > 1 acre to incorporate appropriate structural and/or nonstructural controls to the MEP.</i> | | | |
| 4. Long-term Maintenance | | | | | |
| 4C <i>Develop inspection and maintenance schedule.</i> | <i>Develop an inspection and maintenance schedule to maximize efficiency and minimize labor requirements.</i> | PM <i>Completed inspection and maintenance schedule.</i> | | | Local Programs City of Napa Napa County |
| 4D <i>Train maintenance staff.</i> | <i>Develop a training program on proper inspection and maintenance of structural controls, BMPs, and record keeping.</i> | PM <i>Use post test to ensure workers understand training materials and measurable goals. Check records quarterly to ensure compliance with schedule and BMPs 80% of the time.</i> | | | |
| 4E <i>Implement maintenance schedule.</i> | <i>Inspect and maintain structural controls according to implementation schedule.</i> | PM <i>Check records to ensure compliance with schedule and BMPs 80% of the time.</i> | Prompt inspection and maintenance of structural controls will reduce discharge of polluted water into the storm drain system and help comply with SWMP. | Maintenance staff | All Local Programs |
| 5. Outreach | | | | | |
| 5A <i>Workshop</i> | <i>Hold annual workshop explaining new requirements and the appropriate use and maintenance of structural and nonstructural control measures.</i> | PM <i>Annual workshops held.</i> EM <i>Attendance.</i> | Long-term runoff management requirements for new and redevelopment. Sediment, oil and grease, trash, fertilizer and pesticides. | Planners, developers, contractors, architects. | County-wide Program NCFCWCD |

Table 2. Goals and Modifications for FY07/08.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | Message/Pollutants Addressed | Targeted Audience | Implementers |
|---|---|---|---|----------------------------|-----------------------------------|
| Municipal Operations | | | | | |
| 1. Street Sweeping | | | | | |
| 1A Street sweep according to Table 8. | Street sweep according to schedule in Table 8. | PM Review records quarterly to ensure compliance to schedule in Table 1 80% of the time. | Oil and grease, metals garbage, fertilizer, dirt, and leaves. | Street sweeping department | All Local Programs |
| 1E Sweeping Program Evaluation | Evaluate effectiveness of program and make recommendations for improvement (e.g. alter scheduling, frequency, address parked cars, etc.) <i>based on data collected</i> | PM Evaluation completed, report with recommendations produced annually. EM Recommendations made. | | | |
| 1F Implement Improvements | Improve frequency and schedule of sweeping as appropriate. | PM Improvements implemented. | | | |
| 1G Staff and contractor | Annually train municipal staff and contract sweepers on O&M standards, measurable goals, implementation plans, and record keeping. Use pre and post survey to gauge staffs knowledge of O&M standards and record-keeping practices. | PM All relevant staff and contractors trained annually. EM Staff understanding of O&M standards and record-keeping practices. | Contract Sweepers: Comply with terms of contract in order to assure maximum removal of pollutants from streets. Municipal staff: Comply with implementation plans. | Street sweepers | |
| 2. Storm Drain Maintenance | | | | | |
| 2B Training | Train municipals staff on use of BMP's. | PM All relevant staff trained annually | Leaves, trash, sediment, oil | Municipala staff | All Local Programs |
| 2C Routine Inspection and Cleaning | Inspect and clean SD's according to Table 8. | PM Review records quarterly to ensure compliance to schedule in Table 1 80% of the time. | | | |
| 3. Stormwater Pump Stations | | | | | |
| 3B Train municipal staff | Educate all personnel responsible for SW pump stations about these maintenance standards | PM All relevant staff trained annually | Sediment and oil | Municipal staff | Local Program City of Napa |
| 3C Visual Inspections | Inspect wet wells and forebays for oil spills or other pollutant discharges. | PM Once in June and once in August; Once/month Oct - April. | | | |
| 3D Maximize pollutant removal prior to discharge. | Conduct comprehensive cleaning of wet wells. | PM Pump stations cleaned annually; prior to wet season. | | | |
| 4. Litter Control | | | | | |
| 4A Services | Provide litter receptacles in litter source areas and <i>empty regularly to prevent spills</i> | PM Receptacles provided and maintained. | Litter | Public | All Local Programs |
| 4C Education | Label litter receptacles with anti-littering message | PM 25% of receptacles by 2nd year; 50% by 4th year | | | |

Table 2. Goals and Modifications for FY07/08.

| Activity/Best Management Practices | Implementation Plan | Quantifiable Target/Evaluation Tool | Message/Pollutants Addressed | Targeted Audience | Implementers |
|---|--|---|--|---------------------------------|---|
| 5. Corporation Yards | | | | | |
| 5B | Develop a plan for SW management. Includes necessary capital improvements, O&M standards, and training programs. | PM SWPPP developed with timeline for implementation. | Sediment, oil, paints, chemicals, litter | Municipal staff | Local Programs City of Napa Napa County |
| 5C | Implement items from SWPPP. | PM Items implemented over three to five year period. EM Number and types of BMP's impeneted | | | |
| 6. Road Maintenance | | | | | |
| 6C Training | Train employees on O&M standards for roads. Post-survey used to evaluate staff understanding of BMP's. | PM All relevant staff trained annually. | Sediment, asphalt | Municipal staff | All Local Programs |
| 7. Creek and Ditch maintenance | | | | | |
| 7C Training | Train all relevant staff and contractors on maintenance standards. | PM All relevant staff trained annually. | Sediment, gas, oil, leaves | Municipal staff and contractors | All Local Programs |
| 8. Parks and Recreation Facilities | | | | | |
| 8A Assessment | Assess the condition of parks and related facilities (e.g. erosion, chemical use, etc.) | PM Assessment completed for one park/agency per year | Pesticides, nutrients, sediment, organic matter, fuels, oils | Maintenance crews | All Local Programs |
| 8C Training | Train all appropriate employees on O&M standards and use of BMP's. Use a post-training quiz to ensure staff understand use of BMP's. | PM All relevant staff trained annually. EM Staff understanding of O&M standards and use of BMP's. | | | |
| 9. Other Municipal Activities | | | | | |
| 9C Develop Maintenance Standards | Compile BMP factsheets. | PM Two municipal activities targeted per year. | Pesticides, nutrients, sediment, organic matter, fuels, oils | Public facilities and employees | County-wide Program |
| 9D Training | Train appropriate personnel on the use of BMPs for activities targetted. | PM All relevant staff trained annually for targetted activities. | | | All Local Programs |