10

City of Santa Barbara

STORM WATER MANAGEMENT PROGRAM
2012 ANNUAL REPORT
YEAR 4

Santa Barbara Storm Water Management Program Contact:
Cameron Benson, Creeks Restoration/Clean Water Manager
City of Santa Barbara
Creeks Restoration/Water Quality Improvement Division
P.O. Box 1990
Santa Barbara, CA 93102-1990
Telephone: (805) 897-2658
FAX: (805) 897-2626
Email: CBenson@SantaBarbaraCA.gov
Web: www.SantaBarbaraCA.gov

City of Santa Barbara SWMP Annual Report
TABLE OF CONTENTS

A. PERMITTEE INFORMATION I
B. REPORTING PERIOD I
C. EXECUTIVE SUMMARY II
D. CERTIFICATION III
E. AUDIT COMPLIANCE 4
F. MINIMUM CONTROL MEASURES 6
1. Public Education and Outreach 6
2. Public Involvement/Participation 18
3. Illicit Discharge Detection and Elimination 24
4. Construction Site Storm Water Runoff Control 33
5. Post-Construction Storm Water Management in New Development and Redevelopment 39
6. Pollution Prevention/Good Housekeeping for Municipal Operations 56
G. WATERFRONT DEPARTMENT (WFD) 73
1. Public Education and Outreach 73
2. Public Involvement/Participation 76
3. Illicit Discharge Detection and Elimination 78
4. Construction Site Storm Water Runoff Control 81
5. Post Construction Storm Water Management 81
6. Pollution Prevention/ Good Housekeeping for Municipal Operations 82
H. AIRPORT DEPARTMENT (APD) 84
1. Public Education and Outreach 84
2. Public Involvement and Participation 86
3. Illicit Discharge Detection and Elimination 88
4. Control of Construction Site Runoff 92
5. Post-Construction Storm Water Management 93
6. Pollution Prevention and Good Housekeeping 94
I. PROGRAM EFFECTIVENESS ASSESSMENT 101

ANNUAL REPORT

General Permit for the Discharger of Storm Water from Small Municipal Separate Storm Sewer Systems (General Permit)

Check box if this is a new name, address, etc.

A. Permittee Information

1. Permittee (Agency Name): City of Santa Barbara ☐
2. Contact Person: Autumn Malanca and/or Cameron Benson ☐
3. Mailing Address: 620 Laguna St. ☐
4. City, State and Zip Code: Santa Barbara, CA 93101 ☐
5. Contact Phone Number: 805-897-1910 or 805-897-2658 ☐
6. WDID#: 3 42MS03023
7. Have any areas been added to the MS4 due to annexation or other legal means? ☐ YES ☒ NO

If YES

Outfall	Has map been updated?		Has SWMP been updated?		Receiving Water Name
	YES	NO	YES	NO	

8. Are you subject to the Design Standards contained in Attachment 4 of the General Permit? ☒ YES ☐ NO

B. Reporting Period

(check one):

(Report is due by April 1 each year)

- ☐ January 1, 2009 to December 31, 2009 (Year 1)
- ☐ January 1, 2010 to December 31, 2010 (Year 2)
- ☐ January 1, 2011 to December 31, 2011 (Year 3)
- ☒ January 1, 2012 to December 31, 2012 (Year 4)
- ☐ January 1, 2013 to December 31, 2013 (Year 5)

C. Executive Summary

The City of Santa Barbara's Storm Water Management Program (SWMP) was prepared in response to State Water Resources Control Board Water Quality Order 2003-0005-DWQ for National Pollutant Discharge Elimination System (NPDES) Phase II General Permit No. CAS000004 (State General Permit). The overall objective of the City's SWMP is to comply with the NPDES Phase II regulations and State General Permit, and to meet water quality standards contained in the Statewide Water Quality Control Plan, the California Toxics Rule, and the Regional Water Quality Control Board Basin Plan.

The City Council authorized submittal of the SWMP to the Central Coast Regional Water Quality Control Board (RWQCB) in January 2006, with direction to begin implementation of the SWMP's water quality goals and BMPs, pending the RWQCB's formal approval. Several rounds of Board comments and City resubmittals took place between 2006 and 2008. The RWQCB approved the City's SWMP in November 2008, subject to the inclusion of minor final edits. Year one of formal SWMP implementation began January 5, 2009, and ended December 31, 2009. Year two of SWMP implementation began January 1, 2010 and ended December 31, 2010. Year three of SWMP implementation began January 1, 2011 and ended December 31, 2011. Year four of SWMP implementation began January 1, 2012 and ended December 31, 2012.

The SWMP demonstrates the City's commitment to surface water quality protection. The Best Management Practices (BMPs) and measurable goals designated in the SWMP have been designed to effectively protect water quality and assess the City's success in the effort. This Year 4 Annual Report (2012) demonstrates effective SWMP implementation and continues to identify necessary program modifications. The City did not receive comments or requested edits from the Water Board staff over the past two years, so no responses to comments are included in this Year 4 Annual Report. Several modifications to BMPs were proposed in the Year 2 Annual Report, and the City did not receive confirmation from the Water Board that those modifications were approved. The BMPs currently reflect the proposed modifications from Year 2.

Sections 1.0 through 6.0 report the successes and challenges of implementation of the City's six minimum control measures, and Sections G and H are the City's Waterfront and Airport Departments' Annual Reports. Section I is the Program Effectiveness Assessment, which confirms the results of the overall program and identifies necessary modifications.

To compile this Annual Report, City staff reported their SWMP implementation status to the City Creeks Division on a quarterly-basis; January through March, April through June, July through September, and October through December, 2012. Therefore, some of the sections in the report discuss the implementation of BMPs on a quarterly-basis.

D. Certification

D. Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

	3/20/2013
Signature of Permittee (legally responsible person)	Date Signed
James L. Armstrong	City Administrator
Name (printed)	Title

E. Audit Compliance; City Program Corrections to Address (1) Violation and (1) Deficiency Identified by Central Coast Water Board Audit

City staff met internally to address one "program violation" and one "program deficiency" per the Central Coast Regional Water Quality Control Board's (Water Board) partial audit of the City of Santa Barbara's (City) Storm Water Management Program (SWMP) that took place in June 2011. Below are the City's corrections to address these issues that are defined in the Water Board's audit letter, dated July 3, 2012. These corrections were discussed in person on September 6, 2012 (between City and Water Board staff) and subsequently emailed to Water Board staff on December 13, 2012. Water Board staff responded favorably:

<u>Operation and Maintenance of BMPs for Post-construction Storm Water Management</u>

(1) Action: The City must develop a tracking system to demonstrate compliance with the General Permit section D.2.e.4 and BMP 5.2. The tracking system should provide City staff with the ability to document the implementation, operation, and maintenance status of post-construction BMPs, results of post-construction inspections, and follow-up actions if necessary. The City must report on the implementation of its tracking system annually.

The City has an existing project tracking software system in place called Tidemark Advantage. City staff has coordinated, since receiving the audit letter from the Water Board in July 2012, to create an additional "field" for planners to enter storm water specific information in Tidemark Advantage. Staff will be trained in early 2013 to enter information regarding a project's storm water BMPs that are implemented to comply with the City's storm water management requirements. The "SMP" (Stormwater Management Program) field will include:

- Case # and approval date
- Amount of new/replaced impermeable surfaces
- SWMP Tier Level
- BMP category (biofiltration, infiltration, permeable pavers, proprietary, etc.)
- BMP specifics (bioretention, vegetated swale, infiltration trench, cistern, etc.)
- Assigned case planner and inspector
- BMP location documented on plan sheet(s)
- General BMP location onsite

An "activity" section will also be included in this new SMP field in Tidemark, which will track City staff inspections and the general operation/maintenance of the project's storm water BMPs, including:

- Inspection (date)
- BMPs Maintained
- BMPs Deficient
- Follow-up activities
- Warning letter sent
- 2nd warning letter sent
- Referred to City Attorney
- Correspondence
- Follow-up site inspection
- Case Closed

In addition to this updated software project tracking approach, the City intends to conduct periodic post construction BMP inspections. City Creeks Division staff has agreed to commit a minimum of 20 hours per year to inspecting private post-construction project storm water BMPs. This will include coordinating with the property owner for access, and any/all necessary follow-up activities. Staff will use the Facility Inspection and Maintenance Checklists in Appendix H of the City's Storm Water BMP Guidance Manual for documentation and tracking, in addition to entering inspection information in the new "activity" section created in the City's Tidemark Advantage tracking software.

Legal Authority to Require Compliance with Construction and Post-construction Storm Water Requirements

(2) Action: The City must demonstrate or develop clear and adequate legal authority to condition and enforce construction and post-construction stormwater requirements at development and redevelopment projects.

City Building Department staff and legal counsel drafted an Erosion and Sediment Control Ordinance during the 4th quarter of 2012 in response to this identified program deficiency, despite the fact the City has never been challenged nor had a situation of not being able to enforce the City's existing Erosion/Sediment Control Policy. The ordinance was adopted by City Council in January 2013. Chapter 22.85 has been added to the Santa Barbara Municipal Code relating to Erosion and Sedimentation Control Standards for Construction. This ordinance simply continues the City's ongoing practice of managing erosion and sedimentation during construction projects and could enable more effective enforcement of the erosion control standards.

The City also intends to develop and adopt a storm water ordinance specific to the City's existing post-construction requirements and BMPs in 2013.

F. Minimum Control Measures

1.Public Education and Outreach

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Education Program for School Children	1.1	Document all youth education programs presented and number of students.	X			X		
Enrichment-Based Youth Education	1.2	Identify opportunities to develop and implement after-school educational programs including creek clean-ups and planting days.	X			X		
Distribute Informational Brochures and Postcards	1.3a	Distribute "The Ocean Begins on Your Street" Brochure in English. Document the target audience, number of brochures distributed through community events, reach 50% of intended audience.	X		X	X		
	1.3b	Distribute "The Ocean Begins on Your Street" Brochure in Spanish. Document the target audience, number of brochures distributed through community events, reach 50% of intended audience.	X		X	X		
	1.3c	Document the number of brochures distributed to promote the Clean Water Business Program and in response to illegal discharge investigations. Reach 100% of intended audience. Certify a minimum of 20 businesses per year. Focus on: Automotive Businesses, Restaurants, Mobile Washers, Retail Stores, Hotels, and/or Landscapers or Gardeners	X		X	X		
	1.3d	Develop new informational brochures, document distribution to specific target audiences on an annual basis. Reach 100% of intended audience.	X			X		
Event Participation	1.4a	Earth Day Exhibit	X			X		
	1.4b	Creek Week	X			X		
	1.4c	Green Gardener Program	X		X	X		
	1.4d	Other Relevant Events (2)	X			X		
Storm Drain Marking	1.5	Maintain and replace storm drain markers as necessary.	X		X			
Stormwater Hotline/City Information Line	1.6a	Advertise call-in number on SWMP media and educational materials in English.	X			X		

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
	1.6b	Advertise call-in number on SWMP media and educational materials in Spanish.	X			X		
Neighborhood-based Outreach Program	1.7	Implement annual neighborhood outreach program with educational programming, creek clean-ups, and creek restoration activities.	X			X		
Community-based Social Marketing	1.8	Assess outreach opportunities to utilize community-based social marketing strategies.	X				X	
www.sbcreeks.com	1.9	Maintain and update the Creeks Division website on a quarterly basis.	X			X		
Clean Water Business Program	1.10	Continue certification of automotive service businesses and expand to include certification program for restaurants, hotels, contractors, and mobile businesses (mobile detailers, power washers, carpet cleaners).	X			X		
Community Media Campaigns	1.11a	Develop and air public service announcements on the radio in English.	X			X		
	1.11b	Develop and air public service announcements on the radio in Spanish.	X			X		
	1.11c	Develop and air public service announcements on television in English and Spanish.	X			X		
	1.11d	Develop and publish print advertising in English.	X			X		
	1.11e	Develop and publish print advertising in Spanish.	X			X		
Conduct a Public Opinion Survey	1.12	Hire a consultant to perform the survey.	X			X		

BMP 1.1 Education Program for School Children

Measurable Goal 1.1: *Provide 132 presentations/year. Reach 3,000 youth. Conduct annual teacher surveys, where feasible, to evaluate and revise program accordingly.*

Status: During the first quarter of 2012 (January-March), Explore Ecology (formerly Art From Scrap) provided 37 presentations to 784 youth.

During the second quarter of 2012 (April – June), Explore Ecology provided 75 presentations to 2,083 youth.

During the third quarter of 2012 (July – September), Explore Ecology provided 23 presentations to 610 youth.

During the fourth quarter of 2012 (October – December), Explore Ecology provided 29 presentations to 913 youth.

Explore Ecology conducts a teacher survey for classes that participate in their Green Schools Program, which includes the 3-part Creek Kids Series, trips to the Watershed Resource Center, and in-class presentations, to obtain feedback for the purpose of revising the program annually. Explore Ecology updates their lesson plans to include new water quality and watershed related issues and topics as needed.

2012 Total: 164 Presentations, 4,390 Youth

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 1.2 Enrichment-Based Youth Education

Measurable Goal 1.2: *Document number of youth that participate in programs.*

Status: Over the course of 2012, the Youth CineMedia program worked with approximately 50 "at-risk" teens after school and during the summer months to create multi-media projects in both English and Spanish for the Creeks Division's Outreach program. These materials have included educational print ads, television public service announcements, short films, and bus ads. Videos produced by the participants were featured at the Santa Barbara International Film Festival in February. By employing youth in the Youth CineMedia program to create outreach materials and films related to water quality issues and restoration projects, the City is raising awareness of water quality issues and solutions among that group of at-risk teens, who in turn are helping raise awareness among other teens, the Spanish speaking community, and the community at large.

In January, City staff in collaboration with the Channel Islands National Marine Sanctuary's Multicultural Education for Resource Issues Threatening Oceans (MERITO) program provided 2 presentations to 30 students.

During July and August, City staff provided 4 presentations to 125 youth participants in the Parks & Recreation Department's Nature Camp. Students visited the Mission Creek Restoration at the Tallant Road Bridge, where they helped install native plants.

2012 Total: 205 Youth

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 1.3 Distribute Informational Brochures and Postcards

Measurable Goal 1.3a: *Document the target audience, number of all outreach materials distributed through community events, reach 50% of intended audience.*

Status: During the first quarter of 2012, outreach materials were distributed at an AmeriCorps volunteer event and, at a training event for local contractors and designers on the City's Storm Water Management Program requirements for development and redevelopment.

During the second quarter, outreach materials were distributed at a presentation on storm water pollution and storm drain screens at the "Green at Your Library" Event, and at the Earth Day Festival.

During the third quarter, outreach materials were distributed at the Creek Week Closing Celebration at the Watershed Resource Center, and provided for display in the Parks & Recreation office.

During the fourth quarter, outreach materials were distributed at the Harbor & Seafood Festival, provided for display at the Watershed Resource Center, and distributed to Creeks Advisory Committee and City Council members.

2012 Totals:

Outreach Materials	Q1	Q2	Q3	Q4	Total
"Ocean Begins on Your Street" Brochure	0	21	15	5	**25**
Watershed Guides	0	0	0	10	**10**
Water Quality Enforcement Hotline Magnets	60	116	0	29	**205**
Water Pollution Stickers	0	90	0	63	**153**
Creek Tree Program Flyers/Applications	0	5	0	0	**5**
Watershed Aerial Posters	15	12	0	39	**66**
"I Care About Creeks" Pencils	0	220	0	38	**258**
"Home Improvement & Healthy Creeks" Brochures	0	0	50	3	**53**
Dog Waste Bag Dispensers	0	25	0	0	**25**
"Dirty Dozen" Pollutant Trading Cards	0	541	0	0	**541**
"Pest or Pal" Activity Books	0	0	0	15	**15**
Parking Lot BMP Brochure	0	0	0	3	**3**
Creeks Division 2012 Report	0	0	10	25	**25**
I Heart Creeks Stickers	0	0	0	25	**25**

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 1.3b: *Document the target audience, number of all outreach materials distributed through community events, reach 50% of intended audience.*

Status: No outreach materials were distributed through community events during the first and second quarters of 2012. During the third quarter of 2012, Spanish language outreach materials were distributed at the Creek Week Closing Celebration at the Watershed Resource Center, and provided for display in the Parks & Recreation office.

During the fourth quarter, outreach materials were distributed at the Harbor & Seafood Festival; and, the After Hours at the Sea Center event.

2012 Totals:

	Q1	Q2	Q3	Q4	Total
"Ocean Begins on Your Street" Brochure (Spanish)	0	0	12	5	**17**

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 1.3c: *Document the number of brochures distributed to promote the Clean Water Business Program and in response to illegal discharge investigations. Reach 100% of intended audience. Certify a minimum of 20 businesses per year. Outreach for this program shall focus on: Automotive Businesses, Restaurants, Mobile Washers, Retail Stores, Hotels, and/or Landscapers or Gardeners.*

Status: Early in 2008 and 2009, hundreds of brochures/program announcements were distributed (mailed) to promote the understanding and participation of different business types in the Clean Water Business Program. According to the City business license files, the mailings reached 100% of the targeted business located in the City at that time.

During 2012, 5 brochures promoting the Clean Water Business Program were given to local businesses through enforcement actions.

During 2012, a total of 20 businesses were certified, including 15 restaurants (which include coffee shops and catering companies as well) and 5 mobile washers/auto detailers.

2012 Totals: 5 Brochures Distributed; 20 Businesses Certified.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing. Creeks staff have elected to focus on another/new business sector; contractors. Many of the City's enforcement calls and potentially polluting activities involve contractors and how they manage or mismanage their building materials and/or building and cleaning operations. Staff feels that including this business sector in the Clean Water Business Program will not only educate and benefit contractors, but can also effectively limit the amount of pollution discharged from building activities.

Measurable Goal 1.3d: *Develop new informational brochures, document distribution to specific target audiences on an annual basis. Reach 100% of intended audience.*

Status: In 2012, staff prepared a "2012 Report" in both English and Spanish. The report includes

information on the Creeks Division's various projects and programs. The Report was distributed to members of the City's Creeks Advisory Committee, Park and Recreation Commission, and City Council. The Report was provided for display in the Parks & Recreation office, posted online in English and Spanish, and will be distributed at community events when appropriate.

2012 Total: 50 Brochures Distributed.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 1.4 Event Participation

Measurable Goal 1.4a: *Earth Day (1 event).*

Status: Staff from eight City divisions attended and presented information at the Earth Day Festival on Saturday and Sunday, April 21-22, 2012. Participating divisions included Creeks, Wastewater, Water Resources, Parks/Forestry, Environmental Services, Planning/Building, Transportation, and Facilities/Energy. The event organizer (Community Environmental Council) estimates that over 38,000 people attended the festival.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 1.4b: *Creek Week (1 event).*

Status: The 13th annual Creek Week took place September 15th – 23rd, 2012. Over 1,500 community members participated in over 20 events throughout the week, including the 28th annual Coastal Cleanup Day on September 15th.

The Creeks Division partnered with Horny Toad Clothing and SB Channelkeeper to host a clean-up at East Beach, and partnered with the Environmental Defense Center and the SB County Wetlands Task Force to lead a walking tour of recently completed fish passage projects on Mission Creek. The Creeks Division, Water Resources Division, and Parks Division also collaborated with the Surfrider Foundation on an Ocean Friendly Gardens workshop at Spencer Adams Park.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 1.4c: *Contribute a minimum of $1,500 per year to the joint-agency Green Gardener Program to help educate landscape professionals about protecting water quality.*

Status: The City's Creeks Division and Water Resources Division are both sponsors of the countywide Green Gardener Program, which trains local landscapers on sustainable landscaping and efficient irrigation in order to reduce contaminated runoff. The Creeks Division's sponsorship of $500 and the Water Resources Division's 60 hours of staff support and sponsorship of $1,000 helped provide training to 101 program

graduates in 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 1.4d: *Other Relevant Events (2 events).*

Status: Staff attended and presented information at the Looking Good Santa Barbara Community Cleanup on June 2, the Creek Week Closing Celebration at the Watershed Resource Center on September 23, and the Harbor & Seafood Festival on October 13.

2012 Total: 3 Events

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 1.5 Storm Drain Marking

Measurable Goal 1.5: *Evaluate and clean **230** storm drain markers annually, as necessary.*

Status: This goal was not met due to the City's recognition that the existing plastic storm drain markers are frequently damaged by dirt and sunlight to the point that they are illegible. Staff designed and ordered new metal markers (in late 2012) to replace the old plastic markers, which turned out to be a waste of staff time to clean/replace. The metal markers are expected to be far more durable.

In March 2012, staff replaced 13 markers, and installed 2 new markers near the Parks & Recreation Office.

In June 2012, as part of the annual Looking Good Santa Barbara Community Cleanup, volunteers evaluated/replaced/installed approximately 100 storm drain markers in the neighborhood surrounding Ortega Park.

2012 Total: 115 markers inspected, cleaned, or replaced.

Proposed Modifications: This BMP needs to be modified due the fact the City is removing the existing plastic storm drain markers that needed maintenance. The new metal markers will not require cleaning/maintenance other than occasional replacement if/when needed. This modification and/or deletion will be determined in the City's Guidance Document, which will be produced in 2013 to comply with the State's New NPDES General Permit.

Proposed Year 5 Activities: See above.

BMP 1.6 Stormwater Hotline/City Information Line

Measurable Goal 1.6a: *4 information pieces through direct mail, media campaigns and/or public events to*

reach a minimum of 5,000 residents (advertise call-in number in English).

Status: The Creeks Division Stormwater Hotline was listed in the Parks & Recreation Spring (1) and Fall (2) Activity Guides, which were published online, reaching thousands of local community members. The hotline was included in print ads placed in a local high school's theater production programs in the spring (3) and fall (4), reaching approximately 3,000 students, staff, and parents, and posted online. The hotline is listed on Creeks Division magnets (5), 205 of which were distributed at community events throughout the year. The County's (Project Clean Water) hotline was listed on 95 interior (all year) and 7 exterior (summer months) MTD bus ads (6), and in "The Ocean Begins on Your Street" brochure (7), 25 of which were distributed at various community events throughout the year. The Creeks Division's general information number was also listed on all printed materials throughout the year, including event flyers (8), postcards (9), meeting notices (10), print advertisements (11), and brochures (12).

The number of residents reached through these outreach measures is difficult to quantify. However, the online publishing and print ads reach thousands of residents, alone. Factoring in the MTD bus ads (MTD makes 30,000 passenger trips per day), and the print advertisements (the Independent news paper makes 40,000 copies per week); the goal of reaching a minimum of 5,000 residents was far-surpassed in 2012.

2012 Total: Over 12 information pieces distributed, reaching well over 5,000 residents in 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 1.6b: *4 information pieces through direct mail, media campaigns and/or public events to reach a minimum of 5,000 residents (advertise call-in number in Spanish).*

Status: The Creeks Division Stormwater Hotline was listed in the Parks & Recreation Spring (1) and Fall (2) Activity Guides, which were published online, reaching thousands of local community members. The County's hotline was listed on 95 interior (all year) MTD bus ads (3), and in "The Ocean Begins on Your Street" brochure (4), 17 of which were distributed at various community events throughout the year. The Creeks Division's general information number was also included in 26 print ads in *SB Latino* (5), a local Spanish-language bi-weekly newspaper.

2012 Total: 5 information pieces were distributed, reaching well over 5,000 residents in 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 1.7 Neighborhood-based Outreach Program

Measurable Goal 1.7: *Select neighborhoods for participation, implement 2 programs annually, document number of participants.*

Status: On January 21, a total of 30 community volunteers from the AmeriCorps program participated in a clean-up at Leadbetter Beach, where they removed 329 pounds of debris from the beach.

On June 2, a total of 4 volunteers participated in a clean-up of Old Mission Creek at Bohnett Park in the Westside neighborhood, where they removed 75 pounds of trash and debris from the creek and park.

2012 Total: 2 programs, 34 participants.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 1.8 Community-Based Social Marketing

Measurable Goal 1.8: *Identify at least one opportunity per year for community-based marketing and report why it was or was not an appropriate strategy. If utilized, assess and report on its successes and/or failures by conducting pre- and post-project behavior observations.*

Status: The Creeks Division encourages visitors at all community events to make a written commitment by signing a "Clean Creeks Pledge" to adopt behaviors that will help improve and protect water quality in our creeks and the ocean. Throughout 2012, 91 community members took the Clean Creeks Pledge at public events.

In 2012 the Creeks Division worked with UCSB students to conduct surveys related to pet waste and cigarette butts, and to formulate recommendations for outreach efforts. The survey results and recommendations will be further explored in 2013 for potential use.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 1.9 www.sbcreeks.com

Measurable Goal 1.9: *Update web page content on a quarterly basis. Advertise website on four media pieces per year. Increase website "hits" (visitors) by 5% annually.*

Status: The Creeks Division's website is updated often on an as-needed basis throughout the year. The Clean Water Business page is updated as new businesses are certified. The City's Information Systems Division checks broken links throughout the year, and staff corrects these links as needed. As the monthly email newsletters are sent, issues are linked to the E-News page.

The website address is included in all outreach materials, including the Parks & Recreation Spring and Fall Activity Guides (1), Clean Water Business ads appearing in *The Independent* (2) and *Food & Home Magazine* (3), 95 interior (all year) and 7 exterior (summer months) MTD bus ads (4, 5), English and Spanish radio and television public service announcements (6, 7), Spanish-language print ads in *SB Latino* (8), a local Spanish-language bi-weekly newspaper, brochures (9), project postcards (10), magnets (11), event posters and flyers (12), and more.

The website received 7,010 hits during 2012, an increase of 5% over the 2011 total of 6,682 hits. In 2013, the

City's redesigned website will launch, making the site more user friendly, and easier to update and navigate.

2012 Totals: Website advertised in/on over 12 media pieces; web hits increased by 5%.

Proposed Modifications: Track number of website visitors throughout the year. (remove % increase – unrealistic to grow by 5% each year)

Proposed Year 5 Activities: See above.

BMP 1.10 Clean Water Business Program

Measurable Goal 1.10: *Expand program with one additional business type each year. Certify at least 20 businesses annually and inspect certified businesses every 2 years for possible re-certification.*

Status: Creeks Division staff certified 20 businesses in 2012, with a continued focus on restaurants and mobile businesses. The intent last year was to move the focus of this program to retail stores (and their washing/maintenance activities) in the downtown area. However, staff found that the restaurants and mobile washers continued to offer the largest amount of businesses in Santa Barbara that need the most training and outreach help to avoid polluting activites. A large number of the City's incoming enforcement calls/reports are for restaurant and mobile washing operations (discharging wash water or polluting materials into the streets, parking lots, and/or storm drains).

Staff has also noted that a significant amount of enforcement calls/reports are for construction activities and runoff from building sites (such as cement slurry, sediment, paint, and other building materials that are not properly managed and kept onsite). So, focus will be shifted this next year toward contractors, in addition to restaurants and mobile washers, as these business types appear to have the most potential for impacting storm water quality through their business activities.

Proposed Modifications: None.

Proposed Year 5 Activities: Shift focus/outreach to the contractors/construction business sector in Year 5, and continue to inspect certified businesses every 2 years for possible re-certification.

BMP 1.11 Community Media Campaigns

Measurable Goal 1.11a: *Reach 30,000 listeners at least 1/month (English radio PSAs).*

Status: English radio public service announcements aired monthly on local Rincon Broadcasting stations KSBL 101.7 FM, KFYZ 94.5 FM, and KDB 93.7 FM, reaching an estimated 35,000 listeners per month.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 1.11b: *Reach 15,000 listeners at least 1/month (Spanish radio PSAs).*

Status: Spanish radio PSAs aired monthly on local Spanish-language Rincon Broadcasting stations KIST 107.7 FM and KSPE 1490 AM, reaching an estimated 19,600 listeners per month.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 1.11c: *Reach 40,000 television watchers at least 1/month (English and Spanish television PSAs).*

Status: This goal was exceeded. English and Spanish television public service announcements aired monthly on various Cox Media stations (the local cable provider), as well as on KPMR, the local Univision station, reaching approximately 100,000 viewers per month. English public service announcements were also run on local channel KSBY, reaching approximately 30,000 viewers per month.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing

Measurable Goal 1.11d: *12 display ads (English print advertising).*

Status: Display ads were included in the Parks & Recreation Spring (1) and Fall (2) Activity Guides. Print ads were placed in *The Independent* in October (3, 4, 5), November (6), and December (7, 8). Display ads were placed in a local high school's theater production programs (9, 10), which were distributed to approximately 1,500 students, staff, and families, as well as displayed online. On local MTD buses, display ads were run on the interiors of the full fleet of 95 buses all year (12), and on the exteriors of 7 buses during the summer months (12). Display ads were created to promote Creek Week, and ran in *The Daily Sound* (13, 14, 15, 16), *The Independent* (17, 18, 19), *CASA Magazine* (20, 21), and in the City's water billing insert (22), which is mailed to all water users in the City. Another display ad was placed in the water billing insert twice promoting the water pollution enforcement hotline (23, 24). Ads promoting newly certified Clean Water Businesses are run in *Food and Home Magazine* on a quarterly basis (25, 26, 27, 28).

2012 Totals: 28 display ads

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 1.11e: *4 display ads (Spanish print advertising).*

Status: A Spanish language display ad, designed by Youth CineMedia, ran every other week in *SB Latino*, a local Spanish-language bi-weekly newspaper (1). A bilingual ad was also included in the Parks & Recreation Spring (2) and Fall (3) Activity Guides. On local MTD buses, bilingual ads were run on the interiors of 95 buses all year (4), with new ads installed in the summer (5).

2012 Total: 5 display ads

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 1.12 Conduct a Public Opinion Survey

Measurable Goal 1.12: *Complete Public Opinion Survey and implement recommendations as appropriate.*

Status: The most recent Public Opinion Survey was completed in 2008. In 2010, the Creeks Advisory Committee adopted revisions to the Creeks Division's Public Education Plan (2002) to reflect findings from the survey, as well as input from the Education and Outreach Subcommittee of the Creeks Advisory Committee. Another survey will be conducted in 2013 to gauge community awareness and to refocus the Creeks Division's education and outreach efforts.

Proposed Modifications: None.

Proposed Year 5 Activities: Conduct a follow-up public opinion survey and implement recommendations as appropriate.

2. Public Involvement/Participation

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Creeks Advisory Committee Meetings	2.1a	Hold monthly public meetings to discuss creeks, water quality and community outreach	X			X		
	2.1b	Air meetings on the City's Channel 18 television station and streaming video on City website.	X			X		
	2.1c	Post meeting agendas to the City's web site by the Friday prior to the meeting.	X			X		
	2.1d	Mail meeting agendas by the Friday prior to the meeting	X			X		
	2.1e	Dedicate at least one meeting annually to provide the public with the opportunity to review and comment on the SWMP.	X			X		
Project Clean Water Stakeholder Committee Meeting	2.2	Attend quarterly meetings to provide information and seek participation from stakeholders.	X			X		
Regional Coordination	2.3	Attend quarterly public meetings to provide information and seek participation from stakeholders in the City SWMP.	X			X		
Community Forum on Water Quality Issues	2.4a	Hold annual public water quality forum to receive community input about water quality issues.	X			X		
	2.4b	Air the forum on the City's Channel 18 television station in English.	X			X		
	2.4c	Air the forum on the City's Channel 18 television station in Spanish.	X			X		
	2.4d	Post forum flyer to the City's web site, via email and submit to community calendars.	X			X		
	2.4e	Advertise meeting in local daily and weekly newspapers.	X			X		
Community Volunteer Projects	2.5	Conduct at least one creek clean-up per year and solicit participation in storm monitoring program.	X		X	X		

BMP 2.1 Creeks Advisory Committee Meetings

Measurable Goal 2.1a: *12 meetings.*

Status: This measurable goal was not met in 2012, due to cancellations and/or a lack of quorum. During 2012, there were 10 publicly noticed meetings of the Creeks Advisory Committee. Regular Meetings were held on January 18, February 15, April 18, May 16, June 20, October 17, and December 12. A Special Meeting of the Committee was held on March 14. The Budget Subcommittee met on March 21. A Site Visit was held on August 15.

2012 Total: 10 meetings

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 2.1b: *36 airings and archive on web for one year.*

Status: Due to fewer meetings held in 2012, as well as room scheduling conflicts, and a special site visit meeting; there were only 33 airings of the Creeks Advisory Committee meetings in 2012.

The January 18 Creeks Advisory Committee meeting was broadcast live, and aired again twice (January 20 and 27). The February 15 meeting was broadcast live, and aired again twice (February 17 and 24). The March 14 meeting was broadcast live, and aired again five times (March 16, 18, 21, 23, and 30).

The April 18 meeting was broadcast live, and aired again twice (April 20 and 27). The May 16 meeting was broadcast live, and aired again four times (May 18, 19, 21, and 25). The June 20 meeting was broadcast live, and aired again seven times (June 22, 23, and 29, and July 18, 20, 21, and 27).

The December 12 meeting was broadcast live, and aired again four times (December 14, 17, 21, and 22).

Due to room scheduling conflicts, the Special Meeting of October 17 and the Budget Subcommittee Meeting of March 21 were held in rooms that did not allow for televising the meetings. The Site Visits of August 15 also was not filmed.

All televised meetings were archived online at *www.sbcreeks.com*, where they will remain available for at least one year from the meeting date.

2012 Total: 33 airings

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 2.1c: *12 postings. All Meetings to be posted according to Brown Act requirements.*

Status: All 10 meeting postings in 2012 (as well as a site visit that was cancelled due to a lack of a quorum) met the requirements of the Brown Act. The Ralph M. Brown Act requires that agendas for regularly

scheduled Committee meetings are posted 72 hours (3 days) in advance of the meeting. For special meetings, the requirement is 24 hours, although staff follows the 72 hour requirement when possible.

Proposed Modifications: None

Proposed Year 5 Activities: Ongoing.

Measurable Goal 2.1d: *Distribute agendas to mailing list of 250.*

Status: This measurable goal was exceeded by over 100 in 2012. The Creeks Division distributes agendas for each Creeks Advisory Committee meeting via mail to a list of interested community members, Committee members and liaisons, appropriate staff, and local news organizations who have requested to receive agendas. Email notice is sent with a link to the agenda to subscribers to the City's E-Subscriptions notification list, as well as a separate list of interested parties and news organizations that the Creeks Division maintains.

At the end of 2012, there were 305 people on the email notification lists and 47 people on the regular (hard copy) mailing list, for a total of 352 community members receiving meeting agendas.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 2.1e: *1 meeting (dedicated to SWMP).*

Status: The Creeks Advisory Committee received a presentation on the City's Storm Water Management Program at the May 16, 2012 meeting.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 2.2 Project Clean Water Stakeholder Committee Meeting

Measurable Goal 2.2: *4 meetings (one quarterly).*

Status: Creeks Division staff attended all four Project Clean Water County stakeholder meetings in 2012 (held at the Watershed Resource Center at the County's Arroyo Burro Beach).

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 2.3 Regional Coordination

Measurable Goal 2.3: *4 meetings (one quarterly).*

Status: Creeks Division staff attended all four of the County's Association of MS4 Managers (SBCAMM) meetings in 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 2.4 Community Forum on Water Quality Issues

Measurable Goal 2.4a: *1 meeting.*

Status: The 2012 Community Forum took place on Thursday, September 20, as part of the annual Creek Week celebration. Representatives from the Creeks Division and the University of California, Santa Barbara provided a presentation on "Methods for Tracking Bacterial Sources in Arroyo Burro Creek." The event was co-hosted with the County of Santa Barbara Project Clean Water.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 2.4b: *4 airings (English).*

Status: The forum took place at the Watershed Resource Center at Arroyo Burro Beach County Park, and was not filmed.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 2.4c: *2 airings (Spanish).*

Status: The forum took place at the Watershed Resource Center at Arroyo Burro Beach County Park, and was not filmed.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 2.4d: *4 postings (flyer online, via email, and to community calendars).*

Status: This goal was met. The forum took place during Creek Week, so promotion for the event was included in all Creek Week advertising and promotion.

Approximately 1,000 postcards were distributed throughout the community, a complete schedule was posted online, and the event was added to various online community calendars. An email newsletter went out to over 600 Creeks Division E-News subscribers promoting the event. Full Creek Week schedules were also distributed throughout the community, and posted online.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 2.4e: *Place 2 advertisements (local daily and weekly newspapers).*

Status: This goal was exceeded. Several full and quarter page ads were placed in weekly publications *The Independent*, *CASA Magazine*, and *Coastal View News*.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 2.5 Community Volunteer Projects

Measurable Goal 2.3: *Involve 20 participants in a creek clean-up and maintain a list of potential volunteers to assist in storm monitoring. Achieve participation from a minimum of two volunteers in storm monitoring activities during daylight hours at least once per year, provided that storm monitoring occurs during daylight hours.*

341 volunteers participated in creek clean-ups, beach clean-ups, and/or native planting along creeks in 2012. A total of 5 community members have signed up to do volunteer storm monitoring.

On January 16, 2 volunteers with AmeriCorps participated in a clean-up at Leadbetter Beach.

On April 26, 4 volunteers from Santa Barbara City College conducted a clean-up of Mission Creek at Oak Park. On April 29, another group of 4 Santa Barbara City College students conducted a clean-up at East Beach. On May 18, 15 staff and students from Santa Barbara Business College conducted a clean-up at East Beach. On June 2, as part of the Looking Good Santa Barbara event, 6 volunteers participated in a clean-up of Old Mission Creek at Oak Park, and another 15 volunteers participated in storm drain marking throughout the Ortega Park neighborhood.

Participants in the City's Nature Camp participated in native planting days at Mission Creek at Oak Park on July 3 (30 youth), July 24 (35 youth), August 1 (30 youth), and August 17 (30 youth). On September 22, 20 volunteers participated in an Ocean Friendly Gardens workshop at Spencer Adams Park, coordinated by the Surfrider Foundation and the City.

On November 10, another 20 volunteers participated in an second Ocean Friendly Gardens workshop at Spencer Adams Park, installing native plants and irrigation.

Annual creek clean-ups were held in November with staff and community volunteers, for a total of 10 participants over 3 days.

The Creeks Division also coordinates local Adopt-a-Beach activities, which included a total of over 120 volunteers at 17 beach clean-ups throughout the year, hosted by the Urban Creeks Council, Santa Barbara Channelkeeper, Brooks Institute, and the Ty Warner Sea Center.

A total of five community members have expressed interest in storm water monitoring, although due to storm sampling events taking place during the overnight hours, and potential volunteers' availability, no volunteers joined staff for storm monitoring during 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

3. Illicit Discharge Detection and Elimination

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Storm Sewer System Mapping	3.1	Maintain and update storm sewer system map via GIS.	X			X		
Municipal Code Enforcement; Document and respond to complaints of illicit discharge and other relevant enforcement issues	3.2a	Maintain database of incoming complaints and enforcement cases that staff identify.	X			X		
	3.2b	Produce and distribute response cards for complainants and include program evaluation survey on cards.	X					X
	3.2c	Abate illicit discharges through education and outreach, patrols, call response, Notices of Violations, and Citations.	X			X		
Complete review and revision of ordinances that regulate illicit discharges	3.3a	Evaluate current ordinances to determine need to update.	X			X		
	3.3b	Hold public workshops and hearings.		X				
	3.3c	Ordinance adoption.		X				
Field Investigation and Abatement	3.4	Conduct field investigations and follow up with abatement procedures.	X			X		
Inventory of businesses and industries to be monitored for illicit connections and/or discharges	3.5	Create inventory of all Attachment 4 listed businesses and industries to be monitored for potential illicit connections and/or discharges.	X			X		
File a Notice of Intent to discharge water from the water distribution system pursuant to the RWQCB's General NPDES Permit for Discharges with Low Threat to Water Quality (Order No. R3-2006-0063)	3.6	File the Notice of Intent and maintain appropriate records.	X					X
Inventory commercial facilities 100,000 square feet or greater	3.7	Identify and locate using GIS technology.	X			X		
Inspect commercial facilities 100,000 square feet or greater	3.8	In conjunction with the business outreach program.	X			X		

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Inventory parking lots of 10,000 square feet or greater (or space for 25 or more cars)	3.9	Identify and locate using GIS technology.	X			X		
Monitor maintenance of and BMP application to parking lots of 5,000 square feet or greater (or space for 25 or more cars)	3.10	Work in conjunction with existing enforcement programs, Business Certification Program, & permit applications to monitor, apply and maintain appropriate BMPs.	X			X		
Complete a study of BMPs for washing sidewalks	3.11	Contact coastal communities, survey BMPs and identify costs and other issues.	X			X		
Implement selected sidewalk washing BMPs	3.12	Identify needs and propose budget.	X			X		
Connect City swimming pool to sanitary sewer	3.13	Develop design, make infrastructure drainages to provide pipe connection.	X		X	X		
Illegal Discharge Training	3.14	Provide annual training to all City employees that perform activities that are covered by this permit.	X			X		

BMP 3.1 Storm Sewer System Mapping

Measurable Goal 3.1: *Update map regularly to reflect any drainage retrofits or alterations.*

Status: The City's GIS Department, who manages and updates the City's storm drain maps, made the following revisions in 2012 to reflect storm drain retrofits and/or alterations:

- Updated storm drain infrastructure GIS data along Conejo Rd.
- Updated the elevation and invert elevation data for the catch basins at the intersection of Milpas St. and Cacique St. - also the HWY from Caltrans, which is about 100 ft from the intersection (towards HWY 101).
- Based on the CAD image screen shot from the Surveyor's Office for the intersection of Victoria St and Castillo St, it was determined that the manhole was in place, but needed elevation data updated. The 72" main connecting to it was changed from reinforced concrete pipe to corrugated metal pipe.
- Added 3 new drop inlets (DI) for 535 E Montecito St., and one manhole along E Montecito St. One is along Calle Cesar Chavez, one is in the middle of the complex, and the last DI is along the entrance for E Montecito St. All are connecting to the storm manhole at the entrance at E. Montecito St.
- Based on project as-built plans, removed some existing DIs and connecting pipes in place. Added two new DIs. There were no connecting mains for the two DIs. The outflow goes to either side of the

road, into the creek.

- Made various corrections to the City's storm drain GIS layers (mainly elevation data), based on field notes and survey data supplied from Public Works Engineering.
- Added three new DIs and two connecting pipes for the road bend for La Vista Del Oceano Drive. Also, updated the elevation data for storm manholes there, based on data provided by Engineering.
- Flipped the direction of pipe ID P-B05-47, and updated the Up and the Down node reference.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 3.2 Municipal Code Enforcement; Document and Respond to Complaints of Illicit Discharge and Other Relevant Enforcement Issues

Measurable Goal 3.2a: *100% call response within 24 hours.*

Status: Creeks Division staff attained 99.6% call response within 24 hours in 2012. 225 calls and complaints of illicit discharges and other potentially polluting activities were received in 2012. All but one call (out of 225 calls) were responded to within 24 hours. A break-down of calls/reports per quarter is below.

A total of 50 enforcement calls were received in the 1st quarter of 2012. A total of 78 enforcement calls were received in the 2nd quarter of 2012. A total of 49 enforcement calls were received in the 3rd quarter of 2012. A total of 48 enforcement calls were received in the 4th quarter of 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing

Measurable Goal 3.2b: *Produce response cards in Year 1 and supply response cards to complainants when contact info is available. Review evaluation surveys quarterly and incorporate suggestions as appropriate.*

Status: Creeks Division staff produced response cards in July 2009. The response cards have had very limited success, to date. Creeks Division staff mails response cards to complainants when their contact information (address) is provided. However, only two addresses were provided in 2012, so only two response cards were mailed out by enforcement staff. No response cards were returned.

Proposed Modifications: None.

Proposed Year 5 Activities: Incorporate suggestions received from response cards.

Measurable Goal 3.2c: *Pursue appropriate enforcement and resolution.*

Status: Appropriate enforcement and resolution was pursued throughout 2012. Of the 225 enforcement calls/complaints received, 75 warranted a Notice of Violation (NOV), and 9 citations were issued (Administrative Citations are fines ranging from $100 to $250).

All NOVs and citations were detected through enforcement calls, outreach, and/or patrols. NOVs were issued if the violation was the first for that offending party within 12 months. Citations were issued for

missing a clean-up deadline already issued via a NOV, and/or when a discharger committed either a second or third illicit discharge offense within 12 months. All illicit discharges were stopped before the enforcement officer left the location where the violations occurred.

Each NOV described the violation and required a clean-up remedy if applicable. They also contained appropriate alternatives to discharging pollutants to the storm drain system. For example, car washing violations would include a suggestion for capturing the wash water before it leaves the property with a wet/dry vacuum and either discharging the captured water into the sanitary sewer or landscaping. For cases with a deadline to complete a clean-up remedy, follow-up inspections were conducted to make sure the discharges were cleaned-up by the deadline. Fines are issued if abatement deadlines are not met.

"Creek Clean Ups" is another program administered by the Creeks Division that addresses/abates illicit discharges in/near the City's creeks. The City contracts with ServiceMaster, a local contractor, who picks up trash, debris, dumped items, feces, etc. within the City's creeks and banks, per the City's direction/contract. City staff forwards 8-10 creek locations that need cleaning/pick-up to ServiceMaster, bi-weekly. So, up to 20 creek sites are cleaned (illicit discharges abated) weekly. In 2012, all the items removed from creek locations by ServiceMaster during these clean ups weighed 104,720 lbs. (i.e. 104,720 lbs trash removed from City creeks, banks, and lagoons!).

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 3.3 Complete Review and Revision of Ordinances that Regulate Illicit Discharge

Measurable Goal 3.3a: *Complete ordinance audit by end of year two of permit.*

Status: The ordinance audit was completed early (in Year 1). The Creeks Division hired Geosyntec Consultants in May 2009 to review all applicable City ordinances, policies, guidelines, conditions of approval, and goals to identify inconsistencies toward meeting the requirements of the NPDES General Permit, the City's SWMP, and/or the City's Storm Water BMP Guidance Manual. The audit also assessed internal consistency (or inconsistency) of City regulations and goals and storm water requirements with respect to storm water management, water quality, flooding, and creek/riparian resources. The results of the ordinance audit will assist the City with preparation of a storm water ordinance in 2013.

Proposed Modifications: None.

Proposed Year 5 Activities: N/A

Measurable Goal 3.3b: *4 meetings.*

Status: Meetings will be held in Year 5 (2013), as the ordinance is drafted (the Regional Board's "Joint Effort" due date for the City's storm water ordinance is currently September 6, 2013). The meetings in 2013 will solicit staff and public input in order to tailor an appropriate/effective storm water ordinance.

Proposed Modifications: None.

Proposed Year 5 Activities: See above.

Measurable Goal 3.3c: *Implement and enforce new ordinance.*

Status: A new storm water ordinance will be implemented and enforced once the new ordinance is completed in 2013.

Proposed Modifications: None.

Proposed Year 5 Activities: See above.

BMP 3.4 Field Investigation and Abatement

Measurable Goal 3.4: *A minimum of one enforcement staff on duty 100% of the time, and a minimum of 100 field investigations conducted annually.*

Status: 225 field investigations were conducted in 2012, and at least one enforcement staff member was on duty 100% of the time.

Several other staff throughout the City also perform enforcement duties that apply to the SWMP goals and intent; such as building inspectors, Environmental Services workers, and Water Resources enforcement officers. All enforcement staff coordinate and notify the appropriate person for different discharges.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 3.5 Inventory of Businesses and Industries to be Monitored for Illicit Connections and/or Discharges

Measurable Goal 3.5: *Complete inventory by end of year two of permit.*

Status: An inventory of Attachment 4 listed businesses and industries (automotive repair shops, retail gasoline outlets, and restaurants) was compiled in 2010 for ongoing monitoring for potential illicit connections and/or discharges. The inventory totals 387 businesses within the City.

Proposed Modifications: None.

Proposed Year 5 Activities: The inventory will continue to be used to guide the City's enforcement patrols and awareness for potential illicit connections and/or discharges.

BMP 3.6 File a Notice of Intent to Discharge Water from the Water Distribution System Pursuant to the RWQCB's General NPDES Permit for Discharges with Low Threat to Water Quality (Order No. R3-2006-0063)

Measurable Goal 3.6: *Date NOI is filed.*

Status: Upon completion of construction at the two wells in 2010, the City filed Notices of Termination for

these projects. Both notices were dated 1-24-11. The City has learned that ongoing water distribution operations, including well operation, are appropriately monitored and reported on under the MS4 permit for the City's Storm Water Management Plan. Accordingly, the City does not plan to file a separate notice for operation of the wells. A current, separate Notice of Intent for construction at Ortega Groundwater Treatment Plant will be maintained until completion of the project, after which the facility's operation will also fall under the City's MS4 permit.

Proposed Modifications: This BMP can be deleted.

Proposed Year 5 Activities: N/A

BMP 3.7 Inventory Commercial Facilities 100,000 Square Feet or Greater

Measurable Goal 3.7: *Complete inventory by end of permit year two.*

Status: The commercial facilities inventory was completed early, in Year 1. The inventory was produced using City parcel data and GIS software. A map and list of parcels 100,000 square feet or greater with a commercial land use designation was generated. Some commercial facilities are located on multiple parcels that are each less than 100,000 square feet but the sum square footage of the parcels occupied by each facility is equal to or greater than 100,000 square feet. Since these commercial facilities were not generated by the GIS query, they were manually added to the maps and list.

Proposed Modifications: None.

Proposed Year 5 Activities: None. BMP completed.

BMP 3.8 Inspect Commercial Facilities 100,000 Square Feet or Greater

Measurable Goal 3.8: *Inspect 5 commercial facilities annually (or 100% - whichever comes first).*

Status: Five commercial facilities were inspected by city staff in 2012:

1. 400 W. Pueblo St. (Santa Barbara Cottage Hospital)
2. 3943 State St. (Five Points Shopping Center)
3. 1100 Anacapa St. (Santa Barbara County Courthouse)
4. 215 Pesetas Ln. (Sansum Clinic)
5. 721 Cliff Dr. (Santa Barbara City College)

All of the inspections with the facility managers resulted in minor follow-up steps to improve storm water management and water quality protection, onsite. These included cleaning and better protecting drains/drop inlets in specific areas, getting new covers/lids for trash bins, labeling storm drain inlets ("no dumping"), and educating the managers/contacts about the City's Business Assistance Program (i.e. grants to purchase wet/dry vacs and berms to contain wash water and/or spills).

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 3.9 Inventory Parking Lots of 5,000 Square Feet or Greater (Or Space for 25 or More Cars)

Measurable Goal 3.9: *Complete inventory by end of permit year two.*

Status: An inventory of parking lots was completed early, in 2006 and 2007, when the City was informally implementing the SWMP. The criterion for the inventory was changed from 10,000 to 5,000 square feet or greater (or 25 or more spaces) due to the fact not many parking lots in Santa Barbara are as large as 10,000 square feet.

Approach
Aerial photographs of Santa Barbara (2004) were used to find parking lots that fit the criteria. The aerial photos were reviewed, grid square by grid square, to find parking lots that have at least 25 parking spaces. In order to identify parking lots that are 5,000 square feet or greater, GIS was used.

Criteria
- Included contiguous parking lots (i.e. if there were 2 or more lots of under 25 parking spaces each that were connected by a paved surface and combined to equal more than 25 spaces, this was considered a single lot).
- Did not include areas where parking spaces were designated along the edges of a roadway.
- Area calculations were rounded to the nearest foot.

Proposed Year 5 Activities: None. BMP completed.

BMP 3.10 Monitor Maintenance of and BMP Application to Parking Lots of 5,000 Square Feet or Greater

Measurable Goal 3.10: *Send information to all 500 parking lot parcel owners in permit year two regarding BMP application and follow up with monitoring in permit years three, four, and five.*

Status: Staff created a colored, tri-fold brochure (in both English and Spanish) about parking lot maintenance and best management practices in Year 2, 2010. The brochures were sent to all 500 parking lot parcel owners (lots that have 25 or more spaces, or are 5,000 square feet or greater). The brochure defines how parking lot maintenance and/or lack thereof can contribute to polluting our creeks and ocean and offers numerous solutions for this problem. The brochure also suggests design opportunities, such as pervious pavers, permeable concrete and enhanced swales that can be implemented into parking lots that are redesigned and/or developed within the City.

Enforcement staff inspected 29 parking lots of 5000 sq. ft. or greater in 2012. Illicit discharge complaints were the reason for all of these inspections. Twenty of these inspections resulted in NOVs.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 3.11 Complete a Study of BMPs for Washing Sidewalks

Measurable Goal 3.11: *Complete in Year 1.*

Status: This goal was completed early, in 2007. Several different BMPs for washing sidewalks were studied in 2007, when the City was tasked with developing a proper method for washing downtown sidewalks that contained the wash water runoff. An internet search was conducted for information on what other municipalities have done to address sidewalk washing and through process of elimination, City staff decided that building a custom device for washing sidewalks and capturing runoff for re-use was the best approach.

Proposed Modifications: None.

Proposed Year 5 Activities: None. BMP completed.

BMP 3.12 Implement Selected Sidewalk Washing BMPs

Measurable Goal 3.12: *Complete in Year 2.*

Status: Sidewalk washing BMPs were implemented early; in 2007-2008 through a City contract with the Downtown Organization (D.O.). The D.O. is a non-profit, Business Improvement District that works to meet the needs of businesses, professionals, and property owners. The D.O. uses a custom-made machine that pressure-washes the sidewalks with a close-looped system with zero discharge and pretreatment for solids and hydrocarbons absorption. The wash water is passed through the pretreatment filter for cleaning and is later used for irrigating the sidewalk planter beds.

Proposed Modifications: None.

Proposed Year 5 Activities: None. BMP competed.

BMP 3.13 Connect City Swimming Pool to Sanitary Sewer

Measurable Goal 3.13: *Complete in Year 1.*

Status: The City's Parks and Recreation Department remodeled the City's swimming pool (Los Banos Del Mar Pool) in 2008. The project included connecting the pool to the sanitary sewer.

Proposed Modifications: The permit year in SWMP Table 4.3 needs to be changed from Year 2 to Year 1.

Proposed Year 5 Activities: None. BMP completed.

BMP 3.14 Illegal Discharge Training

Measurable Goal 3.14: *Provide at least one annual training session of one hour in length to Public Works Department, Streets Program, Parking Operations Program, Water Resources Division, Facilities Division,*

Parks Operations Division, Golf Course, and Fire Operations.

Status: Creeks Division staff provided one hour of training related to SWMP implementation and storm water BMPs in 2012 for all relevant/operational City employees who conduct activities that could potentially pollute storm water runoff and/or impact the City's storm drain system. These city staff trainings have been provided by Creeks Division staff since 2007.

In Year 4 (2012), Creeks Division staff purchased a new CD-rom employee training package from Excal Visual, LLP called "Rain Check" (2012). The package is very useful, with several different training videos to choose from, each of which focus in on various city employee tasks and how to conduct them properly in order to protect surface water quality and the City's storm drain system. The package also includes a trainer's guide, pocket references, employee quizzes, and even templates to help create presentations specific to individual facility requirements. The trainings are approximately one hour in length and include an introduction to the City's SWMP and the importance of protecting water quality. Staff are required to attend and sign-in sheets are collected.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

4. Construction Site Storm Water Runoff Control

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Evaluate need to revise current erosion and sediment control policy into stronger regulatory mechanism	4.1a	Review construction projects subject to the policy for compliance.	X			X		
	4.1b	Develop reports and statistics.	X		X	X		
	4.1c	Hold meetings with inspectors and developers.	X			X		
	4.1d	Decision to be made during third year of review.	X			X		
Evaluate the SBMC ordinance regarding erosion and sediment control requirements (Chap. 22, Section J111)	4.2a	Develop outline, detailed work program, budget, and schedule to review code relative to other comparable City codes.	X			X		
	4.2b	Develop revisions.	X			X		
	4.2c	Hold public workshops and hearings.	X			X		
	4.2d	Ordinance adoption.	X			X		
Track BMP inspections, violations, and resolution to violation	4.3	Use CASQA BMP Fact Sheets as checklist for proper implementation and maintenance confirmation and use existing computer permit software to track.	X			X		
Provide ongoing inspection of BMPs throughout course of construction with a focused priority on larger sites with slopes and/or adjacent to a creek	4.4	BMPs must be in place and functional before any other building inspections can be made; this makes sites with detailed erosion control plans a priority.	X			X		
Enforcement of violations related to erosion control issues for construction projects	4.5	Enforcement cases are tracked in database, along with contractor, developer, grading engineer, and any other associated personnel.	X			X		
Achieve compliance with erosion and sediment controls	4.6	Send annual informational email bulletin regarding erosion and sediment control to appropriate groups and individuals.	X		X	X		
Maintain and increase Building and Public Works Inspectors knowledge of design and implementation of erosion control BMPs	4.7	Provide annual training of Building and Public Works Inspectors.	X			X		

BMP 4.1 Evaluate Need to Revise Current Erosion and Sediment Control Policy into Stronger Regulatory Mechanism

Measurable Goal 4.1a: *Review construction projects subject to the policy for compliance. Document all projects reviewed and % compliance with policy.*

Of all projects submitted in 2012, 29 projects were reviewed for "detailed" erosion control plans and 25 projects were reviewed for "standard" erosion control plans, as required by the Erosion/Sedimentation Control Policy (which is now an ordinance, as of January, 2013), with 100% compliance. The City's Building Department attained 100% compliance with this goal by working with applicants to ensure that their erosion control plans (ECPs) were sufficient for the site and in compliance with the City's requirements. A large project off Calle de los Amigos (Modoc/La Cumbre) had a separate permit issued for each structure. Therefore, the entire project falls under a detailed ECP, so each permit is counted separately as needing "detailed" ECP.

In addition to "detailed" and "standard" erosion control plans, over 100 other projects included basic BMP's as part of the plans and permit, as all projects require basic BMP's, i.e.; "no washout to street," "hazardous material storage," etc.

The Building Department's new reporting approach (modified in 2010) now identifies any/all projects with new or additional square footage or any grading proposed. (Previous reporting identified all projects with Building Department plan review regardless of grading or new square footage data, as all projects require basic BMP's, i.e.; "no washout to street," "hazardous material storage," etc.). This new reporting approach more appropriately focuses on projects with the potential to impact storm water and/or those that require erosion/sediment control BMPs.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 4.1b: *Develop reports and statistics. Document all projects reviewed and % compliance with policy.*

As stated above, 54 projects were reviewed (meaning Erosion Control Plans or "ECPs" were reviewed) in 2012 for erosion/sedimentation BMP compliance on plans, and 100 % compliance was attained in 2012. These numbers are significantly lower than 2009/2010, simply due to a change in the reporting method. Reporting now only identifies projects required to submit erosion control plans as is outlined in the City's requirements. However, Building & Safety still reviews all projects for potential erosion/sedimentation control issues.

The 2012 report of erosion control inspections documents 256 field inspections specific to erosion control in 2012. Of those 256 inspections, 40 correction notices and/or warnings were issued. No "stop work orders" were warranted in 2012. Lack of significant rainfall events and cooperation with the contracting community resulted in 100% compliance.

Proposed Modifications: *(Already proposed in 2010):* This measurable goal is redundant with 4.1a. Building staff proposes to slightly modify this goal to be: *Document all projects reviewed/inspected in the field and % compliance with policy. Develop reports and statistics.*

Proposed Year 5 Activities: Ongoing.

Measurable Goal 4.1c: *Conduct monthly meetings with Inspectors to review compliance.*

The City Building Department exceeded this measurable goal in 2012 by conducting weekly Building Division inspection meetings where many pertinent inspection topics were covered. Meeting topics included discussions of erosion control, current weather, Planning Commission Condition ground disturbance limitations, Erosion/Sedimentation Control Plan at Valle Verde, proper installation of ECP measures, staging of ECP measures during active construction. Leading up to and during the rainy season, the topic usually centers on erosion/sedimentation control. These weekly meetings last for 1 hour. During the latter parts of summer and into fall, and as the City approaches the rainy season, erosion control becomes more and more of a weekly topic and training item rather than just a general discussion.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 4.1d: *Make decision or adopt ordinance by end of permit year three.*

The City produced and reviewed with appropriate staff and committees an Erosion/Sediment Control ordinance during the 3rd and 4th quarters of 2012. The ordinance was adopted by City Council on January 13, 2013 (See Audit Compliance Section E).

Proposed Year 5 Activities: Adopting the ordinance does not change activities, but does provide a more enforceable mechanism if construction projects do not comply.

BMP 4.2 Evaluate the SBMC Ordinance Regarding Erosion and Sediment Control Requirements (Chap. 22, Section J111)

Measurable Goal 4.2a: *Approval of Workplan.*

The City produced and reviewed with appropriate staff and committees an Erosion/Sediment Control ordinance during the 3rd and 4th quarters of 2012. The ordinance was adopted by City Council on January 13, 2013.

Proposed Modifications: None.

Proposed Year 5 Activities: BMP complete.

Measurable Goal 4.2b: *Submit revisions to Ordinance Committee for review by end of permit year two.*

The City produced and reviewed an Erosion/Sediment Control ordinance during the 3rd and 4th quarters of 2012. The ordinance was adopted by City Council on January 13, 2013.

Proposed Modifications: None.

Proposed Year 5 Activities: BMP complete.

Measurable Goal 4.2c: *4 meetings.*

The City produced and reviewed an Erosion/Sediment Control ordinance during the 3rd and 4th quarters of 2012. The ordinance was adopted by City Council on January 13, 2013.

Proposed Modifications: None.

Proposed Year 5 Activities: BMP complete.

Measurable Goal 4.2d: *Adopt ordinance by end of permit year three.*

The City produced and reviewed an Erosion/Sediment Control ordinance during the 3rd and 4th quarters of 2012. The ordinance was adopted by City Council on January 13, 2013.

Proposed Modifications: None.

Proposed Year 5 Activities: BMP complete.

BMP 4.3 Track BMP Inspections, Violations, and Resolution to Violation

Measurable Goal 4.3: *BMP inspections must be completed prior to October 15, or within the first week of work if construction begins after October 15.*

Goal not met due to insufficient staffing levels and increase in construction project numbers in 2012. However, all construction sites are directed to install BMP's as required on a year-round basis. Additional inspections are scheduled for all sites prior to the start of the rainy season and periodic inspections are scheduled prior to and during rain events for prevention and monitoring purposes. The inspections for projects that will have ground disturbance during the "rainy season" begin once the permit is issued for the project. These inspections occur before any ground disturbance or construction has begun.

Since January 2011, City inspectors are provided with a complete list of sites that require an inspection prior to October 15th, or within the first week of work if construction begins after October 15th. This list is used in conjunction with the existing method of pre-rain event inspections in an attempt to improve upon the Building Department's current tracking and inspection measures.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 4.4 Provide Ongoing Inspection of BMPs Throughout Course of Construction with a Focused Priority on Larger Sites with Slopes and/or Adjacent to a Creek

Measurable Goal 4.4: *Building permit date formally kicks off inspection; track permit dates and number of inspections per site. Inspect BMPs using CASQA BMP Fact Sheets.*

The inspectors use the CASQA BMP Fact sheets to ensure that the BMP's are installed correctly and are appropriate for the site. City's Building Inspectors log all BMP inspections into a computerized permitting system. These inspections are tracked and any "corrections" must be cleared before more inspections are given.

Effective January 2011, the Building Department inspectors now track projects with new or additional square footage or any grading, in order to effectively document projects that require an erosion control plan and therefore have the potential to impact storm water runoff. This new tracking mechanism will help to produce clearer reports and document that all projects with erosion control plans (especially those requiring a "detailed erosion control plan," such as those with slopes and/or adjacent to a creek) achieve 100% compliance with the policy.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 4.5 Enforcement of Violations Related to Erosion Control Issues for Construction Projects

Measurable Goal 4.5: *Track 100% of enforcement cases and report offenders in Annual Report.*

Zero enforcement cases related to erosion control issues were reported by the Building Department in 2012. The City Building Department utilizes correction and warning notices to address site deficiencies and inspectors work with the contractor community both through trainings and on a site by site basis to maintain full compliance. 100% of all active project sites were inspected for violations. Correction and/or warning notices were issued if/when BMPs at a construction site were not sufficient, or a construction site was not designed per the BMPs identified on the plans, or if site dynamics changed and further/additional BMPs were needed. Failure to comply with a correction or warning notice results in a formal enforcement case leading to administrative penalties and legal action by City Attorney's office.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 4.6 Achieve Compliance with Erosion and Sediment Controls

Measurable Goal 4.6: *Send annual informational email bulletin regarding erosion and sediment control to appropriate groups and individuals.*

Goal not met. Codification of the City's current Erosion/Sedimentation Control Policy in 2013 will prompt an updated e-bulletin for Year 5 (2013).

Proposed Modifications: *(Already proposed last year):* The Water Board has requested a specific, numeric goal to replace this measurable goal, as well as a method for tracking reduction in construction site violations over time as a measure of the effectiveness of construction site storm water runoff control activities. However, Building Department staff feels that the Water Board's requested numerical documentation of the "reduction in violations" is too vague to be meaningful and impossible to track. This number would vary with construction activity and site challenges and would therefore not be reflective of the City's efforts in reducing "violations". The Building Department is making improvements in tracking project sites and their associated erosion control plans. However, even these tracking mechanisms will not alleviate the inherent issues that surround construction projects as far as site dynamics. Active sites change daily and construction traffic, trenching, grading, clean-up, landscaping, etc., can all modify what was once an ideal erosion control

system. Inspection staff typically use correction notices to initiate installation of, or modifications to erosion control systems. In the event sediment does breach the erosion control systems a correction notice is used to require clean up procedures. Improper installation of BMPs on a site can happen even to the best of companies. It is part of the inspection process to verify that all BMPs on all sites meet the SWMP standards and to make corrections where necessary.

The proposed 4.6 Measurable Goal to replace the existing goal is: *Send annual informational email bulletin to a minimum of 2,000 appropriate individuals in the design and/or construction community.* This outreach measure will enhance the City's commitment to educating the target audience about the construction BMP requirements and updates.

Proposed Year 5 Activities: See above.

BMP 4.7 Maintain and Increase Building and Public Works Inspectors Knowledge of Design and Implementation of Erosion Control BMPs

Measurable Goal 4.7: *100% of all inspectors trained each year.*

100% of all City inspectors were trained in 2012. Inspectors hold weekly training meetings on various construction and code issues. Beginning in late summer through late spring of very year, erosion control BMP installation is an almost weekly topic. Staff comparisons on construction sites are noted for effectiveness and appropriateness. Also, inspectors work very hard with the contractors to update and "train" them as well.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

5. Post-Construction Storm Water Management in New Development and Redevelopment

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Implement minimum design standards for post-construction storm water management prescribed by Attachment 4	5.1	Apply appropriate post-construction BMPs (using City's Storm Water BMP Guidance Manual) through development design review and permit conditions.	X			X		
Require ongoing BMP maintenance and annual inspection and records for discretionary projects requiring Planning Commission permit approval	5.2	Apply post-construction BMP maintenance/inspection requirements through development permit conditions. Document annual list of audits and inspections.	X			X		
Take enforcement action to ensure BMP implementation/maintenance on projects conditioned with BMPs that fall under Attachment 4	5.3	Undertake enforcement actions through City enforcement program procedures, and document enforcement actions.	X				X	
Develop and implement City ordinance provisions that incorporate design standards	5.4a	Develop outline, detailed work program, budget, and schedule. Develop draft ordinance.	X			X		
	5.4b	Conduct an ordinance audit to identify and remedy areas in the municipal code and other policies/goals that conflict with enforcing design standards.	X			X		
	5.4c	Hold public workshops and hearings. Develop final ordinance. Ordinance adoption.		X	X			
	5.4d	Apply new and/or modified enforceable mechanisms to all applicable new and redevelopment projects.	X			X		
Derive municipality-specific criteria for controlling hydromodification in new and redevelopment projects using Water Board-approved methodology developed through the Joint Effort.	5.4.1	Participate in Water Board's Joint Effort to develop hydromodification control criteria.	X			X		
Select Applicability Thresholds for applying Hydromodification Control Criteria to new development and redevelopment projects. Applicability thresholds will be consistent with long-term watershed protection.	5.4.2	Identify appropriate thresholds for applying hydromodification criteria thresholds to new and redevelopment projects.	X			X		

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Update and implement post-construction volumetric and flow-based design standards and BMPs	5.5a	Study and consider additional standards for volumetric or flow-based treatment control design standards.	X			X		
	5.5b	Apply design standards for non-discretionary projects requiring ministerial permits.	X			X		
	5.5c	Update standard provisions for CEQA impact analysis.	X			X		
	5.5d	Update standard mitigations and conditions.	X			X		
Develop and enact a strategy for implementing LID and hydromodification control for new and redevelopment projects. The strategy will provide appropriate education and outreach for all applicable target audiences, and will includes specific guidance for LID BMP design and for complying with hydromodification control criteria. The strategy will also apply LID principles and features to new and redevelopment projects during the two-year period preceding adoption of hydromodification control criteria.	5.5.1a	Develop, advertise, and make available LID BMP Design Guidance suitable for all stakeholders.	X			X		
	5.5.1b	Specific guidance on how to achieve and demonstrate compliance with the hydromodification control criteria and LID requirements made available to new and redevelopment project applicants.	X		X	X		
	5.5.1c	Documentation of goals, schedules, and target audiences for education and outreach the municipality will conduct in support of the following strategic objectives: enforceable mechanisms, hydromodification control criteria, applicability thresholds, LID BMP design, and compliance with LID and hydromodification control criteria.	X		X	X		
	5.5.1d	Tracking report indicating municipality's accomplishments in education and outreach supporting implementation of LID and hydromodification control of appropriate new and redevelopment projects.	X		X	X		
	5.5.1e	Apply LID principles and features to all applicable new and redevelopment projects.	X			X		
	5.5.1f	Tracking Report, for the period Q2 to Q8 (2/1/10-10/30/10), identifying LID design principles and features incorporated into each applicable new and redevelopment project.		X				
Storm Water Quality Monitoring Program	5.6	Implement monitoring program and update/revise annually.	X			X		

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	Not Applicable	Modified	Effective	Unknown	Not Effective
Microbial Source Tracking Protocol Development Project	5.7	Implement source tracking project and continue research based on funding.	X			X		
Biological Assessment Program	5.8	Implement assessment program by collecting and analyzing benthic macro invertebrate (BMI) samples and other pertinent physiochemical and biological data in creeks.	X			X		
General Plan Update	5.9	Scope affiliated EIR to include policy changes that will continue, update, and expand programs that specifically support watershed planning.	X				X	

BMP 5.1 Implement Minimum Design Standards for Post-Construction Storm Water Management Prescribed by Attachment 4

Measurable Goal 5.1: *Document annual list of discretionary projects for which post construction BMPs were included. Provide report to RWQCB annually.*

Status: The following 47 projects required "Tier 3" post construction storm water BMPs to be included/implemented into project plans during 2012 (Year 4):

314 State St	20 Las Alturas Cir
213 W Cota St	118 E Carrillo St
1130 N. Milpas	415 Alan Rd
832 Dolores Dr	454 Las Alturas Rd
301 W Cabrillo Blvd	528 Anacapa St
1601 State St	635 Olive St
1198 Coast Village Road	720 De La Vina St
909 Calle Cortita	734 Sea Ranch Dr
4151 Foothill Road	872 Deerpath Rd
1676 Franceschi	901 Olive St
200 Block Chapala Bridge	920 Camino Viejo Rd
3232 Campanil Dr	940 Alston
1130 Punta Gorda	1122 Corto Camino Ontare
1255 Coast Village Road	1131 Las Alturas Rd
2 Oliver Road	1291 W Mountain Dr
213 W Cota St	1301 W Mountain Dr
1202 Shoreline Dr	1431 Shoreline Dr
1607 Shoreline Dr	1482 Lou Dillon
1085 Coast Village Road	1533 Shoreline Dr

822 State St	1634 Mira Vista Ave
3880 State St	1651 Sycamore Canyon Rd
46 Camino Alto	2082 Las Canoas Rd
2224 Gibraltar	2296 Las Tunas Rd
2400 Mount Calvary Rd	

All of the Tier 3 projects listed above included one or more of the following conditions of approval (the blue text is where staff uses discretion/changes/etc. as appropriate to the project):

1. Any increase in project site runoff (pre vs. post construction) must be avoided per the City's adopted Storm Water Management Plan (SWMP), and the NPDES General Permit for Storm Water Discharges. Storm water runoff BMPs shall provide detention such that the post-development peak storm water runoff discharge rate shall not exceed the pre-development rate for the 25-year storm event.

2. The project must retain on-site the larger of the two volumes: The volume difference between the pre-and post-conditions for the 25-year, 24-hour storm, or the volume generated from a one-inch, 24-hour storm event.

3. The city and state requires that onsite capture, retention, *and treatment* of storm water are incorporated into the design of the project. In an attempt to treat the small, frequent storm events that impact water quality in Santa Barbara, the City requires that at a minimum, proposed treatment devices are designed to capture and treat the calculated amount of runoff from the project site for a 1 inch storm event over a 24-hour period. Passive/natural capture and filtration design options are recommended as opposed to mechanical/underground options, which pose maintenance problems and often times, do not treat runoff as efficiently. Please refer to the City's Storm Water BMP Guidance Manual (June 2008), posted at www.sbcreeks.com.

4. Storm Water Pollution Control and Drainage Systems Maintenance. Owner shall maintain the drainage system and storm water pollution control devices intended to intercept siltation and other potential pollutants (including, but not limited to, hydrocarbons, fecal bacteria, herbicides, fertilizers, etc.) in a functioning state (and in accordance with the Operations and Maintenance Procedure Plan prepared in accordance with the Storm Water Management Plan BMP Guidance Manual). Should any of the project's surface or subsurface drainage structures or storm water pollution control methods fail to capture, infiltrate, and/or treat water, or result in increased erosion, the Owner shall be responsible for any necessary repairs to the system and restoration of the eroded area. Should repairs or restoration become necessary, prior to the commencement of such repair or restoration work, the applicant shall submit a repair and restoration plan to the Community Development Director to determine if an amendment or a new (Building Permit) (and Coastal Development Permit) is required to authorize such work. The Owner is responsible for the adequacy of any project-related drainage facilities and for the continued maintenance thereof in a manner that will preclude any hazard to life, health, or damage to the Real Property or any adjoining property.

5. **Public Works Submittal Prior to Final/Parcel Map Approval.** The Owner shall submit the following, or evidence of completion of the following, to the Public Works Department for review and approval, prior to processing the approval of the Final/Parcel Map and prior to the issuance of any permits for the project:

6. **Drainage and Water Quality.** Project drainage shall be designed, installed, and maintained such that stormwater runoff from the first inch of rain from any storm event shall be retained and treated onsite in accordance with the City's NPDES Storm Water Management Program. Runoff should be directed into a passive water treatment method such as a bioswale, landscape feature (planter beds

and/or lawns), infiltration trench, etc. Project plans for grading, drainage, stormwater treatment methods, and project development, shall be subject to review and approval by City Building Division and Public Works Department. Sufficient engineered design and adequate measures shall be employed to ensure that no significant construction-related or long-term effects from increased runoff, erosion and sedimentation, urban water pollutants (such as ...), or groundwater pollutants would result from the project. The Owner shall maintain the drainage system and storm water pollution control methods in a functioning state.

The Owner shall provide an Operations and Maintenance Procedure Plan (describing replacement schedules for pollution absorbing pillows, etc.) for the operation and use of the storm drain surface pollutant interceptors. The Plan shall be reviewed and approved consistent with the Storm Water Management Plan BMP Guidance Manual.

The following 52 projects had "Tier 2" basic storm water BMPs included/implemented into project plans during 2012 (Year 4):

22 N Voluntario St	1709 Overlook Ln
25 E Mason St	805 Rametto Ln
32 E Islay St	734 Arbolado Rd
218 San Clemente	118 E Carrillo St
220 Salida Del Sol	528 Anacapa St
222 N Milpas St	1206 Calle Cerrito
351 Hitchcock Way	2115 Anacapa St
415 Alan Rd	628 W Micheltorena
420 E Anapamu St	121 Gray Ave
492 La Cumbre Rd	1512 Shoreline Dr
515 Red Rose Lane	1750 Sycamore Canyon Rd
745 Dolores Dr	903 Alston Rd
824 Reddick St	530 Chapala St
938 Roble Ln	2132 Mission Ridge
1025 E Cota St	1314 Hillcrest Rd
1049 Alameda Padre Serra	1047 Arbolado Rd
1150 Bel Air Dr	779 N Ontare Rd
1210 Olive St	3900 Blk La Colina Rd
1330 San Julian Pl	1913 Laguna St
1447 Crestline Dr	1123 Quinientos St
1615 Sycamore Canyon Rd	220 Salida Del Sol
1656 Las Canoas Rd	1815 Gibraltar Rd
1911 Chino St	18 S Voluntario St
3103 Aargonne Circle	2750 Cuesta Rd
3126 State St	2204 Parkway Dr
3230 State St	1039 Cima Linda Ln

What is important to note about these "Tier 2" Projects is that they are proving to serve as a very valuable and successful outreach tool for storm water management in the City. These small-to-medium residential projects require property owners to consider and implement simple approaches to storm water management on their project site when the "normal/Tier 3" state and city storm water requirements would not apply. This Tier 2 City requirement is not only unique and apart from other small MS4 permit requirements, it is significantly increasing the number of project applicants who have to think about, understand, and implement post-construction storm water management designs. Due to the fact that the Tier 2 design options

are relatively simple and low-cost; applicants are generally receptive and even enthusiastic about improving water runoff quality from their site.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 5.2 Require Ongoing BMP Maintenance and Annual Inspection and Records for Discretionary Projects Requiring Planning Commission Permit Approval

Measurable Goal 5.2: *Track "large projects" (i.e., "Tier 3 projects" as defined in the City's Storm Water BMP Guidance Manual) for required BMP implementation, annual inspection, and reporting. Provide report to RWQCB annually.*

Status: The Planning Division tracks projects and their required BMP implementation. City Planning staff are finalizing a new tracking mechanism, that will allow staff to easily enter and find information about Tier 3 projects including; which discretionary board or commission approvals were required, how much new and/or replaced hardscape was included in the project, what storm water design/BMP was implemented to meet the City's requirements, and lastly; follow-up inspections and/or enforcement. A total of 99 projects within the City implemented post-construction BMPs in 2012/Year 4. Beginning in Year 5, City staff will utilize the new tracking mechanism to demonstrate compliance with BMP implementation, annual inspection, and reporting.

Furthermore, the City's Planning Division developed new/additional protocols and procedures in 2009 (Year 1) to ensure SWMP compliance prior to Design Review approvals. The intention was/is to improve project SWMP compliance in future reporting years.

The following direction has been provided to Staff regarding SWMP compliance since 2009:

1. Any project that requires a Master Application (MST) with a Building Permit (BLD) that has not been issued will be required to comply with SWMP requirements

- SWMP compliance is to be shown on the building permit plans
- SWMP compliance will be reviewed by Design Review Staff
- Design Review Staff will send a letter to the property owner/applicant informing them of SWMP requirements if compliance was missed.
- Design Review Staff will enter a DESIGN REVIEW ROUTING (or similar) activity in <u>all the current BLD's</u> and enter a correction to comply with SWMP shown on the plans; or the activity will indicate that SWMP compliance is already confirmed
- This activity should be added to all affected BLDs now, so that when the permit gets resubmitted, the correction is already there, (the activity needs to print on the BLD correction list)

2. Any MST project with no BLD case yet will be required to comply with SWMP requirements

- SWMP compliance is to be shown on the building permit plans
- SWMP compliance will be reviewed by Design Review Staff
- Design Review Staff will send a letter to the property owner/applicant informing them of SWMP requirements; the letter will request that the applicant submit ASAP to Design Review Staff a plan that shows SWMP compliance
- Once SWMP compliance is confirmed, Design Review Staff will update the MST case Project Statistics to indicate compliance

- When BLD plans are routed to the Zoning Plans Examiner for the Initial Review, the Zoning Plans Examiner will check the Project Statistics in the MST case to see if the project complies with SWMP.
- If it does not, The Zoning Plans Examiner will add the DESIGN REVIEW ROUTING (or similar) activity in the BLD and route to Design Review Staff.
- Design Review Staff will enter a correction in the DESIGN REVIEW ROUTING activity for the project to comply with SWMP

3. As of Jan 1, 2010, ALL MST cases must show SWMP compliance tier level on plans and in MST cases prior to Final Approval

- The Zoning Plans Examiner will not have to check or route any BLD plans to design review staff that received a Final Approval after March 1, 2010

Proposed Modifications: None.

Proposed Year 5 Activities: Beginning in Year 5, City staff will utilize the new tracking mechanism (referred to as the new "SMP case type" in the City's permitting software system) to demonstrate compliance with BMP implementation, inspections, maintenance, and reporting. See Section E for the City's Audit Compliance.

BMP 5.3 Take Enforcement Action to Ensure BMP Implementation/Maintenance on Projects Conditioned with BMPs that Fall Under Attachment 4

Measurable Goal 5.3: *BMP compliance for all enforcement cases completed annually. Provide report to RWQCB annually.*

Status: Enforcement of required BMPs has normally only occurred during the construction phase of a project. Projects are not allowed to be finished without all of the required post-construction BMPs as noted on the plans being installed. Violations that occur after the project is completed (through maintenance and/or inspections) will instigate an enforcement case that would require the violation to be remedied. Up until this point in time, no enforcement cases have been necessary; as projects are only now beginning to be built that require storm water BMPs. The City is beginning a new tracking system (in 2013) for projects with post-construction BMPs that will provide staff with the ability to document the implementation, operation, and maintenance status of the BMPs. Post-construction inspections will take place and follow-up actions if necessary. (See Section E for the City's Audit Compliance). Enforcement actions will ensue in the future if/when compliance is not achieved.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 5.4 Develop and Implement City Ordinance Provisions that Incorporate Design Standards for Post-Construction Stormwater Management BMPS, Including Peak Stormwater Discharge Rates, Capture and Treatment of the One-Inch Storm, and Preserving Natural Areas

Measurable Goal 5.4a: *Completion of draft ordinance by end of year two permit.*

Status: The first step to drafting a storm water ordinance was initiated and completed in Year 1; the storm

water ordinance audit. A storm water ordinance has been drafted, to date, and is scheduled for completion by September 6, 2013. The fact that the City was granted an exemption from the Central Coast Post-Construction Storm Water Requirements (PCRs) in January 2013 and the new General Permit was adopted in February 2013; the City finally has the applicable terms/criteria for the storm water ordinance.

Proposed Modifications: None.

Proposed Year 5 Activities: A storm water ordinance has been drafted, to date, and is scheduled for completion by September 6, 2013.

Measurable Goal 5.4b: *Complete ordinance audit by end of year two of permit.*

Status: The City Creeks Division contracted with a local consultant May – August 2009 (Year 1) to conduct an ordinance audit and identify all ordinances, policies, and guidelines (City documents) applicable to storm water management, and highlight conflicts (or potential conflicts) and/or other issues (incentives/disincentives) that exist among these City documents in relation to: the NPDES General Permit requirements, City SWMP requirements, and/or the City's Storm Water BMP Guidance Manual. The audit assesses internal consistency of City regulations and goals with respect to storm water management, water quality, flooding, and creek/riparian resources. The audit was completed in September 2009.

Proposed Modifications: None.

Proposed Year 5 Activities: Goal completed.

Measurable Goal 5.4c: *4 meetings. Completion and adoption of final ordinance by end of year three of permit.*

Status: Meetings for drafting the ordinance have commenced in early 2013. A final ordinance will be adopted in 2013, as the City now has the necessary terms/criteria resulting from the Joint Effort and new General Permit.

Proposed Modifications: None.

Proposed Year 5 Activities: See above.

Measurable Goal 5.4d: *Apply new and/or modified enforceable mechanisms to all applicable new and redevelopment projects.*

Status: Enforceable mechanisms will be applied to new and redevelopment projects once the City has adopted their storm water ordinance in 2013.

Proposed Modifications: None.

Proposed Year 4 Activities: See above.

BMP 5.4.1 Derive Criteria for Controlling Hydromodification In New And Redevelopment Projects Using Water Board-Approved Methodology

Measurable Goal 5.4.1: *Participate in the Water Board's Joint Effort to develop hydromodification control*

criteria.

Status: City staff participated in the Water Board's Joint Effort for Hydromodification Control, and was ultimately granted an exemption from the Joint Effort/Central Coast Post-Construction Requirements through demonstrating that the City's pre-existing program is functionally equivalent.

Proposed Modifications: None.

Proposed Year 5 Activities: BMP completed.

BMP 5.4.2 Select Applicability Thresholds

Measurable Goal 5.4.2: *Identify appropriate thresholds for applying hydromodification criteria thresholds to new and redevelopment projects.*

Status: Appropriate thresholds have been identified by the City's pre-existing storm water requirements and approved by the Water Board in January, 2013.

Proposed Modifications: None.

Proposed Year 5 Activities: BMP completed.

BMP 5.5 Update and Implement Post-Construction Volumetric and Flow-Based Design Standards and BMPs

Measurable Goal 5.5a: *Complete study and establish new standards by end of year three of permit.*

Status: The City hired a local consultant to produce a Storm Water BMP Guidance Manual in 2008. This effort included an intensive outreach effort to City staff and local design professionals (engineers, architects, builders, etc.) to consider and adopt appropriate design standards and BMPs. Assessing all the staff and public input and studying other existing Guidance Manuals produced by other cities/counties, resulted in the production of the City's Storm Water BMP Guidance Manual, which is tailored to the City's local conditions. The volumetric and flow-based design standards are discussed in detail in Chapter 6 of the Manual, and the BMPs are tailored for different levels of development (referred to as project "tiers."), defined throughout the Manual. The Manual can be downloaded from several places on the City's website, one of which is: www.sbcreeks.com.

Proposed Modifications: None.

Proposed Year 5 Activities: BMP completed.

Measurable Goal 5.5b: *Incorporate BMPs in ministerial projects through design review/permitting. Report to Regional Board annually.*

Status: BMPs are currently being implemented into smaller, ministerial projects through the City's design review process. The City's Storm Water BMP Guidance Manual requires storm water BMP implementation to both ministerial and discretionary projects, through the "tiered" approach defined in the Manual. As stated in BMP 5.2; the following direction has been provided to Staff regarding SWMP compliance in order

to incorporate BMPs into ministerial projects:

1. Any project that requires a Master Application (MST) with a Building Permit (BLD) that has not been issued will be required to comply with SWMP requirements

- SWMP compliance is to be shown on the building permit plans
- SWMP compliance will be reviewed by Design Review Staff
- Design Review Staff will send a letter to the property owner/applicant informing them of SWMP requirements if compliance was missed.
- Design Review Staff will enter a DESIGN REVIEW ROUTING (or similar) activity in all the current BLD's and enter a correction to comply with SWMP shown on the plans; or the activity will indicate that SWMP compliance is already confirmed
- This activity should be added to all affected BLDs now, so that when the permit gets resubmitted, the correction is already there, (the activity needs to print on the BLD correction list)

2. Any MST case with no BLD case yet will be required to comply with SWMP requirements

- SWMP compliance is to be shown on the building permit plans
- SWMP compliance will be reviewed by Design Review Staff
- Design Review Staff will send a letter to the property owner/applicant informing them of SWMP requirements; the letter will request that the applicant submit ASAP to Design Review Staff a plan that shows SWMP compliance
- Once SWMP compliance is confirmed, Design Review Staff will update the MST case Project Statistics to indicate compliance
- When BLD plans are routed to the Zoning Plans Examiner for the Initial Review, the Zoning Plans Examiner will check the Project Statistics in the MST case to see if the project complies with SWMP.
- If it does not, The Zoning Plans Examiner will add the DESIGN REVIEW ROUTING (or similar) activity in the BLD and route to Design Review Staff.
- Design Review Staff will enter a correction in the DESIGN REVIEW ROUTING activity for the project to comply with SWMP

3. As of Jan 1 2010, ALL MST cases must show SWMP compliance tier level on plans and in MST cases prior to Final Approval

- The Zoning Plans Examiner will not have to check or route any BLD plans to design review staff that received a Final Approval after March 1, 2010

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 5.5c: *Utilize updated CEQA checklist and guidelines in project review.*

Status: As a part of environmental review for discretionary projects, a DART SWMP checklist is used to guide analysis of impacts associated with stormwater. Based on the type and size of development proposed, staff applies BMP's per the Storm Water BMP Guidance Manual (June 2008) and based on the findings of the DART SWMP checklist, staff applies mitigation measures and/or conditions of approval to development applications to address stormwater drainage concerns and SWMP requirements.

As a part of the CEQA Initial Study, City staff includes the following standard language (or similar) and an analysis that demonstrates compliance:

The City and State require that onsite capture, retention, and treatment of storm water be incorporated into the design of the project. Pursuant to the City's Storm Water Management Plan (SWMP) and the NPDES

General Permit for Storm Water Discharges, the City requires that any increase in stormwater runoff (based on a 25-year storm event) be retained on-site and that projects be designed to capture and treat the calculated amount of runoff from the project site for a 1 inch storm event, over a 24-hour period.

The process of formally updating the Initial Study Checklist and Master Environmental Assessment Guidelines is underway. In addition, staff is also developing a new CEQA Exemption checklist and preliminary and final plan check checklists to better screen all projects for storm water impacts and to ensure that appropriate BMPs are applied to all projects (i.e. including those that are exempt from CEQA).

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 5.5d: *Utilize updated standard mitigation measures and conditions of approval in project review/permitting.*

Status: Based on the findings of the DART SWMP checklist, staff applies mitigation measures and/or conditions of approval to development applications to address stormwater drainage concerns and the SWMP requirements.

The following standard mitigation measure is applied to development applications requiring preparation of an Initial Study under the provisions of CEQA. Other mitigation measures that are project specific are also applied.

Water Resources – Mitigation:

Drainage and Water Quality. *Project plans for grading, drainage, stormwater facilities, and project development shall be subject to review and approval by City Building Division and Public Works Department per City regulations, (and Regional Water Quality Control Board). Sufficient engineered design and adequate mitigation measures shall be employed to ensure that no significant construction-related or long-term effects from increased runoff, erosion and sedimentation, urban water quality pollutants, or groundwater pollutants would result from the project.*

During November/December 2010, staff updated the standard conditions of approval applied to development applications as appropriate. The City case planner chooses the most appropriate and applies it to the project (The blue text is where staff uses discretion/changes/etc. as appropriate to the project):

Standard Conditions of Approval:

a. **Recorded Conditions Agreement.** Prior to the issuance of any Public Works permit or Building permit for the project on the Real Property, except a demolition or other appropriate (as determined by City staff) building permit for work in anticipation of primary project improvements, the Owner shall execute an *Agreement Relating to Subdivision Map Conditions Imposed on Real Property*, which shall be reviewed as to form and content by the City Attorney, Community Development Director and Public Works Director, recorded in the Office of the County Recorder concurrent with the Parcel / Final Map, and shall include the following:

   i. **Storm Water Pollution Control and Drainage Systems Maintenance.** Owner shall maintain the drainage system and storm water pollution control devices in a functioning state. Should any of the project's surface or subsurface drainage structures or storm water pollution control methods fail to capture, infiltrate, and/or treat water, or result in increased erosion, the Owner shall be responsible for any

necessary repairs to the system and restoration of the eroded area. Should repairs or restoration become necessary, prior to the commencement of such repair or restoration work, the Owner shall submit a repair and restoration plan to the Community Development Director to determine if an amendment or a new (Building Permit) (and Coastal Development Permit) is required to authorize such work. The Owner is responsible for the adequacy of any project-related drainage facilities and for the continued maintenance thereof in a manner that will preclude any hazard to life, health, or damage to the Real Property or any adjoining property.

B. **Public Works Submittal Prior to Parcel / Final Map Approval.** The Owner shall submit the following, or evidence of completion of the following, to the Public Works Department for review and approval prior to processing the approval of the Parcel / Final Map and prior to the issuance of any permits for the project except a demolition or other appropriate (as determined by City staff) permit for work in anticipation of primary project improvements:

- **Drainage and Water Quality.** The project is required to comply with Tier 3 of the Storm Water Management Plan (treatment, rate and volume). The Owner shall submit (drainage calculations) (a hydrology report) (worksheets from the Storm Water BMP Guidance Manual for Post Construction Practices) prepared by a registered civil engineer or licensed architect demonstrating that the new development will comply with the City's Storm Water Management Plan. Project plans for grading, drainage, stormwater facilities and treatment methods, and project development, shall be subject to review and approval by the City Building Division and Public Works Department. Sufficient engineered design and adequate measures shall be employed to ensure that no significant construction-related or long-term effects from increased runoff, erosion and sedimentation, urban water pollutants (including, but not limited to trash, hydrocarbons, fertilizers, bacteria, etc.), or groundwater pollutants would result from the project.

  The Owner shall provide an Operations and Maintenance Procedure Plan (describing replacement schedules for pollution absorbing pillows, etc.) for the operation and use of the storm drain surface pollutant interceptors. The Plan shall be reviewed and approved consistent with the Storm Water Management Plan BMP Guidance Manual.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMPs 5.5.1a – 5.5.1f Develop And Enact A Strategy For Implementing LID And Hydromodification Control For New And Redevelopment Projects.

Status: The City's pre-existing program for post-construction requirements was approved by the Water Board in January 2013 to be the ongoing strategy for implementing LID and hydromodification control for new and redevelopment projects. The criteria and applicability thresholds are defined in the City's Storm Water BMP Guidance Manual (June 2008).

BMP 5.6 Storm Water Quality Monitoring Program

Measurable Goal 5.6: *Produce storm water quality monitoring reports annually and use results to revise*

existing BMPs.

Status: The Creeks Division Monitoring Program conducted sampling in compliance with BMP's 5.6, 5.7, and 5.8 in 2012. The Storm Water Quality Monitoring Program targeted bacteria during dry weather monitoring at several creek sites. Creeks staff also conducted weekly and biweekly sampling for indicator bacteria and field properties to assess beach water quality and investigate performance of water quality BMPs. Storm monitoring for chemical pollutants and toxicity was also conducted in 2012, in order to investigate the performance of the City's Upper Las Positas Creek Project at the municipal Golf Course and test for pollutants in urban runoff.

The City plans, executes, and reports on water quality monitoring results on a fiscal year schedule (July 1 – June 30). Results from the first and second quarter of 2012 were included in the Fiscal Year 2012 Annual Water Quality Report, available online from the City's website at:
http://www.santabarbaraca.gov/Resident/Community/Creeks/Reports_and_Studies.htm

Results from the third and further quarters of 2012 water quality monitoring will be included in the Fiscal Year 2013 Annual Water Quality Report, to be completed in the third quarter of 2013.

Based on results from the Fiscal Year (FY) 2012 monitoring, several changes were made to the FY 2013 Research and Monitoring Plan, including:

1. Testing receiving waters for potential groundwater contaminants.
2. Further investigating potential RV dumping.
3. Conducting monitoring to assist with design decisions for the Mission Lagoon Restoration project.
4. Testing for neonicotinoids, a group of pesticides that may be linked to colony collapse disorder in honeybees.
5. Testing storm runoff from parking lots covered with coal-based parking lot sealcoat.
6. Conducting additional sampling at the Las Positas Golf Course to support management decisions during dry weather.
7. Collecting baseline data for the Storm Water Retrofit Projects.
8. Investigating high conductivity in a targeted tributary of Sycamore Creek and also in Honda Creek.

A summary of results from the FY 2012 Annual Water Quality Report is presented here:

First Flush Storm Sampling

Each fall the Creeks Division samples the first storm of the season, as this "first flush" is known to produce the highest concentrations of contaminants in stormwater runoff. In most previous years, creek "integrator sites" (lowest sites on creeks, integrating water quality issues across the entire watershed) have been sampled during every first flush event. Following the changes to the FY11 Research Plan, storm drain and gutters were included in first flush sampling, which took place on October 5, 2011. Runoff was collected from street gutters and storm drains at Montecito/Olive Sts., Laguna/Cota Sts., Gutierrez/Quarantina Sts., and Salsipueds/Cota. Sts., along with the integrator sites Laguna Channel at Chase Palm Park, Mission Creek at Montecito Street, Arroyo Burro at Cliff Drive, and Sycamore Creek at the railroad bridge.

These sites were sampled between 5:15 AM and 9:15 AM, when 0.02" to 0.68" of rain had fallen. Water was tested for metals, pesticides, hydrocarbons, surfactants, and toxicity. Metals and hydrocarbons were not detected at elevated concentrations; however some other results were concerning.

In previous years, very few detections of pesticides have been found in creek samples, during both dry and wet weather. Based on a recommendation by the State-funded UP3 Priority Pesticide list, several pesticides were added to the testing suite in FY11. The wood preservative pentachlorophenol was found in almost every sample the first flush of fall 2010, albeit at low levels. This result was corroborated in first flush 2011 samples, when pentachlorophenol was found in five of nine samples. In addition, 2,4-D, an ingredient in some weed killers, was detected for the first time, and in several samples. The detection limit for this compound was ten times lower than in previous years, which is the likely reason behind the sudden detections. Pyrethroids were also detected, with bifenthrin found at elevated levels in four of nine samples. Unlike in 2010, organochlorine pesticides, including DCPA (dacthal), were not detected in drain samples. It is thought that faulty laboratory procedures led to false positives of dacthal in previous samples.

Continuing a change made in FY11, storm water toxicity in creeks was tested using invertebrates and algae, which are thought to be more sensitive to some constituents than the vertebrate fathead minnow, which had been used in most previous tests. No toxicity was observed in creek sites. Storm drain and catch basin sites were tested with fathead minnows. Results showed high toxicity in some drain samples. These results show that while Santa Barbara creeks are generally not toxic to aquatic organisms during storm events, due to large amounts of dilution with clean runoff, runoff that is sampled closer to the site of urban activities exhibits toxicity to sensitive species.

Coal-based Parking Lot Sealcoat

Research around the country has raised concerns about the high toxicity of runoff from parking lots sealed with coal-based sealcoat as compared to runoff from asphalt-based sealcoat. According to industry leaders, coal tar is not used in California, but the Creeks Division sought to test this assumption by testing parking lots located in Santa Barbara. A field test was conducted on 50 parking lots throughout the City. Results suggest that approximately 30% of parking lots in the City may contain coal-based sealants. Recently a State Bill banning coal-based parking lot sealcoat was proposed but did not reach a vote in the State Assembly. Work in FY 13 will include a comparison of the toxicity of runoff from the two different types of parking lot sealcoats.

Mission Creek Toxicity

Mission Creek is listed under the Clean Water Act as impaired for "Unknown Toxicity." The Creeks Division has worked to understand the original basis for the listing, and any potential current toxicity problems in Mission Creek. After conducting many toxicity tests with fathead minnows and invertebrates, the City found no signs of toxicity in Mission Creek. However, the Regional Water Board conducted tests at Mission Creek at Montecito Street which showed toxicity to the algae *Selenastrum*, suggesting the presence of herbicides in creek water. In Fiscal Year 2012, the Creeks Division collected samples from several locations along Mission Creek and found no toxicity to Selenastrum. High conductivity in Santa Barbara creeks may lead to false positives with test results, and Creeks Division staff will continue to investigate this possibility.

Sycamore Creek Sodium and Chloride

Sycamore Creek was listed recently under the Clean Water Act, based on potential agricultural use of creek water, as impaired for Sodium and Chloride. The Creeks Division conducted creek walks with associated conductivity tests and tested creek samples for sodium and chloride. Based on results obtained thus far, it appears that Sycamore Creek is high in sodium and chloride due to the natural process of groundwater movement through marine deposits into the creek. One tributary with the highest conductivity, sodium, and chloride ever observed in Creeks Division monitoring will be investigated more thoroughly in FY 13. If

results show that the source of sodium and chloride in Sycamore Creek is natural, the Regional Board may de-list the Sycamore Creek from the 303(d) impaired list.

A presentation was given to the Creeks Advisory Committee in June 2012, providing status updates and communicating the FY13 Research and Monitoring Plan.

Results from water quality monitoring will be used to inform the maintenance strategy for the Westside SURF project (UV disinfection) and the Upper Las Positas Creek Project.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 5.7 Microbial Source Tracking Protocol Development Project

Measurable Goal 5.7: *Incorporate results into annual water quality monitoring report and use results to revise existing BMPs.*

Status: The Source Tracking Protocol Development Project was funded by the State Water Board's Clean Beaches Initiative Proposition 50 Grant Program. The project was been conducted in partnership with Dr. Patricia Holden at the University of California Santa Barbara (UCSB). The Creeks Division had previously worked with Dr. Holden to identify potential sources and routes of water contamination in Santa Barbara creeks for several years. The research suggested some markers for human waste in creeks, lagoons, and the surf zone. Unfortunately, the physical sources of human contamination remained elusive. The goal of the Source Tracking Protocol Development Project was to test methods for discovering where, when, and how human waste is transported to creeks and beaches. The value of the research is that it supports City and state-wide efforts to detect and eliminate sources of human fecal pollution in creeks and the coastal ocean, thereby decreasing risks to human health from swimming. The Project also provides protocols for coastal water quality managers throughout California to use for conducting source investigations regarding beach warnings due to exceedances of indicator bacteria standards. The scope of work for the project focused on testing various source tracking tools. The project tested methods of detection that combine microbial source tracking tools such as DNA testing, geographic information system (GIS) techniques, and more traditional illicit discharge detection and elimination (IDDE) methods (including smoke, camera, and dye). A combination of GIS modeling, dye studies and closed circuit televising (CCTV) of storm drains proved to be an effective combination for investigating contamination.

Substantial work was conducted on the Source Tracking Protocol Development project during 2012, involving extensive GIS modeling, storm drain televising and dye testing, data analysis, and report production. The project is complete and the work has been described in full in a Final report to the State Water Board. In addition, a user-friendly guide was produced and distributed through meetings and listservs. Both reports are available on the City's website at the following address:
http://www.santabarbaraca.gov/Resident/Community/Creeks/Reports_and_Studies.htm

Results from this project have led to repair and replacement of sewer line segments that were leaking into storm drains. The City's Wastewater Division is basing their priority list for prophylactic repair and rehabilitation in the Laguna Channel Watershed on the results from this Project. In addition, protocols developed in this project have been incorporated in the Water Board's Source Identification Protocol Project, funded by the Clean Beaches Initiative.

Proposed Modifications: This BMP should be omitted because this grant-funded project is complete.

BMP 5.8 Biological Assessment Program

Measurable Goal 5.8: *Incorporate results into annual water quality monitoring report and use results to revise existing BMPs.*

Status: Bioassessment is the study of the biological community of a body of water to help assess the health of the water. The Creeks Division Research and Monitoring Program uses bioassessment to compare the condition of different creek locations, track water quality changes over time, and follow progress of creek restoration projects. Bioassessment is also used to help understand impacts of development, climate variation, and wildfire on water quality and habitat conditions in Santa Barbara creeks.

Bioassessment can be considered the third tier of analysis for understanding water quality concerns. The first tier, field sampling, measures concentrations of specific chemicals that are known to harm aquatic organisms. The second tier, toxicity testing, measures the response of a laboratory test organism (often juvenile fish) to creek water samples, thereby summing the impacts of any toxic chemicals that may be present at the time of sampling. The third tier, bioassessment, quantifies the community of benthic invertebrate (BMI) organisms present in the creek to determine if water quality is impaired. Bioassessment effectively integrates the effect of potential contaminants over a period of time. Pristine sites are known to have high numbers of sensitive organisms, such as mayflies, whereas impaired sites have a higher number of organisms, such as midges, that are known to be more tolerant of pollutants.

Since 2002, the Creeks Division has utilized the services of Ecology Consultants, Inc. to conduct the field sampling, laboratory analysis, and statistical calculations required to complete bioassessment monitoring. The results are used by the consultant to generate an Index of Biological Integrity (IBI) to simplify comparisons among locations and time points. Several creek sites have been monitored every year since 2001 (the County of Santa Barbara funded the 2001 study), whereas other sites have been tested for a subset of years in response to specific research questions. For the past two years, results from the City and County studies have been combined in one report for the South Coast.

In the first and second quarter of 2012, Ecology Consultants conducted sampling for the 2012 Bioassessment report, which will be completed in the first quarter of 2013. Results from the 2011 report were included incorporated into the City's FY12 Water Quality Research and Monitoring Report. Reports can be accessed on the City's website at:
http://www.santabarbaraca.gov/Resident/Community/Creeks/Reports_and_Studies.htm

In April 2012, Ecology Consultants made a presentation to the Creeks Advisory Committee.

During the third quarter 2012, Ecology Consultants conducted the field sampling for estuarine sites and laboratory analysis of collected organisms. Laboratory and statistical analyses were carried out during the fourth quarter of 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 5.9 General Plan Update

Measurable Goal 5.9: *Track General Plan update process and EIR. Report on outcome.*

Status: The City's General Plan was adopted in December 2011 and through 2012 City staff has begun a number of implementation programs. Policy work related to storm water and creek environments has not yet been initiated. Progress reports on General Plan implementation are provided to the Planning Commission and City Council twice a year and the next report will be in April 2013. The Environmental Resources Element of the recently adopted General Plan is located here: http://www.santabarbaraca.gov/NR/rdonlyres/FBF9C59D-E5A1-4740-A202-DF4069AFC942/0/07EnvironmentalResourcesElement.pdf

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

6. Pollution Prevention/Good Housekeeping for Municipal Operations

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Develop and implement Pollution Prevention Plans for operations divisions	6.1	Develop and implement pollution prevention plans.	X			X		
Training	6.2a	Update training presentation materials based on input from operational division.	X			X		
	6.2b	Train all operations division staff.	X			X		
Vehicle and Equipment Cleaning	6.3a	Provide facilities for vehicle wash that are equipped to contain pollutants generated from vehicle washing.	X			X		
	6.3b	Require fleet vehicle wash service to contain car wash water, with permit for disposal of wash wastewater.	X			X		
Exterior Building Washing	6.4	Identify and implement appropriate BMPs.	X			X		
Evaluate contractor for compliance with BMPs for City contracts	6.5	Develop checklist to be completed for every contract service where there is potential for polluted runoff. Amend existing contracts to include implementation of pollution prevention BMPs and compliance with General Permit.	X			X		
Trench Excavation	6.6a	Maintain a list of trench excavations in unpaved areas.	X			X		
	6.6b	Inspect unpaved trenches after first rainy season following backfill.	X			X		
De-Watering Operations	6.7a	Maintain on-hand stock of filter bags, fiber rolls and sand bags for unplanned incidents requiring sediment control.	X			X		
	6.7b	Maintain open purchase order with appropriate suppliers to expedite access to additional sedimentation control devices as needed.	X			X		
	6.7c	Inspect service vehicles and warehouses annually to confirm appropriate inventory of materials on hand.	X			X		
Paving and Grinding Operations	6.8	Install and maintain vacuum cleaning equipment on vehicles involved in cutting and grinding operations.	X			X		
Construction Waste Management	6.9	Implement policy of no material piles left on street at end of workday.	X			X		

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Spill Prevention and Cleanup	6.10	Have spill containment materials on service trucks and vehicles that support backhoes, loaders and graders.	X			X		
Storm Drain Inlet Cleaning	6.11	Inspect all City inlets annually.	X			X		
Inline Storm Filter Maintenance	6.12	Implement 1 annual cleaning of inline filters before the rainy season.			X			
Annex Yard BMP Maintenance	6.13	Implement an inspection program of Annex Yard BMPs.	X		X	X		
Street Sweeping	6.14a	Implement sweeping of City streets.	X			X		
	6.14b	Addition of San Roque neighborhood.	X			X		
	6.14c	Addition of Hidden Valley neighborhood.	X			X		
	6.14d	Addition of Mesa neighborhood.	X			X		
Parking Lot Sweeping/Trash Removal	6.15	Implement daily cleanup of parking lots.	X			X		
Parking Garage Washing	6.16	Implement steam/power washing of parking garage floors, with full recovery of wastewater.	X			X		
Integrated Pest Management	6.17	Implement IPM program.	X			X		
Cleaning Trash Enclosures	6.18	Use only wash unit with full vacuum recovery for cleaning trash enclosures.	X			X		
Illicit Discharge Inspection and Elimination	6.19	Implement an annual inspection of maintenance yards and shops, along with review of facility inspection reports, to identify and eliminate potential sources for polluted runoff.	X			X		
Place portable toilets adjacent to creeks	6.20	Maintain contracts for the placement and service of portable toilets in areas adjacent to creeks that are known (or become known) for human use.	X			X		

BMP 6.1 Develop and Implement Pollution Prevention Plans

Measurable Goal 6.1: *Plans fully implemented by year one; Plans evaluated annually.*

Status: Creeks Division staff worked closely throughout 2010 and 2011 with several city departments, including Streets, Water, Environmental Services, and Fire to create a unified and efficient chain of command Emergency Response Policy to clearly define city response to spills and/or illicit discharge of both

hazardous and non hazardous materials along with sewage spills and other bio hazards. This Emergency Response Policy (focused on pollution prevention and spill response) was finalized in 2011 and has slowly gained the continued support and cooperation from all city agencies.

Streets Division

The Streets Division adheres to a Pollution Prevention Plan at the City Annex Yard (managed by the Streets Division) for vehicle washing, material dumping, and storage. Furthermore, the Streets Division concrete and asphalt crews follow pollution prevention procedures to reduce and eliminate debris or polluted water discharges into the storm drain system during maintenance projects. Debris is mechanically swept and cleared away from the maintenance sites during construction and after the project is completed. Streets staff use a Yanonali Annex Yard Checklist to report on details about the general yard area, the vehicle wash bays, the material delivery area; the waste spoils storage areas, the oil emulsion tank area, and the storm drain catch basin in the Annex Yard. The Streets Division also follows landscaping maintenance and clean up procedures/BMPs, including placing sand bags at storm drains or in gutters to stop debris and/or polluted water from entering the storm drain. Asphalt particles and debris created during the work are swept up and disposed of at the City Annex Yard.

A large 6000 gallon emulsion tank was eliminated from the Annex Yard in 2012; it remains unused and emptied. The solid contents were removed during the 2nd quarter or 2012. A new 1000 gallon tank was added in November of 2011. The tank is currently holding roughly 600 gallons of emulsion and is attached to a trailer at the annex.

The Streets division holds quarterly meetings with all the other users of the City Corporation Annex Yard. A representative from the Parks Department, Water Department, Waste Water Department, Building Maintenance and Creeks Division gather once every quarter to discuss any issues in regards to usage of the annex. Staff also discuss what percentages each division is responsible for funding the upkeep and maintenance of the yard. This includes services from Black Gold, Marborg, and Clean Harbors.

In 2011, Streets management cut their full time operator at the Annex Yard due to budget cuts, so yard operations were overseen by Street's weekday and weekend staff on a rotating basis. However, in 2012, Streets Division was able to fill the full time yard monitor position once again; 40 hours, five days a week. The monitor has been very helpful by checking every vehicle that enters the annex yard, legally or illegally. The monitor keeps debris from entering the storm drains, and keeps a constant vigil at the annex.

Water Distribution

Water Distribution System staff apply City specified best management practices in the course of all construction, maintenance, repair and operations of the water distribution system, as detailed in the City's *Procedures for the Control of Runoff into Storm Drains and Watercourses*. The most commonly used pollution prevention controls for Water Distribution staff are BMPs applied to vehicle and equipment fueling and cleaning, water line breaks, trench excavations, dewatering operations, paving and grinding, concrete waste management, spill prevention and control, and equipment parking and storage. The City's *Operations Division Storm Water Pollution Prevention Plan (Facilities Worksheet)* clearly defines these BMPs. Other BMPs from the *Procedures* are used as necessary.

Wastewater Collection

For Wastewater Collection staff, evaluation for pollution prevention is a daily, ongoing process. Pollution Prevention Plans are continually reviewed with both Wastewater Collection staff and the Water Board. Along with other City departments and divisions, the Wastewater Collection staff also follows the *City's*

Procedures for the Control of Runoff Into Storm Drains and Water Courses. In addition, the Wastewater Department also produced a stand-alone Pollution Prevention Plan in 2009 that specifically defines the measures necessary to prevent sanitary sewer overflows and infiltration and inflow, as well as BMPs for when a sewage overflow occurs, how to eliminate the discharge of fats, oils and grease (FOG) into the sewer system, and good housekeeping practices, as well as staff training.

Parking Division

The Parking Division follows pollution prevention BMPs on a daily basis, and produced a written Pollution Prevention Plan in 2009. The plan defines cleaning procedures for parking lots, parking garages, sidewalks, driveways, and Paseo's (both with soap and without), as well as good housekeeping practices, staff training, and spill procedures. To ensure compliance to pollution prevention, parking facilities are inspected daily, and dry clean-up techniques are used for oil spills. All parking garages have a daily report form that is filled out, noting any fluid spills and needed clean up. Furthermore, the Parking Division currently adheres to detailed specifications for power washing any parking lots and/or facilities, in order to avoid wash water runoff into the storm drain system.

Facilities Division

The Facilities Division mainly conducts work indoors and/or within covered/enclosed shop locations, and therefore simply complies with the following protocol:

- Run off from roof washing will be captured or diverted to permeable planters or sanitary sewer drains
- Wastewater from janitorial services will be disposed of to sanitary sewer drains
- Solid construction waste will be contained and disposed of using solid waste management containers

Parks Department

The Parks Department continues to use the *Procedures for the Control of Run-Off into Storm Drains and Watercourses* and provides training on a yearly basis. Parks also manages the City's Integrated Pest Management (IPM) Program and reports the successes and challenges to the City Council, annually.

Golf Division

The Golf Course staff adheres to their Pollution Prevention Plan on a daily basis. Golf's Pollution Prevention Plan addresses BMPs for managing reclaimed water, the equipment fueling station and storage area, the equipment wash station, and the clubhouse area, as well as using and storing fertilizers and pesticides, and implementing the City's Integrated Pest Management (IPM) Program. The Golf Course Division also uses a vehicle/equipment inspection form that is completed monthly for each piece of equipment.

The Golf Course installed trash screens in 2011 to the catch basins located at the Golf parking lot. Over time, the buildup of decaying organic matter in a sewer line can contribute to increased levels of noxious gas. These screens help prevent leaves, debris and trash from entering the storm drain line reducing the potential for higher than normal noxious gas levels in a confined space.

Fire Department

The City Fire Department has five Standard Operating Procedures (SOP's) established that focus on Pollution Prevention. SOP E-IX-3 addresses correct decontamination procedures required during a Hazardous Material Incident. SOP E-IX-7 addresses sewer emergencies. SOP E-IX-4 addresses fuel spills. SOP A-I-5 addresses fueling procedures. SOP E-IX-8 addresses waste disposal.

The Fire Department also incorporates practices to reduce runoff of vehicle and equipment cleaning. Staff

cleans apparatus and equipment with wet chamois and/or rags. The chamois are rinsed in buckets of water which is discharged into laundry sinks. Chamois are used to clean the apparatus of dirt and dust. Rags are used to wipe oil and grease from the apparatus. The rags are placed in a can for pick up. When the apparatus require washing it is our practice to use the city furnished vehicle wash facilities located at City Yards and/or Fire Station 8 at the Airport. Fire Station cleaning is done with water and biodegradable cleansers using sponges and mops. The mops and sponges are rinsed in the laundry sinks and any soiled water is poured down the sanitary sewer drains.

When the Fire Department has to extinguish a flammable liquid fire or keep a flammable liquid spill or leak from igniting, we use Aqueous Film Forming Foam (AFFF). This foam forms a blanket that prevents or extinguishes fire on a hydrocarbon liquid. Our engine companies use a 3%-6% AFFF and our airport response trucks use a 3% AFFF. For the time being our Battalion Chiefs are responsible for the oversight and proper environmental handling of AFFF.

Fleet Management Division

The City's Fleet Management (formerly "Motor Pool") staff operates with BMPs in place on a daily basis to prevent contamination to storm water resulting from vehicle and equipment maintenance. In general, Fleet Management performs maintenance and repairs inside the repair shop (fully covered/roof). All equipment is cleaned in the wash rack to remove any oil and grease (wash rack is connected to the sanitary sewer). Drip pans or absorbent is always used during repairs and maintenance work that involves fluids, and shop equipment is inspected for leaks or conditions which may lead to storm water contamination. Furthermore, all bulk fluid containers are stored on spill containment pallets or in above-ground storage containers w/secondary containment. In the event of repairs or maintenance that constitutes working outside, staff first verifies there are spill kits and absorbent contents available. Cars and equipment are washed first in the designated wash rack to remove excess build up of oil and grease, and once outside of the shop, drip pans are used. Spills are promptly cleaned using spill kits, absorbents and sweeping.

In 2012 4th quarter, waste oil tanks at Motorpool were inspected and emptied (as needed). Used oil filters were removed and steel drum containers were replaced as needed, and waste anti-freeze containers were inspected and removed, as needed. Fleet Management's "parts washing machine" was cleaned, inspected, and waste removed once this quarter, batteries were properly disposed of on a monthly basis, and garbage, solid waste, and recyclable materials were collected and disposed of weekly. Fleet Management continues to use "Nu-Cool Redigreen," for recycling the coolant used in the maintenance of city vehicles and equipment.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.2 Training

Measurable Goal 6.2a: *Update training materials annually.*

Status: Creeks Division staff updated the training materials for all "operational division" staff trainings in 2012. In Year 4 (2012), Creeks Division staff purchased a new CD-rom employee training package from Excal Visual, LLP called "Rain Check" (2012). The package is very useful, with several different training videos to choose from, each of which focus in on various city employee tasks and how to conduct them properly in order to protect surface water quality and the City's storm drain system. The package also includes a trainer's guide, pocket references, employee quizzes, and even templates to help create

presentations specific to individual facility requirements. The trainings are approximately one hour in length and include an introduction to the City's SWMP and the importance of protecting water quality. Staff are required to attend and sign-in sheets are collected.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 6.2b: *100% staff trained.*

Status: 100% of operational division staff were trained in Year 4.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.3 Vehicle and Equipment Cleaning

Measurable Goal 6.3a: *2 facilities maintained and equipped.*

Status: This goal has been exceeded. Four City vehicle/equipment wash bays have been maintained and equipped through Year 4 (one at the Motorpool yard, two at the Streets Annex Yard, and one at the Golf Course).

Most City departments/divisions wash their vehicles at local, commercial car wash facilities where wash water is contained and sent to the sanitary sewer. The contracts are maintained through the Fleet Management Division. Fleet Management also maintains one wash rack at their garage facility, which discharges wash water into a clarifier, then to the sanitary sewer. Washing at the Fleet Management wash rack is performed with the following considerations:

- Verify wash rack is clean prior to using to prevent driving through a spill
- Clean wash rack when cleaning process is completed
- Inspect wash rack for cleanliness on a weekly basis
- Prompt cleaning of any spills

Larger City equipment and the Streets Division vehicles are washed at the City's Annex Yard, where there are two wash bays that capture and filter wash water (via a clarifier) and then send it to the sanitary sewer. The wash bays are monitored and maintained by the City Streets Division. Streets Division staff continues to keep the Annex Yard wash bays cleaned, weekly. The Streets Division is also responsible for all the materials left/dropped off at the Hazardous Materials locker; staff calls Clean Harbors to remove the contents. The new Annex Yard full-time monitor (2012) has sent much of the material such as oil and antifreeze directly to the Marborg Facility on Cacique street, saving hundreds of dollars that would normally have been charged by Clean Harbors to transport.

The Golf Division staff use a "Landa Water Stax" system to wash maintenance equipment. The system uses bioremediation to remove oil, grease, hydrocarbons and grass clippings from wash water prior to draining it to the sewer. This system meets all current and proposed E.P.A. regulations. Two staff members are

assigned to maintain the system and haul away the solids to the recycle bin, daily. A contracted monthly service for the Landa system maintains all service logs and performs technical work and services with new microorganisms to facilitate the breakdown of oils, solids, etc.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 6.3b: *Track purchase orders annually beginning in permit year two, 100% implementation.*

Status: Fleet Management tracked purchase orders for City fleet vehicle wash services throughout Year 4 and ensured that wash water is contained and properly disposed of, 100% of the time. Motor Pool used the following vendors in Year 4, who contain their wash water and are required to have permits to dispose the waste water:

- Educated Car Wash
- Prestige Hand Car Wash and Detail
- Sunshine Mobile Wash and Detail

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.4 Exterior Building Washing

Measurable Goal 6.4: *Use of City approved BMP will be required on 100% of building wash services.*

Status: Wash water capture and proper disposal for City building wash services was required and implemented throughout Year 4. Building washing is a rare occurrence, and when it does happen, contractors are required to capture and contain the wash water for proper disposal to the sanitary sewer. The Facilities Department has incorporated this BMP into their contract language.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.5 Evaluate Contractor Compliance with BMPs for City Contracts

Measurable Goal 6.5: *Track and file amended contracts and completed checklists and take enforcement action when contractors do not comply. Achieve 100% compliance and report on compliance in annual report.*

Status: The City achieved 100% compliance with this BMP. The Facilities Division tracked and filed contractor compliance with wash water and other storm water BMPs. The City currently employs only one

contractor who performs work (washing) that creates runoff; "Waterworks." Waterworks contains and properly disposes of their wash water, and the wording to reflect this requirement is included in their contract with the City.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.6 Trench Excavation

Measurable Goal 6.6a: *Maintain a list of trench excavations in unpaved areas. Update list annually.*

Status: The Wastewater Collection section continually maintains an active list of Wastewater infrastructure improvement projects with locations within City limits. City Engineering staff also maintains a list and tracks associated monitoring for Capital Improvement Projects involving trenching in unpaved areas. Trench excavation work within the City is covered or plated at all times during construction before leaving the site for more than eight hours.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 6.6b: *Written report on status and any corrections required and completed.*

Status: Reports and status of trench excavations were tracked in 2012. Staff inspects any uncompleted repairs in unpaved areas before and after storm events to check for erosion. This may include the installation of sandbag dikes as necessary to prevent erosion. Straw mulch may also used to prevent disturbed soil erosion. There are currently no outstanding trench excavations in unpaved areas requiring monitoring.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.7 De-Watering Operations

Measurable Goal 6.7a: *Report annual inventory of supplies on hand and material orders.*

Status: For Water Distribution staff, a minimum of one fiber roll (called "gullygards") is kept in each service truck, and the emergency response vehicle has 8-10 sand bags at all times. Staff ordered 7 new gullyguards and 20 Spill Kits in 2012. Spill Kits were installed in every work truck. Water Distribution now uses a new purchase order with S&L Safety Products.

Wastewater Collection staff utilizes sand bags for containment and control of sediment runoff and verifies proper cleanup related to in-house sewer system repair work, as required. Wastewater staff makes their own sandbags and normally keep a minimum of 25 sandbags in stock.

The City's Central Storage Warehouse maintains a minimum of 10,000 sand bags. Presently, spill kits are purchased by City departments/divisions on an individual, need-basis. Absorbent materials, such as sand, are stocked and maintained by the City's Annex Yard; which is managed and staffed by the City Streets Division.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 6.7b: *Track approved purchase orders annually; maintain supplies to control all non-storm water discharges.*

Status: The Wastewater Collection section has established purchase orders, including local vendor information, in order to obtain immediate supplies and material for sediment control. Wastewater Collection maintains a blanket purchase order with Bedrock Building Supplies, Inc. Wastewater also has accounts with Santa Barbara Home Improvement, Agri-Turf Supplies, Inc., and Aqua- Flo Supply for needed supplies.

The Water Distribution Division maintains a purchase order with S&L Safety for "gully guards," which are curb guards used to contain water during main breaks.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 6.7c: *Number of service vehicles inspected annually (for dewatering operations); list warehouses inspected annually (for water distribution and/or sewer collection facilities), achieve 100% preparedness.*

Status: The City's numerous service vehicles and warehouses for water distribution, dewatering operations, and/or sewer collection work are managed and maintained by the Water Distribution and Wastewater Departments. Combined, city staff inspected/maintained 20 service vehicles and 24 facilities in 2012 for water distribution and/or sewer collection.

Water Distribution's five service vehicles are inspected weekly, at the end of each week. Their vehicles are 614/1191, 616/1612, 617/2138, 618/2139, and the emergency response vehicle; 638/2115. Water Distribution's facilities (i.e. pump stations, reservoirs, and wells) are inspected daily, bi-monthly, and/or monthly (see below).

Reservoirs and Pumps are checked bi-monthly:

1. Tunnel Reservoir/Pump Station
2. Calle Las Carleras Pump Station
3. Rockynook Pump Station
4. La Mesa Reservoir
5. Skofield Reservoir
6. Sheffield Pump Station
7. Hope Reservoir/Campanil Pump Station
8. Sheffield Reservoir/El Cielito Pump Station
9. Cater Cross Tie Pump Station

10. Vic Trace Reservoir/La Coranilla Pump Station
11. Escondido Reservoir/Pump Station
12. La Vista Reservoir
13. Reservoir Number One
14. Reservoir Number Two
15. El Cielito Reservoir/Skofield Pump Station
16. East Reservoir/Bothin Pump Station

City Wells are checked daily, with a more intensive monthly inspection:

1. Corporation Well
2. Los Robles Well
3. Vera Cruz Well
4. City Hall Well
5. Ortega Well
6. Alameda Well
7. Hope Well

The Wastewater Collection staff maintains a list of fifteen City vehicles, and inspects the vehicles regularly. The Wastewater Department vehicles are:

Number	MP-ID	WW-ID	Year	Make	Model	Description
1	2203	613	2003	HONDA	CIVIC HYBRID	CIVIC HYBRID
2	1799	619	1993	GMC	TOP KICK	2 1/2 TON FLAT
3	2222	623	2003	FORD	F150	1/2 TON PU XTRA CAB
4	2289	624	2005	FORD	RANGER	1/4 TON PICKUP
5	1820	628	1994	GMC	TOP KICK	2 1/2 TON DUMP
6	1938	633	1998	FORD	F150	1/2 TON PU
7	1959	634	1999	FORD	F450 SUPER DUTY	1 1/2 TON FLAT/LIFT
8	2048	650	2000	CHEVROLET	C 2500 CNG	3/4 TON PICKUP CNG
9	2049	635	2000	CHEVROLET	C 2500 CNG	3/4 TON PICKUP CNG
10	1821	636	2008	DODGE	CARGO VAN	CCTV VAN
11	1786	642	1993	JOHN DEERE	510 D 4X4	510 D 4X4
12	2523	665	2010	PETERBILT	VACTOR	JETTER TRUCK
13	1960	667	1998	FREIGHTLINER	FL80 VACTOR 850	JETTER TRUCK
14	2401	668	2010	PETERBILT	CAB-OVER	VACTOR TRUCK
15	2501	669	2010	PETERBILT	CAB-OVER	VACTOR TRUCK

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.8 Paving and Grinding Operations

Measurable Goal 6.8: *Complete annual inspections of all vehicles (used for paving/grinding operations).*

Document date equipment inspected and compliance.

Status: In Year 4 (and for years previously) the Wastewater Collection staff used a seven-gallon wet vac portable vacuum system to recover all wash water from saw cutting/grinding operations. The vacuum system is used infrequently, but is inspected before and after each use. Wastewater Collection saw cutting operations are limited to a small amount of conventional dig-and-replace repair work. Most wastewater infrastructure repair/replacement work is contracted to local underground utility construction companies, which are required to adhere to the City's SWMP and BMPs of capturing/containing water runoff.

Water Distribution's Hepa Vacuum (Pullman Holt) is inspected bi-weekly, usually on Fridays. Crews inspect the filter, switch, cord, hose, wheels, and clamps, and start the equipment to verify suction.

The Streets Division inspects all vehicles every Tuesday morning, and staff is currently using vehicle inspection forms. Streets staff use sandbags to prevent discharges into a storm drain during paving and grinding work. The Streets crew mechanically sweeps up debris during the paving or grinding operation and at the end of each job.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.9 Construction Waste Management

Measurable Goal 6.9: *Report if any material is left on street overnight. Achieve 100% compliance in non-emergency situations.*

Status: Both the Wastewater Collection section and Water Distribution staff achieved 100% compliance with the measurable goal by leaving no material piles on the street at the end of a workday. City staff conduct site inspections to verify that construction materials are stored offsite and/or in a manner which could not cause storm water pollution. Staff also monitors and maintains street locations to ensure they are clear of sediment and debris.

The Streets Division performs a variety of maintenance activities on City owned roads, including painting, striping, asphalt repair and pothole patching. Staff cleans up all materials and debris at work sites at the end of each day. Clean-up at the end of the day is part of the standard operations for the Streets Division crews. Paint and emulsion products are applied during the daytime hours and dry rapidly before staff leaves. The Streets Division has written procedures for all work the Division performs. These include the "*Sidewalk, Curb and Gutter Maintenance --- Concrete*"; the "*Pavement and Sidewalk Maintenance --- Asphalt*" and the "*Landscape Maintenance and Misc. Clean Ups*" procedure pages.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.10 Spill Prevention and Cleanup

Measurable Goal 6.10: *Document and maintain spill kits readily accessible to all crews, contain all spills.*

Status: The Wastewater Collection section uses sandbags to control and recover any spills from defective trucks and equipment. Water Distribution staff maintains spill kits on 12 hydraulic vehicles.

The Streets Division has spill containment materials on each vehicle. Staff is trained on the use of the spill containment materials. The safety coordinator includes the use of spill clean-up materials and the use of sandbags to prevent debris from entering the storm drain system during one or more of the weekly scheduled "safety meetings." Additionally, staff participates in local training opportunities through the MSA (Maintenance Superintendents Association) training events. Staff also receives annual storm water BMP training from the Creeks Division. Spill prevention materials are obtained from the City's "central storage" warehouse.

The City's Central Storage Warehouse is staffed by an employee who takes inventory and maintains stock levels. The warehouse maintains a minimum of 10,000 sand bags, which are commonly used by the Water Distribution, Wastewater, and Streets Departments. Presently, spill kits are purchased by City departments/divisions on an individual, need-basis. Absorbent materials, such as sand, are stocked and maintained by the City's Annex Yard; which is managed and staffed by the City Streets Division.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.11 Storm Drain Inlet Cleaning

Measurable Goal 6.11: *Annually inspect a minimum of 500 City inlets with the greatest potential for storm water pollution, and clean as necessary.*

Status: Streets Crews monitored more than 500 drain inlets during the 2012 storm season. The city is divided into sections in which staff is assigned to during the rainy season.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.12 Inlet Filter Cleaning

Measurable Goal 6.12: *Number of filters cleaned; yards of material removed.*

Status: In the City's Year 2 (2010) Annual Report, the proposed modification for this BMP was that it needed to be deleted in 2011due to the fact that storm drain filters in the City were being removed and replaced with inlet debris screens. It had become evident that the maintenance of the filters far outweighed the benefits they provided. Catch basin debris screens replaced filters in Years 2 and 3. Yards of material captured from the new debris screens will be portrayed in BMP 6.15 – street sweeping. Per the 2011 reporting, all filters have been removed and replaced with stainless steel retractable debris screens. These

screens require very little maintenance, but are cleaned or repaired when needed.

The City did not receive confirmation from the Water Board whether or not this proposed deletion has been accepted, so the justification for this deletion is reiterated from the Year 2 Annual Report, below.

The catch basin filters were originally installed in 98 catch basins as a pilot program between 2001 and 2009, and the performance of the filters and maintenance costs were assessed during this period. During this assessment, numerous observations during rainstorms revealed that the filters quickly became clogged with sediment and leaves, so that the majority of storm water bypassed the filter and flowed untreated into the storm drains. This occurred despite monthly cleaning of the filters using a vacuum truck. The cleaning costs and debris removed were assessed from 2006-2008. The cleaning costs averaged $846.00 per cubic yard of debris removed from the filters. Due to the incomplete capture of storm water runoff and the high cost of maintenance for the filters, the City decided not to expand the program and instead to replace the filters with catch basin debris screens. The catch basin debris screens are designed to prevent gross pollutants (trash and debris) from entering the storm drains via the catch basins during dry periods and moderate rain events, but are partially bypassed during heavy rains. At the same time, the catch basin screens are designed to work with street sweeping and don't require additional maintenance to remain functional. Because the filters are easily clogged, causing storm water to bypass during rain events, they don't offer a significant performance advantage over catch basin screens. Because of the low maintenance costs of the screens the City is able to install them city-wide and therefore prevent trash and debris from entering the storm drains in a much wider area. Screens were installed in every eligible catch basin in the City by Year 3.

Proposed Modifications: See above.

Proposed Year 5 Activities: None.

BMP 6.13 Inline Storm Filter Maintenance

Measurable Goal 6.13: *Number of cleanings; gallons of waste disposed.*

Status: This goal was not met in 2012. The City Creeks Division maintains the Haley Street Continuous Deflective Separation (CDS) filter unit and the Parks Yard interceptor. These two filters are scheduled for cleaning in 2013.

There are other inline storm filters in the City that are on maintenance schedules through the Streets and Fleet Management Divisions.

Proposed Modifications: None.

Proposed Year 5 Activities: Staff will work to identify/locate all City-maintained inline storm filters and will confirm they are all cleaned annually.

BMP 6.14 Annex Yard BMP Maintenance

Measurable Goal 6.14: *Daily inspection of BMPs. All BMP maintenance entered on daily inspection form.*

Status: The Streets Division maintained and inspected the Annex Yard throughout Year 4 on a daily basis, and inspections forms were utilized .

Proposed Modifications: This measurable goal should be "*Daily inspection of BMPs.*" And no longer read "*All BMP maintenance entered on a daily inspection form.*"

Proposed Year 5 Activities: Ongoing.

BMP 6.15 Street Sweeping

Measurable Goal 6.15a: *Curb miles swept; yards of material.*

Status: In 2012, 17,985 curb miles were swept and 1,995 tons of material was collected.

The Streets Division manages a contracted street sweeping program and has an in-house sweeper vehicle. 81% of all City streets are swept on a minimum of one day each month. The sweeping program added the final neighborhood in July of 2008. The leaves, sediment and trash debris are weighed periodically throughout the year and tracked. The amount of debris cleaned off the city streets each month has stayed relatively constant, with slight variances, since the beginning of the street sweeping program. The in-house street sweeper is used for special sweeping requests in areas not on the contract sweeping route. The Streets Division tracks the street sweeping program through their Performance Measures quarterly reports.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 6.15b: *Approve contract by City Council by end of permit year one (San Roque).*

Status: The San Roque neighborhood was already included in the street sweeping program prior to 2009.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 6.15c: *Approve contract by City Council by end of permit year one (Hidden Valley).*

Status: The Hidden Valley neighborhood was already included in the street sweeping program prior to 2009.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

Measurable Goal 6.15d: *Approve contract by City Council by end of permit year one (Mesa).*

Status: The Mesa neighborhood was already included in the street sweeping program prior to 2009

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.16 Parking Lot Sweeping/Trash Removal

Measurable Goal 6.16: *Track hours spent sweeping/removing trash annually.*

Status: Downtown Parking staff spent 9,758 hours removing trash and debris from City Parking lots in 2012. The City's Cartegraph Work Order program tracks the hours. Purchase orders are maintained and updated quarterly with Continental Power Sweeping and Washing. Staff is required to fill out daily logs to record the condition of the parking lots, stairs and elevators, landscaping, walkways, and lighting in the garages and lots, and what clean up is performed.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.17 Parking Garage Washing

Measurable Goal 6.17: *Track hours spent using wash & vacuum recovery system annually.*

Status: Downtown Parking staff completed 860 hours of pressure washing with a full recovery system during 2012. The Parking Division holds a discharge permit with the City for discharging this recovered water to the sanitary sewer.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.18 Integrated Pest Management

Measurable Goal 6.18: *Complete annual IPM report, document annual goals achieved.*

Status: The City's Parks Division oversees, implements, and educates staff and the public about the City's Integrated Pest Management (IPM) program. The 2011 Annual IPM Report was approved by City Council in Year 4 (April 24, 2012). The 2012 Annual IPM Report will be drafted in Year 5. Links to City's Annual IPM Reports are available on the City's website:
http://www.santabarbaraca.gov/Resident/Community/Parks_and_Beaches/Integrated_Pest_Management.htm

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.19 Cleaning Trash Enclosures

Measurable Goal 6.19: *Report number of enclosure cleanings done annually.*

Status: The Parking Division contracts with a local contractor Evershade to clean trash/recycle enclosures at City lots 8, 9, 10, 11, and 13. The contractor obtained a discharge permit with the City for discharging the recovered water to the sanitary sewer. The contractor cleans twelve enclosures at five locations. This totaled 144 cleanings during the calendar year 2012. Reference P.O. 387411.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.20 Illicit Discharge Inspection and Elimination

Measurable Goal 6.20: *Develop annual inspection schedule and estimated number of facilities to be inspected, including: Corporation Yard, Annex Yard, Facilities Maintenance Shops, Motor Pool, Parks Yard, Golf Maintenance Shop, Cater Plant and Parking Garages. Report deficiencies and corrections.*

Status: During the 4th quarter of 2012, annual inspections of maintenance yards, shops, and facilities were conducted for the fourth year in a row. The City facilities inspected are the Corporation Yard (Parks Yard), Corporation Annex Yard, Facilities Maintenance Shops (including Paint Shop, Carpenters Shop, and Electronics Maintenance Shop), Motor Pool (Fleet Management), Golf Maintenance Shop, Cater Water Treatment Plant, and the Parking Garages (including Parking Lot 2-Chapala/Canon Perdido, Lot 6-Granada Garage, Lot 7-Library, Lot 9-Anacapa/Canon Perdido/Carrillo, and Lot 10-Ortega/Anacapa). Inspection checklists and photos are kept on record.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP 6.21 Place Portable Toilets Adjacent to Creeks

Measurable Goal 6.21: *Track the use and maintenance frequency of portable toilets that are placed adjacent to City creeks.*

Status: Due to ongoing issues with people using the creek and banks as a toilet in 2010, there was a portable restroom placed adjacent to Mission Creek at Montecito Street. Marborg Industries (waste removal) has been contracted by the City to service this portable restroom twice a week due to the high level of use. This high level of use is an indication that less waste is being discharged to the creek and/or banks. There are no plans to remove this restroom from this site. Invoice records for the maintenance of the portable toilet are kept.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

G. Waterfront Department (WFD)

1. Public Education and Outreach

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Public Education and Outreach	WFD 1.1	Distribute brochures to tenants and slip holders annually as part of billing statements.	X			X		
	WFD 1.2	Create postings for all slip entrances identifying existing water quality tips and regulations, and potential enforcement actions, using resources from the California Clean Boating Network, and including an information and spill reporting telephone number.	X			X		
	WFD 1.3	Include a copy of informational brochures supplied to Waterfront tenants and users on local environmental groups website's, including but not limited to the Community Environmental Council, Project Clean Water, and City of Santa Barbara.	X			X		
	WFD 1.4	Formalize presentation process and identify presentation schedule and information number on WFD website.	X			X		
	WFD 1.5	Assess effectiveness through annual review of the program.	X			X		
	WFD 1.6	Expand program to interface with Regional Clean Marina Programs.	X			X		
	WFD 1.7	Publish and distribute "Docklines" three times per year.	X			X		
	WFD 1.8	Continue to coordinate with Santa Barbara Channel Keeper and Heal the Ocean to disseminate water quality information at their booths at the annual Harbor & Seafood Festival.	X			X		

BMP WFD 1.0 Public Education and Outreach

Measurable Goal 1.1: *Distribute brochures to tenants and slip holders annually as part of billing statements. Year 1-5*

Completed through monthly slip billing to tenants and slip holders throughout Year 4.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Continue coordination in Year 5.

Measurable Goal 1.2: *Create postings for all slip entrances identifying existing water quality tips and regulations, and potential enforcement actions, using resources from the California Clean Boating Network, and including an information and spill reporting telephone number. Year 2-5*

In 2012, low oxygen level readings were posted on marina gates and bulletin boards. Updated oxygen levels were taken and re-posted. The issue was that a large quantity of "bait" fish in the harbor depleted oxygen levels temporarily.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Continue coordination in Year 5.

Measurable Goal 1.3: *Include a copy of informational brochures supplied to Waterfront tenants and users on local environmental groups website's, including but not limited to the Community Environmental Council, Project Clean Water, and City of Santa Barbara. Year 2-5*

Completed through monthly slip billing to tenants and slip holders throughout Year 4.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Continue coordination in Year 5.

Measurable Goal 1.4: *Formalize presentation process and identify presentation schedule and information number on WFD website. Year 2-5*

The Waterfront Department website was created and launched in Year 3.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: WFD will continue to update the presentation process and information on the website as necessary in Year 5.

Measurable Goal 1.5: *Assess effectiveness through annual review of the program. Year 3-5*

Quarterly reporting results will be compiled for the annual Harbor Commission Report and assessed at the end of Year 5.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Complete assessment in Year 5.

Measurable Goal 1.6: *Expand program to interface with Regional Clean Marina Programs. Year 3-5*

Goal completed and implemented in Year 4.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Continue coordination in Year 5.

Measurable Goal 1.7: *Publish and distribute "Docklines" three times per year. Year 1-5*

Goal met. Docklines was published and distributed in March, June, and December, 2012.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Continue to publish and distribute "Docklines" three times in Year 5.

Measurable Goal 1.8: *Coordinate with Santa Barbara Channel Keeper and Heal the Ocean to disseminate water quality information at their booths at the annual Harbor & Seafood Festival. Year 1-5*

Continue coordination with Santa Barbara Channel Keeper and Heal the Ocean organizations.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Continue to coordinate with Santa Barbara Channel Keeper and Heal the Ocean in Year 5.

2. Public Involvement/Participation

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Public Involvement and Participation	WFD 2.1	Annual Reporting	X			X		
	WFD 2.2	Regional Agency Coordination	X			X		
	WFD 2.3	Notify, at a minimum, 5 schools per year and 2 community groups to encourage local participation in education activities involving the WFD. Increase the number of community groups/organizations or numbers of attendees each year through advertising or other means of announcements.	X			X		
	WFD 2.4	Implement the first Annual Harbor Clean-up Day to encourage and engage the community with the BMPs adopted by the WFD and to encourage community groups to participate in maintenance activities involving the WFD.	X			X		

BMP WFD 2.0 Public Involvement and Participation

Measurable Goal 2.1: *Annual reporting at the Harbor Commission. Year 1-5*

Annual report for 2012 will be compiled and presented to the Harbor Commission.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Annual reporting at the Harbor Commission in Year 5.

Measurable Goal 2.2: *Regional Agency Coordination. The WFD is currently responsible to present all BMPs, monitoring activities, water quality sampling, and pollution citation logs to the RWQCB in an Annual Report and in a SWPPP (if updated with additional BMPs / regulations). This documentation is available to the public at the WFD administrative offices and at the RWQCB. Year 1-5*

The Annual Report and any additional updates to the SWPPP are reported to the RWQCB by July 1 for the previous year (July to June).

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Annual Report and SWPPP updates (if needed) at the end of Year 5.

Measurable Goal 2.3: *Notify, at a minimum, 5 schools per year and 2 community groups to encourage local participation in education activities involving the WFD. Increase the number of community*

groups/organizations or numbers of attendees each year through advertising or other means of announcements. Year 1-5

Waterfront conducted 28 tours / public relations events in 2012. This involved schools and community groups.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Continue notifications and maintain involvement of community groups/organizations in Year 5.

Measurable Goal 2.4: *Implement Annual Harbor Clean-up Day to encourage and engage the community with the BMPs adopted by the WFD and to encourage community groups to participate in maintenance activities involving the WFD. Year 3-5*

Annual Harbor Clean-Up Day took place on May 12, 2012.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Continue coordination of Annual Harbor Clean-up Day in Year 5.

3. Illicit Discharge Detection and Elimination

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Illicit Discharge Detection and Elimination	WFD 3.1	The WFD proposes to submit to the RWQCB an application to allow low-threat, non-storm water discharge. These discharges occur as part of general public use at the harbor and may include the rinsing of boats with fresh water when they are removed from the harbor and washing of WFD vehicles in the maintenance yard.	X			X		
	WFD 3.2	Review and update the Clean Marina Program annually.	X			X		
	WFD 3.3	Assess effectiveness of Discharge Ordinance and Clean Marina Program. Performed through routine inspections and analysis of the Watch Log and Pollution Warning Log performed by Harbor Patrol and WFD staff.	X			X		
	WFD 3.4	Respond to 100%of all complaints / detection of illicit / illegal discharge within 24 hours of receiving the complaint / detection. Perform follow-up inspections on 100% of these cases to ensure elimination of the discharge.	X			X		
	WFD 3.5	Review Harbor Patrol warning & citation logs for illicit discharges and coordinate implementation of additional BMPs as necessary. Monitor and improve existing BMPs as needed as part of existing monitoring requirements. BMPs are monitored and evaluated monthly during the wet season (physically during rain events) and quarterly year-round in dry conditions as part of the Annual Site Evaluation, and SWPPP Annual Reporting.	X			X		

BMP WFD 3.0 Illicit Discharge Detection and Elimination

Measurable Goal 3.1: *The WFD proposes to submit to the RWQCB an application to allow low-threat, non-storm water discharge. These discharges occur as part of general public use at the harbor and may include the rinsing of boats with fresh water when they are removed from the harbor and washing of WFD vehicles in the maintenance yard. Year 2-5*

RWQCB staff directed WFD to identify and include low-threat discharges, including BMPs, in SWPPP. SWPPP was updated in July 2008.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Goal Completed.

Measurable Goal 3.2: *Review and update the Clean Marina Program annually. Year 1-5*

The review and updating of the Clean Marina Program occurred in Year 3.

Proposed Modifications: An Emergency Response Plan for Fish Die-off Event is being pursued in Year 5.

Planned Year 5 Activities: The review and update (if needed) will occur again in Year 5.

Measurable Goal 3.3: *Assess effectiveness of Discharge Ordinance and Clean Marina Program. Performed through routine inspections and analysis of the Watch Log and Pollution Warning Log performed by Harbor Patrol and WFD staff. Year 1-5*

The effectiveness of the Discharge Ordinance and Clean Marina Program was assessed during the compilation of the Harbor Commission Report in 2012.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Continue assessment and inspections in Year 5.

Measurable Goal 3.4: *Respond to 100% of all complaints / detection of illicit/illegal discharge within 24 hours of receiving the complaint/detection. Perform follow-up inspections on 100% of these cases to ensure elimination of the discharge. Year 1-5*

The Harbor Patrol responded to and followed-up on all notifications and observations of illicit or illegal discharges in 2012 (which totaled 8), as well as kept a warning & citation log of such occurrences, which is included in the SWPPP Annual Report to the RWQCB.

There were 2 Illicit Discharges recorded in Q1:

ILLICIT DISCHARGE	RESPONSE / RESOLUTION
Sanding Dust & Caulking	Regulation Packet to offender
Concrete, Wood Splinters	Regulation Packet to offender

There were no illicit discharges recorded in Q2.

There were 4 Illicit Discharges recorded in Q3:

ILLICIT DISCHARGE	RESPONSE / RESOLUTION

Sanding Dust	Regulation Packet to offender
Ajax Cleaner	Regulation Packet to offender
Fuel Spill	Citation to offender
Marine Boat Polish	Regulation Packet to offender

There were 2 Illicit Discharges recorded in Q4:

ILLICIT DISCHARGE	RESPONSE / RESOLUTION
Sanding Dust	Regulation Packet to offender
Bleach Spray on Hull	Regulation Packet to offender

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Continue response and follow-up in Year 5.

Measurable Goal 3.5: *Review Harbor Patrol warning & citation logs for illicit discharges and coordinate implementation of additional BMPs as necessary. Monitor and improve existing BMPs as needed as part of existing monitoring requirements. BMPs are monitored and evaluated monthly during the wet season (physically during rain events) and quarterly year-round in dry conditions as part of the Annual Site Evaluation, and SWPPP Annual Reporting. Year 1-5*

Review of the Harbor Patrol warning & citation logs is performed annually during the preparation of the SWPPP Annual Report. BMPs were monitored and evaluated monthly during rain events within one hour of the start of run-off and during quarterly monitoring during dry conditions.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Continue SWPPP requirements with wet and dry condition monitoring in Year 5.

4. Construction Site Storm Water Runoff Control

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	Not Applicable	Modified	Effective	Unknown	Not Effective
n/a		n/a						

No Measurable Goals for the Waterfront Department have been established for MCM 4 or MCM 5. The existing General Industrial Permit covers operations within the Waterfront area. Construction within the Waterfront area is considered an independent action and is permitted and managed under the purview of the Public Works Department and therefore regulated under the City of Santa Barbara's NPDES Storm Water Management Plan (SWMP). No substantial construction would likely occur because the waterfront area is generally built out and no expansion is proposed. Should construction occur in the form of remodels/redevelopment within the waterfront area, construction BMPs would be implemented through the Public Works Department following requirements outlined in the SWMP. Enforcement of post-construction BMPs would be conducted through existing daily monitoring at the waterfront by the Harbor Patrol and through existing storm water management program monitoring protocols. Any operations associated with redevelopment and new construction would be managed under the existing General Industrial Permit and in the event that redevelopment/new construction changes the general uses of the waterfront area (very unlikely), the SWPPP will be revised to incorporate the new programs.

5. Post Construction Storm Water Management

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	Not Applicable	Modified	Effective	Unknown	Not Effective
n/a		n/a						

Same as MCM 4; See above.

6. Pollution Prevention/ Good Housekeeping for Municipal Operations

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
Pollution Prevention/Good Housekeeping	WFD 6.1	Monitor pollution prevention/good housekeeping practices daily, weekly, monthly, yearly as appropriate.	X			X		
	WFD 6.2	Assess effectiveness of pollution prevention/good housekeeping practices by thorough review of monitoring, recording, and reporting efforts.	X			X		
	WFD 6.3	Update SWPPP to include modified or additional BMPs as appropriate.	X			X		
	WFD 6.4	Monitor storm water quality twice annually during wet season, as part of existing storm water pollution prevention program (SWPPP).	X			X		
	WFD 6.5	Review Waterfront Department SWPPP annually for compliance with City of Santa Barbara SWMP.	X			X		

BMP WFD 6.0 Pollution Prevention/Good Housekeeping

Measurable Goal WFD 6.1: *Monitor pollution prevention/good housekeeping practices daily, weekly, monthly, yearly as appropriate. Year 1-5*

The Harbor Patrol conducts daily monitoring of pollution prevention/good housekeeping practices. Monthly and quarterly monitoring is conducted under the SWPPP monitoring plan by a consultant to the WFD.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Monitoring will continue in Year 5.

Measurable Goal WFD 6.2: *Assess effectiveness of pollution prevention/good housekeeping practices by thorough review of monitoring, recording, and reporting efforts. Year 1-5*

Thorough review of monitoring, recording, and reporting efforts is conducted annually during the preparation of the SWPPP Annual Report or more frequently if issues occur.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Assessment to continue in Year 5.

Measurable Goal WFD 6.3: *Update SWPPP to include modified or additional BMPs as appropriate. Year 1-5*

The SWPPP was updated in July 2008 to add BMPs associated with low-threat discharges.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: SWPPP update to occur, if necessary, in Year 5.

Measurable Goal WFD 6.4: *Monitor storm water quality twice annually during wet season, as part of existing storm water pollution prevention program (SWPPP). Year 1-5*

Storm water samples were collected during the first qualifying rain event during monthly wet monitoring that occurred on 22 February 2012. Analysis of water quality will be reported in the SWPPP Annual Report.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: Monitoring will continue in Year 5.

Measurable Goal WFD 6.5: *Review Waterfront Department SWPPP annually for compliance with City of Santa Barbara SWMP. Years 1-5*

The Santa Barbara Harbor SWPPP was last updated in July 2008 for compliance with the City of Santa Barbara SWMP.

Proposed Modifications: No changes are recommended.

Planned Year 5 Activities: SWPPP will be reviewed for compliance with the City's SWMP in Year 5.

H. Airport Department (APD)

1. Public Education and Outreach

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	*Not Applicable*	*Modified*	*Effective*	*Unknown*	*Not Effective*
Public Education and Outreach	APD 1.1	Identify and label 100% of "at risk" storm water inlets.	X			X		
	APD 1.2	Annually provide storm water educational materials to Airport tenants via direct mail.	X			X		
	APD 1.3	Annually produce and distribute storm water management articles to Airport staff and Airport users via *The Beam* employee newsletter and/or the General Aviation newsletter.						
	APD 1.4	Provide links to storm water resources on the flysba.com website with an emphasis on pollutants of concern.	X			X		

BMP APD 1.1 Public Education and Outreach – Storm Drain Labeling

Measurable Goal 1.1: *100% of "at risk" inlets labeled.*

All Airport storm drains were labeled in Year 1. The Airport's new Airline Terminal project was completed during the second quarter of 2012, and storm drain decals were applied to all new inlets during the third quarter.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 1.2 Public Education and Outreach – Tenant Outreach and Education

Measurable Goal 1.2: *100% of Airport tenants receiving direct mailers.*

Goal not met in 2012. Educational outreach materials were developed, but not distributed in 2012. The storm water educational materials will be included in an airport newsletter that will be distributed electronically to users, airport tenants and airport staff. The article titled "CARING FOR YOUR AIRCRAFT, VEHICLES AND EQUIPMENT AT THE AIRPORT" presents best management practices for activities associated with these items. Readers will learn about potential water quality impacts associated with washing and repairing aircraft, vehicles and equipment, and will be introduced to measures they can take to minimize water quality impacts.

This article will be distributed in early 2013 and a second newsletter with additional outreach materials will be distributed in late 2013.

Proposed Modifications: None.

Proposed Year 5 Activities: Meet this measurable goal in Year 5.

BMP APD 1.3 Public Education and Outreach – Employee and User Awareness Campaign

Measurable Goal 1.3: *100% of Airport staff and/or based aircraft owners receive storm water educational materials.*

Educational outreach materials were developed, but not distributed in 2012. The stormwater educational materials will be included in an airport newsletter that will be distributed electronically to users, airport tenants and airport staff. The article titled "CARING FOR YOUR AIRCRAFT, VEHICLES AND EQUIPMENT AT THE AIRPORT" presents best management practices for activities associated with these items. Readers will learn about potential water quality impacts associated with washing and repairing aircraft, vehicles and equipment, and will be introduced to measures they can take to minimize water quality impacts.

This article will be distributed in early 2013 and a second newsletter with additional outreach materials will be distributed in late 2013.

Proposed Modifications: None.

Proposed Year 5 Activities: Meet this measurable goal in Year 5.

BMP APD 1.4 Public Education and Outreach – Provide Internet Access to Storm Water Resources

Measurable Goal 1.4: *Number of webpage visits.*

The Airport's storm water page on flysba.com includes storm water permit information and links to related resources. The storm water page was visited 625 times by internet users in 2012. This is about 1,300 less visits than last year. Apparently, Google changed its search algorithm and that impacted the number of searches that are directed to the Airport website.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

2. Public Involvement and Participation

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	*Not Applicable*	*Modified*	*Effective*	*Unknown*	*Not Effective*
Public Involvement and Participation	APD 2.1	Airport Department will report to GSMC and seek comments biennially in years 2 & 4.	X			X		
	APD 2.2	Airport Department will continually post the current SWMP and annual reports on the Airport's website. Public will be invited to review and comment on the materials provided.	X			X		
	APD 2.3	Continue standard notice procedure for public meetings.	X			X		
	APC 2.4	Continue to provide opportunity for public comment during public meetings.	X			X		

BMP APD 2.1 Public Involvement and Participation – Goleta Slough Management Committee Review of SWMP

Measurable Goal 2.1: *Airport Department will report to GSMC and seek comments biennially in years 2 & 4.*

Airport staff did not meet with the Goleta Slough Management Committee in Year 4 (2012). Airport staff requested to be placed on their agenda in early November 2012. However, the next available agenda date was not until February 14, 2013. This item will be reported on in 2013.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 2.2 Public Involvement and Participation – Public Review of the SWMP

Measurable Goal 2.2: *Airport Department will continually post the current SWMP and annual reports on the Airport's website. Public will be invited to review and comment on the materials provided.*

A link to the Santa Barbara SWMP and Annual Report page is posted on the Airport's website, as are instructions for submitting comments; and no comments have been received.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 2.3 Public Involvement and Participation – Public Notification

Measurable Goal 2.3: *Continue standard notice procedure for public meetings.*

All Airport Commission meetings were publically noticed in 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 2.4 Public Involvement and Participation – Public Meetings

Measurable Goal 2.4: *Continue to provide opportunity for public comment during public meetings.*

The public was provided an opportunity to comment at each 2012 Airport Commission meeting. However, no comments were received related to the Airport storm water pollution program and no agenda items related to the storm water program were discussed.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

3. Illicit Discharge Detection and Elimination

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	*Not Applicable*	*Modified*	*Effective*	*Unknown*	*Not Effective*
Illicit Discharge Detection and Elimination	APD 3.1	Visually inspect storm water outfalls quarterly during dry weather and monthly during qualifying wet season rain events.	X			X		
	APD 3.2	Conduct an ACSCE of Industrial Permit coverage area to assess conditions and effectiveness of Industrial Storm Water Program	X			X		
	APD 3.3	Sample storm water twice from collection systems 1,2,5,6,9b and 10 per criteria established in the SWPPP.	X			X		
	APD 3.4	Distribute storm water related information to Airport employees, tenants and users.	X			X		
	APD 3.5	Maintain list of tenants with County Business Plans.						
	APD 3.6	Investigate all reports received of non-storm water discharges and illicit connections reported via the storm water hotline and other channels.	X			X		
	APD 3.7	Airport staff use storm drain system map (block book) and submit error reports when inaccuracies are noted. Map is update periodically to reflect corrections noted in error reports.	X			X		
	APD 3.8	When illicit storm sewer system connections are detected, use Municipal Code to encourage removal in cases where alternative enforcement mechanisms,	X			X		

		such as enforcement of existing lease terms, are ineffective.						

BMP APD 3.1 Illicit Discharge Detection and Elimination - Visual inspection

Measurable Goal 3.1: *Conduct quarterly dry weather inspections and monthly inspections during the wet season.*

Dry weather inspections of the Airport storm water collection system were conducted quarterly on January 18, April 5, July 19, and October 25, 2012. No storm events qualified for wet weather inspections in 2012, so none were conducted.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 3.2 Illicit Discharge Detection and Elimination - Annual Site Inspection

Measurable Goal 3.2: *Conduct annual ACSCE inspection.*

In preparation for the annual general industrial storm water discharge report, Airport staff completed an ACSCE inspection in June 2012. Results were documented, compiled and submitted with the industrial permit annual report.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 3.3 Illicit Discharge Detection and Elimination - Sampling

Measurable Goal 3.3: *Samples collected during 2 qualifying storm events.*

No qualifying storm events occurred in 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 3.4 Illicit Discharge Detection and Elimination - Information

Measurable Goal 3.4: *See MCM1, BMPs 1b and 1c*

Educational outreach materials were developed, but not distributed in 2012. The storm water educational materials will be included in an airport newsletter that will be distributed electronically to users, airport tenants and airport staff. The article titled "CARING FOR YOUR AIRCRAFT, VEHICLES AND EQUIPMENT AT THE AIRPORT" presents best management practices for activities associated with these items. Readers will learn about potential water quality impacts associated with washing and repairing aircraft, vehicles and equipment, and will be introduced to measures they can take to minimize water quality impacts.

This article will be distributed in early 2013 and a second newsletter with additional outreach materials will be distributed in late 2013.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 3.5 Illicit Discharge Detection and Elimination - County Business Plans

Measurable Goal 3.5: *Update list annually.*

Airport staff received an updated list of County Business Plan holders on Airport property from the County Fire Department during the 4th quarter of 2012. Twenty five facilities are included on the list.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 3.6 Illicit Discharge Detection and Elimination - Hotline for public to report non-storm water discharges and illicit connections

Measurable Goal 3.6: *Investigate 100% of reports of non-storm water discharges and illicit connections.*

Airport staff investigated 100% of non-storm water discharges and illicit connection reports in 2012. There were three non-storm water discharges reported, all of which were reported and investigated by Airport staff. The first incident involved a construction worker power washing sidewalks at the new airline terminal, allowing wash water to discharge. The worker was instructed to install inlet protection before continuing work. The worker complied. The second incident involved a tenant dumping soapy water into the street. The tenant's employee was counseled on the appropriate way to dispose of wash water. The third incident involved a bus parked on City property which was being washed by a third party contractor. The bus was not parked on a paved surface, so wash water was not entering the collection system, however the contractor was instructed that vehicle washing is not allowed on Airport property.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 3.7 Illicit Discharge Detection and Elimination - Maintain storm drain system map

Measurable Goal 3.7: *Periodically update map as needed.*

The Airport has a "block book" with maps of utilities, including a storm drain map. The Airport's block book underwent an update during the first quarter of 2012, and the final updated book was completed during the second quarter of 2012. The updates included current utility location information and corrected errors noted in prior editions. The new block books were distributed to staff.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 3.8 Illicit Discharge Detection and Elimination - Enforce SBMC 14.56.070, titled "Connecting with City Drain System - Permit Required"

Measurable Goal 3.8: *Eliminate 100% of illicit storm sewer connections that are detected.*

No illicit connections to the Airport storm drain were detected in 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

4. Control of Construction Site Runoff

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	*Not Applicable*	*Modified*	*Effective*	*Unknown*	*Not Effective*
Control of Construction Site Runoff	APD 4.1	All Airport Department construction projects requiring a building permit will continue to be governed by City conditions of approval, including control of construction site runoff.	X			X		
	APD 4.2	All Airport tenant construction projects requiring a building permit will continue to be governed by City conditions of approval, including control of construction site runoff.	X			X		

BMP APD 4.1 Control of Construction Site Runoff - Comply with City permit conditions regarding control of construction site runoff

Measurable Goal 4.1: *Minimize percentage of construction projects with violations of permit conditions related to storm water management with a goal of 100% compliance.*

Several projects took place at the Airport in 2012, all of which were related to the new airport terminal project (ongoing from 2011). These projects included building and reconstructing a parking lot, terminal construction, Chrysler dealership demolition/rebuild, etc. Only one construction worker was contacted for power washing sidewalks without protecting the inlet, and the situation was remedied. No other permit condition violations were reported or observed, resulting in 100% compliance with permit conditions related to storm water management.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 4.2 Control of Construction Site Runoff - Airport tenant projects comply with permit conditions regarding control of construction site runoff

Measurable Goal 4.2: *Minimize percentage of construction projects with violations of permit conditions related to storm water management with a goal of 100% compliance.*

No tenant sponsored construction projects took place during 2012, and no violations were noted.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

5. Post-Construction Storm Water Management

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	*Not Applicable*	*Modified*	*Effective*	*Unknown*	*Not Effective*
Post – Construction Storm Water Management	APD 5.1	All Airport Department construction projects requiring a building permit will continue to be governed by City conditions of approval, including post-construction storm water management.	X			X		

BMP APD 5.1 Post-Construction Storm Water Management - Comply with City (and other agencies with jurisdiction) permit conditions regarding post-construction storm water

Measurable Goal 5.1: *Maintain 100% of structural storm water BMPs in accordance with conditions of approval established for the project.*

Airport structural BMPs are regularly maintained via preventative maintenance work orders. See the Airport's annual report on MCM 6, below, for frequency of inspection on specific structural BMPs.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

6. Pollution Prevention and Good Housekeeping

BMP	*Year*	*Implementation Details*	*Status*					
			Implemented	*Not Applicable*	*Modified*	*Effective*	*Unknown*	*Not Effective*
Pollution Prevention and Good Housekeeping	APD 6.1	Perform regular maintenance of Airport vehicles and equipment off-site.	X			X		
	APD 6.2	Provide covered storage areas for most Airport vehicles, equipment and materials.	X			X		
	APD 6.3	Provide annual training for Airport Maintenance staff on each of the following topics: • Best management practices, • Spill prevention and response • Hazard communication	X			X		
	APD 6.4	Airport tenants that fuel aircraft are required to comply with FAR Part 139 fueling requirements.	X			X		
	APD 6.5	Provide wash racks for rental cars, aircraft and equipment.	X			X		
	APD 6.6	Provide an aircraft lavatory disposal station.	X			X		
	APD 6.7	Provide a used oil collection station for pilots.	X			X		
	APD 6.8	Maintain an adequate inventory of spill response supplies.	X			X		
	APD 6.9	Post a City Integrated Pest Management Strategy link on the Airport website to educate the public and reduce the use and potential discharge of	X			X		

		pesticides.						
	APD 6.10	Encourage Airport employees to remain vigilant in covering dumpsters.	X			X		
	APD 6.11	Airport staff use dry clean-up practices when possible and deploy appropriate BMPs when wet wash techniques are required.	X					
	APD 6.12	Applies to outdoor storage of materials by the Airport Department not associated with permitted construction projects	X			X		
	APD 6.13	Quarterly inspect and clean or replace, if necessary, filters and traps in structural BMP devices installed on the Airport.	X			X		
	APD 6.14	Sweep Airport streets at least six times annually (once prior to the rainy season - November 1) to reduce sources of metals, pathogens, sedimentation/siltation and priority organics in Airport storm water. Commercial parking lots, runways and taxiways will be swept at least quarterly.	X			X		
	APD 6.15	Enforce "no camping" ordinance to reduce potential for pathogens to be discharged from transient encampments to the Goleta Slough.	X			X		
	APD 6.16	Conduct quarterly cleaning of the air carrier ramp.	X			X		
	APD 6.17	Work with County Flood Control to continue maintenance of	X			X		

		sediment catch basins in Goleta Slough tributaries.						

BMP APD 6.1 Pollution Prevention/Good Housekeeping - Off-Site Preventative Vehicle and Equipment Maintenance

Measurable Goal 6.1: *Continue agreement with City Fleet Management (formerly Motor Pool) to perform regular maintenance off-site.*

Routine preventative maintenance and major repairs of Airport vehicles and equipment are performed at the City's Fleet Management maintenance facility, off the Airport property.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.2 Pollution Prevention/Good Housekeeping - Covered Vehicle and Equipment Storage Areas

Measurable Goal 6.2: *Provide at least 5625 square feet of covered parking for Airport equipment and vehicles.*

A minimum of 5625 square feet of covered parking continues to be available for Airport equipment and vehicles.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.3 Pollution Prevention/Good Housekeeping - Employee Training

Measurable Goal 6.3: *100% of maintenance employees attending storm water training.*

100% of maintenance employees attended storm water training in 2012. Power washing BMPs were presented at the Nov. 20, 2012 Maintenance staff meeting. Storm water BMP training was provided for Maintenance staff on December 4, 2012. The training included emphasis on the importance of covering dumpsters and dry clean-up methods. Spill prevention and response training was also provided to Airport Maintenance staff on December 11, 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.4 Pollution Prevention/Good Housekeeping - Aircraft Fuel Dispenser Training

Measurable Goal 6.4: *Compliance with FAR Part 139 fuel dispenser training requirement.*

Compliance with FAR Part 139 was maintained in 2012. The FAA FAR Part 139 Certification Inspection was conducted April 4 – April 7, 2012. No discrepancies related to fuel dispenser training were noted by the FAA inspector.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.5 Pollution Prevention/Good Housekeeping - Airport Wash Racks

Measurable Goal 6.5: *Inspect wash racks quarterly.*

All wash racks were inspected quarterly in 2012. The aircraft wash rack was inspected a total of 13 times, and the equipment wash rack was inspected a total of 26 times.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.6 Pollution Prevention/Good Housekeeping – Lavatory Disposal Station

Measurable Goal 6.6: *Inspect lav cart disposal station quarterly.*

The lift stations, including the lav cart dump station, were inspected a total of 51 times in 2012 (exceeding the quarterly requirement).

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.7 Pollution Prevention/Good Housekeeping – Used Oil Collection Station

Measurable Goal 6.7: *Inspect used oil collection facility monthly.*

The used oil collection station was inspected a total of 29 times in 2012 (exceeding the monthly requirement).

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.8 Pollution Prevention/Good Housekeeping – Spill Response Supplies

Measurable Goal 6.8: *Inspect Airport spill supplies monthly.*

The spill cart was inspected a total of 12 times in 2012 (meeting the monthly requirement) and restocked during the second quarter.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.9 Pollution Prevention/Good Housekeeping – Integrated Pest Management

Measurable Goal 6.9: *Number of visits to IPM webpage.*

The storm water resources webpage on flysba.com includes links to IPM resources, and had 625 visits in 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.10 Pollution Prevention/Good Housekeeping – Covered Dumpsters

Measurable Goal 6.10: *Incorporate topic in Airport maintenance employee BMP training.*

Storm water BMP training was provided for Airport Maintenance staff on December 4, 2012. The training included emphasis on the importance of covering dumpsters and dry clean-up methods.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.11 Pollution Prevention/Good Housekeeping – Used Dry Clean-up Practices

Measurable Goal 6.11: *Incorporate topic in Airport maintenance employee BMP training.*

Storm water BMP training was provided for Airport Maintenance staff on December 4, 2012. The training included emphasis on the importance of covering dumpsters and dry clean-up methods.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.12 Pollution Prevention/Good Housekeeping – Outdoor Material Storage

Measurable Goal 6.12: *Airport facilities 100% compliant with outdoor material storage BMPs.*

No raw materials were stored in the yard in 2012, other than a mulch pile stored on a permeable surface. The mulch/chips are regularly applied around the Airport property as a less toxic approach to control weed growth.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.13 Pollution Prevention/Good Housekeeping – Inspection of Structural BMP Devices

Measurable Goal 6.13: *At least 70% of Airport inlets equipped with a structural BMP, inspected quarterly.*

70% of the Airport's inlets have been equipped with a structural BMP, and all filtered inlets were inspected quarterly in 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.14 Pollution Prevention/Good Housekeeping - Sweeping

Measurable Goal 6.14: *Sweep Airport streets 6 times annually. Sweep Airport runways, taxiways and commercial parking lots quarterly.*

This goal for sweeping was met and exceeded. The Airport streets were swept 9 times in 2012, and all runways, taxiways and parking lots were swept 1-3 times quarterly, throughout 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.15 Pollution Prevention/Good Housekeeping – Enforce "No Camping" Ordinance

Measurable Goal 6.15: *Number of field investigation cards completed related to illegal camping on the*

Airport.

A total of 12 investigation cards were completed related to illegal camping on Airport property in 2012. The incidents were investigated and remedied, usually by asking/requiring the campers to leave.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.16 Pollution Prevention/Good Housekeeping – Clean Air Carrier Aircraft Ramp Quarterly

Measurable Goal 6.16: *Clean air carrier ramp four times annually.*

The air carrier ramp was steam cleaned four times and swept ten times in 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

BMP APD 6.17 Pollution Prevention/Good Housekeeping – Sediment Basin Maintenance

Measurable Goal 6.17: *Facilitate access for County Flood Control*

Airport staff facilitated ongoing access for County Flood Control in 2012. County Flood Control removed sediment from the Airport's basins during the second quarter of 2012.

Proposed Modifications: None.

Proposed Year 5 Activities: Ongoing.

I. Program Effectiveness Assessment

The following effectiveness assessment stems from the Municipal Stormwater Program Effectiveness Assessment Guidance, developed by the California Storm Water Quality Association (CASQA). The purpose is to confirm the desired results of the City's SWMP and identify modifications that may be needed, thus ensuring the iterative process is used as an effective management tool throughout the permit implementation.

This 2012 Effectiveness Assessment is subject to change due to the timing of the City's Annual Report due date (April 1, 2013), and the fact that the State Water Board recently adopted the new 2013 NPDES General Permit last month (February 2013). The new General Permit requires that the City, as a Renewal Permittee, produce a "Guidance Document" that will replace our current SWMP and (re)define our City's overall program planning and permit requirements. This Guidance Document must include identification and assessment of our existing BMPs and whether or not their implementation will be maintained, modified, reduced, or ceased. Therefore, City staff plans to convene over the next few months to reevaluate our storm water management program as a whole and how it compares to the new General Permit requirements. Staff will look at the merits and/or limitations of each BMP, in relation to the new General Permit and our City's water quality goals, in order to determine which will be maintained, modified, reduced, or ceased. This effort, along with City staff/departmental input and budget and staffing considerations, will help to formulate the City's updated approach to effective storm water management. Therefore, due to the fact that this staff program assessment to produce the City's Guidance Document will not happen until later this spring; this Effectiveness Assessment below is premature to the upcoming determinations of how the City's BMPs for storm water management may change.

The following primary questions, or Outcome Levels, help to categorize and describe the desired results of the program:

- Level 1 Outcome – The Program Element is implemented in accordance with the Permit Provisions and SWMP
- Level 2 Outcome – The Program Element raises the target audience's awareness of an issue
- Level 3 Outcome – The Program Element changes a target audience's behavior, resulting in the implementation of recommended BMPs
- Level 4 Outcome – The Program Element reduces the load of pollutants from the sources to the storm drain system

Although each level has value in informing and/or supporting management decisions, not all Outcome Levels are used for each BMP and the Outcome Levels are not necessarily conducted in sequence.

In addition to the systematic CASQA effectiveness assessment discussions that follow (used for each of the BMP groupings within each of the six minimum control measures), each section includes a table summary of effectiveness that looks collectively at all BMPs within each minimum control measure. This programmatic evaluation is intended to ascertain if each of the minimum control measures as a whole is appropriate and effective, to evaluate whether certain BMPs are more successful and/or cost effective than others, and ultimately to determine if the overall storm water management program is working effectively.

Only the BMPs/Measurable Goals that are required for Years 1-4 implementation are discussed in this section. BMPs that are scheduled for Year 5, or have been completed, or are no longer applicable, are omitted from this Section.

The section is intended to assist in appropriate and meaningful modifications to the City's storm water management Program, thereby increasing the overall success of the program and achieving the maximum water quality benefits with limited City resources.

MCM 1.0 Public Education and Outreach

The Public Education and Outreach portion of the SWMP focuses on communicating consistent messages regarding storm water quality to a broad audience through the continuation of existing programs and the development and implementation of new programs. The BMPs implemented for this minimum control measure are intended to teach the public and reinforce the importance of protecting storm water quality, both for the benefit of the environment and human health.

Although its effectiveness can be difficult to measure, public education is essential to achieving behavioral changes that can protect water quality. Because the SWMP focuses on non-point source pollution, the role of the individual in preventing this pollution is key. The BMPs selected for implementation educate community members about steps they can take both at work and at home to prevent and reduce water pollution.

Collectively, all the BMPs within the public education and outreach component of the City's storm water program are highly effective in increasing awareness about water quality issues in order to encourage behavior change. The wide diversity of venues, events, means of communication, and partnering opportunities allows different segments of the City's population to hear a consistent message in a variety of ways, thereby sustaining public interest in the program. All of the BMPs addressed in MCM 1 were successful at Level 1, as they were all documented and implemented.

Since education of youth is likely the single most effective way to significantly alter behavior of the general population over time, youth education remains a focal point and one of the most resource-intensive components of the storm water program. Teacher evaluations of the City's watershed presentations (BMP 1.1) indicate that the City's efforts in youth education are extremely successful and effective.

The City's business outreach component has been continuously expanding and gaining a great deal of community interest and participation. The City's participation in local events where information about water quality is shared and distributed as well as the City's expanding Clean Water Business Program are both elements of the City's program that are proving to effectively increase water quality awareness and even change behaviors. The public opinion survey that was conducted in 2008 demonstrates these measurable successes, as well as areas for improvement.

a) Education: Youth Education and After-School Programs, (BMPs 1.1 and 1.2)

The City currently partners with several organizations to accomplish education and outreach program goals. *Explore Ecology (a program of Art From Scrap)* and local educators conduct many of the City's youth education presentations. The *Youth CineMedia* Program, the Channel Islands National Marine Sanctuary's *MERITO (Multicultural Education for Resource Issues Threatening Oceans)* program, and the City's *Recreation Afterschool Program (RAP)* and summer *Nature Camp* also play a key role in the City's enrichment-based youth education efforts, and have included after school programs such as creating outreach materials and films related to water quality issues and conducting native planting projects.

- Education Program for School Children. In 2012, a total of 164 presentations were provided, reaching 4,390 youth. This high level of education/outreach not only exceeds the SWMP's measurable goal; it makes the program successful at Level 2, raising awareness, as the Teacher evaluations indicated. Evaluations will continue to be used to revise program content, as needed.

- Enrichment-Based Youth Education. By employing youth in the Youth CineMedia program to create outreach materials and films related to water quality issues and restoration projects, the City is raising awareness of water quality issues and solutions among that group of at-risk teens, who in turn are helping raise awareness among other teens, the Spanish speaking community, and the community at large. Furthermore, by involving local elementary school students in hands-on activities and educational programs at through activities related to local creeks, they are learning about the benefits of natural creek systems and native plants. By taking students on a field trip down their own watershed, they better understand the concept that the water that flows through their campus ends up at the beach, and that activities in the neighborhood around the school as well as on their campus have a direct effect on the health of the creeks and ocean. These programs are successful at Level 2, raising awareness.

b) Outreach: Brochures/Postcards, Public Events, Neighborhood Outreach, Website and Media (BMPs 1.3, 1.4, 1.7, 1.9, and 1.11)

Outreach with the public through print information, face-to-face contact, community events, website use and media campaigns include:

- Brochures/Postcards. Target audiences include general residents that attend community events such as Earth Day, community workshops, and Creek Week, among others. Specific audiences, such as business owners and residents, are reached through personal contact when illegal discharge issues are addressed. Materials are also distributed in conjunction with specific projects and events. Overall outreach materials are successful at Level 2.
- Website. The City Creeks website (www.sbcreeks.com) provides an easily accessible method for the public to access storm water management information; water quality data and reports; information about restoration, stewardship projects, and business programs; as well as announcements and reports. In 2012 there were 7,010 visitors to the website; an increase of 5% from the 2011 total of 6,682 hits. The Creeks Division is continually exploring new ways to drive traffic to the website via internet advertising and social media. The City is currently undertaking a redesign of the entire website, aimed at making the site more aesthetically appealing and user-friendly, with an expected launch in May 2013. Overall the website is successful at Level 2.
- Events. Earth Day, Creek Week, and the Harbor and Seafood Festival are only a few of the public outreach events that the City attended and/or helped to present to the community. Public events have been highly effective in increasing community knowledge and awareness of the storm water program and water quality issues. This increase in awareness hopefully translates into changed behaviors, but this is difficult to measure. Events such as Creek Week draw large numbers of people to various community locations, programs, and events, where the importance of protecting water quality is the main emphasis. Overall outreach at events is successful at Level 2.
- Neighborhood Outreach. Neighborhood outreach in Year 4 included 34 community members participating in beach and creek clean-ups. This BMP is effective at Levels 2 and 4; due to the fact awareness is raised during these efforts with the hands-on approach of cleaning beach and creek areas in need of attention, and pollutant loads are reduced by removing trash.
- Media. Media messages on preventing water pollution were transmitted via various newspaper ads, radio spots, bus ads, and targeted television PSAs, both in English and Spanish. The numbers reached through media surpass the SWMPs measurable goals for community media campaigns. Overall media campaigns are highly successful at Level 2.

c) Storm Drain Marking (BMP 1.5)

The bilingual message of "No Dumping, Drains to Ocean" raises awareness about the connection between storm drains and receiving waters and they are intended to help deter littering, dumping, and other practices that contribute to nonpoint source pollution. Storm drain marking has been incorporated into the Creeks Division's outreach activities, with one volunteer event taking place in Year 4, for a total of 115 markers being cleaned or replaced by either City staff or volunteers. Storm drain marking is successful at Level 2 for raising awareness. In late 2012 the Creeks Division designed and ordered new, metal storm drain markers, which are expected to be far more durable and require less maintenance than the old, plastic markers. Installation of the new markers will begin in 2013 with volunteer efforts, which increases awareness of the purpose and function of storm drains for both the volunteers as well as any community members who interact with volunteers during the event.

d) Hotline (BMP 1.6)

Use of the hotline remains constant and continues to provide effective service to all members of the community in reporting water pollution. The hotline was promoted through City English and Spanish media, which ended up reaching well over the goal of 5,000 residents. Overall the hotline is successful at all Levels. Level 1 for implementation; Level 2 for making people aware that pollution is an issue and there is a City program for addressing the issue; Level 3 because it allows City staff to identify and target those residents and businesses who need to be educated about their impacts on water quality (thanks to callers reporting discharges), which in turn often results in a change in behavior; and Level 4 when calls result in a field discovery, illicit discharge abatement, and load reduction.

e) Business Outreach: (BMP 1.10)

The City's Clean Water Business Program helps train community members and professionals in reducing polluted runoff. Mobile washers were added to the program (which already included Restaurants and Automotive Services) in Years 1 and 2, thereby expanding the program's audience and targeting specific businesses prone to polluting creek and ocean water quality. 20 businesses were inspected and certified as Clean Water Businesses in Year 4. This direct outreach and interaction between the public and City staff has been an effective way to increase the awareness of City business owners and operators to water quality impacts. Business outreach is successful at all Levels; Level 1 for implementation; Level 2 for increasing the awareness of business owners who were previously unaware that their actions can impact water quality; Level 3 for changing their behavior by becoming a certified Clean Water Business (staff is assured that their behavior/practices are truly changed by confirming that discharges do not occur from their property); and at Level 4 for load reduction when City staff inspects business operations and/or responds to complaints or discoveries in the field.

Table F.1 Effectiveness Assessment Summary for Public Education and Outreach

Outreach Program Activities	Effectiveness Assessment Outcome Levels			
	Level 1	Level 2	Level 3	Level 4
	Implement Program	Increase Awareness	Behavior Change	Load Reduction
Education	X	X		
Outreach	X	X		X (Neighborhood Outreach, BMP 1.7)
Storm Drain Marking	X	X		
Hotline	X	X	X	X

Business Outreach	X	X	X	X

MCM 2.0 Public Participation and Involvement

The Public Participation and Involvement Minimum Control Measure is intended to foster active community support for the SWMP. Participation by the public ensures that the program reflects community values and priorities and thus has the highest potential for success.

Stakeholders are informed of program updates and announcements via regular emails to e-mail group lists. Often these emails are equally effective and more efficient than meetings. Much of the input we receive from our most involved stakeholders occurs immediately through electronic communication.

The City not only holds monthly meetings with the Creeks Advisory Committee (CAC) to keep the public informed about outreach efforts, creek restoration projects and water quality issues and efforts; staff also participates in quarterly stakeholder meetings with county Project Clean Water staff as well as quarterly intergovernmental meetings, (Santa Barbara County Association of MS4 Managers, i.e., SBCAMM) to exchange information with other local municipalities and stakeholders.

The City conducts an annual community forum on water quality to seek community input, share ideas and vision, and to establish opportunities to form stronger water quality partnerships in the community. This community participation is also encouraged through the City's volunteer projects, which seek citizen participation in reducing creek pollution and understanding water quality concerns by conducting creek clean-ups and/or collaborative planting days.

The City will continue to evaluate appropriate vehicles to increase stakeholder involvement and the effectiveness of holding and attending meetings.

a) Creeks Advisory Committee Meetings (BMP 2.1)

CAC meetings are publicly noticed and held 12 times, annually. These meetings are also aired on local TV and archived on the City's website in order to make the covered content widely available to the public. Before meetings are held, agendas are emailed to a list of interested community members, Committee members, appropriate staff, local news organizations who have requested to receive agendas, and liaisons (totaling over 300 people). A minimum of one CAC meeting per year is dedicated to updating the public on the City's SWMP. CAC meetings are successful at Levels 1 and 2.

b) Stakeholder Meetings and Regional Coordination (BMPs 2.2 and 2.3)

- Project Clean Water Stakeholder Committee Meetings. City staff has attended the County's (Project Clean Water) Stakeholder Committee Meetings for the past several years. In 2012, staff attended all four quarterly meetings. This BMP is effective at Levels 1 and 2.
- Regional Coordination. Participating in the quarterly intergovernmental meetings is appropriate for coordinating among the different storm water management programs in the County. Local population perspectives and pollution sources vary, and obtaining input from various agencies is useful in understanding these local differences. The intergovernmental meetings are efficient venues for planning joint pollution reduction efforts. Attendance is steady and is regularly represented by most of the Phase II agencies in Santa Barbara County. Overall coordination among agencies is successful at Level 2 for raising awareness.

c) Community Forum on Water Quality Issues (BMP 2.4)

The City's annual community forum is an effective way to involve the public in current water quality issues. A new water quality topic is covered each year; the 2012 forum was co-hosted with the County of Santa Barbara Project Clean Water, and included a presentation about pollution in Arroyo Burro Creek, Arroyo Burro Estuary, and at Arroyo Burro Beach. This event not only includes local organizations, it has proven to be an excellent way to involve the public by covering interesting and up-to-date topics and inviting knowledgeable and recognized presenters. Postings advertising the forum are on the City's web site, sent via email, and posted in local newspapers and community websites. This public participation tool is effective at Level 2; raising awareness.

d) Community Volunteer Projects (BMP 2.5)

- Creek Clean-Ups. Community creek clean-ups attract residents who are typically enthusiastic about making a tangible difference in improving water quality and offer opportunities for involvement in the City's SWMP activities. Volunteers removed large amounts of trash from the creeks and beaches in 2012. This is measurable evidence that community clean-ups are successful at all levels. Over 330 community members participated in community service events throughout the year, including beach and creek clean-ups and native planting events. This hands-on experience for people is the best way to change behavior, and it results in an immediate reduction in pollution loads.
- Volunteer Storm Water Monitoring. Volunteer storm monitoring is appropriate for fostering the involvement of community members. This outreach effort is primarily used as an educational tool to inform and engage the public in the current health and function of local creeks. However, storm monitoring is a difficult task for volunteers because it often involves dedicating their time at odd hours (middle of the night). Therefore, rather than expecting to engage 6 volunteers annually in storm monitoring, the City is proposing to change this BMP to maintaining a list of potential volunteers to assist in storm monitoring, and achieve participation from a minimum of two volunteers in storm monitoring activities during daylight hours at least once per year, provided that storm monitoring occurs during daylight hours. Overall, volunteer storm monitoring is successful at Level 2.

Table F.2 Effectiveness Assessment Summary for Public Participation and Involvement

BMP	Effectiveness Assessment Outcome Levels			
	Level 1 Implement Program	Level 2 Increase Awareness	Level 3 Behavior Change	Level 4 Load Reduction
Creeks Advisory Committee	x	x		
Stakeholder Meetings/Regional Coordination	x	x		
Community Forum	x	x		
Community Volunteer Projects	x	x	x	x

MCM 3.0 Illicit Discharge Detection & Elimination

The following is an assessment regarding the effectiveness of the fourth year of implementation of MCM 3.0 Illicit Discharge Detection and Elimination (IDDE) Program as outlined in the SWMP. The City has effectively implemented the IDDE program through ongoing program elements such as training city staff about protecting water quality, maintaining the City's storm drain facility map, field investigations and abatement, developing and distributing targeted educational materials to potential polluters, creating inventories of businesses, properties, and facilities that are potential polluters, conducting inspections, and administering the creation of a storm water ordinance.

Collectively, all the BMPs within the IDDE program are effective at reducing pollution in storm water by working to identify and eliminate sources of illicit discharge and illegal dumping. The IDDE program depends on participation from the public and other City Departments. While this is an effective approach, it does present challenges as the public and other City departments often have competing priorities and different mandates. BMP 3.3 calls for adopting a storm water ordinance, which is scheduled to take place later this year, in 2013. The storm water ordinance will require a large amount of interdepartmental coordination and public review. Currently, should a responsible party continue to employ practices that could result in a serious threat to water quality or if a responsible party fails to abate a discharge that does or may result in a serious threat to water quality, there are tools available for enforcement including administrative fines. Our current ordinance provides legal authority to stop unauthorized discharges and to enforce storm water requirements. However, the SWMP calls for updating existing ordinances and/or creating a new storm water ordinance in Years 4 and 5.

a) Storm Sewer System Mapping (BMP 3.1)

Storm Drain Facility Map – Drainage facility maps expedite location of illicit discharges and are a requirement of the General Permit. This is a permit requirement and as such, is successful at Level 1. Additionally, where staff and the public are able to utilize the map data for investigating sources of discharges, this BMP is successful at Level 2.

b) Municipal Code Enforcement, Storm Water Ordinance, and Field Investigation and Abatement (BMPs 3.2, 3.3, and 3.4)

- Municipal Code Enforcement. 225 calls were received and 224 were responded to within 24 hours in Year 4, resulting in 75 Notices of Violation and 9 citations (fines). As of 2010, the City now has a dedicated enforcement person who focuses on maintaining the database of incoming complaints and quickly responding to and abating illicit discharges. The response cards produced in Year 1 have had limited success in helping to evaluate and improve the City's enforcement program by getting feedback from the public (Level 2). The Notices of Violation sent to dischargers change polluting behavior, at least temporarily (Level 3), or fines are administered, and the Creek Clean-ups ordered by the City and administered by the contractor (Service Master) are also effective in reducing pollutant loads from the City creeks and ocean (Level 4).

- Storm Water Ordinance. The City continues to adhere to Title 16 of the Municipal Code (*Chapter 16.15; Urban Pollution Controls, Non-Point Source Discharge Restrictions*) for protecting water quality. This existing ordinance has been effective by assuring city staff the authority to conduct inspections where there appears to be an illicit discharge present and administer fines via the Administrative Code. This and other related City ordinances, goals and policies were reviewed in Year 1 to determine the need for an ordinance update and identify any inconsistencies with the City's SWMP, Storm Water BMP Guidance Manual, and/or the Phase II General Permit. It is anticipated

that the City will review and adopt a storm water ordinance later in 2013, as it is currently be drafted. This process (BMP 3.3) is not only effective at raising the awareness (Level 2) of storm water quality issues and requirements through the audit, workshops, and hearings; but it can also ultimately change behavior by providing the appropriate enforcement mechanisms to do so (Level 3).

- Field Investigation and Abatement. The City's field investigation and abatement program is effective on all levels. Response time to calls/reports is very short and therefore issues are addressed as quickly as possible. Field investigations and abatement efforts inevitably result in communicating and/or interacting with residents, contractors, and business owners to educate them about the importance of protecting surface water quality and why the City has to enforce water quality laws. This raises awareness (Level 2) and often changes behaviors through education (Level 3), especially when discharges are not intentional and/or simply the result of ignorance. Changed behavior is confirmed by City staff by following up on cases and checking that discharges have been properly abated and/or sites are no longer conducting polluting activities. Abating illicit discharges through this program ultimately results in reducing pollutant loads from the City's creeks and ocean (Level 4).

c) Reporting and Documentation (BMPs 3.6, 3.7 and 3.14)

These BMPs are only effective at Level 1. They simply require that records are maintained, confirming that a specific goal has been implemented. See Section 3 of this Annual Report for details confirming implementation.

d) Inventories and Inspections (BMPs 3.8, 3.9, and 3.10)

- Inventory Commercial Facilities. A map and list of parcels 100,000 square feet or greater with a commercial land use designation was generated using GIS. This list will continue to be used in future years for inspections required by the SWMP. This measurable goal is completed and effective at Level 1.
- Inspect Commercial Facilities. This measurable goal is currently successful at Levels 1 and 2, and recently became successful at Levels 3 and 4 as facilities have been inspected over the past two years (2011 and 2012). A few issues were found that required changing the behavior of property managers, and thereby better protecting water quality and reducing pollutant loads (polluted runoff) from these large facilities.
- Inventory Parking Lots. Similar to BMP 3.8, a map and list of parking lots was developed using GIS. The criterion for the inventory was changed to 5,000 square feet or greater (or 25 or more spaces) due to the fact not many parking lots in Santa Barbara are as large as 10,000 square feet. This measurable goal is completed and effective at Level 1.

e) Sidewalk Washing (BMPs 3.12 and 3.13)

- Complete a Study. An internet search was conducted for information on what other municipalities have done to address sidewalk washing. Through process of elimination, City staff decided that building a custom device for washing sidewalks and capturing runoff for re-use was the best approach. This study enabled the City to implement the downtown sidewalk washing program (Level 1), and ultimately changed how the City addresses sidewalk washing, thereby changing a potentially polluting City maintenance action and drastically reducing its potential to impact water quality (Level 3).
- Implement Sidewalk Washing BMP. The City worked with the Downtown Organization to create a custom-made machine that pressure-washes the sidewalks with a close-looped system with zero discharge and pretreatment for solids and hydrocarbons absorption. The wash water is passed through the pretreatment filter for cleaning and is later used for irrigating the sidewalk planter beds.

This BMP is successful at Levels 2 and 4. Using the machine has directly changed the behavior of City maintenance workers (in the case, the Downtown Organization), and in such a publicly-visible place (downtown, State Street), many people notice the water is being captured and reused, thereby raising awareness that wash water runoff can and should be contained and reused. This may not specifically change the common observer's behavior, but it obviously helps in reducing the overall runoff loads from downtown washing activities (Level 4).

f) Illegal Discharge Training (BMP 3.15)

Annual training for all "Operational Division" staff (employees that perform outdoor activities that could pollute storm water) is provided annually. In the past, City staff has created power point presentations and handouts, using in-house photos and existing data, for these training presentations. In Year 4, Creeks Division staff purchased a new CD-rom employee training package from Excal Visual, LLP called "Rain Check" (2012). The package is very useful, with several different training videos to choose from, each of which focus in on various city employee tasks and how to conduct them properly in order to protect surface water quality and the City's storm drain system. The package also includes a trainer's guide, pocket references, employee quizzes, and even templates to help create presentations specific to individual facility requirements. The trainings are approximately one hour in length and include an introduction to the City's SWMP and the importance of protecting water quality. These training sessions are well attended, as they are carefully scheduled and staff is required to attend. This BMP is effective on all Levels 1, 2, 3 and 4. It is apparent by the questions and comments at these trainings that awareness regarding water quality is raised. Also, staff makes more calls into the City's storm water pollution enforcement line after the trainings, which demonstrates that they are working to change polluting behaviors, which ultimately results in enforcement staff abating discharges, thereby reducing pollutant loads.

Table F.3 Effectiveness Assessment Summary for Illicit Discharge Detection and Elimination Program

BMP	Effectiveness Assessment Outcome Levels			
	Level 1	Level 2	Level 3	Level 4
	Implement Program	Increase Awareness	Behavior Change	Load Reduction
Storm Sewer Mapping	X	X		
Municipal Code Enforcement	X	X	X	X
Storm Water Ordinance	X	X	X	
Field Investigation and Abatement	X	X	X	X
Reporting and Documentation	X			
Inventories	X	X		
Inspections	X	X	X	X
Sidewalk Washing	X	X	X	X
Illegal Discharge Training	X	X	X	X

MCM 4.0 Construction Site Storm Water Runoff Control

The Construction Site Storm Water Runoff Control minimum control measure is implemented and enforced under authority of the City's Building Division, through City code, policy, and practice.

Collectively, the BMPs in the City's SWMP related to construction site storm water runoff are effective. In Years 2-4, City and Water Board staff evaluated the City's current erosion and sediment control policy and overall approach to construction site storm water management. Subsequently, a municipal ordinance that codifies the existing erosion and sediment control policy was approved in Year 4, and adopted in January 2013. Furthermore, the improved tracking system employed by Building staff creates a good inventory of construction sites and logging inspections ensures that their threat to water quality is kept in check.

a) Evaluate Erosion and Sediment Control Policy (BMP 4.1)

The Building & Safety Division is tracking projects and has evaluated the current Erosion/Sedimentation Control Policy. This policy was originally established in 2003 and has been updated as new and more effective BMP's have been developed. Review of Erosion and Sediment Control Plans provide ongoing site-specific evaluation. The review of plans via the Grading Permit process is successful at multiple levels. It is effective at outcome Level 1 by meeting the General Permit requirements; successful at Level 2 where submittals require awareness of potential pollutant discharges from grading sites; and successful at Level 3 where plans are used to correct or modify contractor behavior to prevent pollutant discharges.

b) Evaluate SBMC ordinance regarding erosion/sediment control requirements (BMP 4.2)

Mainly due to Water Board Audit requirements (2011/2012); the City produced and reviewed with appropriate staff and committees an Erosion/Sediment Control ordinance during the 3rd and 4th quarters of 2012. The ordinance was adopted by City Council on January 13, 2013 (See Audit Compliance Section E). Adopting the ordinance does not change activities, but does provide a more enforceable mechanism if construction projects do not comply, so this BMP can potentially be successful at all Levels (1-4). An ordinance can be used not only to require proper implementation (Level 1) and increase the awareness of the building community (Level 2); it can also physically change behaviors (Level 3) and reduce pollutant loads (Level 4) if/when staff needs to put the ordinance into effect.

c) Inspections, Violations and Resolution (BMPs 4.3 and 4.4)

All sites permitted for grading are inspected regularly at various intervals based upon the phase of construction and the time of year. The Building & Safety Division made changes (in Year 2) to the database entries of the permit tracking system to provide more complete documentation of projects requiring inspection prior to the official "start" of the rainy season. These changes have allowed plan checkers to verify what level of erosion control plan is required and inspectors are provided with a complete list of sites that require an inspection prior to October 15th as outlined in the SWMP. This list is used in conjunction with the existing method of pre-rain event inspections in an attempt to improve the effectiveness of the Building Department's current tracking and inspection measures.

Inspection reports are generated each day by each City inspector and logged into a computerized permitting system. These reports show previous inspections and any corrections that were required. This allows the inspectors to ensure that incorrect erosion/sediment control installations are fixed before the project can proceed. Projects are required to install erosion control before any inspections are given. If a project site tries to call for an inspection without the erosion control measures in place, or if measures are placed incorrectly, a correction notice is given and the inspection that was called for is not completed. Depending on the weather, if a call-back inspection on the erosion control measures is not received, the inspector will do

a follow-up inspection of the site to see if any progress is being made. No construction is allowed until the required erosion control measures are in place. This is an excellent compliance tool, as it can cost the contractor money in down time and payroll for idle workers.

The inspection of construction sites operating under a Grading Permit is successful at multiple levels. It is effective at outcome Level 1 in accordance with the General Permit requirements; successful at Level 2 where inspections result in a communication between inspector and contractor, whether written or verbal, increasing awareness of potential pollutant discharges; successful at Level 3 where inspections result in correction or modification of contractor behavior; and, Level 4 where inspections result in proper use, maintenance, or abatement of improper practices, thus preventing pollutants from being discharged into the City's storm drain system.

d) Enforcement (BMP 4.5)

Zero enforcement cases related to erosion control issues were reported by the Building Department for Year 4. The City Building Department utilizes correction and warning notices to address site deficiencies and inspectors work with the contractor community both through trainings and on a site by site basis to maintain full compliance. 100% of all project sites subject to erosion/sedimentation control in 2012 were inspected for violations. Correction and/or warning notices were issued if/when BMPs at a construction site were not sufficient, or a construction site was not designed per the BMPs identified on the plans, or if site dynamics changed and further/additional BMPs were needed. Failure to comply with a correction or warning notice results in a formal enforcement case leading to administrative penalties and legal action by City Attorney's office.

Stop work orders are a strong tool for City inspectors (they work as a Level 2 to raise awareness of local contractors) and avoiding these are good incentive for contractors to make immediate and responsive corrections to avoid punitive action. So this BMP is also effective at a Level 3 for changing behavior.

e) Training (BMPs 4.6 and 4.7)

- Training Construction Site Operators. Staff does currently provide BMP training to local contractors, at least once, annually, and Building staff claims great success in achieving compliance with the construction community through mutual respect and ongoing communication. These training and communication approaches are successful at Levels 1, 2, and 3 by working with the construction community to implement the City's Erosion/Sediment Control Program, increasing the awareness of the City's requirements and expectations, and changing the behavior of contractors on a site-by-site, case-by-case basis.
- Training Building and Public Works Inspectors. Inspectors hold weekly training meetings on various construction and code issues. Beginning in late summer through late spring of very year, erosion control BMP installation is an almost weekly topic. Staff comparisons are noted for effectiveness and appropriateness. Also, inspectors work very hard with the contractors during this time to update and "train" them as well. This coordinated effort among the Building Inspectors shares information, thereby raising awareness (Level 2), and also often changes behaviors for the better (Level 3), based on what lessons are learned.

Table F.4 Effectiveness Assessment Summary for Construction Site Storm Water Runoff Control

BMP	Effectiveness Assessment Outcome Levels			
	Level 1	Level 2	Level 3	Level 4
	Implement Program	Increase Awareness	Behavior Change	Load Reduction
Evaluate Erosion and Sediment Control Policy	X	X	X	
Erosion/Sediment Control Ordinance	X	X	X	X
Inspections, Violations and Resolution	X	X	X	X
Enforcement	X	X	X	
Training	X	X	X	

MCM 5.0 Post-Construction Storm Water Management in New and Redevelopment

The Post-Construction Storm Water Management in New and Redevelopment minimum control measure is implemented under authority of the City's Community Development Department through project proposal applications, review, and permitting. Other City departments such as Public Works, Fire, and City Creeks, and Parks and Recreation provide early input to the permitting and development process.

The City has been implementing the SWMP since 2006 per direction from the City Council (even though the Water Board did not approve the City's SWMP until 2009). Section 4.5 (MCM 5.0) of the City's SWMP clearly defines standard requirements for both discretionary and ministerial projects; to implement State required minimum design standards (Attachment 4 of the State General Permit), as well as address peak storm water runoff discharge rates and protect water quality through conservation, minimization of pollutants, and structural and/or treatment control BMPs. These requirements are explained in more detail in the City's *Storm Water BMP Guidance Manual* (Guidance Manual), produced and finalized in 2008. By directing project applicants and contractors to the City's SWMP and Guidance Manual, the City provides consistent review of water quality impacts and appropriate BMP design requirements to protect water quality from storm water runoff. The City's post-construction storm water management program and Guidance Manual will continue to evolve over the next several years.

Staff training will also continue to evolve. The need for SWMP and Guidance Manual training became apparent in 2008, during production of the City's Guidance Manual. Creeks Division staff (SWMP administrator) has become intimately familiar with the SWMP requirements and BMP designs in the Guidance Manual, but other City staff had not. Staff trainings, both small and large, were offered and very well attended in Years 1 and 2. Creeks Division staff also conducted a training for contractors and designers in Year 4 (February 2012), which was very well-attended (approximately 50 participants). City Creeks staff remains directly involved in the development review process and will monitor if and when additional, focused or revised training of City staff is necessary.

The City has begun to explore and implement opportunities for Low Impact Development (LID) demonstration projects as well as incentive programs for installing storm water BMP designs. The City Creeks Division completed a LID demonstration project in Year 3 (October 2011) at the City's MacKenzie Park parking lot. The project included the installation of permeable pavers in the parking stalls and a portion of the walkway through the park in order to allow storm water and urban runoff to infiltrate into the ground. This design demonstrates a retrofit that complies with the SWMP by detaining and treating the volume of water generated by a one inch storm event over 24 hours. Due to the success of the permeable design of the MacKenzie parking lot, the City Creeks Division is currently pursuing a subsequent project (in 2013) that involves installing permeable pavers in several other parking lots within the City.

Effectiveness of this MCM will best be measured over the 5-year implementation period once post-construction regulations are fully developed and awareness from the development community increases over time. During these first several years of SWMP implementation, MCM 5 effectiveness will focus on Outcome Level 2 (raise awareness) and Outcome Level 3 (change behavior, resulting in implementation of post-construction project BMPs), with the goal of the overall storm water program obtaining Outcome Level 4 (Reduce Pollutant Load).

a) Post-construction BMP Implementation and Tracking (BMPs 5.1 and 5.2)

A total of 99 projects implemented post-construction BMPs in Year 4. This is a decrease of about 40 projects from last year; simply due to the fact the City received very few project applications in 2012. However, 99 projects in Year 4 still marks a significant increase in projects implementing post-construction storm water BMPs, as opposed to Years 1 and 2; thereby demonstrating that the City's understanding and implementation of post-construction storm water BMP requirements is successfully improving. In order to ensure project SWMP compliance and better track project implementation, staff was directed at the end of Year 1 to display SWMP compliance (BMPs) on building permit plans and to include this activity in the City's "Tidemark" tracking system. Tracking the implementation of SWMP requirements, both on paper and electronically, effectively documents this requirement (Level 1), and raises the awareness of both City staff and project applicants (Level 2) of applicable SWMP requirements. These efforts made to ensure the implementation of post-construction BMPs inherently changes the behavior (Level 3) of project applicants and their contractors by forcing them to design their project with water quality in mind, rather than simply using traditional designs that often disregard the impacts of polluted storm water runoff.

b) Enforcement for BMP Compliance (BMP 5.3)

Enforcement of required BMPs occurs during the construction phase of a project. Projects are not allowed to be finished without all of the required post-construction BMPs as noted on the plans being installed. Violations that occur after the project is completed will instigate an enforcement case that would require remediation. Up until this point in time, no enforcement cases have been necessary; as projects are only now beginning to be built that require storm water BMPs. The City is beginning a new tracking system (in 2013) for projects with post-construction BMPs that will provide staff with the ability to document the implementation, operation, and maintenance status of the BMPs. Post-construction inspections will take place and follow-up actions if necessary. (See Section E for the City's Audit Compliance). Enforcement actions will ensue in the future if/when compliance is not achieved. This BMP will eventually become effective as a Level 2 by raising awareness of project applicants and designers/contractors, and Level 3 by changing their behavior through requiring specific BMP designs for storm water management. However, right now this BMP is effective at Level 1.

c) Ordinance for Storm Water Design Standards (BMP 5.4)

The City hired a contractor to conduct an ordinance audit of existing City policy, code and ordinances in

Year 1. The intent was to identify areas that relate to the enforcement of storm water objectives and thereby recognize these areas as potential conflicts to a future storm water ordinance. This activity involved staff from all the related City departments and divisions, which effectively raised the awareness (Level 2) of storm water regulations and how they are implemented and/or conflicted.

A storm water ordinance has been drafted, to date, and is scheduled for completion by September 6, 2013. The fact that the City was granted an exemption from the Central Coast Post-Construction Storm Water Requirements (PCRs) in January 2013 and the new General Permit was adopted in February 2013; the City finally has the applicable terms/criteria for the storm water ordinance. Once an ordinance is produced and implemented, it will be effective at Level 3.

d) Update/Implement Post-construction Design Standards and General Plan (BMP 5.5 and 5.9)

- Storm Water BMP Guidance Manual. The City hired a local consultant to produce a Storm Water BMP Guidance Manual in 2008. This effort included an intensive outreach effort to City staff and local design professionals (engineers, architects, builders, etc.) to consider and adopt appropriate design standards and BMPs. Assessing all the staff and public input and studying other existing Guidance Manuals produced by other cities/counties, resulted in the production of the City's Storm Water BMP Guidance Manual, which is tailored to the City's local conditions. The volumetric and flow-based design standards are discussed in detail in Chapter 6 of the Manual, and the BMPs are tailored for different levels of development (referred to as project "tiers"), defined throughout the Manual. This "study" of design standards is effective at Level 2 by raising the awareness of City staff and the public, and at Level 3 by providing a document that specifically changes the common practice of project design to an approach that addresses storm water management and water quality.

- Design Standards for Ministerial Projects. BMPs are currently being implemented into smaller, ministerial projects through the City's design review process. As discussed in BMP 5.2, staff was directed at the end of Year 1 to display SWMP compliance (BMPs) on building permit plans and to include this activity in the City's "Tidemark" tracking system. Tracking the implementation of SWMP requirements, both on paper and electronically, effectively documents this requirement (Level 1), and raises the awareness of both City staff and project applicants (Level 2) of applicable SWMP requirements. These efforts to ensure the implementation of post-construction BMPs inherently changes the behavior (Level 3) of project applicants and their contractors by forcing them to design their project with water quality in mind, rather than simply using traditional designs that often disregard the impacts of polluted storm water runoff.

- Update CEQA Checklist and Standard Conditions of Approval. Staff updates conditions of approval periodically, every year or two. They were updated again in Year 2, and clarifying SWMP requirements have become part of each update. The City's Design Application Review Team (DART) currently uses a City SWMP checklist that was produced in 2006/2007. It is used to guide internal (City) project analysis of impacts associated with storm water. These checklists, mitigations, and conditions all work to raise awareness (Level 2) and change behaviors (Level 3).

- General Plan Update. The City's General Plan was adopted in Year 3 (12-1-11). The Implementation Phase just began in 2012. The new/revised policies regarding water quality include some that are effective now and others that anticipate future actions to develop more standards. Adopted policies to note are ER 15, 16 and 17, which focus on protecting creek resources and water quality, and storm water management policies. This General Plan Update is working to raise awareness, Level 2, and the policies established in the update will eventually work to change behaviors (Level 3). This BMP is currently effective at Level 2.

e) Storm Water Quality Monitoring Program, Microbial Source Tracking, and Biological Assessment

Program (BMPs 5.6, 5.7, and 5.8)

- Storm Water Quality Monitoring. The Storm Water Quality Monitoring Program continues to conduct sampling (effective at Level 1) measuring bacteria, nutrients, and hydrocarbons during storm and dry weather monitoring at several sites. The results are included in the Fiscal Year 2012 Annual Water Quality Report and the FY13 First and Second Quarterly Report. The City's monitoring efforts raise internal staff awareness (Level 2). It is difficult to claim that any improvements in water quality detected through monitoring are a result of the City's SWMP changing behaviors and/or pollutant loads. However, it is a valuable tool to keep staff and the public up to date on the current state of our watersheds.

- Microbial Source Tracking. The Creeks Division and its partner for this project, UCSB, conducted substantial work on the Source Tracking Protocol Development project during 2012; involving extensive GIS modeling, storm drain televising and dye testing, data analysis, and report production. The project is complete and the work has been described in full in a Final report to the State Water Board. Results from this project have led to repair and replacement of sewer line segments that were leaking into storm drains. The City's Wastewater Division is basing their priority list for prophylactic repair and rehabilitation in the Laguna Channel Watershed on the results from this Project. In addition, protocols developed in this project have been incorporated in the Water Board's Source Identification Protocol Project, funded by the Clean Beaches Initiative.

  Therefore, this BMP not only raises awareness (Level 2), it can change how the City manages drainage from a specific location (Level 3), and can reduce pollution to the storm drain (Level 4). This BMP has proven its increased effectiveness by successfully implementing storm drain reconnaissance and uncovering illicit discharges.

- Biological Assessment. The Creeks Division Research and Monitoring Program uses bioassessment to compare the condition of different creek locations, track water quality changes over time, and follow progress of creek restoration projects. Bioassessment is also used to help understand impacts of development, climate variation, and wildfire on water quality and habitat conditions in Santa Barbara creeks. This BMP remains effective at Level 2.

Table F.5 Effectiveness Assessment Summary for Post-Construction Storm Water Management in New and Redevelopment

BMP	Effectiveness Assessment Outcome Levels			
	Level 1	Level 2	Level 3	Level 4
	Implement Program	Increase Awareness	Behavior Change	Load Reduction
Post-Construction BMP Implementation and Tracking	X	X	X	
Enforcement for BMP Compliance	X			

Ordinance	X	X		
Update/Implement Design Standards and General Plan	X	X	X	
Storm Water Monitoring, Microbial Source Tracking, and Biological Assessment	X	X	X	X

MCM 6.0 Pollution Prevention / Good Housekeeping Practices for Municipal Operations

The Municipal Operations Pollution Prevention portion of the Storm Water Management Program is intended to ensure that City operations and the delivery of public services occurs in a manner that protects storm water quality and serves as a good example for the community. The BMPs contained in this minimum control measure require city staff to implement appropriate and effective pollution prevention practices for the various activities that the City conducts.

Collectively, all the BMPs within the municipal operations component of the City's SWMP are effective in increasing awareness among City staff in order to change behavior and ultimately to reduce pollution. Inspections of City facilities helps to demonstrate the awareness levels of City staff through the years and whether or not they are following good housekeeping practices and are implementing pollution prevention measures on a routine basis in order to avoid pollutant loads to the storm drains.

Street sweeping is a large City investment in good housekeeping practices that demonstrates a measurable benefit in reducing pollutant loads. Close to 18,000 curb miles were swept and 1,995 tons of material was collected in Year 4. It is anticipated that these collected loads may increase in future years due to the City's recent installation of debris screens on all catch basin inlets (completed in Year 3). The screens serve as a barrier to trash and landscaping debris during dry weather that would normally fall into the catch basin and storm drain system. These screens require little/no maintenance, as opposed to the older approach of catch basin inserts, and they work hand-in-hand with the existing street sweeping effort of removing pollutants from the street gutters.

The City will continue to explore additional opportunities to improve municipal operations and the effectiveness of BMPs, including partnering with other City businesses, properties, parking lot owners, etc. to target storm water management and good housekeeping improvements.

a) Pollution Prevention Plans (BMP 6.1)

All City Departments/Divisions who conduct operations with the potential to pollute public areas or water quality have implemented pollution prevention plans. These plans focus on storm water pollution prevention and they are reviewed annually and updated periodically. Several pollution prevention plans were updated and reissued in Year 1, raising staff awareness and changing old, potentially polluting activities. This BMP, in combination with annual storm water BMP staff training and city facility inspections, works toward

ensuring staff awareness and model practices. Pollution Prevention Plans are effective at Level 2 when staff is educated about the plans during training, and at Level 3 as staff adjusts their potentially polluting behaviors to comply with the plans and avoid discharging pollutant loads.

b) Staff Training (BMP 6.2)

Training materials are revised every year, as discussed under BMP 6.2. The City's staff training approach has proven effective for raising awareness (Level 2) among staff, as there are always questions and stories shared about personal accounts of witnessing illicit discharges around the City. Calls to the City's storm water hotline always increase after staff trainings, as awareness is refreshed. This results in more opportunities for enforcement staff to educate polluters, thereby changing behaviors (Level 3) and actively reducing pollutant loads (Level 4) that may have been overlooked or not reported before staff was trained.

c) Cleaning, Washing, Trenching, De-watering, Paving and Grinding, Construction Waste Management, Parking Lot Sweeping/Trash Removal, and Service Contracts (BMPs 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 6.16, 6.17, and 6.19)

Many of the BMPs in MCM 6.0 address hands-on, outdoor activities conducted by City staff that have the potential to pollute storm water runoff. The BMPs require a myriad of pollution prevention practices and tools for City staff to employ in these day to day activities in order to avoid sending pollutants to the storm drain. These include using vehicle wash bays that contain pollutants, and hiring washing contractors who commit to capturing and containing runoff. Tracking and maintaining construction areas in the City where potential runoff can occur, and tracking staff hours spent to sweep, wash and vacuum City parking facilities and trash enclosures are BMPs that document compliance and remind staff that they are setting the example for City residents and business owners (effective at Level 2). Maintaining warehouses and inspecting vehicles to ensure they are stocked with supplies for capturing and containing spills is another important pollution prevention practice to prepare City staff for emergency spill response. Together, these BMPs combine to raise staff awareness of how to conduct their work in a way that protects water quality (Level 3). These BMP requirements avoid pollutant loads (Level 4), although these are not directly measurable, and therefore these BMPs are effective at Levels 1, 2, and 3.

d) Storm Drain Inlet Cleaning, Inlet Filter Cleaning, and Inline Storm Filter Maintenance (BMPs 6.11, 6.12 and 6.13)

In 2012, the Streets Division inspected and/or cleaned over 500 drain inlets. Cleaning inlet *filters* is a deleted BMP due to the fact that storm drain filters in the City have been removed. It has become evident that the maintenance of the filters far outweighs the benefits they provide. Catch basin debris screens have replaced filters. Yards of material captured from the new debris screens will be portrayed in BMP 6.15 – street sweeping. Lastly, the City Creeks Division maintains the Haley Street Continuous Deflective Separation (CDS) filter unit and the Parks Yard interceptor. These BMPs are effective at Level 4, pollutant load removal.

e) Annex Yard BMP Maintenance (BMP 6.14)

The Annex Yard is managed by the City's Streets Division. This BMP is currently effective for raising awareness of maintenance issues at this City yard (Level 2) by requiring daily inspections and maintenance. Each year, inspections of this yard result in identifying new and/or ongoing deficiencies, which has resulted in changed management behaviors and new/replaced equipment to correct the deficiencies (Level 3). These physical changes to the Annex Yard have resulted in avoiding specific pollutant loads that previously made their way to the storm drain system, thereby becoming an effective BMP at Level 4.

f) Street Sweeping (BMP 6.15)

As discussed above, street sweeping is a large City investment in good housekeeping that demonstrates a

measurable benefit in reducing pollutant loads (Level 4). Close to 2,000 tons of debris was collected from City street sweeping in Year 4.

g) Integrated Pest Management (BMP 6.18)

Annual reporting on pesticide use has resulted in increased awareness and behavior changes in City staff by implementing pest management efforts which minimize, and in some cases eliminate, the use of pesticides where feasible. Implementation of this program is successful at Level 3.

h) Illicit Discharge Inspections and Elimination (BMP 6.20)

Deficiencies identified in Year 4 inspections are currently being addressed. This process of inspecting city-managed facilities not only raises awareness (Level 2), it forces changed behavior when management deficiencies are identified (Level 3).

i) Portable Toilets Adjacent to Creeks (BMP 6.21)

The portable toilet placed adjacent to Mission Creek demonstrates a high level use, based on the maintenance need to service/clean the facility twice a week. This indicates that this BMP is effective at Level 3 (it's apparently working to change people's habit of using the creek as a restroom) and Level 4 (reducing loads), assuming the waste collected in the toilet would likely be a polluting source to the creek if the toilet was not available there.

Table F.6 Effectiveness Assessment Summary for Pollution Prevention / Good Housekeeping Practices for Municipal Operations

BMP	Effectiveness Assessment Outcome Levels			
	Level 1	Level 2	Level 3	Level 4
	Implement Program	Increase Awareness	Behavior Change	Load Reduction
Pollution Prevention Plans	X	X	X	
Staff Training	X	X	X	X
Cleaning, Washing, Trenching, etc.	X	X	X	
Storm Drain Cleaning and Maintenance	X			X
Annex Yard Maintenance	X	X		
Street Sweeping	X			X
Integrated Pest Management	X	X	X	
Inspections	X	X	X	
Portable Toilets	X		X	X