City of Santa Barbara

STORM WATER MANAGEMENT PROGRAM
2011 ANNUAL REPORT
YEAR 3

Santa Barbara Storm Water Management Program Contact:
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City of Santa Barbara SWMP Annual Report
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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

If yes, report on the implementation of the Design Standards in section E.5 of this Annual Report Form.

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.

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 3 Annual Report (2011) demonstrates effective SWMP implementation and identifies necessary program modifications. The City did not receive comments or requested edits from the Water Board staff this past year, so no responses to comments are included in this Year 3 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 7.0 and 8.0 are the City's Waterfront and Airport Departments' Annual Reports. Section F 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, 2011. Therefore, some of the sections in the report may discuss the implementation of BMPs on a quarterly-basis.

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."

	3-26-2012
Signature of Permittee (legally responsible person)	Date Signed
James L. Armstrong	City Administrator
Name (printed)	Title

E. 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	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 2011, a total of 163 presentations were provided, reaching 4,494 youth.

During the first quarter of 2011 (January-March), a total of 28 presentations were provided to 644 youth. Art From Scrap provided 26 watershed presentations to 590 youth. 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 54 students.

During the second quarter of 2011 (April – June), a total of 82 presentations were provided to 2,138 youth. Art From Scrap provided 77 presentations to 1,969 youth. City staff provided 5 presentations to 169 youth related to the Mission Creek Restoration at the Tallant Road Bridge.

During the third quarter of 2011 (July – September), a total of 16 presentations were provided to 474 youth. Art From Scrap provided all presentations.

During the fourth quarter of 2011 (October – December), Art From Scrap provided a total of 37 presentations to 1,238 students.

Art From Scrap 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. Art From Scrap updates their lesson plans to include new water quality and watershed related issues and topics as needed.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

BMP 1.2 Enrichment-Based Youth Education

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

Status: During 2011, a total of 260 youth participated in enrichment-based youth education programs.

Over the course of 2011, the Youth CineMedia program worked with approximately 100 "at-risk" teens after school to create multi-media projects 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.

During June, July, and August, staff provided 5 presentations to 160 youth participants in the Parks & Recreation Department's Nature Camp. Students visited either the Mission Creek restoration site at the Tallant Road Bridge or the Adams Elementary School Bioswale, where they helped install native plants.

Proposed Modifications: None.

Proposed Year 4 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 2011, a total of 1,898 informational brochures, postcards, and promotional materials were distributed.

During the first quarter of 2011, outreach materials were distributed to a local Brownie Troop conducting a beach clean-up; and, at the Ty Warner Sea Center at Stearns Wharf for Marine Science Career Day.

During the second quarter, outreach materials were distributed at the Looking Good Santa Barbara Community Cleanup; the Earth Day Festival; in the Parks & Recreation main office; to Peabody Elementary School third graders; at the Surfrider Foundation's Ocean Friendly Gardens class; at the Santa Barbara Golf Club's Golfer Appreciation Day; and, at the Greater Santa Barbara Lodging and Restaurant Association's Mixer & Meeting.

During the third quarter, outreach materials were distributed in the Parks and Recreation main office; to Heal the Bay at their request; to Parks & Recreation Nature Campers; at the Creek Week Community Forum; at the Elings Park Dog Festival; and, at the Creek Week Closing Celebration at the Watershed Resource Center.

During the fourth quarter, outreach materials were distributed at the Harbor & Seafood Festival; at Laguna Blanca School's Science Discovery Night; at the After Hours at the Sea Center event; and, by request from a promotion in the monthly E-News.

2011 Totals:

	Q1	Q2	Q3	Q4	Total
"Ocean Begins on Your Street" Brochure	20	108	38	57	**223**
Watershed Guides	6	138	10	5	**159**
Water Quality Enforcement Hotline Magnets	17	128	28	49	**222**
Water Pollution Stickers	27	360	97	156	**640**
Be Kind to Animals Coloring/Activity Books	17	0	14	0	**31**
Creek Tree Program Flyers/Applications	0	14	6	3	**23**
Clean Water Business Program Flyers/Applications	0	3	0	1	**4**
Pest or Pal Coloring/Activity Books	0	45	12	38	**95**
Watershed Aerial Posters	0	15	21	39	**75**
"I Care About Creeks" Pencils	0	179	64	91	**334**
"Homeowners Guide to Managing Stormwater" BMP Brochures	0	2	0	0	**2**
"Home Improvement & Healthy Creeks" Brochures	0	0	50	0	**50**
Dog Waste Bag Dispensers	0	0	37	3	**40**

Proposed Modifications: None.

Proposed Year 4 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: During 2011, a total of 38 Spanish-language informational brochures.

During the first quarter of 2011, Spanish-language outreach materials were displayed in the Parks & Recreation main office.

During the second quarter of 2011, outreach materials were distributed at the Looking Good Santa Barbara Community Cleanup; 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.

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

2011 Totals:

	Q1	Q2	Q3	Q4	Total
"Ocean Begins on Your Street" Brochure (Spanish)	20	13	1	4	**38**

Proposed Modifications: None.

Proposed Year 4 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: During 2011, a total of 148 Clean Water Business Program brochures were distributed, and 20 businesses were certified.

During 2011, a postcard promoting the Clean Water Business Program was mailed out to 139 local restaurants and mobile washers.

During 2011, brochures promoting the Clean Water Business Program were distributed at various community events, including the Earth Day Festival (3) and the Harbor & Seafood Festival (1).

Brochures were also given to 5 businesses through enforcement actions throughout the year.

During 2011, a total of 20 businesses were certified, including 19 restaurants and 1 automotive business.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Status: During 2011, 53 copies of the new Home Improvement brochure were distributed.

In May 2011, staff prepared a new brochure called "Home Improvement and Healthy Creeks" in both English and Spanish. The brochure includes information on how to properly prepare, use, and dispose of common home improvement materials like cement products and paint, and provides tips to prevent pollution from reaching local storm drains and creeks. Copies of both English and Spanish versions of the brochure are kept in the enforcement vehicle for distribution to community members contacted through enforcement actions, and brochures will be distributed at community events when appropriate.

During the third quarter, 50 brochures were distributed to Heal the Bay at their request; and, 3 brochures were distributed through enforcement actions.

Proposed Modifications: None.

Proposed Year 4 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 16-17. 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 4 Activities: Ongoing.

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

Status: The 12th annual Creek Week took place September 17th – 25th. Over 1,500 community members participated in 27 events throughout the week, including the 27th annual Coastal Cleanup Day on September 17th.

The Creeks Division partnered with local organization COAST (Coalition for Sustainable Transportation) to host a walk along Mission Creek from the recently completed Mission Creek Restoration at the Tallant Road Bridge to the Mission Creek Fish Passage Project at the Upper Caltrans Channel, discussing both projects and other water quality and restoration issues. The Creeks Division hosted a community forum featuring local historian Neal Graffy, who spoke about early Santa Barbarans and their search for clean water and impacts on local creeks. The Creeks Division also hosted a restoration work day at the Mission Creek Lagoon at East Beach, where volunteers removed invasive weeds from the Lagoon.

Proposed Modifications: None.

Proposed Year 4 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: During 2011, total of $1,500 in sponsorship was provided to the Green Gardener Program, and 56 gardeners completed the training.

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 56 program graduates in 2011.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Status: During 2011, a total of 6 additional events were attended.

Staff attended and presented information at the Looking Good Santa Barbara Community Cleanup on April 9; the Creek Week Closing Celebration at the Watershed Resource Center on September 25; at the Elings Park Dog Festival on September 25; at the Harbor & Seafood Festival on October 8; at Laguna Blanca School's Science Discovery Night on October 27; and, at the After Hours at the Sea Center event on November 3.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

BMP 1.5 Storm Drain Marking

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

Status: During 2011, a total of 89 storm drain markers were inspected, cleaned, or replaced.

On April 9, as part of the annual Looking Good Santa Barbara Community Cleanup, volunteers evaluated 48 existing storm drain markers, replaced 2 markers, and installed 16 new markers in the Eastside neighborhood.

In October, staff inspected 14 existing storm drain markers, replaced 3 markers, and installed 6 new markers along Sycamore Creek during a creek clean-up.

Proposed Modifications: None.

Proposed Year 4 Activities: Staff will work to engage more volunteers in storm drain marking efforts.

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: During 2011, over 12 English information pieces were provided, reaching well over 5,000 residents.

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), 222 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), 223 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).

Proposed Modifications: None.

Proposed Year 4 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: During 2011, a total of 5 Spanish-language information pieces were distributed.

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), 38 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.

Proposed Modifications: None.

Proposed Year 4 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: During 2011, a total of 36 community members participated in 2 neighborhood volunteer programs.

On September 22, a total of 25 community volunteers and employees from Horny Toad Clothing participated in a restoration at the Mission Creek Lagoon at East Beach, where they removed non-native weeds from the area.

On October 15, a total of 11 volunteers participated in a clean-up of Old Mission Creek at Bohnett Park in the Westside neighborhood, where they removed 89 pounds of trash and debris from the creek and park.

Proposed Modifications: None.

Proposed Year 4 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: During 2011, one potential strategy was identified but not implemented; and, an ongoing "Clean Creeks Pledge" was implemented at all community events.

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 2011, 65 community members took the Clean Creeks Pledge at public events.

In 2011 the Creeks Division considered a targeted outreach effort to encourage dog owners to pick up after their pets. The intent was to have dog owners at the Elings Park Dog Festival make a pledge card to "Scoop the Poop" with their dog's paw print on it, the dog's name, and the owner's name, which would then be pasted to a larger pledge poster, which in turn would be run as a print ad in a local paper. This would leave the names relatively anonymous (if people did not want to include their last name, they would not be required to), but would still be a public commitment with the poster displayed the day of, and the ad published following the event. However, staff decided that creating the dog paw prints would pose a logistical challenge at the event, which would require at least two staff members (there were two events happening the same day at the same time, with limited staff available). Instead, event visitors were asked to sign a pledge sheet, and received a refillable dog bag dispenser when they did. Staff may revisit the dog paw print idea at a later date.

Proposed Modifications: None.

Proposed Year 4 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: During 2011, the website was updated at least quarterly (more often as-needed), the website was advertised on more than 12 information pieces, and the number of web hits decreased by 4%.

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.

During the second quarter, a new Creek Week webpage was setup to include information on the 2011 event, which was updated throughout the end of September following the event.

During the third quarter of 2011 a new page was created about the MacKenzie Parking Lot Stormwater Infiltration Project. The catch basin screens page was updated to reflect the project's completion.

During the fourth quarter, the Mission Creek Fish Passage page was updated. The Fiscal Year 2011 Water Quality Report was also added to the website.

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 1,475 hits during the first quarter; 1,418 during the second quarter; 2,542 during the third quarter; and 1,247 during the fourth quarter. The 2011 total was 6,682, a decrease of 4% from the 2010 total of 6,982 hits. In 2011 the Creeks Division also created a Facebook page and a YouTube page, in order to reach out to community members online in places other than the website. In 2012, the City will begin a redesign of the entire website, aimed at making the site more dynamic and easier to update and navigate.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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 Year 3, 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 in 2011. However, staff has found that the restaurants and mobile washers continue to offer the largest amount of businesses in Santa Barbara that need the most training and outreach help. 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). In other words, restaurants and mobile washers appear to have the most potential for impacting storm water quality through their business activities, and therefore staff feels the City gets the strongest "bang for the buck" with staying focused on this large commercial business sector.

Proposed Modifications: None.

Proposed Year 4 Activities: Continue focus/outreach on the restaurant and mobile business sector in Year 4, 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: An estimated 35,000 listeners per month were reached on English radio stations. Public service announcements aired monthly on local Rincon Broadcasting stations KSBL 101.7 FM, KFYZ 94.5 FM, and KDB 93.7 FM.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Status: An estimated 19,600 listeners per month were reached on Spanish radio stations. Public service announcements aired monthly on local Spanish-language Rincon Broadcasting stations KIST 107.7 FM and KSPE 1490 AM.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Status: An estimated 130,000 viewers were reached per month on television. 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 4 Activities: Ongoing.

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

Status: A total of 23 display ads were run in 2011.

Display ads were included in the Parks & Recreation Spring (1) and Fall (2) Activity Guides. In September, ads were run in *CASA Magazine* (3, 4). Print ads were placed in *The Independent* in January (5), February (6), May (7), July (8), October (9), and December (10). Display ads were placed in a local high school's theater production programs (11, 12), 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 (13), and on the exteriors of 10 buses during the summer months (14). Display ads were created to promote Creek Week, and ran in *The Daily Sound* (15, 16, 17, 18), *The Independent* (19, 20, 21), and in the City's water billing insert *City News in Brief* (22), which is mailed to all water users in the City. Another display ad was placed in the *City News in Brief* promoting the water pollution enforcement hotline (23).

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Status: A total of 5 Spanish-language display ads were run in 2011.

A Spanish language display ad, designed by Youth CineMedia, ran twice per month 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).

Proposed Modifications: None.

Proposed Year 4 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 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 likely be conducted in 2013 to gauge community awareness and to refocus the Creeks Division's education and outreach efforts.

Proposed Modifications: None.

Proposed Year 4 Activities: None?

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		

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
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: During 2011, there were 12 publicly noticed meetings of the Creeks Advisory Committee.

Regular Meetings were held on January 19, February 16, April 20, May 18, June 15, and December 14. A Special Meeting of the Committee was held on October 26. The Budget Subcommittee met on January 27 and March 24. Site Visits were held on March 16, July 20, and September 21.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Status: During 2011, there were 26 airings of Creeks Advisory Committee Meetings, and all televised meetings were archived online.

The January 19 Creeks Advisory Committee meeting was broadcast live, and aired again three times (January 19, 21, and 22). The February 16 meeting was broadcast live, and aired again five times (February 18, 19, 25, 26, and March 16).

The April 20 meeting was broadcast live, and aired again twice (April 22 and 29). The May 18 meeting was broadcast live, and aired again three times (May 20, 21, and 27). The June 15 meeting was broadcast live, and aired again three times (June 17, 24, and 25).

The December 14 meeting was broadcast live, and aired again four times (December 16, 19, 23, and 26).

Due to room scheduling conflicts, the Special Meeting of October 26 and the Budget Subcommittee Meetings of January 27 and Mach 24 were held in rooms that did not allow for televising the meetings. The Site Visits of March 16, July 20, and September 21 were also 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.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Status: All 12 meeting postings in 2011 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 4 Activities: Ongoing.

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

Status: Meeting agendas were provided to a total of 339 community members in 2011.

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 2011, there were 284 people on the email notification list and 55 people on the regular (hard copy) mailing list, for a total of 339 community members receiving meeting agendas.

Proposed Modifications: None.

Proposed Year 4 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 18 meeting.

Proposed Modifications: None.

Proposed Year 4 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 2011 (held at the Watershed Resource Center at the County's Arroyo Burro Beach).

Proposed Modifications: None.

Proposed Year 4 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 2011 (held at the Cachuma Lake public meeting room and/or in Solvang City Chambers).

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

BMP 2.4 Community Forum on Water Quality Issues

Measurable Goal 2.4a: *1 meeting.*

Status: The 2011 "Search for Water" Community Forum took place on Tuesday, September 20, as part of the annual Creek Week celebration. Local historian Neal Graffy provided a presentation covering a broad history of community members and their changing relationships with, and reliance on, local creeks.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Status: The Community Forum was aired in English a total of 25 times.

The "Search for Water" Forum aired on City TV Channel 18 on September 28 and 30; October 1, 2, 6, 8, 11, 13, 19, 22, 24, 25, 29, and 31; November 5, 8, 10, 18, 19, 22, 28 and 29; and, December 3, 6, and 26. It was also archived online at www.sbcreeks.com.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Status: The Community Forum was aired in Spanish a total of 4 times.

The "Search for Water" Forum aired on City TV Channel 18 in Spanish on October 13, 19, and 23; and, November 20. It was also archived online at www.sbcreeks.com.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Status: The Community Forum was promoted through more than 12 postings.

The "Search for Water" community forum took place during Creek Week, so promotion for the event was included in all Creek Week advertising and promotion (7).

Approximately 1,000 postcards were distributed throughout the community (8), and the event was added to various online community calendars (9). An email newsletter went out to over 500 Creeks Division E-News subscribers promoting the event (10). Full Creek Week schedules were also distributed throughout the community (11), and posted online (12).

Local weekly newspaper *The Independent* also selected the presentation as a "Best Bet" for the week.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Status: A total of 6 ads were placed in local newspapers promoting the event.

A full page Creek Week ad featuring the event, and another quarter page ad were placed in *The Independent* (weekly publication), and two full page ads and two quarter page ads were placed in *The Daily Sound* (daily publication).

Proposed Modifications: None.

Proposed Year 4 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.*

Status: 268 volunteers participated in creek clean-ups, beach clean-ups, and/or invasive plant removal along creeks in 2011. A total of 5 community members have signed up to do volunteer storm monitoring.

- On April 9, 6 volunteers participated in a clean-up of Sycamore Creek.
- On April 29, 50 students from Garfield High School in Los Angeles participated in a beach clean-up on East Beach.
- On September 22, a total of 25 employees from Horny Toad Activewear and community volunteers

removed invasive plants from the Mission Creek Lagoon and East Beach.

- On October 15, 12 community volunteers participated in a clean-up of Old Mission Creek at Bohnett Park.

- On November 13, 12 sailors from the USS Milius participated in a beach clean-up at the Mission Creek Lagoon.

- Annual creek clean-ups were held in October and November with staff and community volunteers, for a total of 8 participants over 2 days.

- The Creeks Division also coordinates local Adopt-a-Beach activities, which included a total of over 155 volunteers at 17 beach clean-ups throughout the year.

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 2011.

Proposed Modifications: None.

Proposed Year 4 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 2011 to reflect storm drain retrofits and/or alterations:

- Added new engineered pipes, one engineered channel and one private drop inlet along Jorgensen Ln. The new Pipe is P-G04-22 & 23. The channel CH-G04-23. The drop Inlet DI-G04-36. All are private.
- Cabrillo Blvd: After reviewing the data, it appears that only the elevation/ invert data of the storm inverts need updates. Only those storm pipes which had material and size were updated.
- Corrected storm data at Sola and Chino St.: Removed existing main line work, added new line work, but kept the existing main ID's for the line work. Updated the elevation data for the catch basins and the manhole.
- Cal Trans plan for Hot Springs Roundabout: Removed the Catch Basin along Coast Village Rd mall entrance. Relocated the pipe P-M09-38 to connect between the north side and south side of Coast Village Rd from CB-M09-08 to N-M09-01.

Proposed Modifications: None.

Proposed Year 4 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 100% call response within 24 hours in 2011. 222 calls and complaints of illicit discharges and other potentially polluting activities were received in 2011. All were responded to within 24 hours. A break-down of calls/reports per quarter is below.

A total of 48 enforcement calls were received in the 1st quarter of 2011. A total of 65 enforcement calls were received in the 2nd quarter of 2011. A total of 71 enforcement calls were received in the 3rd quarter of 2011. A total of 38 enforcement calls were received in the 4th quarter of 2011.

Proposed Modifications: None.

Proposed Year 4 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 limited success, to date. Creeks Division staff mails response cards to complainants when their contact information (address) is provided. However, only six addresses were provided in 2011, so only six response cards were mailed out by enforcement staff. Only one response card was returned. The comment on this card read, "Thank you for your concern."

Proposed Modifications: None.

Proposed Year 3 Activities: Incorporate suggestions received from response cards.

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

Status: Appropriate enforcement and resolution was pursued throughout 2011. Of the 222 enforcement calls/complaints received in 2011, 89 warranted a Notice of Violation (NOV) and 10 citations were used (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 issued described the violation and required a clean-up remedy if applicable. NOVs 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 total in 2011, the items removed from creek locations by ServiceMaster during these clean ups weighed 106,680 lbs.

Proposed Modifications: None.

Proposed Year 4 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 once the Regional Water Quality Control Board completes the hydromodification control numeric criteria.

Proposed Modifications: None.

Proposed Year 4 Activities: Continue to participate in the Region 3 Joint Effort for Hydromodification Control to determine the numeric criteria that will ultimately become a part of the City's future storm water ordinance.

Measurable Goal 3.3b: *4 meetings.*

Status: Due to the Water Board's revised Joint Effort for Hydromodification Control schedule, meetings will be held in Year 5, as the ordinance is drafted. The meetings will solicit staff and public input in order to tailor an appropriate/effective storm water ordinance.

Proposed Modifications: None.

Proposed Year 4 Activities: Continue to participate in the Region 3 Joint Effort for Hydromodification Control to determine the numeric criteria that will ultimately become a part of the City's future storm water ordinance.

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, after the Region 3 Joint Effort for Hydromodification Control determines the numeric criteria for storm water management requirements.

Proposed Modifications: None.

Proposed Year 4 Activities: Continue to participate in the Region 3 Joint Effort for Hydromodification Control to determine the numeric criteria that will ultimately become a part of the City's future storm water ordinance.

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: 222 field investigations were conducted in 2011, 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 4 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 4 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: Both notices were dated 1-24-11. Upon completion of construction at the two wells in 2010, the City filed Notices of Termination for these projects. 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 for a separate permit 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: None.

Proposed Year 4 Activities: Ongoing.

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 4 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 2011:

1. 1900 Lausen Rd. and 2020 Alameda Padre Serra (Riviera Theatre/Park)
2. 17 S. Milpas St. (Trader Joes/Milpas Center)
3. 220 N. Milpas St. (Scolari's Shopping Center)
4. 633 E. Cabrillo (Fess Parker Hotel)
5. 3303 State St. and 3311 McCaw Ave. (Loretto Plaza)

All of the inspections with the property managers resulted in follow-up steps to improve storm water management and water quality protection, onsite. These included getting new lids for used fry-oil containers, labeling storm drain inlets ("no dumping"), educating business owners about the City's Business Assistance Program (i.e. grants to purchase wet/dry vacs and berms to contain wash water and/or spills), and cleaning up storage yards (that are open/no roofs) and repairing roof covers for storage/containment areas. One follow-up action resulted in inspecting and certifying Scolari's (shopping center) deli/food service department as a "Clean Water Business," and providing them with a wet/dry vacuum and vacuum-berm for containing their wash water.

Proposed Modifications: None.

Proposed Year 4 Activities: 5 commercial facilities will be inspected in Year 4 and staff will work to correct any detected runoff issues.

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 4 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 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 44 parking lots of 5000 sq. ft. or greater in 2011. Illicit discharge complaints were the reason for all of these inspections. Twenty-five of these inspections resulted in a NOV for confirmed illicit discharges. Inspections of the other 19 parking lots revealed that the complaints were actually exempt discharges. For the exempt discharges, the tenants were still reminded about BMPs for parking lot washing and other activities and that only clean water discharges are allowed.

Proposed Modifications: None.

Proposed Year 4 Activities: Monitoring parking lots will continue in Year 4.

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 4 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 4 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 4 Activities: None. BMP is 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 a one hour of training related to SWMP implementation and storm water BMPs in 2011 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 3 (2011), Creeks Division created a power point presentation that began with asking staff questions they should already know about storm water management in order to assess where staff's weaknesses and/or needs for further training on storm water management lie. The presentation reviewed storm water management BMPs applicable to each City department and/or division. 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 4 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			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.*

Status: Of all projects submitted in 2011, 10 projects were reviewed for "detailed" erosion control plans and 43 projects were reviewed for "standard" erosion control plans, as required by the Erosion/Sedimentation Control Policy. 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 policy.

In addition to "detailed" and "standard" erosion control plans, many other projects include 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 4 Activities: Ongoing.

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

Status: As stated above, 53 projects were reviewed (meaning Erosion Control Plans or "ECPs" were reviewed) in 2011 for erosion/sedimentation BMP compliance on plans, and 100 % compliance was attained in 2011. Although this number is significantly lower than 2010, the number reflects a change in the reporting method. New reporting only identifies projects required to submit erosion control plans as is outlined in the policy. However, Building & Safety still reviews all projects for potential erosion/sedimentation control issues.

The 2011 report of erosion control inspections documents 483 field inspections specific to erosion control in 2011. Of those 483 inspections, 49 correction notices and/or warnings were issued. No "stop work orders" were warranted in 2011. Of the 49 correction notices/warnings, some shared the same address, so this translates to less than approximately 10% of the construction sites requiring BMP improvements or fixes in 2011, resulting in 100% eventual compliance.

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

Proposed Year 4 Activities: Ongoing.

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

Status: The City Building Department exceeded this measurable goal in 2011 by conducting weekly Building Division inspection meetings where many pertinent inspection topics were covered. Leading up to and during the rainy season, the topic usually centers on erosion/sedimentation control. These weekly meetings last for 1 hour. There is a training topic each week and then time for questions and peer review of issues. 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 4 Activities: Ongoing.

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

Status: The current position of the City's Building Department regarding this BMP/Measurable Goal is as follows:

The City's erosion and sediment control policy was originally established in 2003 and has been updated as more effective BMP's have been developed. Current indications are that by leaving the details of BMP selection in a policy, rather than an ordinance, allows each development application to select BMPs that are the most effective for that specific project. Binding these details into an ordinance would not allow for the easy addition of new BMP's as they are developed and would require language so vague to provide a "one-size-fits-all" ordinance that would be ineffective.

Proposed Modifications: This measurable goal should be moved to Year 4, due to the Joint Effort for Hydromodification Control and the ordinance changes it will require. Those provisions should be clear before the City can effectively evaluate the need for revising the existing ordinance language regarding erosion and sediment control.

Proposed Year 4 Activities: The need for an ordinance will be formally reviewed in Year 4.

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

Measurable Goal 4.2a: *Approval of Workplan.*

Status: Due to the Region 3 Joint Effort for Hydromodification Control and the ordinance changes that effort will ultimately require; the City's Building Department will not formally review the code (Chapter 22, Section J111) until the results of the Joint Effort are determined and the City's storm water ordinance is being drafted.

Proposed Modifications: This measurable goal should be moved to Year 4, due to the Joint Effort for Hydromodification Control and the ordinance changes it will require. Those provisions should be clear before the City can effectively evaluate ordinance language pertaining to storm water runoff control and erosion/sedimentation control.

Proposed Year 4 Activities: Develop work plan once the City's storm water ordinance is being drafted.

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

Status: See proposed modification, below.

Proposed Modifications: This measurable goal should be moved to Year 4, due to the Joint Effort for Hydromodification Control and the ordinance changes it will require. Those provisions should be clear before the City can effectively evaluate ordinance language pertaining to storm water runoff control and erosion/sedimentation control.

Proposed Year 4 Activities: See above.

Measurable Goal 4.2c: *4 meetings.*

Status: See proposed modification, below.

Proposed Modifications: This measurable goal should be moved to Year 4, due to the Joint Effort for Hydromodification Control and the ordinance changes it will require. Those provisions should be clear before the City can effectively evaluate ordinance language pertaining to storm water runoff control and erosion/sedimentation control.

Proposed Year 4 Activities: See above.

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

Status: Currently, compliance with appropriate BMP selection and proper installation is ensured by not allowing the project to continue without the required criteria being met. This is a much bigger "hammer" than simple fines which would be passed on to the project developer by the contractor and would not ensure continued compliance.

Proposed Modifications: *(Already proposed last year):* The City Building Department proposes to delete this Measurable Goal. The required criteria that results from the current Joint Effort for Hydromodificaton Control will dictate how the City modifies existing ordinance language. A new or modified ordinance for erosion and sediment control may or may not be needed. The Measurable Goals previous to this one (4.1a, b, c, and d, and 4.2a, b, and c) already require that the City evaluate current policy language and ordinance effectiveness and make a decision about whether or not there are needed improvements. Having a measurable goal that requires ordinance adoption for erosion/sedimentation control (beyond what already exists in Chapter 22, Section J111), is not an appropriate goal, since this may not be an effective outcome.

Proposed Year 4 Activities: None.

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.*

Status: All sites with an active building permit and with exposed soil/grading received BMP inspections prior to October 15th, 2011 and/or within the first week of work.

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.

As of 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.

There were 483 erosion-control related inspections for 2011 and actual numbers are higher due to overlap of erosion control inspections during the building inspector's typical day in the field.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: 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 4 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.*

Status: Zero enforcement cases related to erosion control issues were reported by the Building Department in 2011. 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 4 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.*

Status: Information was provided to contractors, architects, engineers, designers, and city staff in the form of an email to the local American Institute of Architects, Santa Barbara Contractors Association, and also in an existing Land Development Team email bulletin in 2011. Information in the email included links to the cabmphandbook*s*, the City's SWMP document and City's Erosion & Sedimentation Control Policy.

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 2011 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 4 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.*

Status: 100% of all City inspectors were trained in 2011. 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 4 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. (Begin implementation by end of Q9 of Joint Effort – Actual Date TBD).		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				

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. (Complete by end of Q4 of Joint Effort – Actual Date TBD).		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. (Complete by end of Q8 of Joint Effort – Actual Date TBD).		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. (Complete by end of Q2 of Joint Effort – Actual Date TBD).		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. (Complete by end of Q8 of Joint Effort – Actual Date TBD).		X				
	5.5.1e	Apply LID principles and features to all applicable new and redevelopment projects. (Apply from Q2 through Q8 of Joint Effort – Actual Dates TBD).		X				

Activity	*BMP*	*Description/Implementation*	*Status*					
			Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
	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. (Complete by end of Q9 of Joint Effort – Actual Date TBD).		X				
Storm Water Quality Monitoring Program	5.6	Implement monitoring program and update/revise annually.	X			X		
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 60 projects required "Tier 3" post construction storm water BMPs to be included/implemented into project plans during 2011 (Year 3):

1110 Alameda Padre Serra
1321 Alameda Padre Serra
401 Alston Rd
602 Anacapa St
40 E Anapamu St
1700 E Cabrillo Blvd
800 Cacique St
1229 Calle Cerrito Alto
909 Calle Cortita
731 Litchfield Ln
2409 Medcliff Rd
2547 Medcliff Rd
1717 Mira Vista Ave
1724 Mira Vista Ave
1233 Mission Ridge
135 Morada Ln
460 Mountain Dr
114 Natoma Ave

900	Calle de los Amigos
621	Calle Del Oro
30	Camino Alto
127	Canon Perdido St
822	E Canon Perdido St
902	Chapala St
902	Chapala St A
1255	Coast Village Rd
1465	Crestline Dr
1820-1826	De La Vina
1925	El Camino De La Luz
215	E Figueroa St
1128	Harbor Hills Ln
225	E Haley St
709	E Haley St
457	N Hope
1122	Indio Muerto St
104	Jorgensen Ln
702	Laguna
1117	Las Alturas Rd
150	S La Cumbre Rd
22	Nicholas Ln
317	Northridge Rd
401	Old Coast Hwy
103	Ontare Hills Ln
108	Ontare Hills Ln
1580	Oramas Rd
652	Ricardo Ave
1202	Shoreline Dr
1423	Shoreline Dr
1519	Shoreline Dr
1547	Shoreline Dr
101	State St
125	State St
424	State St
1216	State St
1722	State St
1936	State St
1651	Sycamore Canyon Rd
2550	Treasure (Samarkand)
23	Wade Ct
	Highway 101 Improvements Project

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 80 projects had "Tier 2" basic storm water BMPs included/implemented into project plans during Year 3:

1425	Alameda Padre Serra
1507	Alameda Padre Serra
130	S Alisos St
1417	Almond Ave
42	Alston Pl
901	Alston Rd
131	Anacapa St
735	W Arrellaga St
301	W Cabrillo
2465	Calle Almonte
1224	Calle Cerrito
2425	Calle Galicia
4200	Calle Real
3439	Campanil Dr
100	Castillo
1538	Manitou Rd
117	W Mason St
2417	Medcliff Rd
912	Medio Rd
3750	Meru Ln
508	E Micheltorena St
524	E Micheltorena St
421	S Milpas St
612	W Mission St
1404	Mission Ridge Rd
1900	Mission Ridge Rd
602	E Montecito St
1226	E Montecito St
207	Morada Ln
221	Oliver Rd
917	Paseo Ferrelo

163	Cedar Ln
707	Chiquita Rd
849	Cima Linda Ln
1039	Cima Linda Ln
1045	Cima Linda Ln
654	Circle Dr
1040	Coast Village Rd
1465	Crestline Dr
1205	Del Mar Ave
260	Eucalyptus Hill Dr
517	W Figueroa St
501	E Gutierrez St
435	E Haley St
1024	E Haley St
821	Jimeno Rd
3831	La Cumbre Hills Ln
222	La Marina Dr
555	La Marina Dr
1815	Laguna St
242	Las Alturas Rd
300	Las Alturas Rd
118	& 122 Los Aguajes
3134	Lucinda Ln
1436	Manitou Rd
2914	Paseo Tranquillo
215	Pesetas Ln
1020	Placido Ave
1512	Portesuello Ave
137	Rametto Rd
2323	Red Rose Way
101	N Salinas St
1422	San Miguel Ave
237	San Nicolas
1519	Shoreline Dr
602	E Sola St
111	State St
1201	State St
3761	State St
3851	State St
638	Sutton Ave
1790	Sycamore Canyon Rd
66	Tierra Cielo Ln
2550	Treasure Dr
652	E Valerio St
101	E Victoria St
48	Vista Del Mar Dr
1121	Walnut Ave
520	E Yanonali St

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 4 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. A total of 140

projects within the City implemented post-construction BMPs in Year 3. The City's Planning Division developed new/additional protocols and procedures in 2009 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:

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 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 4 Activities: BMP requirements and implementation for projects may change in Year 4 due to the State's upcoming new General Permit and the RWQCB's Joint Effort for Hydromodification Control. Staff is anxious to understand how these new requirements will impact the City's Storm Water Management Program.

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 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 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 have conditions for storm water BMPs. Enforcement actions will ensue in the future if/when compliance is not achieved.

Proposed Modifications: None.

Proposed Year 4 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 will be drafted after the current Regional Board's Joint Effort for Hydromodification Control concludes. This Effort will determine the terms/criteria for the storm water ordinance.

Proposed Modifications: Begin implementation by end of Q9 of Joint Effort – Actual Date TBD.

Proposed Year 4 Activities: See above.

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 4 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 will commence once the Regional Board's Joint Effort for Hydromodification Control concludes. A final ordinance will be drafted and adopted once the City has the necessary terms/criteria that should result from the Joint Effort.

Proposed Modifications: Begin implementation by end of Q9 of Joint Effort – Actual Date TBD.

Proposed Year 4 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 identified and applied to new and redevelopment projects once the City has the necessary terms/criteria that should result from the Joint Effort.

Proposed Modifications: Begin implementation by end of Q9 of Joint Effort – Actual Date TBD.

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 is currently participating in the Water Board's Joint Effort for Hydromodification Control. Staff attended the Central Coast Joint Effort for Hydromodification Control Workshop #1 in Santa Maria on February 16, 2012. Staff also plans to attend the subsequent workshop (#2) this spring, 2012.

Proposed Modifications: None.

Proposed Year 4 Activities: Continue to participate in the Water Board's "Joint Effort for Developing Hydromodification Control Criteria" to determine final standards for volumetric and flow-based treatment control design standards.

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 will be identified and applied to new and redevelopment projects once the City has the necessary terms/criteria that should result from the Joint Effort.

Proposed Modifications: None.

Proposed Year 4 Activities: Continue to participate in the Water Board's "Joint Effort for Developing Hydromodification Control Criteria."

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 4 Activities: Continue to participate in the Water Board's "Joint Effort for Developing Hydromodification Control Criteria" to determine final standards for volumetric and flow-based treatment control design standards.

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 4 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 4 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 4 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 measurable goals for this BMP will be implemented and reported in subsequent years, once the Joint Effort for Hydromodification Control determines the necessary criteria and applicability thresholds.

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 throughout 2011. The Storm Water Quality Monitoring Program targeted bacteria, nutrients, and hydrocarbons during dry weather monitoring at several 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. In addition, the Creeks Division conducted storm monitoring to test for pollutants levels during the Fall 2011 "First Flush" and during two additional storms to test the performance of the City's Upper Las Positas Creek Project at the municipal Golf Course.

Some 2011 water quality monitoring results are included in the Fiscal Year 2011 Annual Water Quality Report, and others will be included in next year's Fiscal Year 2012 report. The reports can be accessed on the City's website at:
http://www.santabarbaraca.gov/Resident/Community/Creeks/Reports_and_Studies.htm

A summary of select results from the FY 2011 Report include:

1. **Sediment Testing:** Results showed no increase, or elevated levels, of PAHs or metals in outfall or creek sites. However, bifenthrin was found at concerning levels in Arroyo Burro Estuary, Laguna Channel, and Old Mission Creek at W. Anapamu. The Creeks Division will continue to address the issue of pyrethroid pesticides in outreach efforts. Sediment toxicity testing showed no acute toxicity in outfall or creek sites, suggesting that pyrethroids are bound to sediment grains and are not generally bioavailable to bottom-dwelling organisms. However, during storm events, sediments can be suspended and contaminants can become available and toxic to organisms.
2. **Sycamore Creek sodium and chloride:** Sycamore Creek was listed as an impaired water body for sodium and chloride in 2010. The Creeks Division examined data from previous sampling efforts

and conducted a creek walk and determined that levels of sodium and chloride are elevated in the upper watershed. Reasons may include groundwater upwelling through marine deposits, illicit discharge to the creek, or agricultural runoff. Additional investigation will take place in 2012.

3. **Street Slurry Sealing:** The roads of Santa Barbara are on a five to eight year rotating schedule for reapplication of slurry sealant, resulting in a large number of roads resealed each year. Washington State and several cities have banned the use of coal-based road sealants due to high levels of toxic polycyclic aromatic hydrocarbons (PAHs) in runoff from sealed surfaces. In California, asphalt-based seal is used. While posing a lesser water quality risk than coal sealant, the asphalt based sealant became a concern for the Creeks Division based on anecdotal evidence of foaming on freshly sealed streets during rain events. In the summer of 2010, the Creeks Division continued the exploration of the impact of asphalt road slurry seals on water quality that it had started in October 2009. The Creeks Division wanted to further investigate whether the sealing of streets leads to pollution in creeks, due to rain runoff over surfaces and excess contaminated sediment material reaching creeks. The October 2009 pilot project showed a higher level of toxicity in simulated runoff from a recently sealed road compared to a control site, and higher levels of PAHs in swept sediments from the slurry site compared to a control site. The Summer 2010 study expanded the 2009 pilot project to include three testing sites. The study was conducted with the assistance of a water quality intern, with advisory input from Dr. Arturo Keller (UCSB). Preliminary results of the Summer 2010 testing suggest that runoff from recently slurried roads may have high levels of toxicity and high levels of methyl blue active substances (MBAS, indicating anionic surfactants), though control sites also had high levels of MBAS. Only one site had detectable PAHs after the roads were resealed. Due to methodological difficulties, results from toxicity testing were statistically inconclusive. However, results suggest that early runoff from recently sealed sites can be highly toxic, with the effect diminishing during later runoff.
4. **Beach Water Quality:** Arroyo Burro Beach had frequent warnings during summer 2010 due to indicator bacteria levels, and the beach was singled out by Heal the Bay for poor water quality. Reasons for the warnings were addressed in the FY2010 Annual Report. Since summer 2010, warnings at Arroyo Burro Beach have decreased considerably, with the exception of typically high levels found during wet weather.
5. **Upper Las Positas Storm Water Management Project:** Storm sampling suggested that indicator bacteria concentrations may decrease between the project inflow and outflow sites. Additional testing during 2012, using paired sampling, will be required to obtain statistically significant results.

Based on results from the Fiscal Year 2011 Water Quality Report, several changes were made to the Fiscal Year 2012 Research and Monitoring Plan, including:

1. Adding creek sites to sediment sampling events, including sediment directly below storm drain outfalls.
2. Adding an investigation of salinity in Sycamore Creek, due a recent listing on the on the 303(d) list of impaired water bodies.
3. Addition of toxicity testing with algae species in Mission Creek during dry weather, to support the investigation of the 303(d) impairment for “Unknown Toxicity.”
4. Addition of several water quality and restoration projects, including fish passage and parking lot retrofit projects, post-construction BMP assessment, and Mission Lagoon, to sampling efforts for evaluating project effectiveness.
5. Sampling of groundwater discharge (sump pumps) to storm drains for organic contaminants.
6. Preliminary testing for impacts of recycled water irrigation runoff on creeks, including nutrients, salts, and pharmaceutical products.
7. Developing a test kit for enforcement activities, including methods to test quickly for nutrients, hydrocarbons, chlorine, bromine, and some metals.

The following includes results of interest from Fiscal Year 2012 that will be included in the Fiscal Year 2012 Water Quality Report:

1. **Upper Las Positas Storm Water Management Project:** Dry weather testing was conducted during 2011. The goal of the testing was to determine whether releases prior to or during rainstorms could have harmful effects on Las Positas Creek and Arroyo Burro. Results show that water quality for potential releases appears satisfactory.
2. **Parking Lot Sealcoat:** According to industry leaders, coal tar is not used in California in parking lot sealcoat. This assumption was tested by conducting a field test on 50 parking lots throughout the City. Results suggest that approximately 30% of parking lots in the City may contain coal-based sealants.
3. **First Flush**: First Flush sampling from Fall 2011 showed that the main integrator sites did not exhibit toxicity, including to the algal species Selenastrum, which was tested for the first time by the City.
4. **Mission Creek Algal Toxicity:** According to data produced by CCAMP, Mission Creek shows toxicity to the algal species Selenastrum. The City tested for toxicity to Selenastrum from waters collected at several different sites along Mission Creek and none were found to be toxic.

Presentations were giving to the Creeks Advisory Committee in January, June, and December of 2011, providing status updates and communicating the FY12 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 4 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 is funded by the State Water Board's Clean Beaches Initiative Proposition 50 Grant Program. The project has been conducted in partnership with Dr. Patricia Holden at the University of California Santa Barbara (UCSB). The Creeks Division has 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 had remained elusive. The goal of the Source Tracking Protocol Development Project is 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 will support 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 will also provide 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 has focused thus far on testing various source tracking tools. The project has 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 2011. During the First Quarter of 2011, work on the project focused on working with UCSB to finish their Final Report based on field and laboratory work completed in 2010. In addition, several scientific manuscripts were submitted for peer review. During the second quarter, UCSB completed revisions to their Final Report. During the Third Quarter of 2011, work on the Project focused on using closed circuit televising of storm drains to find leaking sewage entering storm drains in two locations. At the Carrillo Drain, which discharges to Mission Creek at Carrillo Street, camera and dye testing were used to identify two leaking laterals from commercial buildings serving eight businesses. The leaking laterals discharged raw sewage into the storm drain. Once the leaks were identified, they were repaired within 24 hrs, and the dry weather flow from Carrillo Drain was completely eliminated. At a second location, the Nopal Street storm drain, which discharges to East Beach in Santa Barbara, dye and televising were also used. A sanitary sewer main was leaking into a storm drain passing below it, and once the problem was identified it was fixed promptly.

Results from 2010 and the first half of 2011 showed that each of the problems identified was located at a site where sewer pipes (laterals and mains) crossed perpendicular and above storm drains. Based on this result, GIS models were updated and refined to identify all known locations in the City of Santa Barbara with comparable geometry. Over one hundred target locations were identified for follow-up with dye testing and televising. The State Water Board approved a no-cost extension to the City's grant to perform dye testing and televising of each of these locations. During the Fourth Quarter of 2011, a request for proposals was released and a contract was awarded to perform the televising work in early 2012. Results will be incorporated into the FY12 Water Quality Research and Monitoring Report.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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 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 2011 the Bioassessment Program was expanded to include study reaches in the estuaries of three local watersheds. USEPA endorsed rapid bioassessment techniques for estuaries were used to collect BMI samples and other pertinent physiochemical and biological data. The IBI cannot be used to assess the condition of local estuaries, which have very different physiochemical conditions (e.g., brackish water, substrate, water flow, etc.) and biological assemblages than do freshwater creeks. An IBI or similar tool to assess the condition of local estuaries may be developed at some point, although a substantial data collection and analyses effort would be required over several years.

Results from sampling in 2011 reflected that this past rainy season (i.e., 2010-2011) had the 2nd highest rainfall total in the past ten years, and corresponding high peak storm flows in local creeks. Impacts from streambed scouring were evident in the BMI community of the study reaches as a whole in the form of low IBI score average and range and low BMI density. Partial recovery in physical habitat conditions and the BMI community occurred at upper Mission Creek study reaches, which were heavily impacted by the Jesusita fire (May 2009). It appears that at least another year will be needed for the BMI communities of these sites to recover to a pre-fire state.

The three estuaries studied (Sycamore Creek, Mission Creek, and Arroyo Burro) are all in a disturbed condition with significant urban development in their watersheds. Although there were differences in density and composition, BMI data from the three sites was similar with respect to overall diversity, and the two most abundant taxa were ubiquitous at the three sites. The data collected at the study estuaries helps to characterize their ecological condition and functioning, and serves as a baseline from which to evaluate future trends at these sites.

The 2010 Bioassessment report was delivered to the City during the first quarter of 2011. During the Second Quarter of 2011, field sampling was conducted, and during the Third Quarter of 2011, laboratory analysis was conducted. During the Fourth Quarter of 2011, the City's contractor Ecology Consultants delivered a Final Report for the field and laboratory work conducted in 2011. Results will be 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 2011, Ecology Consultants made a presentation to the Creeks Advisory Committee summarizing results from the past several years.

Proposed Modifications: None.

Proposed Year 4 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 12-1-11. The Implementation Phase is just beginning. The 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. Details on these policies can be seen in the Environmental Resources Element of the recently adopted General Plan, located here:

http://www.santabarbaraca.gov/NR/rdonlyres/FBF9C59D-E5A1-4740-A202-

DF4069AFC942/0/07EnvironmentalResourcesElement.pdf

Proposed Modifications: None.

Proposed Year 4 Activities: In 2012, the *Plan Santa Barbara* process is scheduled to continue with implementation.

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 was finalized in 2011 and will need the continued support and cooperation from all city agencies.

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. As of 2011, Streets no longer staffs a full time operator at the Annex Yard due to budget cuts, however operations of the facility are overseen by Street's weekday and weekend staff on a rotating basis. 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 uses 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.

The large 6000 gallon emulsion tank will be eliminated from the Annex yard in 2012. A new 1000 gallon tank has been 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 old 6000 gallon emulsion tank has to have a layer of sediment removed by steam washing before the entire tank is taken out of the yard. This work is expected to be done by March of 2012, with the old tank expected to be eliminated by the end of March or early April.

The Streets Division has held quarterly meetings since January 2011 with all the other users of the City Corporation Annex Yard. A representative from the Parks Department, Water, Waste Water, Building Maintenance and Creeks Division gather once every quarter to discuss any issues in regards to usage of the Annex. Each Division is responsible for a percentage of paying for the upkeep and maintenance of the yard. This includes maintenance services from Black Gold, Marborg, and Clean Harbors.

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.

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.

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.

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

The Parks Division 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.

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.

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.

The City's 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, Motorpool performs maintenance and repairs inside the repair shop (fully covered/roofed). 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 2011, 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 several times throughout the year. Motor Pool's "parts washing machine" was cleaned, inspected, and waste removed several times throughout the year, batteries were properly disposed of on a monthly basis, and garbage, solid waste, and recyclable materials were collected and disposed of weekly. Motor Pool continues to use "Nu-Cool Redigreen," for recycling the coolant used in the maintenance of city vehicles and equipment.

Proposed Modifications: None.

Proposed Year 4 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 2011. Creeks Division staff created a new power point presentation that reviewed storm water management BMPs applicable to each City department and/or division. This approach was purposely different from Years 1 and 2, which used a combination of a training video and power point presentations. The trainings are approximately one hour in length and include an introduction to the City's SWMP and the importance of protecting water quality. Trainings are conducted in the spring and summer of each calendar year. City staff are required to attend and sign-in sheets are collected.

Proposed Modifications: None.

Proposed Year 4 Activities: Staff is currently reviewing a recently-produced training video by Excal Visual called, "Rain Check." It is a new training kit focusing on storm water pollution prevention specifically for MS4s. If the training kit proves to be useful, Creeks staff may purchase it for Year 4 staff trainings.

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

Status: 100% of operational division staff were trained in Year 3.

Proposed Modifications: None.

Proposed Year 4 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 3 (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 Motor Pool Division. Motor Pool also maintains one wash rack at their garage facility, which discharges wash water into a clarifier, then to the sanitary sewer. Washing at the Motor Pool 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.

Furthermore, the Streets Division is currently working on staffing an opening for a full time maintenance worker, who will monitor the city Annex Yard and oversee operations during the week. The position is expected to be filled by early 2012. The new Annex Yard monitor will ensure all BMP's are being met, and that all users follow the proper procedures when dumping material and rinsing equipment.

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 4 Activities: Ongoing.

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

Status: Motor Pool tracked purchase orders for City fleet vehicle wash services throughout Year 3 and ensured that wash water is contained and properly disposed of, 100% of the time. Motor Pool used the following vendors in Year 3, 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 4 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 3. 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 4 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 4 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 4 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 2011. 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 4 Activities: Ongoing.

BMP 6.7 De-Watering Operations

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

Status: No new sediment control inventory was needed for the Water Distribution Department in Year 2. 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. Water Distribution currently has five Gully guards in stock. In 2012, Water Distribution will be ordering more Gullygards through a new purchase order with J2A Environmental.

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 4 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 an ongoing purchase order with J2A Environmental for "gully guards," which are curb guards used to contain water during main breaks.

Proposed Modifications: None.

Proposed Year 4 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 26 facilities in 2011 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).

FACILITY	Action/Results	FACILITY	Action/Results	FACILITY	Action/Results	WELLS	Action/Results
Tunnel Reservoir/ Pump Station	Bi Monthly Checks	Hope Reservoir/ Campanil Pump Station	Bi Monthly Checks	Escondido Reservoir/ Pump Station	Bi Monthly Checks	Corporation Well	Daily/Monthly
Calle Las Carleras Pump Station	Bi Monthly Checks	Sheffield Reservoir/El Cielito Pump Station	Bi Monthly Checks	La Vista Reservoir	Bi Monthly Checks	Los Robles Well	Daily/Monthly
Rockynook Pump Station	Bi Monthly Checks	Northridge Pump Station	Bi Monthly Checks	Reservoir Number One	Bi Monthly Checks	Vera Cruz Well	Daily/Monthly
La Mesa Reservoir	Bi Monthly Checks	Northridge Hydro Tank	Bi Monthly Checks	Reservoir Number Two	Bi Monthly Checks	City Hall Well	Daily/Monthly
Skofield Reservoir	Bi Monthly Checks	Cater Cross Tie Pump Station	Bi Monthly Checks	El Cielito Reservoir/ Skofield Pump Station	Bi Monthly Checks	Ortega Well	Daily/Monthly

FACILITY	Action/Results	FACILITY	Action/Results	FACILITY	Action/Results	WELLS	Action/Results
Sheffield Pump Station	Bi Monthly Checks	Vic Trace Reservoir/ La Coranilla Pump Station	Bi Monthly Checks	East Reservoir/ Bothin Pump Station	Bi Monthly Checks	Alameda Well	Daily/Monthly
						Hope Well	Daily/Monthly
						San Roque Well	Daily/Monthly

The Wastewater Collection staff maintains a list of fifteen City vehicles assigned to their section, 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 4 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 3 (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 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 4 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 conducts 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 4 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 4 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: In 2011, the Streets Division inspected and/or cleaned 1,778 drain inlets. Crews were sent out to targeted inlets before, during and after all significant rain events to remove debris and sediments that can block storm water drain inlets, prevent water flow, and cause water pollution. The crews are split up into sections with all work and dates recorded into Cartegraph system.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing**.**

BMP 6.12 Inlet Filter Cleaning

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

Status: In the Year 2 (2010) Report, the proposed modifications for 2011 were that this BMP needed to be deleted due to the fact that storm drain filters in the City were being removed. It had become evident that the maintenance of the filters far outweighed the benefits they provided. Catch basin debris screens replaced inlet filters in Year 2. Yards of material captured from the new debris screens will be portrayed in BMP 6.15 – street sweeping. As of the 2011 reporting, all filters have been removed and replaced with stainless steel retractable 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 1 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 in Year 3.

Proposed Modifications: See above.

Proposed Year 4 Activities: None.

BMP 6.13 Inline Storm Filter Maintenance

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

Status: 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 2012.

There are other inline storm filters in the City, however it is unclear how/when they are maintained.

Proposed Modifications: This BMP originally called for "3 annual cleanings." This requirement is excessive due to limited operational staff. Furthermore, Year 1 cleaning of the two inline filters demonstrated that one cleaning per year before the rainy season is sufficient. The BMP should be partially modified to read "*Implement a minimum of one annual cleaning of inline filters.*"

Proposed Year 4 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 3 on a daily basis, but does not staff a full time person anymore to fill out daily inspection reports, due to recent budget cuts resulting in a lack of staff resources.

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 4 Activities: Ongoing.

BMP 6.15 Street Sweeping

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

Status: In 2011, 18,383 curb miles were swept and 2,064.55 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 4 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 4 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 4 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 4 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 9,379.25 hours removing trash and debris from City Parking lots in 2011. 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 4 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 944 hours of pressure washing with a full recovery system during 2011. The Parking Division holds a discharge permit with the City for discharging this recovered water to the sanitary sewer.

The Parking Division hired a local contractor, Pacific Coast Pressure Washing to perform a thorough pressure washing of all Parking Garages using a full wash water recovery system. The contractor obtained a discharge permit with the City for discharging the recovered water to the sanitary sewer. (P.O. # 386517). City Lot 6 (Granada Garage), City Lot 7 (Library Garage), City Lot 9 (Lobero Garage), and City Lot 10 (Ortega St. Garage) were completed during 2011.

Proposed Modifications: None.

Proposed Year 4 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 Department oversees, implements, and educates staff and the public about the City's IPM program. The 2010 Annual IPM Report was approved by City Council in Year 2 (May 5, 2010). The 2011 Annual IPM Report will be drafted in Year 4 and is anticipated for approval in the Spring of Year 4. 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 4 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 2011. Reference P.O. 385521.

Proposed Modifications: None.

Proposed Year 4 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: In 2011, annual inspections of maintenance yards, shops, and facilities were conducted for the third year in a row. The City facilities inspected were the Corporation Yard (Parks Yard), Corporation Annex Yard, Facilities Maintenance Shops (including Paint Shop, Carpenters Shop, and Electronics Maintenance Shop), Motor Pool, Golf Maintenance Shop, Cater Water Treatment Plan, 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. What follows is a summary of the deficiencies found.

Corporation Annex Yard:

1. Northeast Wash Bay - At the time of inspection, the north east bay trench drain was clogged with sand/fill-dirt, vegetation, and trash. It was evident that the clogged drain caused the bay to overflow during washing and wash-water and debris overflowed to the catch basin in the NE corner. Action Item – train all wash bay users to maintain the drainage by cleaning the trench drain when it has dirt and debris in it. Also clean the screen that was placed there to capture debris to keep it from clogging the drain down-pipe.

2. Street Sweeping Spoils – The spoils continue to be dumped into the dewatering bin that drains to sewer. The solids are hauled away when full. This continues to be an effective solution.

3. Drop inlets in the landscape area along the northern property line – The drop inlets (2) in the landscaped area on the northern border of the yard have filters in them to keep leaves and debris from entering. These were partially filled with leaves and should be cleaned.
    a. Action Item: Clean DI filters of debris to maintain effectiveness.

4. Emulsion Tank – The area surrounding the emulsion tank has open paint buckets and drums with tar on them. Some were covered with tarps but some were not. All exposed drums and containers need to be covered to prevent the contents from being washed away during rain storms. The containment area where all of these items are stored is insufficient, but a new system is scheduled for November 2012. The new system will involve a smaller, mobile emulsion tank with secondary containment.

5. Driveway around Emulsion Tank. The pavement in this area is used as a test strip for street paint, which does not create a water quality problem when performed during dry weather. However, at the time of inspection, there was white paint on the asphalt near the emulsion tank that was left there after washing paint filters over the lot. This paint-water will be washed to the storm drain inlet on the north border of the lot when it rains.
    a. Action Item: Any paint equipment must be washed in the northwest bay that drains to the sewer.

Proposed Modifications: None.

Proposed Year 4 Activities: In Year 4, staff will work to address the deficiencies noted during the Year 3 inspections and continue to maintain City facilities to protect downstream water quality.

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 throughout 2010 and 2011, there is a portable restroom placed adjacent to Mission Creek at Montecito Street. This portable restroom is serviced 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. The invoice record for the maintenance of the portable toilet is on file.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

4.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*

Status: Completed through monthly slip billing to tenants and slip holders throughout Year 3.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Continue coordination in Year 4.

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*

Status: Compiled information, as needed, for postings throughout Year 3.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Continue coordination in Year 4.

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*

Status: Completed through monthly slip billing to tenants and slip holders throughout Year 3.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Continue coordination in Year 4.

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

Status: The Waterfront Department website was created and launched in Year 2.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: WFD will continue to update the presentation process and information on the website as necessary in Year 4.

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

Status: Quarterly reporting results will be compiled for the annual Harbor Commission Report and assessed in Year 4.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Effectiveness to be assessed in Year 4.

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

Status: Harbor Operations Manager (Mick Kronman) act as the "Examiner" to other marinas for their Clean Marina Programs. WFD's Operations Manager examined and re-certified the Clean Marina Program for the

Proposed Modifications: None.

Planned Year 4 Activities: Ongoing interface with other Clean Marina Programs.

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

Status: Docklines was published and distributed three times in Year 3; in March, June, and December 2011.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Continue to publish and distribute "Docklines" three times in Year 4.

Measurable Goal 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. Year 1-5*

Status: Santa Barbara Channel Keeper and Heal the Ocean organizations disseminated water quality information during the Santa Barbara Harbor & Seafood Festival, October 8, 2011.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Continue coordination.

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*

Status: Annual report for 2011 will be compiled and presented to the Harbor Commission in 2012.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Annual reporting at the Harbor Commission in Year 4.

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*

Status: 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). The WFD Annual Report was submitted in June 2011.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Annual Report and SWPPP updates (if needed) at the end of Year 4.

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*

Status: Waterfront conducted 36 tours / public relations events in 2011. This is three times the amount of community groups/public relations efforts that took place in 2010.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Continue notifications and maintain involvement of community groups/organizations in Year 4.

Measurable Goal 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. Year 3-5*

Status: The Annual Harbor Clean-up Day was held in May 2011.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Continue Annual Harbor Clean-up Day in 2012.

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

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

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Goal Completed.

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

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

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: The review and update (if needed) will occur again in Year 4.

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*

Status: The effectiveness of the Discharge Ordinance and Clean Marina Program was assessed during the compilation of the Harbor Commission Report in 2011.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Continue assessment and inspections in Year 4.

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*

Status: The Harbor Patrol responded to and followed-up on all notifications and observations of illicit or illegal discharges in 2011, as well as kept a warning & citation log of such occurrences, which is included in the SWPPP Annual Report to the RWQCB.

There were 15 total Illicit Discharges detected and responded to in 2011:

ILLICIT DISCHARGE	RESPONSE / RESOLUTION
Sanding Dust - 5	Regulation Packet to offender
Paint - 3	Regulation Packet to offender
Wax – 1	Regulation Packet to offender
Wood Chips – 1	Regulation Packet to offender
Engine Degreaser – 1	Citation to offender
Gasoline – 1	Regulation Packet to offender
Rotten Fish Bait – 1	Citation to offender
Green Dye Packet – 1	Regulation Packet to offender

Excessive Guano from Boat- 1 Regulation Packet to offender

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Continue response and follow-up in Year 4.

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*

Status: 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.

Monitoring occurred on 16 February 2011, and 30 March 2011. The following responses were required:

LOCATION	RESPONSE
Stearns Wharf Maintenance Shed	Used oil drum to be emptied and cleaned
Fuel Dock	Used batteries need to be stored properly in the used battery container.
	Empty oil containers should be in a closed trash bin

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Continue SWPPP requirements with wet and dry condition monitoring in Year 4.

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*

Status: 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 4 Activities: Monitoring will continue in Year 4.

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*

Status: 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 4 Activities: Assessment to continue in Year 4.

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

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

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: SWPPP update to occur, if necessary, in Year 4.

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*

Status: Storm water samples were collected during the first qualifying rain event during monthly wet monitoring that occurred on December 3, 2011. Analysis of water quality will be reported in the SWPPP Annual Report.

Proposed Modifications: No changes are recommended.

Planned Year 4 Activities: Monitoring will continue in Year 4.

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

Status: 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 4 Activities: SWPPP will be reviewed for compliance with the City's SWMP in Year 4.

5. 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.*

Status: All Airport storm drains were labeled in Year 1. An inventory of decals is kept and new inlets are marked and replacements are made, as needed.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: Educational materials ("Sustainability Newsletter") was distributed via e-mail on 3/9/11. The newsletter contained a story on the Airport's project to enhance tidal circulation in the Goleta Slough. While this project improves water quality, the article focused on aviation safety, environmental preservation and permit compliance. A second story, also related to water quality helped to educate tenants about household hazardous waste, proper disposal and local collection facilities.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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.*

Status: A General Aviation Newsletter was produced and distributed to the GA Newsletter mailing list, Airport Commissioners and Airport Department Staff via e-mail on December 15, 2011. The newsletter was also posted on the Airport's website, flysba.com. The newsletter included two articles that provided guidance for Airport users on storm water best management practices and pollution prevention (*Help Protect Beaches and Estuaries, GA Can Help Keep Airport Stormwater Clean*)

Proposed Modifications: None.

Proposed Year 4 Activities: Meet this measurable goal in Year 4.

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

Measurable Goal 1.4: *Number of webpage visits.*

Status: 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 1,924 times by internet users in 2011. This is about 500 more visits than last year.

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.*

Status: Airport staff met with the Goleta Slough Management Committee in December 2010 (Year 2) to discuss slough management, 2009 results and to solicit comments. Committee members posed questions about the plan and suggested that we include copper as an analytical parameter for storm water testing. Airport staff attended a follow-up meeting of the GSMC in January 13, 2011 to further discuss the Airport's 2009 results and the SWMP program. This BMP is not due again until next year.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: 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 4 Activities: Ongoing.

BMP APD 2.3 Public Involvement and Participation – Public Notification

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

Status: All Airport Commission meetings were publically noticed. However, no Airport Commission agenda items were directly related to the City's SWMP in 2011**.**

Proposed Modifications: None.

Proposed Year 4 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.*

Status: The public was provided an opportunity to comment at each 2011 Airport Commission meeting.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: Dry weather inspections of the Airport storm water collection system were conducted quarterly on February 2, April 28, July 28, and October 13-17, 2011. Wet weather inspections were only conducted twice; on February 25 and October 5, 2011, due to very little rain this year.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Measurable Goal 3.2: *Conduct annual ACSCE inspection.*

Status: The ACSCE associated with the Industrial Storm Water Discharge permit annual report was completed in July 2011. Findings were recorded and reported in the annual report required by the general industrial storm water discharge permit.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

BMP APD 3.3 Illicit Discharge Detection and Elimination - Sampling

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

Status: One rain event was sampled on February 2, and a second rain event was sampled on October 10, 2011. No other qualifying storm events occurred in 2011.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

BMP APD 3.4 Illicit Discharge Detection and Elimination - Information

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

Status: Quarterly sustainability newsletter was distributed via e-mail on 3/9/11, and contained a story on the Aiport's project to enhance tidal circulation in the Goleta Slough. While this project improves water quality, the article focused on aviation safety, environmental preservation and permit compliance. A second story, also related to water quality helped to educate tenants about household hazardous waste, proper disposal and local collection facilities.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Measurable Goal 3.5: *Update list annually.*

Status: The May 27, 2009 list of local Business Plan Facilities is the most current information available from the Santa Barbara County CUPA website. Santa Barbara fire department staff confirmed the list of facilities.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: Airport staff investigated 100% of reports in 2011, only one of which was a non-storm water discharge. The non-storm water discharge was reported on August 30, 2011. The discharge consisted of dried, rusty residue which had flowed to the Airport storm drain. The rusty residue was confined to one drop inlet. The discharge began close to a tenant door, so the tenant was questioned. The tenant denied discharging any material and an investigation of the rented space revealed that only dry materials are stored on site. There was also no indication of the material inside the space. Analysis of the material was negative for characteristics of hazardous waste. The area was swept and the resulting debris was discarded in the trash. There was insufficient debris in the drop inlet to collect.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: The Airport has a "block book" with maps of utilities, including a storm drain map. As changes or inaccuracies are identified, they are noted for future map updates. An update of the block book is currently underway.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: No illicit connections to the Airport storm drain were detected in 2011.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: Several projects took place at the Airport in 2011, including the new airport terminal project, a lift station demolition, and a new roof project. No violations were noted or reported in 2011, resulting in 100% compliance with permit conditions related to storm water management.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: Tenant projects related to the Airport's terminal project and one slurry seal project was completed in 2011. No violations were noted or reported in 2011, resulting in 100% compliance with permit conditions

related to storm water management.

Proposed Modifications: None.

Proposed Year 4 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* .

Status: 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 4 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 Motor Pool to perform regular maintenance off-site.*

Status: Routine preventative maintenance and major repairs of Airport vehicles and equipment are performed at the City's motor pool maintenance facility, off the Airport property.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: A minimum of 5625 square feet of covered parking is available for Airport equipment and vehicles.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

BMP APD 6.3 Pollution Prevention/Good Housekeeping - Employee Training

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

Status: 99% of maintenance employees atteded storm water training in 2011. On December 13, 2011, a Spill Prevention and Response training was presented to Airport staff. During the initial training session, 9 of the 12 maintenance division employees were in attendance. A second training session was held on December 29, 2011. Only one groundskeeper failed to attend, and therefore did not receive Spill Prevention and Response training during calendar year 2011. Airport Maintenance and Patrol staff completed online storm water BMP training. Patrol/Operations staff did training early in the fiscal year. Maintenance staff completed the training mostly in December 2011.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: Compliance with FAR Part 139 was maintained in 2011. FAA conducted an Airport Certification inspection April 4-7, 2011. No discrepancies were noted regarding fuel dispenser training.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

Measurable Goal 6.5: *Inspect wash racks quarterly.*

Status: All wash racks were inspected quarterly. The aircraft wash rack was inspected a total of 13 times (exceeding the quarterly requirement), the equipment wash rack was inspected a total of 21 times, and the rental cars were relocated in Year 2 and now use an indoor carwash, so inspections for this facility are no longer necessary. The former rental car wash rack building was demolished during the third quarter of 2011.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

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

Status: The lift stations, including the lav cart dump station, were inspected a total of 39 times in 2011 (exceeding the quarterly requirement). The lav cart station was temporarily relocated to accommodate the demolition of lift station 2 during the second quarter of 2011. Construction of the permanent facility took place during the third quarter.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

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

Status: The used oil collection station was inspected a total of 27 times in 2011 (exceeding the monthly

requirement).

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

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

Status: The spill cart was inspected a total of 20 times in 2011 (exceeding the monthly requirement) and restocked as needed.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

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

Status: The storm water resources webpage on flysba.com includes links to IPM resources, and had close to 2,000 visits in 2011.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

BMP APD 6.10 Pollution Prevention/Good Housekeeping – Covered Dumpsters

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

Status: Airport staff completed the on-line storm water BMP/source control training in December 2011. The training covered dumpsters as an Airport BMP.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: Dry clean-up methods were emphasized during the spill prevention and response training provided in December 2011.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: No raw materials were stored in the yard in 2011, other than a small pile of wood chips generated from Airport cuttings were stored on-site on a permeable surface.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: 70% of the Airport's inlets have been equipped with a structural BMP, and all filtered inlets were inspected quarterly; in February, May, September/October, and December, 2011.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: This goal for sweeping was met and exceeded. The Airport streets were swept 12 times in 2011 (three times, quarterly), and all runways, taxiways and parking lots were swept at least quarterly, throughout 2011.

Proposed Modifications: None.

Proposed Year 4 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.*

Status: A total of 14 investigation cards were completed related to illegal camping on Airport property in 2011. The incidents were investigated and remedied, usually by asking/requiring the campers to leave.

Proposed Modifications: None.

Proposed Year 3 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.*

Status: The air carrier ramp was steam cleaned four times in 2011 as well as swept seven times.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

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

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

Status: Airport staff facilitated ongoing access for County Flood Control in 2011. County Flood Control removed sediment from the Airport's basins during the second quarter of 2011.

Proposed Modifications: None.

Proposed Year 4 Activities: Ongoing.

F. 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.

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 1-3 implementation are discussed in this section. BMPs that are scheduled for future Years (4-5) and/or depend on the final outcome of the Regional Water Quality Control Board's Joint Effort for Hydromodification are omitted from this Section.

The City will continue this effectiveness evaluation through the remaining permit years, as required, so that appropriate and meaningful modifications can be made to the City's SWMP, 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 change behavior. 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. *Art From Scrap* and local educators conduct many of the City's youth education presentations. The *Youth CineMedia* Program and *Recreation Afterschool Program* (RAP) 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 2011, a total of 163 presentations were provided, reaching 4,494 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 students in hands-on activities and educational programs at Adams Elementary School and/or City restoration sites, 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 the bioswale on 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 2011 there were 6,682 visitors to the website; a decrease of 4% from the 2010 total of 6,982 hits. The Creeks Division is exploring new ways to drive traffic to the website; in 2012, the City will begin a redesign of the entire website, aimed at making the site more dynamic and easier to update and navigate. In 2011 the Creeks Division also created a Facebook page and a YouTube page, in order to reach out to community members online in places other than the website. Overall the website is successful at Level 2.

- Events. Earth Day, Creek Week, World Ocean Day, Summer Solstice, 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 3 included 36 community members removing non-native weeds from a lagoon and clean up efforts at Old Mission Creek. 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 weeding and cleaning aquatic areas in need of attention, and pollutant loads are reduced by removing trash and stabilizing eroding areas.

- 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 also been incorporated into the Creeks Division's outreach activities, with one volunteer event taking place in Year 3, for a total of 89 markers being cleaned or replaced by either City staff or volunteers. Storm drain marking is successful at Level 2 for raising awareness.

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, as occurred with 89 cases in 2011 (89 Notices of Violation were issued requiring discharge clean up/abatement; see BMP 3.2c).

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 3. 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 2011, 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 2011 forum was titled, "Search for Water," covering a broad history of community members and their changing relationships with and reliance on local creeks. 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. The forum is aired on Channel 18 (local television) in both English and Spanish, and postings for 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 2011. This is measurable evidence that community clean-ups are successful at all levels. 268 community members experienced the pollution levels of our creeks and ocean in 2011 by hiking the creek corridors and lagoons (increasing their awareness). 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	Level 2	Level 3	Level 4
	Implement Program	Increase Awareness	Behavior Change	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 first 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 (timing will be dependent on the Region 3 Joint Effort for Hydromodification Control effort and pending outcome), which 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. 222 calls were received and responded to within 24 hours in Year 3, resulting in 89 Notices of Violation and 10 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 help 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. Public workshops and hearings have been postponed until the Region 3 Joint Effort for Hydromodification Control determines the requirements and criteria that will ultimately become part of the City's storm water ordinance. 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 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 were inspected this past year (2011). 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 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. City staff created power point presentations and handouts, using in-house photos and existing data, for these training presentations. The presentation reviewed storm water management BMPs applicable to each City department and/or division. This approach was purposely different from Year 1, which used a training video, and Year 2, which used a different power point presentation, in order to keep things as new and interesting as possible. 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. Evaluating the current erosion and sediment control policy and the municipal ordinance for erosion and sediment control requirements will demonstrate whether or not the City has adequate legal authority in place to control pollutants from construction sites. **(Questions/issues regarding the Building Department's management of construction sites and erosion/sediment control is also addressed at length in the City's responses to the Central Coast Water Board's Comment/Action letter from December 2010, included at the beginning of the City's Year 2, 2010 Annual Report).* The recently 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. SWMP implementation in future years will continue to demonstrate more clearly how effective the construction program element is and where improvements can be made, as progress and/or failures become apparent through these annual assessments.

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

The Building & Safety Division is tracking projects and evaluating 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. Building & Safety staff's current sentiment is that leaving the details of BMP selection in the existing policy allows each development application to select BMPs that are the most effective for that specific project. Binding these details into an ordinance would reduce flexibility, and not allow for the easy addition of new BMP's as they are developed. This approach would also require the

use of vague language in order to provide a "one-size-fits-all" ordinance, which would likely reduce the overall effectiveness of the policy.

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) 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 recently 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.

c) Enforcement (BMP 4.5)

Zero enforcement cases related to erosion control issues were reported by the Building Department for Year 3. 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 53 project sites subject to erosion/sedimentation control in 2011 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.

d) 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	
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 (Parks and Recreation) provide early input to the permitting and development process.

The City has been informally implementing the SWMP since 2006 per direction from the City Council. 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 with the region's development and implementation of hydromodification control criteria; a current and ongoing topic among the State Water Board, the regional water quality control boards, and municipalities.

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 another recent training for contractors and designers in 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.

Effectiveness of this MCM will best be measured over the 5-year implementation period once post-construction regulations, including hydromodification control, are fully developed and awareness from the development community increases over time. During these first few 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 140 projects implemented post-construction BMPs in Year 3. This is an increase of about 60 more projects from last year (Year 2). Over 100 more projects are implementing post-construction BMPs, as compared to Year 1 (30 projects); thereby demonstrating that the City's understanding and implementation of post-construction storm water BMP requirements is successfully improving. In order to ensure this project SWMP compliance and better track its 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. Due to the fact the City has just completed Year 3 of formal SWMP implementation, no enforcement cases have been necessary, as projects are only now beginning to be built that have conditions for BMPs. Enforcement actions will ensue in the future when projects are built and 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 by the City. Production of a draft ordinance will begin once the Region 3 "Joint Effort for Developing Hydromodification Control Criteria" (Joint Effort) ultimately determines storm water requirements and criteria that will be essential for drafting the City's future 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.

  The City is currently participating in the Water Board's Joint Effort in order to study and consider additional standards for volumetric or flow-based treatment control. This effort will also be effective at Levels 2 (throughout the Joint Effort) and Level 3 (once the criteria are established and implemented).

- 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 is just beginning. 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 2011 Annual Water Quality Report and the FY12 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 2011. In the Summer of 2011, work on the Project focused on using closed circuit televising of storm drains to find leaking sewage entering storm drains. At the Carrillo Drain, which discharges to Mission Creek at Carrillo Street, camera and dye testing were used to identify two leaking laterals from commercial buildings serving eight businesses. The leaking laterals discharged raw sewage into the storm drain. Once the leaks were identified, they were repaired within 24 hrs, and the dry weather flow from Carrillo Drain was completely eliminated. At a second location, the Nopal Street storm drain, which discharges to East Beach in Santa Barbara, dye and televising were also used. A sanitary sewer main was leaking into a storm drain passing below it, and once the problem was identified it was fixed promptly.

  Results from 2010 and the first half of 2011 showed that each of the problems identified was located at a site where sewer pipes (laterals and mains) crossed perpendicular and above storm drains. Based on this result, GIS models were updated and refined to identify all known locations in the City of Santa Barbara with comparable geometry. Over one hundred target locations were identified for follow-up with dye testing and televising. The State Water Board approved a no-cost extension to the City's grant to perform dye testing and televising of each of these locations. During the Fourth Quarter of 2011, a request for proposals was released and a contract was awarded to perform the televising work in early 2012. Results will be incorporated into the FY12 Water Quality Research and Monitoring Report.

  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 proved its increased effectiveness in Years 2 and 3 by successfully implementing storm drain reconnaissance and uncovering illicit discharges.

- Biological Assessment. In 2011 the Bioassessment Program was expanded to include study reaches in the estuaries of three local watersheds. USEPA endorsed rapid bioassessment techniques for estuaries were used to collect BMI samples and other pertinent physiochemical and biological data. Results from sampling in 2011 reflected that this past rainy season (i.e., 2010-2011) had the 2nd

highest rainfall total in the past ten years, and corresponding high peak storm flows in local creeks. Impacts from streambed scouring were evident in the BMI community of the study reaches as a whole in the form of low IBI score average and range and low BMI density. Partial recovery in physical habitat conditions and the BMI community occurred at upper Mission Creek study reaches, which were heavily impacted by the Jesusita fire (May 2009). It appears that at least another year will be needed for the BMI communities of these sites to recover to a pre-fire state. 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.

Year 3 facility inspections (BMP 6.20) proved successful in documenting City staff's commitment to storm water pollution prevention. Deficiencies noted at the City's Annex Yard (managed by the Streets Division) and the Parks Corporation Yard were quickly addressed and future upgrades/fixes are scheduled for 2012. These efforts to rectify deficiencies have resulted in staff and contractor behavior changes and pollutant load reductions, which is the intention of these ongoing inspections.

Street sweeping is a large City investment in good housekeeping practices that demonstrates a measurable benefit in reducing pollutant loads. Over 18,000 curb miles were swept and 2,064.55 tons of material was collected in Year 3. 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 this past year, 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 water quality 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 2011, the Streets Division inspected and/or cleaned 1,778 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 been replacing filters throughout Years 2 and 3. 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. Both of these filters are scheduled for cleanings in 2012. 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). Over 2,064 tons of debris was collected from City street sweeping in Year 3.

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