

## Small MS4 Annual Report Form

Please refer to the attached instructions as you prepare your annual report.

### **A. General Information**

Name of MS4: Maricopa County

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Annual Report Period: July 1, 2010 through June 30, 2011

### **B. SWMP Modifications and Additional Information. Attach a brief explanation if you check "yes" to any of the following statements.**

- |   |   |  |
|---|---|--|
| 1. Changes have been made or are proposed to the SWMP since the last annual report, including changes in response to ADEQ's review. | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 2. The MS4 has annexed lands.   | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 3a. The MS4 discharges directly to an impaired water.   | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 3b. A water within 10 miles of the MS4's jurisdiction has been identified as impaired.  | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/>            |
| 4a. The MS4 discharges directly to water for which a TMDL has been established.   | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 4b. A TMDL has been established for a water within 10 miles of the MS4's jurisdiction.  | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 5. The MS4 has conducted analytical monitoring of stormwater quality.   | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 6. The MS4 is relying on another government entity to satisfy some permit obligations.  | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |

**C. Stormwater Management Program Status.** Provide the status of every BMP and measurable goal in your SWMP as described in the instructions.

**TABLE 1**

<b>Minimum Control Measure(s)</b>	<b>BMP</b>	<b>Measurable Goal (steps to measure progress)</b>	<b>New or Revised</b>	<b>Start Date</b>	<b>Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)</b>
<b>MCM 1: Public Education and Outreach</b>	<u>BMP 1.</u> Develop and distribute educational materials	Maricopa County Distributed more than 9,000 Spanish language brochures and flyers. Procured more than 14,500 promotional items (Pet waste fact sheets, Calendars, Litterbags and Rain gauges). Distributed 181 English and 181 Spanish Food Service BMP posters to restaurants in the unincorporated areas of Maricopa County. Placed more than 1,150 printed materials in public accessible County buildings (Planning and Development's One Stop Shop, Environmental Services Central lobby and all regional offices, all County Libraries, Parks and Recreation Visitor Center). Attended (with a manned booth) 14 public educational events (Tres Rios Nature Festival, different Earth	No	Started in 2006	In progress.

		<p>Day related events, Poster contest judging, Lake Pleasant public event etc.). Had direct contact with more than 2,830 people. Solid Waste Department attended 13 Illegal Dumping events and did 6 presentations. More than 3,100 brochures and 4,770 promotional items were distributed. Conducted 21 classroom presentations at local elementary schools, spoke with more than 660 children. Maricopa County is an active member of STORM. Additional public education and outreach information can be found in the organization's annual report at <a href="http://www.azstorm.org">www.azstorm.org</a>.</p>			
	<p><u>BMP 2</u>. Public education radio campaign on stormwater</p>	<p>The STORM organization conducted one radio ad campaign during FY 2011. The campaign aired a PSA regarding the importance of proper disposal and recycling of used oil. The PSA was aired in both English and Spanish at 9 radio stations during November 29, 2010 and January 15, 2011. The PSA audience, age 12 and above, was estimated at 3,168,300. The PSA is posted on the website at</p>	No	2008	In progress.

		<a href="http://www.azstorm.org/radio-psa/">www.azstorm.org/radio-psa/</a> . The organization had a 6 week theater campaign which began November 26, 2010 to correspond to the winter rain season. The movie theater campaign was shown at 7 theaters throughout the Phoenix metropolitan area, showing on 154 movie screens. Based upon historical movie admission rates, it is estimated that the campaign was shown to approximately 1,100,000 people.			
	<u>BMP 3.</u> Maintain and update the Maricopa County Stormwater website	Continued to update the County's Stormwater website. <a href="http://www.Maricopa.gov/Stormwater">www.Maricopa.gov/Stormwater</a> which provides Stormwater Program information. Received over 328,000 hits on the website during this fiscal year. Posted the 2010 annual report. Over 322,000 brochures, fact sheets, and other educational materials were viewed and/or downloaded from the website.	No	2003	In progress.
<b>MCM 2: Public Involvement/Participation</b>	<u>BMP 1.</u> Provide various vehicles of communication to the general public for feedback to the County	Developed an on-line survey, received 69 responses and comments. Maintained the Department's Twitter account for public feedback.	No	2007	In progress
	<u>BMP 2.</u> Develop a Stormwater	The Stormwater Quality program held its second	No	2007	In progress

	Stakeholders Workshop	<p>annual public workshop to discuss the 2010 annual report on August 18, 2010. Notifications were e-mailed to stakeholders and announcements were posted on our website and in the lobby of our building. 10 people attended this workshop. Stakeholder meetings regarding proposed revisions to the Maricopa County Stormwater Quality Management and Discharge Control Regulation were held on January 18, 2011. 26 people attended this meeting. In addition to the regular stakeholder meeting, we held 3 workshops for the construction industry, 22 people attended these meetings.</p>			
	<u>BMP 3.</u> Establish stormwater related contests for school children and local communities	<p>A stormwater pollution poster contest was held in FY2011. Invitations regarding participating in the contest were mailed out directly to schools in the unincorporated areas of Maricopa County in the fall of 2010. An announcement was also posted on our website for anyone interested in participating. The contest had two categories, one for 3<sup>rd</sup>/4<sup>th</sup> grade students and one for</p>	No	2009	In progress

		<p>5<sup>th</sup>/6<sup>th</sup> grade students. We received a total of 79 entries from 4 different schools. The winner from each category was invited to a Maricopa County Board of Supervisors Formal meeting on May 11<sup>th</sup>, 2011. There were more than 50 people in attendance. The Chairman of the Board presented the winners with their prizes, which were sponsored by REI, the County's Park and Recreation Department and the County Library District. The posters were used to create a calendar to use as part of the outreach materials.</p>			
	<p>Additional Items</p>	<p>Maricopa County averaged 164 volunteer groups in FY2011 for the County's Adopt-A-Highway program, 322 miles of County roads were cleaned and nearly 40 tons of trash was removed. The County Parks and Recreation Department held 5 volunteer clean up events, more than 138 people attended. 62 large trash bags, 20 fifty-five gallon trash containers and 2 trailers full of trash were removed from two County park areas. Solid Waste Department held 5</p>			

		Hazardous Household Waste and Cleanup events			
<b>MCM 3: Illicit Discharge Detection and Elimination</b>	<b>BMP 1.</b> Identification of illicit discharges through an inspection program	An estimated 9.9% of the 83.26 total square miles of the urbanized area within unincorporated County's boundary was surveyed. To date, the program has surveyed 62.9% of the 83.26 total square miles of the urbanized area within unincorporated Maricopa County. 307 or 26.41% of an estimated 1162 outfalls were located, inspected and geo-tagged. To date, the program has located, inspected, and geo-tagged a total of 602 or 51.81% of the estimated 1162 outfalls. 54 parts/conveyance devices were located. Performed 6 "up-the-trunk" investigations. The program continued the development of the GEO-Indexed GIS sewer and drainage system map, which includes pictures of located outfalls and inlets, direction of flow, BMPs, industrial facilities, Flood Control Structures, etc.. When completed, this map will be used to identify locations of possible "problem" areas of recurrent illicit discharges. 14	No	July 2008	In progress. Will continue to inspect and map outfalls and drainage system within the County's jurisdiction.

		<p>flood retention structures and 11 FCD Outfalls were inspected and geo-tagged. 409 drainage points were located, GIS recorded and mapped. Completed development of the internal enforcement DPPN (Department Policy). 4 Letters of Outstanding Violation (LOV) were requested. 2 Compliance Orders were issued. 1 Consent Order was issued. Additional dry-weather monitoring of industrial and commercial facilities for illicit discharges was conducted. Continued outfall inspection prioritization based on geographical, past complaint, and commercial and industrial factors. The program identified and surveyed a total of 135 Industrial/Commercial site locations that fall within urbanized unincorporated Maricopa County. 6 industrial compliance inspections were completed. Added two staff members to augment the industrial inspection process and the Good Housekeeping MCM.</p>			
	<p><u>BMP 2.</u> Implement a complaint response program</p>	<p>A total of 248 complaints were received for illegal dumping and/or illicit discharge, all</p>	No	2006	In progress

		<p>complaints were responded to within 10 days of receipt. 3 Stormwater compliance orders were issued and settled by Environmental Services' enforcement group. As a result of employee observations and complaints, the Air Quality Department wrote 68 Notices of Violation (NOV) for track out violations from construction sites and un-stabilized lots. Stormwater Program public education materials and presentations contain references to the complaint line telephone number and on-line complaint submittal forms.</p>			
	<p><u>BMP 3.</u> Educate businesses and the general public about hazards associated with illegal discharges to storm sewer systems</p>	<p>Maricopa County developed and distributed more than 3,100 printed materials and handed out more than 4,700 promotional items. 322,000 brochures, fact sheets, and other educational materials were downloaded from the Stormwater Program website. Distributed 181 English and 181 Spanish Food Service BMP posters to restaurants throughout the unincorporated areas of the County. The Stormwater Quality Program and the County's Solid Waste Department attended 27</p>	No	2006	In progress

		events regarding illegal dumping and/or illicit discharges, which included public events, youth and/or family workshops, adult presentations that reached state and international viewers. The STORM organization aired a total of 6 weeks of radio and theater commercials, reached out to more than 2 million listeners.			
	Additional Items	Procured 10,000 pet waste fact sheets which were distributed with adoptions at the County's Animal care and Control facilities.			
<b>MCM 4: Construction Site Stormwater Runoff Control</b>	<u>BMP 1.</u> Establish an enforcement mechanism to require erosion and sediment controls at construction sites >1 acre	Maricopa County Stormwater Quality Management and Discharge Regulation was enacted by the County Board of Supervisors making it an enforceable regulation on June 30, 2009. A portion of that regulation contains enforcement language. The Stormwater Quality Program has an internal Department Enforcement Policy to complement the Stormwater Quality Management and Discharge Control Regulation.	No	2006	Ongoing. Will continue to update the Regulation and Department Policy when needed.
	<u>BMP 2.</u> Review and update Maricopa County Construction site BMP manual	The Stormwater Quality Program coordinates with the County's Flood Control District (FCD) to provide continuous	No	2003	In progress.

		<p>feedback on BMP's. The <i>Maricopa County Drainage Design Manual: Erosion Control</i> was updated in 2009. A draft is available on FCD's website at <a href="http://www.fcd.maricopa.gov">www.fcd.maricopa.gov</a></p>			
	<p><b>BMP 3.</b> Review plans and permit applications</p>	<p>A checklist and application form for plan submittals are available to view and download on the Stormwater Program's website at <a href="http://www.maricopa.gov/stormwater">www.maricopa.gov/stormwater</a> During the FY11 a total of 4 pre-construction projects were reviewed by the program engineer. Comments and feedback were provided for either acceptance or the need for additional information.</p>	No	2009	In progress
	<p><b>BMP 4.</b> Establish a stormwater inspection program</p>	<p>The Stormwater Quality Program inspected all construction sites within the urbanized area of unincorporated Maricopa County that disturbed an area of one acre or greater. A total of 3 pre-construction inspections were completed. 3 Letters of Outstanding Violation were written for noncompliance with a direct stormwater issue. Inspection forms for both construction sites and industrial facilities were updated. The County's</p>	No	2009	In progress

		Air Quality Department currently inspects all construction sites in Maricopa County to enforce compliance of dust control, soil stabilization and track-out. The County's Planning and Development Department's Drainage Program inspected 1394 construction sites in the unincorporated Maricopa County during FY11.			
	<u>BMP 5.</u> Establish complaint response program	The Environmental Services Department's has a complaint response system for calls received via the Department's line at (602) 506-6616 or the on-line complaint submittal forms. In FY11, 235 complaints were received for illegal dumping and/or illicit discharge. All complaints were responded to within 10 days of receipt. As a result of employee observations and complaints, the Air Quality Department wrote 41 Notices of Violation (NOV) for track out violations from construction sites and 27 NOVs for inadequate soil stabilization.	No	2006	In progress
	<u>BMP 6.</u> Provide educational information on the County's Stormwater website	The County has continued to update and improve the web site. The Stormwater Quality Program has developed various educational materials	No	2003	In progress

		<p>for the construction industry (e.g. construction site fact sheet, soil stockpiles fact sheet,) that have been made available on the webpage. More than 59,000 documents were downloaded and/or viewed during FY11. 2 presentations for the construction industry were attended by a total of 65 participants. The Stormwater Quality Program engineer attended 113 pre-application meetings with the Planning and Development Department. Construction information materials were handed out to developers and/or project owners. A presentation on the new NPDES 280 NTU effluent limit for construction sites was given to members of the construction industry on August 10, 2010. Handouts were made available on County's Stormwater program website <a href="http://www.maricopa.gov/stormwater">www.maricopa.gov/stormwater</a>. The STORM organization held a seminar for the construction industry on June 1, 2011. 82 people attended.</p>			
<b>MCM 5: Post-Construction Stormwater</b>	<u>BMP 1.</u> Develop and adopt technical	The Maricopa County Stormwater Quality	No	2006	In progress.

<b>Management</b>	guidance materials	Management and Discharge Control Regulation adopted by reference the <i>Maricopa County Drainage Policies and Standards Manual</i> , which provides technical guidance. The <i>Drainage Design Manual for Maricopa County: Volume 3, Erosion Control</i> is available on the Flood Control District of Maricopa County's web site. The Stormwater Quality Program developed and refined an O&M Agreement and an O&M Manual template.			
	<u>BMP 2.</u> Review plans and permit applications	3 post-construction plans were reviewed.	No	2009	In progress
	<u>BMP 3.</u> Conduct construction site inspections	3 post-construction stormwater inspections were conducted. Standard operating procedures for routine inspections were established. The County's Planning and Development Department conducted 2763 final drainage inspections in unincorporated Maricopa County during FY11.	No	2009	In progress
	<u>BMP 4.</u> Create and distribute educational materials for the development community	The Stormwater Quality Program researched different post-construction educational materials to be developed and distributed in the upcoming fiscal year. 2 presentations for the construction industry were attended by a total of 65	No	2009	In progress

		participants. Received over 328,000 hits on the County's stormwater web site, over 59,000 views and/or downloads of development-related brochures and fact sheets, and had over 12,100 views and/or downloads of the post-construction flowchart from the <a href="http://www.maricopa.gov/stormwater">www.maricopa.gov/stormwater</a> website.			
<b>MCM 6: Pollution Prevention/Good Housekeeping</b>	<u>BMP 1.</u> Maintain a regular street sweeping program	The County routinely sweeps streets to remove possible sources of stormwater pollution. The Maricopa County Department of Transportation swept more than 6220 miles in the unincorporated areas of Maricopa County during FY11.	No	2006	In progress.
	<u>BMP 2.</u> Evaluate County facilities with regards to pollution prevention practices	During FY11, 138 County owned and/ or operated facilities were inspected out of a total of 539 (26%). The Stormwater Quality Program completed an internal audit of County-owned and operated facilities in the spring of 2011. The audit process included an inspection of the site and an evaluation of their on-site Storm Water Pollution Prevention Plan, where applicable. Recommendations	No	2009	In progress

		for improvements were provided to each Department's designated representative. The County's Risk Management Department completed the update of more than 10 SWPPPs for County facilities. Posters displaying stormwater runoff control measures were created and placed in Animal Care & Control Department.			
	<b>BMP 3.</b> Development of a centralized, County-wide employee education and training program regarding pollution prevention	Continued implementation of an on-line pollution prevention training course available for all County employees. Topics included Introduction to Stormwater Pollution, Fleet Maintenance, Illicit Discharge Detection, Spill Prevention, Building and Grounds Maintenance, Parking/Storage Area Maintenance, and Materials Handling and Storage. 872 employees have received Stormwater related training which was conducted at 63 different County sessions/classes. Maricopa County Equipment Services continued placing the pollution prevention/illicit discharge stickers in all County vehicles, which instruct County employees on how to detect and report an illicit discharge.	No	2006	In progress.

Note: If you have developed a stormwater ordinance during the last reporting period, include a description or citation of the ordinance, or simply attach a copy of the ordinance.

Response: The Maricopa County Stormwater Quality Management and Discharge Control Regulation is available at [www.maricopa.gov/stormwater](http://www.maricopa.gov/stormwater)

NOTES to Section “B” preceding:

1. The Lower Salt River/Gila River below 27<sup>th</sup> Avenue is listed as “impaired” due to DDT.

**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 gathered and evaluated 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.

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Signature \_\_\_\_\_ Date \_\_\_\_\_

John Kolman  
Name (printed)

Director, Maricopa County Environmental Services Department  
Title

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Signature \_\_\_\_\_ Date \_\_\_\_\_

Neeraj Deshpande  
Name (printed)

Deputy Director, Maricopa County Environmental Services Department  
Title