



Maricopa County

Environmental Services

Stormwater Quality Program
15023 N 75th Street
Scottsdale, AZ 85260
Phone: 480-483-4703 x211
Fax: 602-372-0631
esd.maricopa.gov

August 30, 2012

Joanie M. Rhyner
Arizona Department of Environmental Quality
Stormwater and General Permits
Surface Water Section
1110 West Washington Street
Phoenix, AZ 85007



Re: Maricopa County 2012 Annual Report

Dear Ms. Rhyner

Please find attached a copy of Maricopa County Small MS4 Annual Report for the fiscal year 2012

A copy of this annual report will be made available for viewing via the website www.maricopa.gov/stormwater

Please address all inquiries to:

Robert van den Akker
Program Supervisor
Maricopa County Environmental Services
Stormwater Quality Program
15023 N 75th Street
Scottsdale, AZ 85260

Telephone (480) 483-4703 x211
Fax (602) 372-0631
Email: rvandenakker@mail.maricopa.gov

Sincerely,

John Kolman, R.S., MBA
Director, Maricopa County Environmental Services Department



**Maricopa County
Environmental Services Department
Quality and Compliance Division
Stormwater Quality Program**



AZPDES Phase II FY2012 Annual Report

August 2012



Introduction

Since 2003 Maricopa County has invested significant resources to regulate stormwater pollution and to provide surface water protection. The Maricopa County Board of Supervisors was authorized to operate the Municipal Separate Storm Sewer System (MS4) under the Phase II Arizona Pollution Discharge Elimination System (AZPDES) permit AZG2002-002 on December 19, 2007; the required Stormwater Management Program (SWMP) was approved on November 25, 2009. This is the fourth annual report that has been issued since the SWMP has been adopted, and each year the County strives to integrate the iterative process of review and perfection into all related permit compliance activities. It is the County's intent to continue the stormwater pollution prevention efforts, to protect environmental quality for the benefit of the citizens, and to be a leader in the local community in all actions and activities related to environmental quality.

The annual report form authored by the Arizona Department of Environmental Quality (ADEQ) has been a good tool for reporting activities performed under this permit. ADEQ has indicated that the form contains a suggested format for an annual report; therefore, using this document as a guide, the County has altered the items and format to provide an alternative method of representing Maricopa County activities. This updated format also provides the County with information that may be used for the future of the program. Please accept this updated format with the following information:

- Part A, "General Information", including the technical and billing contact for this permit.
- Part B, "Additional Information"
- Part C.a., "Stormwater Management Program Status", including the following columns:

MCM	Minimum Control Measure - The six MCMs listed in Part V.B. of the permit.
BMP	Best Management Practice activities in the Stormwater Management Program agreed upon through direction of the State on November 25, 2009
Measurable Goal	Achievable goals in the Stormwater Management Program agreed upon through direction of the State on November 25, 2009
New or Revised	Place an X in this column if the BMP or measurable goal is new or revised, such as replacement with another BMP, addition of a new measurable goal, or revision of a start date, etc. Briefly explain the change to the SWMP in the "Implementation Status" column.
Start Date	The scheduled start date (month and year) for each measurable goal. Enter the actual start date of the activity or program.
Implementation Status/Frequency/Achievement	This column is for enumerating the compliance activities performed during the reporting period and may include the actual number of activities, percent reached, or frequencies performed. Additionally, it may indicate comments on the implementation status (such as "completed", "in progress", or "not started"), notes on permit compliance status, or an explanation for any BMP for which a zero (0) has been reported. If an activity is in progress, but has an expected end or completion date, indicate the expected achievement date.
Responsible Entity	The department or division in the municipality responsible for performing this activity.
Documentation	List the documentation used to support the reported number, status, and/or achievement date.

- Part C.b., "Stormwater Management Program Changes", include changes that are to be added to the program. This includes new or altered BMPs or minor SWMP changes found to be lacking during the program year. These BMPs or minor SWMPs will be implemented immediately in the next reporting period. Additionally, significant SWMP changes will be added here as a formal request to ADEQ for approval. Implementation of significant SWMPs shall occur upon acceptance in writing by ADEQ.

AZDEQ Phase II MS4 Annual Report Form

A. General Information

Name of Permittee:	Maricopa County Board of Supervisors
Permit number:	AZG2002-002
County:	Maricopa County
Annual Report Period:	FY2012: 07/01/2011 - 06/30/2012
Annual Report due date:	09/30/2012
Responsible Authority:	John Kolman
Title:	Director
Section:	Environmental Service Department, Office of the Director
Address:	1001 N. Central Ave., Suite 401, Phoenix, AZ 85004
Telephone Number:	(602) 506-4847
Email Address:	jkolman@mail.maricopa.gov
Technical Contact:	Robert van den Akker
Title:	Stormwater Program Supervisor
Section:	Environmental Services Department, Quality & Compliance Division, Stormwater Quality Program
Address:	15023 N. 75th Street, Scottsdale, AZ 85260
Telephone Number:	(480) 483-4703 x 211
Email Address:	rvandenakker@mail.maricopa.gov
Billing Contact:	Fran McCarroll
Title:	Clerk of the Board
Address:	301 West Jefferson, 10th Floor, Phoenix, AZ 85003
Telephone Number:	602-506-3766

B. 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	X	NO	
2. The MS4 has annexed lands.	YES	*	NO	X
3. Impaired Waters				
a. The MS4 discharges directly to an impaired water.	YES		NO	X
b. Impaired waters within 10 miles of the MS4's jurisdiction.	YES	X	NO	
4. TMDLs				
a. The MS4 discharges directly to water for which a TMDL has been established.	YES		NO	X
b. A TMDL has been established for surface waters within 10 miles of the MS4's jurisdiction.	YES		NO	X
5. The MS4 has conducted analytical monitoring of stormwater quality.	YES		NO	X
6. The MS4 is relying on another government entity to satisfy some permit obligations.	YES		NO	X

*See Attachment

C.a. Stormwater Management Program Status:

MCM	BMP	Measurable Goal	New or Revised	Start Date	Implementation Status / Frequency / Achievement	Responsible Entity	Documentation
1. Public Education and Outreach							
	1.1 Develop and distribute educational materials						
	Distribute at least 500 pamphlets annually			12/2006	Completed	ESD	Public Education.accdb
	Number of pamphlets distributed			12/2006	168,384	ESD	Fact Sheets-Brochures.pdf
					The County uses a variety of sources for education materials including bookmarks, mailers, brochures, pamphlets, fact sheets, coloring books, as well as providing the regulation to the public. These materials are distributed in a variety of events including special events, public buildings, and on the internet. The number reported includes all educational materials on all stormwater pollution prevention topics. In addition, the County has distributed 4,763 promotional items with educational information on them including Frisbees, magnetic clips, pencils, pens, pet waste containers, and more.		
	Website activity	X		12/2006	132,975 Page views 149,225 Downloads	ESD	Minimum Control Measures FY12.xls
					This is the total page views and downloads for all Stormwater related websites within the County.		Internet Report FY12.pdf
	1.2 Public education radio campaign on stormwater						
	PSA aired for at least 4 weeks			12/2006	Completed	STORM	STORM FY2012 annual Report
	PSA aired timeframe			12/2006	<ul style="list-style-type: none"> September 5th, 2011 - October 23, 2011 (7 weeks) - prevent pesticides and fertilizer pollution - ran on 10 radio stations May 7, 2012 - June 24, 2012 (7 weeks) - prevent pollution from leaking vehicles - ran on 10 radio stations 	STORM	
	Estimate of population reached	X		12/2006	>3,000,000 total estimated population reached with each event	STORM	
	1.3 Maintain and update the Maricopa County Stormwater Website						
	Website maintained with the SWMP and NOI			12/2006	Completed	ESD	Minimum Control Measures FY12.xls
					The County has 11 pages on the Stormwater website dedicated to the program. They may be found at http://www.maricopa.gov/stormwater These pages have links to a large number of downloads and resources for business, construction, citizens and students.		Internet Report FY12.pdf

MCM	BMP	Measurable Goal	New or Revised	Start Date	Implementation Status / Frequency / Achievement	Responsible Entity	Documentation
		SWMP and NOI website activity		12/2006	20,455 downloads	ESD	Internet Report FY12.pdf
2. Public Involvement / Participation							
2.1 Provide various vehicles of communication to the general public for feedback to the County							
		Provide 500 surveys annually		12/2009	Completed	ESD	Minimum Control Measures FY12.xls
		Number of surveys provided		12/2009	10,000	ESD	
		Survey responses received		12/2009	155	ESD	FY2012 Survey Report
2.2 Develop a Stormwater Stakeholder Workshop							
		Stakeholder workshop(s) held		12/2009	2	ESD	Minimum Control Measures FY12.xls
		Number of attendees		12/2009	16	ESD	
					One Public meeting for the draft FY2011 annual report held in September, 2011, and a public meeting to announce and field questions to proposed changes to the stormwater regulation related to licensing time frames.		Notice of Public Meeting Advisory Re: Stormwater Quality Program Regulation
2.3 Establish stormwater related contests for school children and local communities							
		Minimum of one contest per year		12/2009	Completed	ESD	Minimum Control Measures FY12.xls
		Number of contests		12/2009	1	ESD	
					The announcement of the winner of the contests may be found at: http://www.maricopa.gov/EnvSvc/QC/StormWater/pdf/2012winners.pdf		
		Number of submittals		12/2009	165	ESD	
		Number of participating schools		12/2009	5	ESD	
3. Illicit Discharge Detection and Elimination							
3.1 Identification of illicit discharges through an inspection program							
		Storm sewer system map with location of outfalls and receiving WoUS		12/2009	In Progress, expected achievement date 12/2015 As of May 2012 it was estimated that the County had 1144 outfalls. Of those outfalls, 569 were inspected in FY2012. See Part C.b.3.1 for further detail.	ESD	GIS map and inventory
		Illicit discharge improper disposal detection and elimination program		12/2009	Completed	ESD	SOPs for the SWQP
		Illicit discharge improper disposal detection and elimination citation		12/2009	0 Citations	ESD	Health Code Violations FY2012

MCM	BMP	Measurable Goal	New or Revised	Start Date	Implementation Status / Frequency / Achievement	Responsible Entity	Documentation
					No violations were observed that required or were escalated to the issuance of citations. In addition to the Stormwater Quality Program proactive inspections, ESD has a variety of other programs that inspect commercial facilities throughout the County enforcing the Maricopa County Health Code. Chapter II of the Health Code includes protection of waters of the county, including the storm system, and defines illicit discharges. Of these health inspections, 38 resulted in findings of illicit discharge violations that were noted to be in the UUA. All of these violations were resolved.		inventory GIS Map
		Staff performing inspections (at least one staff)		12/2009	3	ESD	Environmental Services SWQP Contact list
		Percent of outfalls inspected for FY2012 (Minimum 20 Percent annually)	X	12/2009	49%	ESD FCD	GIS map and inventory of outfalls
		Percent of outfalls inspected in total		12/2009	100%/50% (estimate) In progress, Achievement date expected in December 2015 100% of the 2000 UUA, but in May of 2012 the US Census Bureau and EPA issued the new Urbanized Area map for the country and effectively doubled the jurisdiction of our permit.	ESD FCD	FCD Maricopa County Outfall Summary
3.2 Implement a complaint response program							
		Complaints received		12/2009	337	ESD MCDOT FCD	Minimum Control Measures FY12.xls
		Enforcement actions taken		12/2009	0 No compliant investigations resulted in or were escalated to enforcement action.	ESD MCDOT FCD	MCDOT - website end 6-1 office phone line
		Average Complaint Response time(days) (≤ 15 days)		12/2009	<5 days	ESD MCDOT FCD	FCD emails of complaints
		Complaint type(s)		12/2009	Wash water discharge, construction without BMPs, road debris, illegal dumping, pool water discharges, and hazardous material response.	ESD MCDOT FCD	
3.3 Educate businesses and the general public about hazards associated with illegal discharges to storm sewer systems							
		Distribute 5,000 Pamphlets annually		12/2009	Completed	ESD	Minimum Control Measures FY12.xls
		Number of pamphlets distributed		12/2009	168,384	ESD	Fact Sheets-

MCM	BMP	Measurable Goal	New or Revised	Start Date	Implementation Status / Frequency / Achievement	Responsible Entity	Documentation
					Illicit discharge printed materials and web downloads.		Brochures.pdf
4 Construction Site Stormwater Runoff Control							
4.1 Establish an enforcement mechanism to require erosion and sediment controls at construction sites \geq 1 acre							
		Rules established		12/2009	Completed	ESD	MARICOPA COUNTY STORMWATER QUALITY MANAGEMENT AND DISCHARGE CONTROL REGULATION C-88-09-008-7-00 05/06/2009 Advisory Re: Stormwater Quality Program Regulation
		Rules drafted		12/2009	1 The County has drafted Chapter 13 of the MARICOPA COUNTY STORMWATER QUALITY MANAGEMENT AND DISCHARGE CONTROL REGULATION so that it is in line with the licensing time frame requirements of the ARS Title 11, Chapter 11, Article 1: 11-1605. The draft is pending review by internal County Departments.	ESD	
		Newly established rules		12/2009	Completed	ESD	
4.2 Review and update Maricopa County construction site BMP Manual							
		Research BMPs for Vol. III 2009 update		12/2009	Completed	ESD	ErosionControlManualDraft.pdf
		Additional updates or changes made		12/2009	In Progress - Unable to estimate achievement date. The Erosion Control Manual has been recently updated. It is still in draft form, but has been considered complete in July 2012. A Public Review period of the draft manual has been completed and all review comments addressed. Several minor changes have been completed, as well as revisions related to changes in State of Arizona and federal requirements, and are described on the Revisions page within the document. The draft is currently accepted by County departments as the standard for erosion control. It is pending final issuance and signature by the Board of Supervisors. The draft may be found at: http://www.fcd.maricopa.gov/Pub/manuals/downloads/ErosionControlManualDraft.pdf	ESD FCD P&D	
4.3 Review plans and permit applications							
		Implement plan review process		12/2009	Completed	ESD	
		Staff performing plan review		12/2009	1	ESD	
		Number of permit applications reviewed		12/2009	9	ESD	Construction Database.accdb
4.4 Establish a stormwater inspection program							

MCM	BMP	Measurable Goal	New or Revised	Start Date	Implementation Status / Frequency / Achievement	Responsible Entity	Documentation
		Number of Stormwater inspections		12/2009	15 Although there were 9 plans reviewed, only 5 actually began ground movement activity. 10 inspections were on Flood Control Construction sites.	ESD FCD	Construction Database.accdb
		Problems observed		12/2009	0 No problems with BMP installation were observed.	ESD	
		Enforcement actions taken		12/2009	0 No enforcement actions were taken during this reporting period.	ESD	
4.5 Establish a complaint response program							
		Number of construction complaints received		12/2009	0	ESD	
		Type of construction complaints		12/2009	0	ESD	
		Construction compliant response times (≤15 days)		12/2009	0	ESD	
		Enforcement actions taken on construction sites		12/2009	0 Note: The low number of construction applications and active construction sites may be the reason for the lack of complaints related to construction.	ESD	
4.6 Provide educational information on the County's Stormwater Website							
		Active web pages for construction		12/2009	3	ESD	
		Number of webpage hits	X	12/2009	132,084	ESD FCD	Minimum Control Measures FY12.xls Internet Report FY12.pdf
5 Post construction Stormwater Management in New Development and Redevelopment							
5.1 Develop and adopt technical guidance materials							
		Review and develop technical guidance		12/2009	Completed	ESD	Minimum Control Measures FY12.xls, http://www.fcd.marcopa.gov/Pub/Manuals/downloads/DPSM_Adopted_041807.pdf
		Available on County Website		12/2009	Completed	ESD	
		Distribute guidance materials annually (Minimum 500)		12/2009	Completed	ESD	
		Number of materials distributed		12/2009	132,084	ESD FCD	
		Method of distribution	X	12/2009	Internet pages	ESD	

MCM	BMP	Measurable Goal	New or Revised	Start Date	Implementation Status / Frequency / Achievement	Responsible Entity	Documentation
					Beside pages on the website, education is provided to contractors and citizens during preconstruction meetings and other public interactions that are not documented and therefore not reported here.		Internet Report FY12.pdf
		5.2 Review plans and permit applications					
		Implement plan review process		12/2009	Completed	ESD	
		Staff person for plan review		12/2009	1	ESD	
		Number of permit applications reviewed		12/2009	4	ESD	Construction Database.accdb
		5.3 Conduct construction site inspections					
		Establish stormwater inspection program		12/2009	Completed		
		Number of Inspections performed		12/2009	3	ESD	Minimum Control Measures FY12.xls, Construction Database.accdb
		Number of Violations observed		12/2009	0	ESD	
		Number of Corrective actions required		12/2009	0	ESD	
		Number of Enforcement actions performed		12/2009	0	ESD	
					No violations were observed, no corrective actions were required, and no enforcement actions were performed during this reporting period.		
		5.4 Create and distribute educational materials for the development community					
		Create and publish educational materials for development		12/2011	Completed	ESD	Minimum Control Measures FY12.xls
		Distribute 500 annually		12/2011	Completed	ESD	
		Number distributed		12/2011	16,806	ESD	
					Handouts at events, stockpiles of fact sheets at public buildings and downloads from the website.		Fact Sheets-Brochures.pdf
6 Pollution Prevention/Good Housekeeping for Municipal Operations							
		6.1 Maintain a regular street sweeping program					
		Maintain a regular street sweeping program		12/2009	Completed	MCDOT	
		Number of miles swept		12/2009	743	MCDOT	Contractor Schedule
					(Total miles swept county wide by MCDOT 6525 miles)		

MCM	BMP	Measurable Goal	New or Revised	Start Date	Implementation Status / Frequency / Achievement	Responsible Entity	Documentation
		Frequency of sweeping		12/2009	16 week frequency for arterial streets, 8 week for residential and 2 week for special cycle streets	MCDOT	Hard copy maps of areas swept
6.2 Evaluate County facilities with regards to pollution prevention practices							
		Number of county facilities inspected/yr (Minimum 20%/yr)		12/2011	152 (31%)	ESD MCDOT EQSR FCD	Minimum Control Measures FY12.xls
		Total number of facilities		12/2011	478		Monthly inspection forms for the daily inspections at ESQR
		Number of Inspections	X	12/2011	1419 This number includes EQSR inspections of their 5 facilities on each business day.		inspection_spreadsheets_v9.xlsx
		Recommendations for change (Minimum 2/yr)		12/2011	24		SWQP Inspection forms SWQP Inspection forms and Email communication
6.3 Development of a centralized, County-wide employee education and training program regarding pollution prevention							
		Number of educational workshops (Minimum 2/yr)		12/2009	86	AQ EQSR ESD FACILITIES FLOOD MCDOT P&D PARKS RISK SO WRR	Public Education.accdb
		Number of staff trained		12/2009	589		

C.b. Stormwater Management Program Changes

For the removal of SWMPs Provide:

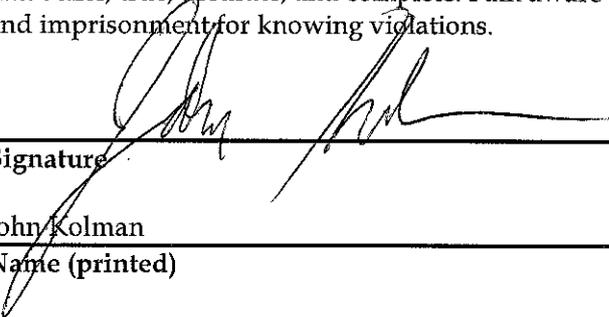
- i. Analysis of ineffective or infeasible SWMP (including cost prohibitive),
- ii. Expectations on the effectiveness of the replacement practice
- iii. Analysis of why the replacement practice is expected to achieve the goals of the replaced practice

MCM	BMP	Measurable Goal	Modification Type: BMP or Measurable Goal (MG)	Start Date	Explanation	Responsible Entity	Documentation
1	1.1	Website Activity	MG	12/2006	Addition: The County has reported the website activity, including views and downloads, but not considered it to be a measurable goal. It is the County's intent to be aware of the website activity, and to ensure web pages have information that is of value, accessible, and relevant to the needs of population and stormwater/surfacewater protection. Documenting and reporting this information as a measurable goal is of benefit to the program.	ESD	Internet Report FY12.pdf
1	1.2	Estimate of population reached	MG	12/2006	Addition: The County has reported the population reached, but not considered it to be a measurable goal. Documenting and reporting this information as a measurable goal is of benefit to the program.	STORM	
2	1.3	SWMP and NOI website activity	MG	12/2006	Addition: The County has reported the website activity, including views and downloads, but has not considered it to be a measurable goal. It is the County's intent to be aware of the website activity, and to ensure web pages have information that is of value, accessible, and relevant to the needs of population and stormwater/surfacewater protection. Documenting and reporting this information as a measurable goal is of benefit to the program.	ESD	Internet Report FY12.pdf
3	3.1	Percent of outfalls inspected for FY2012 (Minimum 20 Percent annually)	MG	12/2009	Revision: The County is required to revise the outfall inspections program. Although the County completed the review for outfalls in the UUA in May of this reporting year, the UUA was also altered by the completion of the 2010 Census Bureau map update, also in May of 2012. This map update has caused the permit jurisdiction area to double in size, from 82 square miles to 153 square miles. Because of this new area the County is now unaware of the total number of outfalls that exist in the permitted jurisdiction. Per the SWMP, the County has recently reviewed and updated policies and procedures for outfall investigations. The next step is to continue the outfall inspection process until the entire UUA has been reviewed; including ground-truthing previously recorded areas for outfalls following the updated procedures. Once the entire UUA has been inspected, the County will begin the SWMP-required inspections of 20% of all outfalls each year for the duration of the permit term. The review of the UUA prior to the 2010 Census Bureau update required a full three years to complete; it is estimated that the complete inspection of the new UUA will require the same amount of time to complete. This outfall investigation project is expected to be completed for the entire UUA in December of 2015.	ESD FCD	GIS map and inventory of outfalls FCD Maricopa County Outfall Summary
4	4.6	Number of webpage hits	MG	12/2009	Addition: The County has reported the website activity but not considered it to be a measurable goal. It is the County's intent to be aware of the website	ESD	Internet Report FY12.pdf

MCM	BMP	Measurable Goal	Modification Type: BMP or Measurable Goal (MG)	Start Date	Explanation	Responsible Entity	Documentation
					activity, and to ensure web pages have information that is of value, accessible, and relevant to the needs of population and stormwater/surfacewater protection. Documenting and reporting this information as a measurable goal is of benefit to the program.		
5	5.1	Method of distribution	MG	12/2009	Addition: The County has been reporting and documenting the number of materials and method of distribution, but has not called it a measurable goal. It is the County's goal to be aware of the number of and type of brochures distributed to ensure that appropriate information is disseminated to the public on current stormwater pollution concerns in as effective manner as possible. Documenting and reporting this information as a measurable goal is of benefit to the program.	ESD	Minimum Control Measures FY12.xls, http://www.fcd.maricopa.gov/Pub/Manuals/downloads/DPSM_Adopted_041807.pdf Internet Report FY12.pdf
6	6.2	Number of Inspections	MG	12/2011	Addition: The County has been reporting and documenting the number of inspections performed, but had not considered it to be a measurable goal. It is the County's goal to be aware of all inspection activities that are being performed, evaluate such activities in relation to stormwater pollution prevention permit compliance, and ensure that staff performing inspections are appropriately addressing stormwater pollution prevention concerns. Documenting and reporting this information as a measurable goal is of benefit to the program.	ESD MCDOT EQSR FCD	Minimum Control Measures FY12.xls Monthly inspection forms for the daily inspections at ESQR inspection_spreadsheets_v9.xlsx SWQP Inspection forms

D. Certification (40 CFR 122.22)

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.



Signature

8-30-12
Date

John Kolman

Name (printed)

Director

Title

Acronyms

AQ	Maricopa County Air Quality Department
EQSR	Maricopa County Equipment Services Department
ESD	Maricopa County Environmental Services Department
FACILITIES	Maricopa County Facilities Department
FLOOD	Maricopa County Flood Control Department
MCDOT	Maricopa County Department of Transportation
P&D	Maricopa County Planning and Development Department
PARKS	Maricopa County Parks Department
RISK	Maricopa County Risk Management Department
SO	Maricopa County Sheriff's Office
WoUS	Water of the United States
WRR	Maricopa County Waste Resources and Recycling
STORM	ST ormwater O utreach for R egional M unicipalities
SWQP	Stormwater Quality Program

From the official report form:

Instructions

Regulated Municipal Separate Storm Sewer Systems (MS4s) must submit annual reports to Arizona Department of Environmental Quality (ADEQ) for each year of the permit term. In compliance with the MS4 General Permit, an MS4 must annually review its Stormwater Management Program (SWMP) in conjunction with the preparation of the annual report. This document is a suggested format for annual reporting.

Submit a signed copy of your annual report no later than September 30 of each year to:

**Arizona Department of Environmental Quality
Surface Water Section/ Stormwater & General Permits Unit (5415A-1)
1110 West Washington Street
Phoenix, AZ 85007**

Attachment

Part B "Additional Information"

B.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 X NO

Regarding B.1.:

Please see part C.b above for minor BMP changes to the SWMP.

B.2. The MS4 has annexed lands.

YES * NO X

Regarding B.2.:

The County has not annexed lands; however, after the Decennial Census of 2010 and the completion of the 2010 Urbanized Area, the County's Urbanized Unincorporated Area (UUA) has increased from 82 square miles to 153 square miles.

B.3.b. Impaired waters within 10 miles of the MS4's jurisdiction.

YES X NO

Regarding B.3.b.:

- The Salt River, Gila and Hassayampa Rivers are impaired for Chlordane, DDT, and Toxaphene. All of these chemicals have been banned and are no longer used. The EPA has directed that a TMDL is needed but has not been established. The regular use of these chemicals has been with agriculture, and the authority over agricultural practices is with ADEQ. These waterbodies do not receive a direct discharge from the County UUA.**
- Canyon Lake is impaired for Dissolved Oxygen. This waterbody does not receive a direct discharge from the County UUA.
- Chaparral Park Lake is impaired for Dissolved Oxygen and E Coli. This waterbody does not receive a direct discharge from the County UUA.
- Alvord Park Lake is impaired for un-ionized Ammonia; No TMDL's have been established. This waterbody does not receive a direct discharge from the County UUA.
- Cortez Park Lake is impaired for Dissolved Oxygen and pH. No TMDL's have been established. This waterbody does not receive a direct discharge from the County UUA.
- Lake Pleasant is impaired for Mercury due to Mercury in fish. No TMDL's have been established. This waterbody does not receive a direct discharge from the County UUA.

*The UUA has recently been updated. It is currently speculated that the MS4 discharges within 10 miles of these surface waters, but further field verification is required.

**The chemicals of concern, Organochlorines, originally used widely as insecticides beginning in the 1940's, are runoff/leaching agents for stormwater and surface water pollution, and have been implicated by federal agencies as a significant health related concern for citizens and the environment. They strongly bind to soils and the sediments of waterbodies, and it is believed they gradually evaporate to the air where they are slowly broken down by sunlight.

1. Chlordane, or chlordan, is an organochlorine insecticide. It was banned in 1983, but is very persistent in the environment and may remain in soils for 20 - 30 years before it breaks down. It was used to control insects on crops. Chlordane is very stable in the environment.
2. DDT (dichlorodiphenyltrichloroethane) is an organochlorine insecticide. It was banned in 1972 but is persistent in the environment, taking between 12 to 15 years or more to break down and commonly causes fish consumption

advisories. Its uses include combating malaria, typhus, and the other insect-borne human diseases and for insect control in crop and livestock production.

3. Toxaphene, also known as camphechlor, chlorocamphene, polychlorocamphene, and chlorinated camphene, is an organochlorine insecticide. It was banned by the EPA in 1982. Relatively nontoxic to bees, toxaphene was used to control insects on cotton, corn, fruit, vegetables, and small grains as well as to protect livestock from such pests as lice, fleas, ticks, mange, and scab mites. Persistent in nature, it remains in soil for up to 14 years.

* Information obtained from the WHO, USEPA, and ATSDR Toxicological Profile