



City of Chandler
Small Municipal Separate Storm Sewer System
Annual Report

July 1, 2013 through June 30, 2014





September 22, 2014

Arizona Department of Environmental Quality
Stormwater and General Permits Unit
1110 W. Washington Street, Mail Code 5415A-1
Phoenix, AZ 85007

RE: City of Chandler Small MS4 Annual Report: July 1, 2013 – June 30, 2014

Please find enclosed one (1) copy of the City of Chandler's Small Municipal Separate Storm Sewer System (MS4) Annual Report for the reporting period July 1, 2013 through June 30, 2014. The City of Chandler looks forward to your comments and a continuing effort to address stormwater quality. Should you have questions, please don't hesitate to call me at (480) 782-3503.

Sincerely,

Dave Verhelst
Stormwater Programs Coordinator
City of Chandler

Cc: Rex Hartmann, Streets Superintendent
Cc: Dan Cook, Transportation Manager
Cc: R.J. Zeder, Transportation & Development Director

Mailing Address
Mail Stop 909
PO Box 4008
Chandler, Arizona 85244-4008

Public Works Department
Street Division
Telephone (480) 782-3500
Fax (480) 782-3495
www.chandleraz.gov

Location
Building C
975 East Armstrong Way
Chandler, Arizona 85249

Small MS4 Annual Report Form

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

A. General Information

Name of MS4: City of Chandler

Contact Name: Dave Verhelst

Telephone Number: (480)782-3503 Email Address: david.verhelst@chandleraz.gov

Annual Report Period: July 1, 2013 through June 30, 2014

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 checked="" type="checkbox"/> | NO <input 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 type="checkbox"/> | NO <input checked="" 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"/> |

Section B – Part 1: No changes have been made to the SWMP since the last annual report.

New Best Management Practices:

No new best management practices have been implemented during the reporting period. ADEQ has not requested that changes to the City's SWMP were necessary.

Updated/Changed Best Management Practices

No best management practices have been changed or updated during the reporting period.

Section B – Part 2: The City Has Annexed Lands

During the reporting period, the City of Chandler annexed 40.91 acres of land. The 6 annexations include undeveloped and former agricultural properties and County rights-of-way. A map has been included detailing the location of the properties annexed. If necessary during and post development, the following BMPs will be implemented in these areas:

- Public Meetings
- Stormwater System Map
- Plan Review
- Spill Prevention and Detection
- Grading and Drainage Permits
- Construction Site Inspections
- Construction Stormwater Handbook
- Property Owner's Manual
- Storm Drainage System Technical Design Manual
- Final and One-Year Warranty Inspections
- Street Cleaning
- Illegal Dumping Response

FY 2013-2014 Annexations

Ordinance Number	Adoption Date	Effective Date	Annexed Acreage	Location	Parcel #
4484	9/26/2013	10/26/2013	0.25	North of the Northwest Corner of Sunrise Place and Gilbert Road	N/A
4485	9/26/2013	10/26/2013	1.82	South of the Southwest Corner of McQueen and Ocotillo Roads	30346017B
4485	9/26/2013	10/26/2013	12.48	South of the Southwest Corner of McQueen and Ocotillo Roads	30365796 to 30365842
4486	9/26/2013	10/26/2013	2.51	North of the Northwest Corner of Cooper and Chandler Heights Roads	30345002Y and 30345002Z
4487	9/26/2013	10/26/2013	4.81	Northeast Corner of Gilbert Road and Queen Creek Road	30456004M and 304569258
4526	3/13/2014	4/12/2014	19.04	West of the Northwest corner of Riggs and Lindsay Roads	30482017T and 30482019Z
		Total	40.91		

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

TABLE 1

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Public Education and Outreach	Newsletter Articles	Notification of the 2013 Annual Drinking Water Quality Consumer Confidence Report including information on stormwater runoff and pollution prevention was mailed to 102,984 addresses in June 2014. CityScope Newsletter articles <i>Dispose of your HHW Safely</i> (July-August 2013), <i>Protect Chandler Water</i> (September-October 2013), <i>Only Rain in the Storm Drain</i> (December 2013-January 2014), <i>Spring Cleaning Tips</i> (April-May 2014), <i>Responsible Pet Ownership</i> (May-June 2014) were distributed via utility bills and at City facilities. Distribution is approximately 70,000. Copies of the newsletters are included in Appendix A.		May 2003	Completed. Newsletter articles such as the City's Annual Drinking Water Quality Report and other City sponsored newsletters will continue and will be distributed to residents by bulk mail or in utility bills, City employees and available at City facilities.
Public Education and Outreach	Storm Water Brochure	Brochures may be included in new resident packets and distributed at City kiosk at Chandler Fashion Square Mall, City libraries, and handed out at City events, various neighborhood meetings, HOA board meetings, special events and/or IDDE related responses. Distributed 652 brochures during the reporting period. Copy of brochure included in Appendix B.		August 2003	Completed. Distribution of brochures at City locations, events and meetings will continue. Distribution will be tracked during the next reporting period.
Public Education / Public Involvement	Storm Water Webpage	Developed webpage on City website. There were 978 visits to the webpage, with 1,377 page views reported. Copies of webpage content included in Appendix C.		August 2003	Completed. Website will be periodically updated with new information. Site visits and page views will continue to be tracked during the next reporting period.
Public Education	Storm Water Signage	20 signs were originally purchased. No signs were installed during reporting period.		January 2004	Completed. Signs will be produced and installed in City retention basins when appropriate. Installation and location will be tracked during the next reporting period.
Public Education / Public Involvement	Storm Drain Placards	6,000 cast aluminum placards were originally purchased. 75 placards were installed during the reporting period.		July 2003	Completed. Installation and/or replacement of placards on storm drain inlets will continue and will be tracked during the next reporting period. Placards are replaced when necessary and installed during new construction.

TABLE 1 (continued)

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Public Education	Landscape and Lawn Care	Assist in the management of irrigation runoff. 58 new residential low water use landscape installations, 37 low water use landscape conversions and 43 irrigation timer rebates.		March 2003	Completed. Conversions and timer rebates will continue as funding allows. Conversions and rebates will be tracked during the next reporting period.
Public Education / Public Involvement	Conservation Calendar	Held 4th grade Environmental Art Contest. Created calendar and poster incorporating the winning artwork. 4,000 calendars and 300 posters were printed and distributed in December 2013 to January 2014. 755 entries from 37 charter, private and public schools from Kyrene, Mesa and Chandler School districts were received in March 2013. Artwork is displayed on the City's waste and recycling trucks and on City websites. Calendar included in Appendix D.		August 2003	Completed. The conservation calendar will continue and will be distributed to schools and at City events. Art contest and calendar production will continue as funding allows.
Public Education / Public Involvement	Classroom Presentations	No invites from teachers during this reporting period.		May 2004	Completed. Classroom presentations will continue to be available and encouraged.
Public Education / Public Involvement	Hamilton High School Science Fair	Approximately 4,000 spectators and 1,500 participants attended the fair. Discussed storm water pollution prevention and related information through use of STORM display boards and other information. The following items were distributed at the event: 92 rain gauges, 89 magnetic clips, 136 brochures, 100 wristbands, 46 key chains, 111 Bags-on-Board dispensers, 133 recycled content bags, 45 can koozies, 55 oil funnels, 150 mood pencils, 74 magnetic notepads and 15 Storm Drain Dan activity books.		February 2004	Completed. The City expects to participate in the next Hamilton High Science Fair in February 2015. Distribution and tracking of attendees and program promotional items will be tracked during the next reporting period.
Public Education	STORM Membership	STORM website (www.azstorm.org) with stormwater related information. Display boards illustrating the difference between sanitary and storm sewer system and pollution prevention are utilized at public events. Radio public service announcements and development and distribution of promotional items were completed. The STORM Annual Report is included in Appendix E.		March 2003	Completed. The City will continue yearly membership with STormwater Outreach for Regional Municipalities (STORM) as funding allows.

TABLE 1 (continued)

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Public Education	Rain gauges	244 rain gauges with "Please...only rain in the storm drain", city website address and contact information were distributed at City attended events. These events included the Hamilton High School Science Fair, 11th Annual 4th Grade Environmental Art Contest Awards Ceremony, Intel Green-it Fair, Earth Day Event, Health Connect Expo and Springfield Community Day.		April 2005	Completed. Distribution of rain gauges will continue as funding allows. Distribution will be tracked during next reporting period.
Public Education	Public Works @ Work, City cable show	A storm water pollution prevention video segment aired a minimum of 2 times per week. A storm water message slide "Keep Your Drinking Water Safe" aired throughout the year on the Channel 11 bulletin board. The message aired over 1,000 times. Copies of the video PSA and slide are included in Appendix F.		March 2005	Completed. Video segments and messages are updated and will be aired. Number of airings will be tracked during the next reporting period.
Public Participation	Public Meetings	During the reporting period, the City's Communications & Public Affairs Department worked with the Transportation & Development Department to hold one public meeting involving construction projects that included storm water collection and/or distribution components. A total of 13 individuals signed in at the meetings. Copies of the sign-in sheets are included in Appendix G.		June 2003	Completed. Public meetings associated with Capital Improvement Projects will continue and will be documented during the next reporting period.
Public Participation/Illicit Discharge Detection and Elimination	Storm Water Pollution Hotline	Phone number identified on City website, brochures and promotional items distributed. Residents can call with storm water related issues or concerns. Approximately 45 calls were received.		November 2004	Completed. The City will continue to track calls during the next reporting period.
Illicit Discharge Detection and Elimination	Storm Water System Map	Collect as-built information on storm drain system, identify new system components		March 2003	Completed. The City will continue to collect data and update data from as-built information, site inspections, etc.
Illicit Discharge Detection and Elimination	Storm Drain Video	Video storm drains for illicit connections and infrastructure condition. No video of storm drains was conducted during the reporting period.		May 2005	Completed. The City will continue to utilize video services to inspect storm drains, connections and laterals when necessary.
Illicit Discharge Detection and Elimination/Post-Construction Stormwater	Plan Review	Plan reviews are completed to catch any illicit connections from wastewater discharge into the stormwater system.		March 2003	Completed. The City will continue plan review for any illicit connections from wastewater discharge into the stormwater system.

TABLE 1 (continued)

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Illicit Discharge Detection and Elimination/Pollution Prevention Good Housekeeping	Spill Prevention and Containment	Prevention/containment of debris, materials and spills potentially entering the storm drain system. A total of 160 incidents/spills were responded to and resolved. The Streets Division responded to 154 calls associated with spills or debris clean-up. Environmental Management staff responded to 6 calls during the reporting period. Summaries of the spills and incidents responded to and spill response forms are included in Appendix H.		March 2003	Completed. The City will continue to report incidents/spills responded to during the next reporting period.
Illicit Discharge Detection and Elimination	Dry Weather Field Screening	Ten discharge points were inspected. Arrowhead and Denver Basins were inspected weekly. Inspection forms are included in Appendix I.		March 2003	Completed. The City will continue field screening inspections and completion of inspection forms.
Construction Site Runoff Control	Grading and Drainage Permits	A grading and drainage permit is required for new projects. These detail the City's requirements for runoff control. 31 permits were issued during the reporting period. A list of the Grading and Drainage Permits issued is included in Appendix J.		March 2003	Completed. The number of permits issued will be tracked during the next reporting period.
Construction Site Runoff Control	Construction Site Inspections	Sites are inspected for infractions to the Grading and Drainage Permit, State, County and/or City regulations and Standards. 9 final inspections were completed. 90 erosion and sediment control inspections were completed. A copy of the final inspection list and stormwater site inspection list are included in Appendix K.		March 2003	Completed. The number of inspections will be tracked during the next reporting period.
Construction Site Runoff Control	Construction Storm Water Handbook	City of Chandler Unified Development Manual is available through the City's website. The Manual provides a single source for construction site BMPs, sediment control; permit applications, inspections, and non-stormwater and water management issues. 24,893 visits to the webpage, with 45,332 page views reported. There were 252 visits and 420 page views associated with the City of Chandler Manual on Stormwater Quality Protection.		August 2003	Completed February 2005. Site visits and page views will continue to be tracked during the next reporting period.

TABLE 1 (continued)

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Post Construction Storm Water Management	Property Owner's Manual	Property Owner's Manual provides a means to inform property owners about stormwater management, pollution prevention and maintenance requirements. Copy of Manual included in Appendix L.		November 2004	Completed February 2005. Manual will be updated when necessary. The manual is distributed to Home Owner's Associations and other private property owners.
Post Construction Storm Water Management	Storm Drainage System Technical Design Manual	The manual outlines the design and policy for hydrology design, street drainage, storm drains, basins, and disposal of storm water and maintenance standards. Available as part of Unified Development Manual.		March 2003	Completed. Manual is reviewed and updated as needed.
Post Construction Storm Water Management	One-year Warranty Finals	A one-year warranty inspection is completed for developments and redevelopments to ensure that structures are constructed and operating properly. Twenty one-year warranty Inspections were completed. A copy of the one-year warranty list is included in Appendix K.		March 2003	Completed. The number of inspections will be tracked during the next reporting period
Pollution Prevention and Good Housekeeping	Street Cleaning	65,960 total miles of streets were swept with 1,783 tons of material removed.		March 2003	Completed. The City will continue street sweeping and will report miles and tonnage of material removed during the next reporting period.
Pollution Prevention and Good Housekeeping	Illegal Dumping / Illicit Discharge Response	110 illicit discharge or illegal dumping calls were responded to and abated. Summary Report Included in Appendix M.		March 2003	Completed. Number of calls responded to and abated will be tracked during the next reporting period.
Pollution Prevention and Good Housekeeping	Employee Training	201 employees attended training sessions associated with pollution prevention. Topics included; stormwater management program awareness, municipal stormwater pollution prevention, illicit discharge detection and elimination, drywells, dust control and hazardous spill response. The above mentioned sessions included 5 City Departments that comprised 15 Divisions. Report included in Appendix N.		March 2003	Completed. Employee training will continue and will be tracked and reported during the next reporting period.
Pollution Prevention and Good Housekeeping	Cleaning Catch Basins and Outfalls	10,666 catch basins, scuppers, inlets, outfalls and drywells inspected. 1,952 catch basins and laterals, scuppers, spillways, inlets and outlets were cleaned. Arrowhead and Denver Basin Pump Stations were inspected weekly. A summary of work completed is Included in Appendix O.		March 2003	Completed. The number of inspections and structures maintained will be tracked during the next reporting period.

TABLE 1 (continued)

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)
Pollution Prevention and Good Housekeeping	Hazardous Material Storage	103 employees received training for 8-hour HazWOpER refresher. 3 employees received 40-hour HazWOpER certification. Report included in Appendix N.		March 2003	Completed. The City will continue tracking HazWOpER training.
Pollution Prevention and Good Housekeeping	Household Hazardous Waste Collection Facility	2,725 residents dropped off 151,550 pounds of material that was reused, recycled or properly managed for disposal. Approximately 109,034 pounds of such material was reused or recycled.		March 2003	Completed. The City will continue tracking participation and material collected.

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

Daniel W Cook
Signature

9-23-14
Date

Daniel W Cook
Name (printed)

City Engineer
Title