

STORMWATER MANAGEMENT PROGRAM



September 2023

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1 Executive Summary

This Stormwater Management Program (SWMP) has been prepared by the City of Goodyear (City) to satisfy the appropriate requirements of the Clean Water Act (CWA) in accordance with the Arizona Department of Environmental Quality's (ADEQ) Arizona Pollutant Discharge Elimination System (AZPDES) General Permit Number AZG2021-002. It is effective as of September 30, 2021, and will expire on September 29, 2026 (see Appendix A). If ADEQ does not reissue the general permit before the expiration date, this permit will be administratively continued until a new one is issued.

The SWMP describes the policies, procedures, and best management practices (BMPs) the City implements to reduce to the maximum extent practicable (MEP) pollutant discharges from the Small Municipal Separate Storm Sewer System (MS4).

As required by the Permit, the SWMP addresses the following six minimum control measures (MCMs):

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination (IDDE) Program
4. Construction Activity Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention and Good Housekeeping for Municipal Operations

The SWMP is a comprehensive program document outlining how the stormwater program is implemented and maintained. It reflects the needs and constraints of the City. It builds upon the successful practices from the first permit cycle and incorporates new BMPs to comply with the new permit or as changes dictate.

The SWMP is certified according to the signatory requirements outlined in the Permit (see Section 9.0 Standard Permit Conditions).

2 Certification Statement

Permittee Name: City of Goodyear

Permit Number: AZG2021-002

Stormwater Management Program
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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 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.

Todd Carpenter

Todd Carpenter, Water Services Deputy Director

Date

3 Stormwater Management Program

The City desires permit coverage and has submitted the Notice of Intent (NOI) (see Appendix B). This SWMP covers all stormwater runoff and discharges located within City limits.

This SWMP serves as a comprehensive management tool to protect stormwater quality throughout the City. The City has developed best management practices (BMPs) for the six minimum control measures (MCMs) to reduce the discharge of pollutants to the maximum extent practicable (MEP).

To evaluate the effectiveness of the SWMP, the City will conduct a yearly review of BMP effectiveness and report any updates in the annual report. The annual report will provide an update on the progress towards meeting the measurable goals, including a BMP inventory and an implementation schedule.

During the annual review, the City will determine if the SWMP needs to be revised. If SWMP revisions are needed, the City will submit the proposed revisions to ADEQ with an explanation of why the original practice was ineffective and how the replacement will better address the goals of the management practice.

3.1 Permit Coverage Area

The City is located in Maricopa County, within the west region of the Phoenix Metropolitan area. The City is located in the Middle Gila River Watershed and the City's municipal planning area encompasses approximately 247 square miles. Based on the 2020 Census data, current City boundaries consist of approximately 191.3 square miles of which approximately 30 square miles are located in the urbanized area. This SWMP covers discharges within the City of Goodyear's boundaries but is focused on the urbanized area. Figure 1 on the next page shows the City boundaries as well as the urban area.

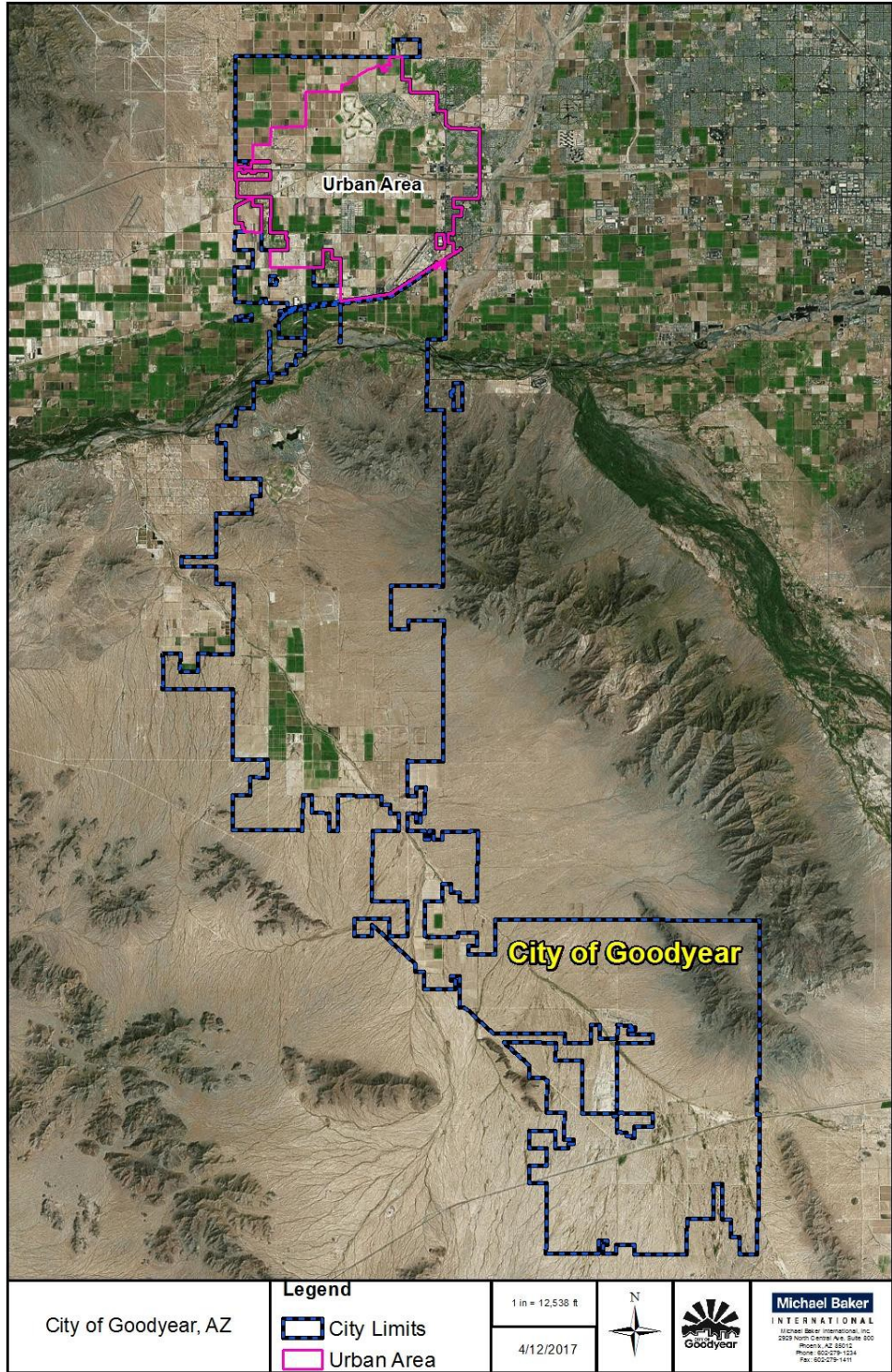


Figure 1: City of Goodyear and its Urban Area.

3.2 Receiving Waters

The City of Goodyear is located within the Middle Gila Watershed. Stormwater runoff is transported via streets, open channels, and other conveyances. The ultimate discharges for stormwater that is not retained on site are the Agua Fria River and the Gila River.

The Agua Fria River passes through a small part of the northeastern portion of the City (from north to south) with only 0.27 miles of the river within City boundaries. Based on the 2012/2014/2018 303 (D) list, this stretch of the Agua Fria River is not listed as an outstanding or impaired water.

The Gila River passes through the northern portion (south of the urbanized area) of the City with about 5 miles of the river included within City boundaries. Based on the 2012/2014/2018 303 (D) list, this stretch of the Gila River is not listed as an outstanding or impaired water.

3.3 SWMP Implementation

Overall responsibility for administering the Permit and SWMP rests with the Water Services Director. However, implementing the SWMP requires participation from multiple departments throughout the City. Key supporting departments include Public Works (specifically Solid Waste, Streets Operations, Fleet and Facilities), Engineering (specifically Civil Inspections, Plan Review, and GIS), Development Services (Code Compliance, Building and Safety Inspectors), Water Services (Stormwater Operations, Environmental Programs and Utility Operations), along with Neighborhood Services, Communications, and Parks and Recreation.

The responsibilities for each department as well as the title of the responsible person(s) are detailed in Appendix C. This document is a living document and as departments, responsibilities, personnel, or any other procedures/practices change, this information will be updated accordingly.

3.4 Reporting Requirements

To comply with the permit (Permit Section 8.3 Annual Report), the City submits an annual report each year of the permit term to ADEQ. The annual report checklist to help the City submit all of the necessary information is in Appendix D. Annual reports are due to ADEQ on or before September 30th of each year for the preceding reporting period (July 1 through June 30 each year). The report includes the status of compliance with the permit conditions, an assessment of the appropriateness of the BMPs, progress towards achieving the measurable goals for each of the six minimum control measures, a summary of the activities the City undertook during the reporting cycle, any changes to BMPs or measurable goals, and a summary of the monitoring that was performed. The

requirements for reporting can be found in Appendix A.

4.0 Minimum Control Measures

The City evaluated the requirements for the six MCM's specified in Part 6.4 of the general permit and selected BMPs for each. Each BMP is broken down into measurable goals. For this permit cycle, the City has maintained many of the same best management practices as the previous permit cycle and is enhancing or modifying them as necessary to meet the requirements of this new permit.

For each BMP, the City identified the following:

- Start date for implementation of the BMP
- Responsible Department / Position
- Measurable goals for tracking the effectiveness of each BMP
- Methods for assessing the overall effectiveness of each BMP

A table summarizing the BMPs for each MCM is provided in Appendix E.

4.1 MCM-1 Public Education and Outreach

The Permit requires the City to implement a public education program or conduct equivalent outreach activities to inform the public about stormwater pollution issues. This section describes how the City disseminates information on the importance of preventing stormwater pollution to the general public and targeted sectors. At a minimum, the City will educate the general public on the impact of stormwater discharges and ways they can reduce pollutants using stormwater brochures, flyers, informational articles in City's publications, and on the City's website. The requirements for this section are outlined in Permit Section 6.1.

The target audience for the City's public education and outreach campaign consists of residents, homeowners, restaurateurs, industry, the development community, and the general public.

The target pollutants for the public education and outreach campaign are:

- sediment from construction; oil, grease, toxic chemicals, and heavy metals from motor vehicles;
- pesticides and nutrients from lawns and gardens;
- viruses, bacteria, nutrients from pet waste
- failing septic systems, trash and litter.

The City has selected four BMPs to satisfy the MCM-1 Public Education and Outreach which have been summarized in Table 1.

Table 1: Public Education and Outreach BMP Summary.

BMP	Description
MCM 1-1	Public Education and Outreach
MCM 1-2	Business Section Education and Outreach
MCM 1-3	Stormwater Webpages and Other Electronic Resources
MCM 1-4	Annual Modification of Education and Outreach

These are discussed in more detail in the remainder of this section.

MCM 1-1 Public Education and Outreach

→ Description

The City of Goodyear will implement an educational program that focuses on the impacts of stormwater discharges to and from the MS4.

→ Responsible Department

Engineering Department, Water Services, Public Works, Parks and Recreation, Development Services, Communications, Government Relations, and HR Department.

→ Measurable Goals

The City will provide public education and outreach to at least one target group and focus its efforts on conveying relevant messages using one or more appropriate topics listed below during each year of the permit term. Topics listed are not exclusive, and the city may focus its efforts on one or more target group(s) and topic(s) most relevant to the MS4.

→ Target Audience

The target audience is the general public, residential community, homeowners, and schools.

→ Metrics

The quantity of education materials, outreach events, and electronic messages distributed will be measured and tracked. The results will be reported annually.

→ Additional Information

The target pollutants for the public education materials may consist of:

- sediment from construction
- oil, grease and toxic chemicals from motor vehicles
- pesticides and nutrients from lawns and gardens
- viruses, bacteria and nutrients from pet waste and failing septic systems
- trash & debris
- illicit discharges
- spill prevention and handling of toxic and hazardous materials

Pictures of the sample brochures can be seen in Appendix F.

MCM 1-2 Educational Events

→ Description

The City of Goodyear will implement an educational program that focuses on the impacts of stormwater discharges to and from the MS4 specific to the business and private sector.

→ Responsible Department

Engineering Department, Water Services, Public Works, Parks and Recreation, Development Services, Communications, Government Relations, and HR Department.

→ Measurable Goals

The City will provide public education and outreach to at least one target group and focus its efforts on conveying relevant messages using one or more appropriate topics listed below during each year of the permit term. Topics listed are not exclusive, and the city may focus its efforts on one or more target group(s) and topic(s) most relevant to the MS4.

→ Target Audience

Developments, Community/Homeowner Associations, Construction Site Operators, Industrial and Commercial Businesses.

→ Metrics

The quantity of education materials, outreach, and electronic messages distributed will be measured and tracked. The results will be reported annually.

→ Additional Information

The target pollutants for the public education materials may consist of:

- sediment from construction
- post construction requirements
- spill prevention of toxic and hazardous materials
- water quality impacts associated with land developments

MCM 1-3 Stormwater Webpages and Other Electronic Resources

→ **Description**

The City of Goodyear will update and maintain the stormwater webpages (see Appendix G) to include the stormwater management plan.

→ **Responsible Department**

The Engineering Department, Communications, and Water Services are responsible.

→ **Measurable Goals**

The City will track the web-based information and review it as necessary for effectiveness annually. The webpage will also include a copy of the City's SWMP and annual reports.

→ **Target Audience**

The target audience is the general public.

→ **Metrics**

The City reports significant new content added to the website and the number of webpage hits.

→ **Additional Information**

The City has created a Stormwater Webpage to disseminate information about the stormwater pollution prevention program to residents, homeowners, restaurateurs, industry, the development community and the general public. The website provides access to a downloadable copy of this SWMP and information pertaining to the City's AZPDES permit requirements. It also contains links to applicable STORM, ADEQ and EPA websites.

MCM 1-4 Annual Modification of Education and Outreach

→ **Description**

The City of Goodyear will actively update any ineffective messages or distribution techniques on an annual basis.

→ **Responsible Department**

The Water Services Department is responsible.

→ **Measurable Goals**

The City will attend the majority of Stormwater Outreach groups/organizations' meetings for Stormwater Professionals as they occur and plan public outreach activities with these organizations to improve the delivery of our message. City will track the number of meetings attended and activities participated in and annually evaluate and update its message and distribution techniques as appropriate for effectiveness.

→ **Target Audience**

The target audience is the general public. To better inform the general public, City Staff will review messaging and distribution techniques.

→ **Metrics**

The City will report any major updates to the stormwater messages and will report Stormwater professional's meetings, educational activities, and events in the annual report. The number of Goodyear staff participating in each meeting and the number of staff members serving on boards and committees will be tracked.

→ **Additional Information**

The City is an active participant in Stormwater Outreach for Regional Municipalities (STORM) and AZ Water Association, regional organizations for stormwater outreach/education. STORM was founded in 2002, in response to federal regulations requiring certain municipalities to implement measures to educate the public on the protection of stormwater quality. STORM provides public education by advertising on radio and television, posting on social media, maintaining a website www.azstorm.org, and participating in public events. STORM also organizes periodic seminars for business sectors such as a construction and Multi-Sector General Permit holders. City staff also attends conferences and trainings provided by AZ Water Association to further their knowledge on current and future stormwater related techniques.

4.2 MCM-2 Public Involvement and Participation

This section describes the City's on-going and planned processes to involve the public in review and implementation of the City's SWMP. The requirements for this section are outlined in Permit section 6.4.2.

The City has selected three BMPs that will satisfy the MCM-2 Public Involvement and Participation which have been summarized in Table 2.

Table 2: Public Involvement and Participation BMP Summary.

BMP	Description
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MCM 2-1	Participation Opportunities
MCM 2-2	Regional Coordination
MCM 2-3	Annual SWMP Review

These are discussed in more detail in the remainder of this section.

MCM 2-1 Participation Opportunities

→ **Description**

The City of Goodyear promotes participation opportunities to the public via available webpages, community hotlines, apps, city events/festivals (i.e., Waste Disposal and Recycling Events), and other social media which will increase exposure of the stormwater program. An app is available to all Goodyear citizens and staff to report spills, discharges and/or dumping to the MS4.

→ **Responsible Department**

The Engineering, Public Works and Water Services Department are responsible.

→ **Measurable Goals**

The City annually manages or organizes community engagement events such as the Adopt a Street and Adopt a Park Programs or Waste Disposal and Recycling events. The city will promptly respond to any MS4 related work orders created via the Goodyear app.

→ **Metrics**

The City tracks the number of attendees, acres of parks and miles of streets cleaned, the number of events offering waste collection, and the amount of waste collected. The City will follow up on any complaints received during any of the participation opportunities as well as track requests made on the Goodyear app. The participation results will be reported annually, and the program will be evaluated on participation effectiveness. Updates are made as necessary.

→ **Additional Information**

→ **'Adopt-A-Street' and 'Adopt-A-Park' Program**

The City has an existing 'Adopt-A-Street' and 'Adopt-A-Park' program that gives local groups and organizations an opportunity to be involved in the community by controlling litter and weeds in an assigned segment of a City.

The Adopt-A-Street and Adopt-A-Park program targets volunteer groups in cleaning various

streets and parks within the City. Private corporations, non-profit or for-profit groups, clubs and organizations are all eligible to participate. The Volunteer groups meet to pick up litter, pull or cut weeds and remove any light debris such as home-made signs from various streets and parks within the City.

→ **Household Hazardous Waste Program**

The public can call or report using Public Stuff at this address <https://www.goodyearaz.gov/our-city/residents/report-a-problem>. To keep household products such as paint, stain, varnish, paint thinners, cleaners, adhesives, pesticides, batteries, motor oil, antifreeze, gasoline and pool chemicals from being dumped in a manner that can negatively impact stormwater quality, the City has established a Household Hazardous Waste (HHW) collection and disposal program which allows City residents to dispose of these products properly.

Previously, the City has established a website identifying the types of materials that can and cannot be disposed at City HHW collection events and listing the dates and location of collection events. The City no longer holds these HHW collection events but instead allows residence to schedule curbside pickup of HHW seasonally. This option can be found on the City's Trash and Recycling Services webpage and is advertised through the City's magazine that goes out to every resident as well as posting the information on the City's social media accounts.

MCM 2-2 Regional Coordination

→ **Description**

The City of Goodyear will participate in regional community events and activities that provide educational opportunities to promote knowledge on stormwater projects.

→ **Responsible Department**

The Engineering Department and Water Services Department are responsible.

→ **Measurable Goals**

The City will attend the majority of STORM monthly meetings and planned public outreach activities by the organization. The City will also participate in other professional organizations as appropriate, which could include AZ Water Association. The City will track participation in STORM or other stormwater regional cooperative efforts and evaluate participation effectiveness annually.

→ **Metrics**

The City reports STORM outreach and education activities/events in the annual report. Participation in professional organizations related to stormwater will also be reported. The number of Goodyear staff participating in each meeting and the number of staff members

serving on an executive board, committee, or subcommittee will be tracked. The City reports the type and number of promotional items obtained from the STORM organization, a description of the event where the items were distributed, the total number of event attendees, and how many promotional materials were distributed to the general public.

→ ***Additional Information***

The City is an active participant in Stormwater Outreach for Regional Municipalities (STORM), a regional organization for stormwater outreach/education. STORM has helped the City obtain promotional and educational materials to distribute to the general public during stormwater events. The City will annually evaluate the stormwater outreach efforts to the general public and make updates as necessary.

MCM 2-3 Annual SWMP Review

→ ***Description***

The City of Goodyear will promote public involvement and participation by having the SWMP available on their stormwater website for annual review.

→ ***Responsible Department***

The Water Services Department is responsible.

→ ***Measurable Goals***

The City promotes a 30-day timeframe for the public to review the SWMP on an annual basis. The public will be able to submit their comments on the stormwater website. The City will review and evaluate all comments received and revise the SWMP as necessary. The method for review will be evaluated for effectiveness and modified as needed.

→ ***Metrics***

Dates for public comment and number of comments received will be reported in the annual report.

→ ***Additional Information***

The City will have the most current SWMP published on the website as well as other resources to help the general public submit their review, such as: the Permit AZG2021-002, past annual reports, and links to the ADEQ and EPA websites.

4.3 MCM-3 Illicit Discharge Detection and Elimination (IDDE) Program

The City is responsible for implementing an Illicit Discharge Detection and Elimination (IDDE) program designed to eliminate illicit discharges (IDs), and improper disposal (dumping) to the MS4. An illicit discharge is any discharge to a MS4 that is not composed entirely of stormwater

except discharges pursuant to an AZPDES permit or those non-stormwater discharges permitted under Section 1.3.2 of the Permit. This section outlines the City's methods for detecting and eliminating non-stormwater discharges. The requirements for this section are outlined in Permit Section 6.4.3. A brief summary of the IDDE program requirements is provided below. The City will be evaluating its program and update as required to comply with the new permit.

The objective of the IDDE program is to systematically find and eliminate sources of non-stormwater discharges to the MS4 and to implement procedures to prevent illicit connections and discharges. It will include processes and procedures designed to prevent, identify, report, and mitigate illicit discharges to and from the MS4, and provide training for City employees involved in the IDDE program.

The IDDE program will be evaluated to address the following elements:

- Visual Dry Weather Outfall Monitoring at five locations
- Visual Stormwater Discharge Monitoring at a minimum of five outfalls
- Follow-up screening for identified or suspected illicit discharges

As part of the program, the City will identify procedures to accomplish the following tasks:

- Prohibit illicit discharges
- Investigate suspected illicit discharges
- Eliminate illicit discharges, including discharges from properties not owned or operated by the MS4 that discharge into the MS4 system
- Implement appropriate enforcement procedures and actions

The program also includes a written statement that clearly identifies program responsibilities for eliminating illicit discharges and identifies the department responsible for implementing the IDDE Program, including any other departments that may have responsibilities in the program.

The program will document the following information for all illicit or suspected illicit discharges:

- Location of the illicit discharge and its source(s)
- Description of the discharge
- Estimated illicit discharge duration
- Method of discovery
- Date of discovery
- Date of elimination
- Means of elimination
- Mitigation or enforcement action
- Responsible person (if known)
- Estimated volume

The City has selected six BMPs to comply with MCM-3 Illicit Discharge Detection and Elimination (IDDE) Program which has been summarized in Table 3.

Table 3: Illicit Discharge Detection and Elimination (IDDE) Program BMP Summary.

BMP	Description
MCM 3-1	Stormwater System Mapping
MCM 3-2	Enforcement Response Plan Review/ Legal Authority Review
MCM 3-3	Illicit Discharge Response Program
MCM 3-4	Inspection Program/Dry Weather Screening
MCM 3-5	Educational Materials for IDDE Program
MCM 3-6	IDDE Staff Training

These are discussed in more detail in the remainder of this section.

MCM 3-1 Stormwater System Mapping

→ **Description**

The City of Goodyear has developed a comprehensive GIS based map of their stormwater conveyance system. The City will update the map to include any new public and private stormwater components that are constructed within the system.

→ **Responsible Department**

The Information Technology Department is responsible.

→ **Measurable Goals**

Features will be added into the existing GIS system following final inspections and submittal of as-built information has been confirmed. Additional features may be added and/or revised when necessary.

→ **Metrics**

Number and type of GIS structures added to the system will be reported annually.

→ **Additional Information**

The City has developed a stormwater system map that includes major outfall locations and municipal stormwater structures on a geographic information system (GIS) map server. The map is updated as new development and re-development creates new municipally owned

stormwater infrastructure.

MCM 3-2 Enforcement Response Plan Review/ Legal Authority Review

→ Description

The City of Goodyear will review the legal authority (see Appendix H) and enforcement response plan (see Appendix I) for the stormwater program.

→ Responsible Department

Development Services and Water Services Departments are responsible.

→ Measurable Goals

The City will review municipal code, inspection procedures, regulations, and enforcement actions on an annual basis. Modifications will be made as necessary. Staff will be trained on any necessary updates of the enforcement response plan during their annual stormwater training.

→ Metrics

The number of reviews and the document reviewed will be tracked and reported annually.

MCM 3-3 Illicit Discharge Response Program

→ Description

The City of Goodyear will track illegal dumping to the Waters of the U.S., code compliance violations, potential pollutant sources, and identify manholes and outfalls with a risk of illicit discharge near identified businesses. Suspected AZPDES non-filers will be reported to ADEQ as they are discovered.

→ Responsible Department

Engineering, Development Services and Water Services Department(s) are responsible.

→ Measurable Goals

The City will investigate illicit discharges immediately as they are identified by City staff or reported by the general public through the City's report a problem applications. Investigations will follow SOPs outlined in the IDDE Program and will be fixed as quickly as possible.

→ Metrics

The City reports the number of illicit discharges detected, the type of violations detected, and the resolution. Results will be reported in the annual report. Also, the number and type of

businesses identified and the number of manholes and outfalls with a risk of illicit discharge near these businesses will be reported in the annual report.

→ Additional Information

The City has developed a program to detect illicit discharges by identifying all outfalls to the Waters of the U.S. and developing a schedule for dry weather visual screens/inspections of outfalls to the Waters of the U.S., developed an inspection tracking method, and developed procedures to conduct outfall inspections. The City has created a response plan to illicit discharges that are detected during the dry weather visual screens/inspections and will continue to create and distribute educational materials to identified property owners.

Within the IDDE Program, the City has developed a Business Outreach Program that will identify potential pollutant sources and the businesses that could be associated with them to determine risk of illicit discharge. Based on the outreach action, the City will develop a list of manholes and outfalls with a risk of illicit discharge near these identified businesses.

MCM 3-4 Inspection Program/Dry Weather Screening

→ Description

The City of Goodyear will develop a schedule for dry weather visual screenings/inspections of outfalls to the Waters of the U.S., develop an inspection tracking method, report stormwater maintenance issues, and conduct outfall inspections.

→ Responsible Department

The Water Services Department is responsible.

→ Measurable Goals

Twice per year, Stormwater staff inspects structures identified as dry weather screening points. The location and/or frequency of inspections may be modified as determined by conditions in the field on an annual basis.

→ Metrics

The date, location, and observations made during each inspection will be recorded on data collection form. The City reports the number of dry weather visual screens/inspections of outfalls in the annual report.

→ Additional Information

The dry weather monitoring will be conducted at least 72 hours after a storm event creating discharge from the storm sewer system.

Unusual flows, pungent odors, discoloration, oil substances in the water, stains, waste residues

in ditches, channels, and drain boxes will be investigated during inspections. It is not always practical or necessary to track discharges that are a non-significant source of pollutants back to their source. The inspector may utilize professional judgment in determining whether the discharge should be investigated further.

Inspectors will track flows back to potential dischargers and conduct aboveground inspections to look for abnormal water flows during the dry season. The property/business owner that is the origin of the suspect flow will be required to determine the source of the discharge. Once the source of the flow is established, the City will require that the discharge, if illicit, be eliminated.

MCM 3-5 Educational Materials for IDDE Program

→ Description

The City of Goodyear will acquire educational materials to support City Staff's IDDE Program Training.

→ Responsible Department

The Water Services Department is responsible.

→ Measurable Goals

The City will review IDDE Program training materials annually and modify them as necessary.

→ Metrics

The City will report the number and type of educational materials acquired for the IDDE Program Training in the annual report.

MCM 3-6 IDDE Staff Training

→ Description

The City of Goodyear will review its formal City Employee IDDE Training Program.

→ Responsible Department

The Water Services Department is responsible.

→ Measurable Goals

The City annually reviews training requirements for municipal employees such as training modules, materials, tracking methods, instructors, and employees who must be trained based on stormwater responsibilities. Impacted staff will be trained on any new updates during the

annual stormwater training, and all training efforts will be tracked.

→ **Metrics**

The number of training events and City staff attendance will be reported annually.

→ **Additional Information**

The City will develop a formal City Employee Illicit Discharge Detection and Elimination (IDDE) Training Program to address the training requirements for municipal employees. Training may include identifying and reporting illicit discharges, proper maintenance of the municipal separate storm sewer system (MS4), municipal facilities good housekeeping, proper storage and handling of materials (chemical, herbicides, fertilizers), construction site runoff control, post-construction runoff control, general information on the City's AZPDES requirements, and other related issues. The goals of the program are to raise awareness of illicit discharges, to prevent illicit discharges, and to encourage municipal employees to report illicit discharges they may encounter during the normal course of their jobs.

Training is required to inform employees of hazards associated with illegal discharges and improper disposal of waste. Target employees are construction plan reviewers, construction and post-construction inspectors, code enforcement officers, public safety personnel, Municipal Facilities Operations, Parks & Recreation, Neighborhood Services Coordinators, Communications, and those employees who are involved in target operations and/or their supervisors. The training program is based on the identified needs of the municipal employees and based on their responsibilities as it relates to the stormwater program.

The City will identify potential training methods, prepare training materials, a training tracking method, instructors, and employees who would benefit from training based on priority of stormwater responsibility.

The City will train employees on an annual basis and when staff is assigned new operations, tasks, equipment, or protocols. Training will be provided by one or more of the following methods suggested by ADEQ:

- Incorporate stormwater training into existing training programs (i.e., safety, materials handling, new employee orientation, etc.).
- Establish on-the-job awareness and reinforcement (stormwater pollution prevention posters, articles on the City's internal website, SOPs, etc).
- Provide more customized training such as in-house workshops or conferences.

Legal Authority and Enforcement

The City of Goodyear has the enforcement authority through their city code and ordinances

(see Appendix H). The City Manager is the specific Enforcement Authority. The code sections that grant the enforcement authority include:

- A. 16-7 Stormwater Pollution Elimination
 - a. Article 16-7 of the City's Codified Ordinances addresses non-stormwater discharges to the municipal separate storm sewer system and includes enforcement procedures, penalties and actions for non-compliance.
- B. 16-7-3 Prohibition of Non-stormwater Discharges to the MS4
- C. 16-7-4(B) Prohibition on disposing of litter in the MS4
- D. 16-7-4(D)- Prohibition on Illicit discharge and illicit connections
- E. 16-7-5 Authorization to complete inspections
- F. 16-7-6 Enforcement

4.4 MCM-4 Construction Activity Stormwater Runoff Control

This section describes the City's procedures for plan review, site inspection, and stormwater enforcement at construction sites. The requirements for this section are outlined in Permit Section 6.4.4. The goal of the program is to prevent pollution of stormwater in the MS4 from construction site activities and wastes. The construction activity stormwater runoff control program is required to include the following measures:

- An ordinance or other regulatory mechanism that requires the use of sediment and erosion control practices.
- An inventory of all construction activities that disturb or will disturb one or more acres within the permitted area, including those that are less than one acre but are part of a larger common plan of development that will ultimately disturb greater than one acre. Written procedures for site inspections and enforcement of sediment and erosion control measures.
- Inspection frequency based on the following:
 - Phase of construction
 - Proximity to an impaired, not-attaining water or Outstanding Arizona Water;
 - Size of the construction activity (acreage disturbed); and
 - History of non-compliance (site or operator).
- Requirements to take all necessary follow-up actions to ensure compliance
- Requirements for construction operators to implement sediment and erosion control BMPs appropriate for the conditions at the construction activity.
- Requirements to control wastes such as discarded building materials, paints, fertilizers, concrete wash out, chemicals, litter, and sanitary wastes.
- Written procedures for site plan review.

The program will provide education to contractors and construction personnel on erosion and sediment control best management practices requirements. The public will also be allowed to

submit information and considerations for the program.

Target pollutants from construction sites include, but are not limited, to: sediment, paint, oil, grease, debris, and chemicals (concrete wash-out water).

The City has selected four BMPs to comply with MCM-4 Construction Activity Stormwater Runoff Control which have been summarized in Table 4.

Table 4: Construction Activity Stormwater Runoff Control BMP Summary.

BMP	Description
MCM 4-1	Construction Plan Review, Permitting, and Inspections
MCM 4-2	Inspection Procedure Review
MCM 4-3	Educational Materials for Construction Activity Stormwater Runoff Control
MCM 4-4	Construction Activity Stormwater Runoff Control Training

These are discussed in more detail in the remainder of this section.

MCM 4-1 Construction Plan Review, Permitting, and Inspections

→ **Description**

The City of Goodyear will review construction plans, issue permits, and conduct inspections.

→ **Responsible Department**

The Engineering Department is responsible for civil construction. Water Services is responsible for vertical construction.

→ **Measurable Goals**

The City will review submitted Notices of Intent from ADEQ and SWPPPs with their respective grading and drainage plans prior to approving city grading permits. There will be site inspections during active construction, and after storm events. Procedures will be reviewed annually and updated as necessary. The current procedures for these SWPPP inspections can be found in the SWPPP Inspection Standard Operating Procedure.

→ **Metrics**

The City will annually report the number of construction plan reviews for stormwater compliance, construction site inspections conducted, inspections with problems identified and identify the actions taken.

→ **Additional Information**

The City's Engineering Department currently performs plan reviews for all construction activities that result in a land disturbance of greater than or equal to one acre. Additionally, the City also reviews plans for construction activities disturbing less than one acre if the construction activity is part of a larger common plan of development or sale that would disturb one acre or more.

In accordance with City ordinance language, a Notice of Intent from ADEQ Stormwater Pollution Prevention Plan (SWPPP) will be submitted for review by the City's Engineering Department prior to issuance of a grading permit. The SWPPP must be prepared in accordance with guidelines set forth in the AZPDES General Permit. The City requires the developer to obtain Construction General Permit coverage and submit the NOI application form and AZCON number from ADEQ's prior to issuing a grading permit. The City has these requirements for both civil and vertical construction.

The City recognizes that construction site runoff can transport a significant amount of silt and sediment in a short period of time. A special emphasis will be placed on increased inspection of construction sites during the winter rain and summer monsoon seasons.

The City has implemented an inspection and enforcement program that requires site operators to install BMPs in accordance with the site stormwater pollution prevention plan (SWPPP) or erosion control plans (or acceptable BMP alternatives) and require the maintenance of those BMPs until final stabilization. The City has the authority to cite operators of construction sites found to be out of compliance.

MCM 4-2 Inspection Procedure Review

→ **Description**

The City of Goodyear will review plan review and inspection procedures.

→ **Responsible Department**

The Engineering Department is responsible for civil construction. Water Services is responsible for vertical construction.

→ **Measurable Goals**

The City will annually review inspection SOPs and checklists and update them if necessary.

→ **Metrics**

The City will report the number of inspections conducted in the annual report.

→ **Additional Information**

To verify construction site operator(s) are operating in compliance with the MS4 permit and City Code, the City inspects target construction projects to verify compliance with appropriate City ordinance(s) and enforces the use of a minimum BMPs. These BMPs include perimeter controls, tracking pads, housekeeping requirements, and concrete washout areas for site construction. They also ensure stormwater perimeter controls are installed, maintained and functioning properly. The inspector may utilize professional judgment in determining whether the SWPPP violation should be pursued further. Inspections are to occur every six months until the site has reach final stabilization. If the Civil contractor has filed a Notice of Termination for the project, the new operator must file a new NOI with ADEQ.

The City will develop a Stormwater Inspection Standard Operating Procedure (SOP) which will include a schedule for stormwater inspections, and a stormwater inspection tracking method. Engineering Inspectors will conduct stormwater inspections using the SWPPP inspections checklist until the civil portion of construction has been completed and a NOT has be received. During the final walk, the engineering inspector will hand off the inspections to Environmental Compliance’s Stormwater Inspector to complete the vertical construction inspections. ADEQ Notice of Intent (NOI) authorization number and SWPPP shall be submitted to the permit counter (This would be for contractors who stay on a project from earthwork to completion of vertical building). If the Civil contractor has filed a Notice of Termination for the project, the new operator must file a new NOI with ADEQ (This would be for contractors who close out a NOT with engineering and a new contractor comes on board to build the actual building/houses).

The City has created a response plan for inspections that identify problems and actions taken and distribute construction pollution prevention educational brochures to the identified stormwater Operators.

MCM 4-3 Educational Materials for Construction Activity Stormwater Run-off Control

→ Description

The City of Goodyear will review educational materials for the Construction Activity Stormwater Runoff Control Program.

→ Responsible Department

The Engineering Department is responsible and Water Services Department will assist.

→ Measurable Goals

The City will annually review the Construction Activity Stormwater Runoff Control program training materials or brochures and update them as necessary. The materials will be available and distributed at the permit counter and available on the Cities Stormwater webpage.

→ Metrics

The number of education materials will be tracked. The type of educational material, the location of the distribution, and the number of items distributed will be reported annually.

→ Additional Information

Education of the contractors and City employees regarding hazards associated with construction runoff and illicit discharges will be handled through informational brochures.

MCM 4-4 Construction Activity Stormwater Runoff Control Training

→ Description

The City of Goodyear will have training materials available for the Construction Activity Stormwater Runoff Control Program.

→ Responsible Department

Engineering and Water Services Department are responsible.

→ Measurable Goals

The City will have instructional information available for the construction industry including topics such as installation of BMPs, permit coverage, and signage for distribution at pre-construction meetings. These materials will be reviewed annually and updated if necessary. Onsite training will also be available when conducting individual site inspections. The Construction Activity Stormwater Runoff Control Training will be incorporated into the annual stormwater training for City Staff and updates will be made as necessary. The training will cover the City code and ordinances related to stormwater.

→ Metrics

The number of training events and City staff attendance will be reported annually.

4.5 MCM-5 Post-Construction Stormwater Management in New Development and Redevelopment

This section identifies programs the City carries out to reduce stormwater pollution from new development and redevelopment areas. This includes both structural and non-structural BMPs, maintenance of infrastructure, and enforcement of regulations. The requirements for this section are outlined in Permit Section 6.5

The program contains a regulatory mechanism that specifies that owners or operators of new development and redevelopment sites discharging to the MS4, shall design, install, and maintain post-construction stormwater controls. The controls must reduce or eliminate the discharge of pollutants from the site after construction activities are completed. Educational

materials are available to development owners and operators to help increase awareness and knowledge of post-construction stormwater runoff.

The program includes inspections/site plan reviews to evaluate and approve post-construction stormwater controls. It contains an inventory system of post-construction structural stormwater control measures installed and implemented at new development and redeveloped sites. These include both public and private sector sites located within the permit area that discharge into the MS4. The inventory will be searchable by property location and other relevant criteria.

The City has selected five BMPs to comply with MCM-5 Post-Construction Stormwater Management in New Development and Redevelopment which have been summarized in Table 5.

Table 5: Post-Construction Stormwater Management in New Development and Redevelopment BMP Summary.

BMP	Description
MCM 5-1	Post-Construction Structural and Non-Structural BMPs
MCM 5-2	Run-off from New Development and Re-development
MCM 5-3	Site Plan Review
MCM 5-4	Post-Construction Stormwater Control Inventory
MCM 5-5	Operation and Maintenance of Post-Construction BMPs

These are discussed in more detail in the remainder of this section.

MCM 5-1 Post-Construction Structural and Non-Structural BMPs

→ **Description**

The City of Goodyear will continue to update and distribute structural and/or non-structural BMPs to the private industry and public.

→ **Responsible Department**

Engineering and Water Services Department are responsible.

→ **Measurable Goals**

The City will have instructional information available for the construction industry, private industry and the public including topics such as installation and maintenance of structural and/or non-structural BMPs.

These materials will be reviewed annually and updated if necessary. Onsite training will also be available when conducting individual site inspections.

→ **Metrics**

The City will annually report the amount of structural and/or non-structural education materials that are distributed.

MCM 5-2 Run-off Post-Construction Management in New Development and
Redevelopment

→ **Description**

The City of Goodyear will continue to review and update city ordinances and engineering design standards to reduce pollutants from entering the MS4.

→ **Responsible Department**

Engineering Department and Water Services Department are responsible.

→ **Measurable Goals**

The City will annually report any new changes to the city ordinances/code applicable to new development and re-development.

→ **Metrics**

Updates to city ordinance/code and engineering design standards will be tracked. Any new requirements will be updated, as needed, each year with the annual report. New ordinances/ code will be addressed with new projects during the plan review and permitting process.

MCM 5-3 Site Plan Review

→ **Description**

The City of Goodyear will continue to have a site plan review process that reviews new development and re-development projects. This process will address the review of post construction control measures.

→ **Responsible Department**

Engineering and Water Services Department are responsible.

→ **Measurable Goals**

The City will annually track the number of Site Plan reviews that occurred within the annual permitting period. The Engineering group will report this data to Water Services for review. These reports will cover

the requirements in Permit Section 6.4(2)(c).

→ **Metrics**

The City will annually report the amount Site Plan Reviews that occurred within an annual reporting period.

MCM 5-4 Post-Construction Stormwater Control Inventory

→ **Description**

The City of Goodyear includes an inventory of post-construction features in their GIS database.

→ **Responsible Department**

The Water Services Department and the GIS Division are responsible.

→ **Measurable Goals**

After as-builts are received, the City staff will label and incorporate post-construction features in their GIS database. Updates are typically made within 90 days and reported annually.

→ **Metrics**

The number of post-construction features added to the GIS database will be reported annually.

MCM 5-5 Operations and Maintenance of Stormwater Infrastructure

→ **Description**

The City of Goodyear has city ordinances and city code that ensure property owners are responsible for maintaining their BMPs and stormwater infrastructure.

→ **Responsible Department**

The Engineering Department and the Water Services Department are responsible.

→ **Measurable Goals**

The City will annually report the number of Site Plan Reviews conducts. During this process the developer will be made aware the owner/operator are responsible for ongoing maintenance of their stormwater infrastructure.

→ **Metrics**

The City reports the number of Site Plan Reviews occur within the annual reporting period.

→ Additional Information

Retention basins are used widely in the City to store and control stormwater runoff. The City has a program in place to ensure proper operation and maintenance of privately owned retention basins, which receive runoff from private stormwater facilities. To ensure retention basins function as designed, they must be properly maintained.

Privately-owned retention basins are required to be maintained by their respective owner(s) per city code.

4.6 MCM-6 Pollution Prevention and Good Housekeeping for Municipal Operations
This section outlines the City's Operation & Maintenance Program for preventing and/or reducing pollutant runoff from municipal operations. The pollution prevention/good housekeeping control measure will be addressed by municipal staff. The program ensures that pollution from municipal sources is minimized and that City employees are properly trained in the operation and maintenance of the stormwater system and City-owned facilities. The requirements for this section are outlined in permit section 6.6

The goal of this program is to prevent or reduce pollutant runoff and protect water quality from municipal facilities and their activities.

The program must include the following activities:

- Develop an inventory of municipal operations that discharge
- Prioritize municipal facilities based on their risk to discharge pollutants
- Develop and implement a site inspection schedule
- Develop and implement an inspection schedule for municipally owned and operated facilities and activities to ensure stormwater controls are effective and being properly maintained
- Update municipally owned or operated facilities priority status and modify inspection frequency based on inspection findings
- Develop and implement stormwater controls at municipally owned or operated facilities and discharge activities to reduce or eliminate the discharge of pollutants
- Develop and implement an annual employee training program to incorporate pollution prevention and good housekeeping techniques into everyday operations and maintenance activities
- Develop maintenance activities, maintenance schedules, and long-term inspections procedures for structural and non-structural stormwater controls to reduce floatables, trash, and other pollutants discharged from the MS4.

The program will also define street sweeping requirements to keep the roadway clean of sediment, dust and debris that could enter into the MS4.

The City has selected five BMPs that will provide the greatest benefit in meeting the MCM-6 Pollution Prevention and Good Housekeeping for Municipal Operations which have been summarized in Table 6.

Table 6: Pollution Prevention and Good Housekeeping for Municipal Operations BMP Summary.

BMP	Description
MCM 6-1	O&M Procedures - Fleet Maintenance
MCM 6-2	Good Housekeeping Practices
MCM 6-3	City Vehicle Maintenance Program
MCM 6-4	Pollution Prevention and Good Housekeeping Training
MCM 6-5	Storm Drain Maintenance Program

It is important to note that the City of Goodyear has evaluated their municipal facilities that are not covered by a separate AZPDES permit to prioritize those facilities that will require site specific BMPs. The only facility that has been identified for the development of specific BMPS has been the Fleet Maintenance Building under MCM 6-1.

These are discussed in more detail in the remainder of this section.

MCM 6-1 O&M Procedures - Fleet Maintenance

➔ **Description (FACILITY SPECIFIC)**

Standard operating procedure review.

➔ **Responsible Department (FACILITY SPECIFIC)**

The Public Works Department is responsible.

➔ **Measurable Goals (FACILITY SPECIFIC)**

Review standard operating procedures annually and update them as necessary.

➔ **Metrics (FACILITY SPECIFIC)**

The number of standard operating procedures updates will be tracked. The number of updates and descriptions will be reported in the annual report.

➔ **Additional Information (FACILITY SPECIFIC)**

The goal of the O&M Standard operating procedure review is to prevent or reduce pollutant runoff from the Fleet Maintenance Building.

MCM 6-2 Good Housekeeping Practices

→ **Description**

The City of Goodyear staff will follow good housekeeping practices in daily operations.

→ **Responsible Department**

All impacted City employees are responsible.

→ **Measurable Goals**

There will be an annual review of good housekeeping practices. Some of the procedures that will be reviewed include street sweeping operations, storm drain system operations, and waste management. Any modifications made will be documented in the annual report.

→ **Metrics**

Amount of street miles swept, frequency of street cleaning, and the tons of roadway debris collected will be reported annually. The city will also conduct Environmental Facility Assessments. These assessments would reduce the risk of pollutants entering MS4 by pointing out problem areas of a facility to the facility manager to be addressed and corrected.

→ **Additional Information**

Some of the good housekeeping practices include:

- Maintenance activities, schedules, and inspection procedures for controls to reduce floatables and other pollutants
- Controls to reduce or eliminate the discharge of pollutants from streets, roads, highways, municipal parking lots, maintenance and storage yards, waste transfer stations, fleet or maintenance shops with outdoor storage areas
- Procedures to properly dispose of waste removed from the City and municipal operations (including dredge spoil, accumulated sediments, floatables, and other debris).

The City's street sweeping program is designed to remove sediment buildup and oil residue accumulating on City roadways and gutters. It is also designed to reduce pollutant loading to the receiving water. The City's current sweeping program includes City streets and paved municipal parking areas. The City continues to evaluate the scope of this program as new areas are developed and new surfaces are created.

The City's street sweeping schedule is such that sweeping is conducted on opposite days of sanitation pickup. High traffic areas are swept on an as needed basis, additional sweeping may occur following public events, weather events, or unauthorized releases to paved areas

maintained by the City. The City has implemented a night and industrial area sweeping program.

MCM 6-3 City Vehicle Maintenance Program

→ **Description**

The City of Goodyear performs preventative maintenance, repairs, and safety inspections for all City vehicles and equipment on a set usage rate, which aims to prevent pollution into the environment.

→ **Responsible Department**

The Public Works Department is responsible.

→ **Measurable Goals**

The City annually reports the dates of inspections, issues discovered, and actions taken.

→ **Metrics**

The City reports the dates of vehicle and equipment inspections, issues discovered, and actions taken in the annual report. The tons of used oil recycled, and tons of debris collected by street sweepers are also reported.

→ **Additional Information**

The City performs preventative maintenance, repairs and safety inspections for all City vehicles and equipment on a set usage (respective mileage and time) rate, which will reduce the number of pollutants released into the environment from the vehicles and equipment. Inspection records are maintained in the City's Fleet Management Department and are available for review.

The City has developed a policy to reduce to the MEP the washing of motor pool vehicles in areas that drain to the stormwater system. Approved wash racks installed on City properties drain either through an oil/sand separator to an approved sanitary sewer connection or to a holding tank with or without an oil/sand separator where the used wash water and associated pollutants are removed and properly disposed.

Target motor pool vehicles for this BMP are those that are registered with the Motor Vehicle Department and commonly used as a form of transportation on City streets. These are broken into two categories, regular and large registered vehicles. Regular registered vehicles include cars, vans, light and heavy-duty pickup trucks, utility trucks and mid-sized buses. Large registered vehicles include full-sized buses, semi-tractor trucks and associated trailers, box trucks, drill rigs, fire trucks, trash collection vehicles, recycling material collection vehicles,

street sweepers, wastewater transportation vehicles, and pump trucks.

MCM 6-4 Pollution Prevention and Good Housekeeping Training

→ Description

The City of Goodyear will have training available for Pollution Prevention and Good Housekeeping procedures.

→ Responsible Department

The Water Services Department is responsible.

→ Measurable Goals

The appropriate City staff will be trained on Pollution Prevention and Good Housekeeping procedures during the annual stormwater training. Participation will be tracked and evaluated for effectiveness and modify as necessary.

→ Metrics

The number of training events and the number of City staff per Department trained will be reported annually.

MCM 6-5 Storm Drain Maintenance Program

→ Description

The City of Goodyear will operate and maintain their storm drain system.

→ Responsible Department

The Water Services Department is responsible.

→ Measurable Goals

The City reports the number of City owned & maintained storm drain pipes and catch basins, the number of inspections conducted, and the number of storm drain pipes and catch basins cleaned on an annual basis.

→ Metrics

Number of inspections to clean catch basins and storm drain pipes, and the number of storm drain pipes and catch basins will be tracked and reported annually.

4 SWMP Evaluation and Revision

The City will review the SWMP yearly and evaluate the implementation status of the SWMP

BMPs as well as the effectiveness of each BMP.

Also, based on necessity, this SWMP will be updated periodically by the City to maintain a state-of-the-art stormwater quality management program. Minor updates will occur at the staff level and will consist of bookkeeping matters, such as changes in who is responsible for a specific BMP, etc. Major updates will include changes in the SWMP such as the implementation of new BMPs or the discontinuance of ineffective ones, policy changes, etc.

All changes made to the SWMP will be discussed in the Annual Report and documented in the SWMP.