

STORMWATER MANAGEMENT PROGRAM



May 2025

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1 Executive Summary

The City of Goodyear has developed this Stormwater Management Program (SWMP) to comply with the Clean Water Act (CWA) requirements, as outlined in the Arizona Pollutant Discharge Elimination System (AZPDES) General Permit No. AZG2021-002, issued by the Arizona Department of Environmental Quality (ADEQ). This permit is effective from September 30, 2021, through September 29, 2026, and will remain in effect beyond this date if not reissued, through administrative continuation (refer to Appendix A).

The SWMP outlines the City's strategies, including policies, procedures, and best management practices (BMPs), designed to minimize pollutant discharges from its Small Municipal Separate Storm Sewer System (MS4) to the maximum extent practicable (MEP).

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 serves as a comprehensive guide detailing the implementation and ongoing management of the City's stormwater program. It is tailored to align with the City's specific needs and operational constraints. This document builds on effective practices established during the initial permit cycle and integrates new best management practices (BMPs) to meet updated permit requirements or to adapt to evolving conditions. The SWMP is certified in accordance with the signatory requirements specified in Section 9.0, Standard Permit Conditions, of the Permit.

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.

Date

3 Stormwater Management Program

This SWMP functions as a comprehensive management framework designed to protect and improve stormwater quality across the City. To achieve this, the City has established best management practices (BMPs) addressing the six minimum control measures (MCMs) aimed at reducing pollutant discharges to the maximum extent practicable (MEP).

The effectiveness of the SWMP will be assessed through an annual review, during which the City will evaluate the performance of each BMP. Findings and updates will be documented in the annual report, which will include progress toward measurable goals, a current inventory of BMPs, and an updated implementation schedule.

As part of the annual review, the City will also assess whether revisions to the SWMP are necessary. If changes are warranted, the City will submit proposed revisions to ADEQ, along with a justification explaining why the original BMP was ineffective and how the proposed modification will more effectively meet the program's objectives.

3.1 Permit Coverage Area

The City of Goodyear is situated in Maricopa County, in the western portion of the Phoenix Metropolitan Area, within the Middle Gila River Watershed. The City's municipal planning area spans approximately 247 square miles. According to the 2020 Census, the current city limits cover about 191.3 square miles, with roughly 30 square miles designated as urbanized area. This SWMP applies to stormwater discharges within the City's boundaries, with a primary focus on the urbanized area. Figure 1 on the following page illustrates both the City limits and the designated urban area.

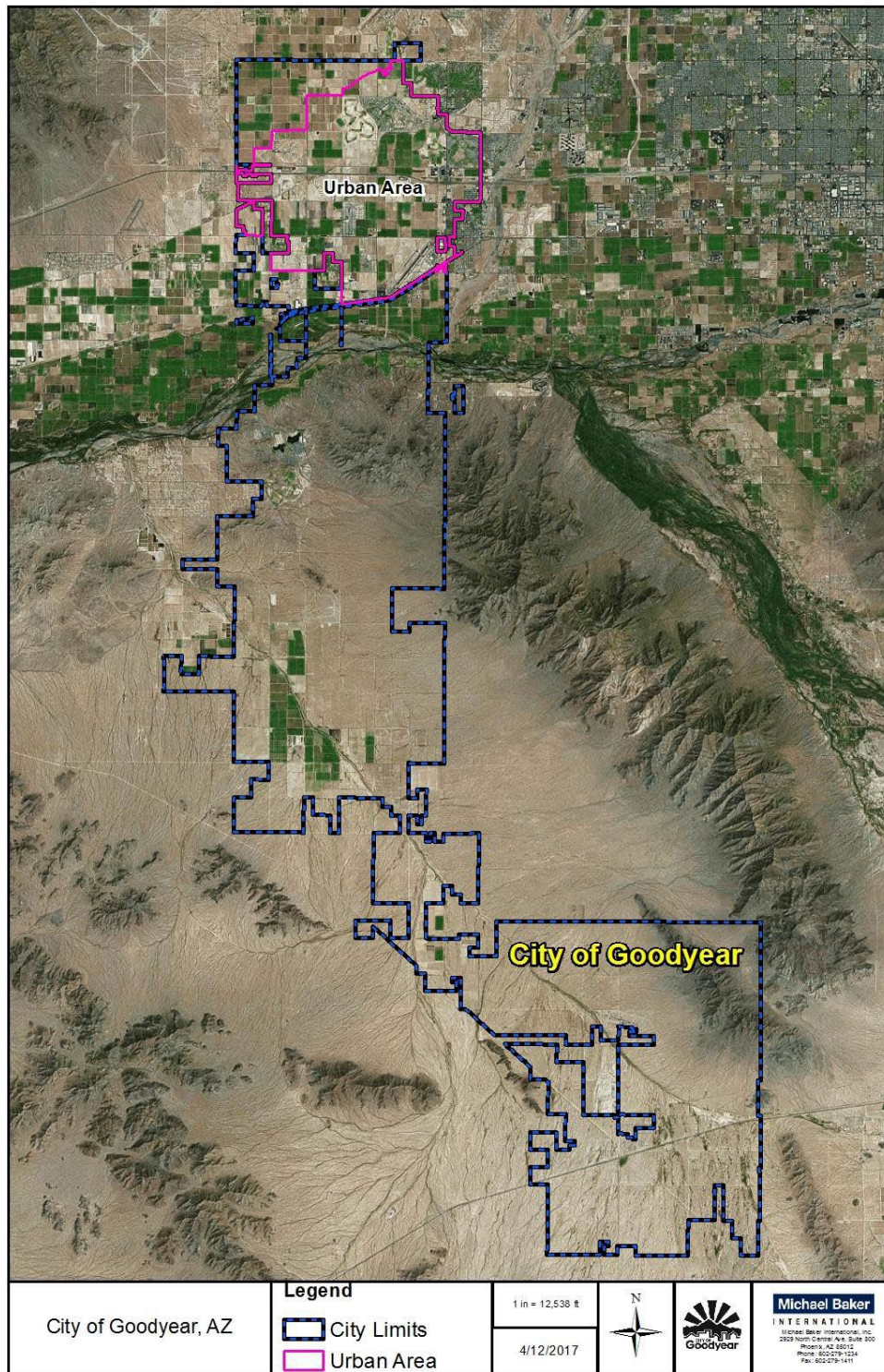


Figure 1: City of Goodyear and its Urban Area.

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 runs through a small section of the City's northeastern area, flowing north to south, with only 0.27 miles of the river located within City limits. According to the 2012, 2014, and 2018 303(d) lists, this segment is not classified as impaired or designated as an outstanding water.

The Gila River flows through the northern part of the City, just south of the urbanized area, with approximately 5 miles of the river located within City boundaries. As reported in the 2012, 2014, and 2018 303(d) lists, this segment is not identified as impaired or designated as an outstanding water. However, it is listed as a State of Arizona protected surface 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), Development Services (specifically Civil Inspections, Civil Plan Review, Code Compliance and Building Safety), Water Services (Stormwater Operations, Environmental Programs and Utility Operations), along with Neighborhood Services, Communications, and Parks and Recreation.

Appendix C outlines the specific responsibilities assigned to each department, along with the titles of the individuals responsible for implementation. As a living document, the SWMP will be updated as needed to reflect any changes in departmental roles, personnel, procedures, or practices.

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 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 public and targeted sectors. At a minimum, the City will educate the public on the impact of stormwater discharges and ways they can reduce pollutants using stormwater brochures, flyers, and 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 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 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 Departments***

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**

Development Services 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 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 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 most 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 public. To better inform the 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 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**

4.2 MCM-2 Public Involvement and Participation

The City actively participates in Stormwater Outreach for Regional Municipalities (STORM) and AZ Water Association, both regional organizations focused on stormwater outreach/education. Founded in 2002, STORM was established in response to federal regulations requiring municipalities to educate the public on stormwater quality protection. STORM promotes public education through various channels, including radio and television advertisements, social media posts, its website (www.azstorm.org), and participation in public events. Additionally, STORM organizes seminars for business sectors, such as construction and Multi-Sector General Permit holders. City staff also attend conferences and training sessions offered by the AZ Water Association to stay informed on current and emerging stormwater management techniques. 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
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 to 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**

Development Services, Public Works and Water Services Department are responsible.

→ **Measurable Goals**

The City annually manages or organizes community engagement events such as 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 cleaning various streets and parks within the city. Private corporations, non-profit or for-profit groups, clubs and organizations are 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.

The City has established a website identifying the types of materials that can and cannot be disposed of. Also, the city no longer holds HHW collection events but instead allows residents 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**

Development Services and Water Services Department are responsible.

→ **Measurable Goals**

The City will attend 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 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 public during stormwater events. The City will annually evaluate the stormwater outreach efforts to the 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 comments and the 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 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 an 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 summary of the IDDE program requirements is provided below. The City will evaluate 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 the submittal of as-built information has been confirmed. Additional features may be added and/or revised when necessary.

➔ **Metrics**

The 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 in 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 Arizona Surface Waters., 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**

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 public through the City's report a problem application. 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 established a program to detect illicit discharges by identifying all outfalls to Arizona Surface Waters., creating a schedule for dry weather visual inspections of these outfalls, implementing a method for tracking inspections, and developing procedures for conducting them. In cases where illicit discharges are detected during dry weather inspections, the City has prepared a response plan. Additionally, it will continue to produce and distribute educational materials to affected property owners.

As part of the IDDE (Illicit Discharge Detection and Elimination) Program, the City has also launched a Business Outreach Program to identify potential sources of pollutants and the businesses that may be linked to them, assessing their risk for illicit discharge. Based on this outreach, the City will compile a list of manholes and outfalls at risk of contamination near the identified businesses.

MCM 3-4 Inspection Program/Dry Weather Screening

➔ ***Description***

The City of Goodyear has developed an annual schedule for dry weather visual screenings and inspections of outfalls to Arizona Surface Waters., develop an inspection tracking method, report stormwater maintenance issues, and conduct outfall inspections.

➔ ***Responsible Department***

The Water Services Department is responsible.

➔ ***Measurable Goals***

On an annual schedule, Stormwater staff inspect 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.

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 reviews IDDE Program training materials annually and modifies them as necessary.

➔ **Metrics**

The City will include in the annual report the number and types of educational materials obtained for IDDE Program training.

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 train employees on an annual basis 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 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 outlines the City's procedures for construction site plan reviews, inspections, and stormwater enforcement. The requirements for these activities are specified in Permit Section 6.4.4. The primary objective of the program is to prevent stormwater pollution in the Municipal Separate Storm Sewer System (MS4) resulting from construction site activities and associated waste.

The program will educate contractors and construction personnel on the requirements for erosion and sediment control best management practices. Additionally, the public will have the opportunity to submit input and feedback for consideration in the program

To comply with MCM-4: Construction Activity Stormwater Runoff Control, the City has selected four Best Management Practices (BMPs), which are 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**

Development Services Department is responsible for civil construction. Water Services is responsible for vertical construction inspections

→ **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 Development Services 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.

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 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 and revise procedures and ordinances to assist with inspection and enforcement of the city's Construction Stormwater Permit (CSP), Engineering Design Standard & Policy (EDS&PM) Manual, MS4 permit and City code.

➔ **Responsible Department**

The Development Services Department is responsible for construction inspections. Water Services is responsible for vertical construction.

➔ **Measurable Goals**

The City will conduct annual review inspection standard operating procedures (SOPs) and checklists updating them as needed.

➔ **Metrics**

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

➔ **Additional Information**

To ensure construction site operators comply, the City conducts inspections of targeted construction projects to verify adherence to these requirements and the implementation of minimum required Best Management Practices (BMPs). Inspectors also verify that stormwater perimeter controls are correctly installed, properly maintained, and function effectively.

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 Development Services Department is responsible, and the Water Services Department will assist.

➔ **Measurable Goals**

The City will annually review training materials or brochures and update them as necessary. The material will be made 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**

Development Services and Water Services Department are responsible.

➔ **Measurable Goals**

The City will provide instructional materials for the construction industry covering key topics such as BMP installation, permit coverage, and required signage. These materials will be distributed during pre-construction meetings, reviewed annually, and updated as needed. Training will also be integrated and updated as necessary in accordance with stormwater management.

➔ **Metrics**

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

4.4 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 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 private industry and public.

➔ **Responsible Department**

Development Services 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**

Development Services 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**

Development Services 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 the as-builts are received, 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**

Development Services Department and the Water Services Department are responsible.

➔ **Measurable Goals**

The City will annually report the number of Site Plan Reviews conducted. 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 that 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.

4.5 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 floatable, 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 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**

The 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 Site 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 floatable 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, floatable, 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 in 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 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 in Pollution Prevention and Good Housekeeping procedures during the annual stormwater training. Participation will be tracked and evaluated for effectiveness and modification 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.



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY



Arizona Pollutant Discharge Elimination System General Permit for Stormwater Discharges From Small Municipal Separate Sewer Systems to Protected Surface Waters

This permit provides authorization to discharge under the Arizona Pollutant Discharge Elimination System (AZPDES) program, in compliance with the provisions of the Arizona Revised Statutes (A.R.S), Title 49, Chapter 2, Article 3.1, the Arizona Administrative Code (A.C.C.), Title 18, Chapter 9, Article 9, and Chapter 11, Article 1; and the Clean Water Act as amended (33 U.S.C. 1251 *et seq.*). This general permit authorizes stormwater discharges of pollutants from small municipal separate storm sewer systems (MS4s) in Arizona to Protected Surface Waters, pursuant to federal conditions in 40 CFR § 122.34 and A.R.S. Title 49 Chapter 2, Article 3.1 *et seq.* State requirements for discharges to non-WOTUS protected surface waters are enforceable solely by the Arizona Department of Environmental Quality (ADEQ). All discharges authorized by this general permit shall be consistent with the terms and conditions of this general permit.

This general permit is effective on September 30, 2021.

This general permit and the authorization to discharge expires at midnight on September 29, 2026.

This general permit was modified on Sep 16, 2022

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

A handwritten signature in black ink, appearing to read "T. Baggione".

Trevor Baggione, Director Water Quality

Division

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1.0 COVERAGE UNDER THIS GENERAL PERMIT

1.1 Permit Area (40 CFR 122.28(a)(1))

This permit covers and applies to traditional and non-traditional regulated, Small Municipal Separate Storm Sewer Systems (MS4s) in Arizona except those located in Indian Country. This permit is not authorized for use by sites with stormwater discharges associated with MS4s on any Indian Country lands in Arizona. Authorization for discharges in Indian Country must be obtained through US EPA Region IX or other appropriate authority.

- City or Town – Urbanized area(s) determined by the most recent Decennial Census by the Bureau of Census, including areas annexed during the permit term;
- County – Unincorporated urbanized area determined by the most recent Decennial Census by the Bureau of Census;
- State, federal, and other publicly-owned properties that the Director determines contributes to a violation of a water quality standard or is a significant contributor of pollutants to protected surface waters; and
- Areas outside of an urbanized area as designated by the Director pursuant to Arizona Administrative Code (A.A.C.) R18-9-A902(D).
- If your small MS4 is not located entirely within an urbanized area, only the portion that is within the urbanized area is regulated, pursuant to 40 CFR 122.32(1)(a).

1.2 Eligibility (40 CFR 122.32)

This permit authorizes the discharge of stormwater from MS4s to all waters on the protected surface water list, including discharges to waters of the U.S. (WOTUS) and non-WOTUS protected surface waters. The requirements of discharges to non-WOTUS protected surface waters are state-only, and enforceable solely by ADEQ. An MS4 requiring coverage:

1. Is located fully or partially within an urbanized area as determined by the latest Decennial Census by the Bureau of Census; or
2. Is designated for permit authorization by the department under the A.A.C. R- 18-9-A902(D)(1), R18-9-A902(D)(2), R-18-9-A902(E), R18-9-A905(A)(1)(f) which incorporates 40 CFR §122.32.
3. Existing permittees shall implement all requirements of this permit within one (1) year of the effective date of the permit. Existing permittees shall maintain their Stormwater Management Program (SWMP) implemented under the 2016 Phase II MS4 permit until requirements of this permit are implemented.
4. New permittees shall implement all requirements of this permit within two (2) years of obtaining permit coverage. During the first two permit years, new

permittees may request, in writing to ADEQ, a one-time extension of one (1) additional year to complete a specific permit requirement. Requests should be emailed to AZPDES@azdeq.gov.

1.3 Limitations of Coverage

This general permit does not authorize:

1. Discharges mixed with sources of non-stormwater unless the non-stormwater discharges comply with an applicable NPDES or AZPDES permit, as addressed in Part 6.3(6), IDDE;
2. Stormwater discharges associated with industrial activity as defined in 40 CFR §122.26(b)(14)(i)-(ix) and (xi);
3. Stormwater discharges associated with construction activity as defined in 40 CFR §122.26(b)(14)(x) or 40 CFR §122.26(b)(15);
4. Stormwater discharges currently covered under another permit;
5. Discharges to impaired or not-attaining waters, listed in the Clean Water Act 303(d) list of Impaired Waters, if discharge(s) from the MS4 contain, or may contain, pollutant(s) for which the receiving water is listed except:
 - a. If a TMDL has been established and the stormwater management program (SWMP) is consistent with the requirements of the TMDL, including any wasteload allocation or load allocation in the TMDL. (See Appendix C for specific TMDL wasteload allocations.) The SWMP shall also identify Best Management Practices (BMPs) the permittee will use to meet wasteload allocations or load allocations and include monitoring for associated pollutant(s); and
 - b. If a TMDL has not been established and the SWMP includes a section describing how the program will control the discharge of 303(d) listed pollutants and ensure to the maximum extent practicable that discharges from the MS4 will not cause or contribute to exceedances of surface water quality standards (SWQS). The SWMP shall also identify BMPs the permittee will use to control discharges and include monitoring of their effectiveness.
6. New or expanded point-source discharges directly to water classified as an Outstanding Arizona Water (OAW) under A.A.C. R18-11-112.

1.4 Permit Compliance (40 CFR 122.36)

Non-compliance with any requirement of this permit constitutes a violation of the permit and may result in an enforcement action, including notices of violation, consent orders, injunctive relief and/or penalties under state and federal laws.

2.0 AUTHORIZATION UNDER THIS PERMIT

Existing permittees that have coverage as of the effective date of this permit:

1. Within the first year of this permit, the permittee shall update the SWMP as necessary to comply with the requirements of Part 4 of this permit; and
2. Within the first 60 calendar days from the effective date of this permit, the permittee shall submit a new NOI in myDEQ. The MS4 may continue to comply with the terms and conditions of the expired permit (AZG2016-002) until the NOI is submitted and payment is made for the permit application fee.

New permittees shall submit a NOI in myDEQ and pay the permit application fee to obtain coverage under this permit.

2.1 Notice of Intent (NOI)

1. A person seeking authorization to discharge under this general permit shall submit to the department a complete and accurate NOI on a form provided by the department and includes, at a minimum, the following information:
 - a. Name of MS4;
 - b. Operator name and title;
 - c. Mailing address;
 - d. Annual fee billing information;
 - e. Contact person;
 - f. Contact information;
 - g. Estimated population of regulated area (based on most recent decennial census by the Bureau of Census);
 - h. Protected surface water(s);
 - i. The number of outfalls that discharge to a protected surface water(s); and
 - j. Outfall name or identification, for outfalls required in “i” above.
2. If the department notifies the applicant of deficiencies or inadequacies in any portion of the NOI, or requests additional information, the applicant shall correct the deficient or inadequate portions and submit a revised NOI that addresses the deficiencies within seven (7) days of receiving notification.
3. The permittee shall submit a revised NOI to the department within fifteen (15) days whenever there is a change of information (certifying official, mailing address, contact information, etc.).

2.2 Permit Fees

Permittees are subject to fees established in A.A.C. R18-14-109, Table 6. The department will issue an invoice annually to the permittee at the address identified on the NOI. Permittees shall submit the applicable fee when submitting an NOI to obtain coverage under this permit.

2.3 Terminating Coverage (NOT)

A permittee may terminate coverage under this general permit by submitting a NOT on a form provided by the department. Authorization to discharge terminates at midnight on the day the NOT is received by the department.

If the operator does not obtain coverage under an alternate AZPDES permit that authorizes the discharge of stormwater prior to submitting the NOT, the operator will be considered discharging without a permit.

NOTs shall be signed in accordance with Part 9.9 and shall be submitted to ADEQ via email at AZPDES@azdeq.gov. The email subject line must include "Termination – MS4 Permittee Name."

2.4 Coverage under an Individual Permit

Pursuant to A.A.C. R18-9-C902, a person may request, or be required by the Director, to obtain coverage under an individual permit.

2.5 Continuation of this General Permit

If this permit is not reissued prior to the expiration date, it will be administratively continued in accordance with A.A.C. R18-9-C903 and remain in force and effect for discharges that were authorized prior to expiration.

If the MS4 operator does not submit a timely, complete, and accurate NOI requesting authorization to discharge under a reissued permit or a timely request for authorization under an individual or alternative general permit, authorization under this permit will terminate on the effective date of the reissued permit unless otherwise specified in this permit. See Part 2.0.

3.0 STORMWATER PROGRAM ENFORCEMENT

3.1 Establish Enforcement Procedures (40 CFR 122.34(b)(3)(B))

Permittees shall adopt and implement local ordinance(s) or other regulatory mechanism(s) that provide adequate enforcement procedures to satisfy the requirements of this permit to control pollutant discharges into its MS4.

3.2 Enforcement Requirements

If not already developed, the permittee shall establish and exercise enforcement procedures to comply with this permit. To be considered adequate, enforcement procedures shall, at a minimum, address the following:

1. Prohibit and eliminate illicit connections and discharges to the MS4;
2. Control the discharge of spills, and prohibit dumping or disposal of material other than stormwater into the MS4;
3. Require compliance with conditions in the permittee's ordinances, permits, contracts, or orders;
4. Require owners/operators of construction activities, new or redeveloped land, and industrial and commercial facilities to minimize the discharge of pollutants to the MS4 through the installation, implementation, and maintenance of stormwater control measures;
5. To the extent allowed under State law, the permittee shall have methods to enter private property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to stormwater discharges to determine whether there is compliance with local stormwater control ordinances/standards;
6. The permittee shall promptly require violators cease and desist illicit discharges or discharges of stormwater in violation of any ordinance or standard and/or cleanup and abate such discharges;
7. To the extent allowable under State and federal law, the permittee shall impose civil or criminal sanctions (including referral to a city or district attorney) and escalate corrective response, consistent with its enforcement response;
8. Identify departments within the permittee's jurisdiction that conduct stormwater-related activities and their roles and responsibilities under this permit. Include an up-to-date organizational chart specifying these departments and key personnel positions;
9. Identification of the local administrative and legal procedures and ordinances available to mandate compliance with stormwater-related ordinances and therefore with the conditions of this permit; and

10. A description of how stormwater related-ordinances are implemented and appealed.

3.3 Enforcement Response Plan(s)

The permittee shall develop an enforcement response plan (ERP) that specifies how it will exercise its legal authority to comply with this permit. The ERP shall include a prioritization schedule that establishes escalated enforcement for non-compliance of illicit discharges and construction activities. In developing the ERP, the permittee shall include the following factors in prioritizing escalated enforcement:

1. Severity of non-compliance;
2. Repeated non-compliance;
3. Proximity to a receiving water or storm sewer system; and
4. Other appropriate factors.

4.0 STORMWATER MANAGEMENT PROGRAM

The permittee shall develop, implement, and enforce a Stormwater Management Program (SWMP) that is designed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the federal Clean Water Act and A.R.S Title 49 Chapter 2, Article 3.1 *et seq.* The program shall be documented and available for review by ADEQ, U.S. EPA, and interested persons.

1. Existing permittees shall modify or update their existing SWMP to meet the terms and conditions of this permit within one (1) year of the effective date of this permit.
2. New permittees shall develop a SWMP that meets the conditions of this permit within two (2) years of the effective date of their coverage.
3. At a minimum, and at least annually, all permittees shall assess, evaluate, and update the SWMP and incorporate any revisions necessary to maintain permit compliance. The annual SWMP review shall occur in connection with preparing the annual report (see Parts 8.1 and 8.3).

4.1 Contents of the Stormwater Management Program

At a minimum, the SWMP shall contain the following:

1. Listing of all protected surface waters, their classification under the applicable state surface water quality standards (SWQS), any impairment(s) and associated pollutant(s) of concern, applicable TMDLs and WLAs, and number of outfalls from the MS4 that discharge to each waterbody;
2. The process and schedule for creating and maintaining an up-to-date map that includes, at a minimum, the storm sewer system, outfalls, and protected surface waters;
3. Illustrate any areas that are not subject to the MS4 and identify why there is no discharge within the MS4 boundaries;
4. Listing of all known, ongoing discharges that cause or contribute to the exceedance of an applicable surface water quality standard;
5. Description of practices to achieve compliance with the permit. For each permit condition identify:
 - a. The personnel, position or department responsible for implementing the measure; and
 - b. The BMPs for each control measure or permit requirement.
6. Description of practices to achieve compliance with applicable TMDLs or waste load allocation, including measurable goal(s) for each BMP and

corresponding milestones and timeframes. Each goal shall have an associated measure of assessment;

7. Analytical monitoring program for impaired or not-attaining waters, and for Outstanding Arizona Waters to ensure compliance with permit limitations, wasteload allocation(s), and SWQS;
8. The analytical monitoring program shall include a Sampling and Analysis Plan (SAP) that includes the following minimum components: sample collection, equipment and containers, decontamination, calibration procedures, sample frequency (based on illicit discharge characteristics), document site conditions, field notes, sample preservation, tracking (chain-of-custody), and handling;
9. Protocol for annual program evaluation (Part 8.1). Update annually and maintain copies; and
10. Identification of personnel (department, position, etc.) responsible for program implementation.

4.2 Stormwater Management Plan Availability

The permittee shall retain a copy of the current SWMP required by this permit at the office or facility identified on the NOI and shall be available upon request by ADEQ or U.S. EPA, or their authorized representatives.

A copy of the most up-to-date SWMP shall be made available to the public during normal business hours and posted on the permittee's website.

5.0 WATER QUALITY STANDARDS

The permittee shall develop, implement and enforce a program to reduce the discharge of pollutants from the MS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of federal and state laws.

5.1 Water Quality Based Effluent Limitations

Pursuant to Clean Water Act 402(p)(3)(B)(iii) and A.R.S 49-255.04, this permit includes provisions to ensure that discharges from the permittee's small MS4 do not cause or contribute to an exceedance of SWQS, in addition to requirements to reduce the discharge of pollutants to the maximum extent practicable.

To assure compliance with permit limitations, ADEQ may require the permittee to conduct analytical monitoring and will provide notice to the permittee in writing (see Part 7).

5.2 Surface Water Quality Standards (SWQS)

1. The permittee shall implement the six (6) Minimum Control Measures (MCMs) specified in Part 6 to the maximum extent practicable to protect water quality, and to satisfy water quality requirements of the Clean Water Act, including attainment of SWQS.
2. If the permittee discovers, or is otherwise notified by ADEQ or U.S. EPA, that a discharge from the MS4 is causing or contributing to an exceedance of an applicable surface water quality standard, the permittee shall expand or better tailor its BMPs within the scope of the six (6) minimum control measures in Part 6.0 to achieve progress toward attainment of SWQS. The requirements for discharges to non-WOTUS protected surface waters are state-only, and enforceable solely by ADEQ.

6.0 MINIMUM CONTROL MEASURES

The permittee shall reduce the discharge of pollutants to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate requirements of the Clean Water Act and A.R.S 49-255.04 by implementing the six (6) minimum control measures (MCMs) in parts 6.1 – 6.6 below.

1. Existing permittees shall continue to implement their existing SWMPs while making updates pursuant to this permit. This permit does not extend the compliance deadlines set forth in previous permits.
2. Implementation of one (1) or more of the minimum control measures described in Parts 6.1 – 6.6 or other permit requirements may be shared with another entity (including another interconnected MS4) or the other entity may fully implement the measure or requirement, if the following requirements are satisfied (See 40 CFR 122.35(a)):
 - a. The other entity implements the control measure as specified in the SWMP;
 - b. The particular control measure or component thereof undertaken by the other entity is at least as stringent as the corresponding permit requirements
 - c. The other entity agrees to implement the control measure on the permittee's behalf. The SWMP shall specify that the permittee is relying on another entity to satisfy some of its permit obligations and specify what those obligations are;
 - d. The permittee remains responsible for compliance with all permit obligations if the other entity fails to implement the control measures (or component thereof). The permittee may enter into a legally binding agreement with the other entity regarding the other entity's performance of control measures, but the permittee remains ultimately responsible for permit compliance.

6.1 Public Education and Outreach (40 CFR 122.34(b)(1))

The permittee shall identify and implement an educational program that focuses on the impacts of stormwater discharges to and from the MS4.

1. At a minimum, the permittee shall provide public education, outreach to at least one (1) target group, and focus its efforts on conveying relevant messages using one (1) or more appropriate topics listed below during each year of the permit term. Topics listed are not exclusive, and the permittee may focus its effort on one (1) or more target group(s) and topic(s) most relevant to the MS4.
 - a. Target Groups:

General Public, Residential Community, Homeowners, , Schools

b. Topics:

- i. Post-construction ordinances and long-term maintenance requirements for permanent stormwater controls;
 - ii. Stormwater runoff issues and residential stormwater management practices;
 - iii. Potential water quality impacts of application of pesticides, herbicides and fertilizer and control measures to minimize runoff of pollutants in stormwater;
 - iv. Potential impacts of animal waste on water quality and the need to clean up and properly dispose of pet waste to minimize runoff of pollutants in stormwater;
 - v. Illicit discharges and illegal dumping, proper management of non- stormwater discharges, and to provide information on reporting spills, dumping, and illicit discharges;
 - vi. Spill prevention, proper handling and disposal of toxic and hazardous materials, and measures to contain and minimize discharges to the storm sewer system;
 - vii. Installation of catch basin markers or stenciling of storm sewer inlets to minimize illicit discharges and illegal dumping to storm sewer system;
 - viii. Proper management and disposal of used oil; or
 - ix. Community activities (monitoring programs, environmental protection organization activities, etc.).
2. At a minimum, the permittee shall provide business sector education/outreach to at least one (1) target group and focus its efforts on conveying relevant messages using one (1) or more appropriate topic(s) listed below during each year of the permit term. Topics listed are not exclusive, and the permittee may focus its efforts on one (1) or more target group(s) and topic(s) most relevant to the MS4.

1. Target Groups:

Development, Community/Home Owner Association, Construction Site Operators, Targeted Sources or Types of Businesses (industrial or commercial)

2. Topics:

- i. Planning ordinances and grading and drainage design standards for stormwater management in new developments and significant redevelopments;

- ii. Post-construction ordinances and long-term maintenance requirements for permanent stormwater controls;
 - iii. Municipal stormwater requirements and stormwater management practices for construction sites;
 - iv. Illicit discharges and proper management of non-stormwater discharges;
 - v. Spill prevention, proper handling of toxic and hazardous materials, and measures to contain and minimize discharges to the storm sewer system;
 - vi. Proper management and disposal of used oil and other hazardous or toxic materials, including practices to minimize exposure of materials/wastes to rainfall and minimize contamination of stormwater runoff;
 - vii. Stormwater management practices, pollution prevention plans, and facility maintenance procedures; or
 - viii. Water quality impacts associated with land development (including new construction and redevelopment).
3. The program shall focus on messages for specific audiences as well as show progress toward the defined educational goals of the program. The permittee shall identify methods that it will use to evaluate the effectiveness of the educational messages and the overall education program.
 4. The permittee shall modify any ineffective messages or distribution techniques on an annual basis. See Part 8.1(3) for record keeping requirements.

6.2 Public Participation and Involvement (40 CFR 122.34(b)(2))

The permittee shall provide opportunities to engage the public to participate in the review and implementation of the permittee's SWMP.

1. All public involvement activities shall comply with state and local public notice requirements. The SWMP and all annual reports shall be available to the public. The current SWMP and annual report in subsequent years shall be posted no later than 30-days of the due date of the annual report. See 1.2(3) and (4).
2. The permittee shall annually provide the public an opportunity to participate in the review, revisions, updates, and implementation of the SWMP.
3. The permittee shall create opportunities for citizens to participate in the implementation of stormwater controls, for example, but not limited to:
 - a. Stream clean-ups;
 - b. Storm drain stenciling;

- c. Volunteer monitoring;
 - d. Disposal of household hazardous waste;
 - e. Educational activities; and
 - f. Facilitation of Adopt-A-Wash, Adopt-A-Park, and Adopt-A-Street litter control activities.
4. The permittee shall provide and publicize a reporting system to facilitate and track public reporting of spills, discharges and/or dumping to the MS4 on a continuous basis.
 5. The permittee shall document the details of the public involvement and participation program in the SWMP.

6.3 Illicit Discharge Detection and Elimination (IDDE) Program

(40 CFR 122.34(b)(3))

The permittee shall identify, develop, implement and enforce a program to detect and eliminate illicit discharges into the MS4. The IDDE program shall be recorded in a written document and maintained in the SWMP. The IDDE program shall include each of the elements listed in this section.

1. Storm Sewer Mapping

The permittee shall prepare and maintain an up-to-date map of the MS4. At a minimum, the storm sewer map shall be sufficient in scope and detail to identify and isolate illicit discharges. The permittee is not required to submit storm sewer system mapping infrastructure to ADEQ unless specifically requested, and shall make mapping information available to ADEQ or EPA to assess permit compliance.

The permittee shall develop a map that includes, at a minimum, the following:

- a. Storm sewer system including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains that are owned or operated by the permittee and convey stormwater to protected surface waters.
- b. The location of all outfalls; and
- c. The name and location of all protected surface waters that receive discharges from outfalls.

Existing permittees shall review and update maps within one (1) year from the effective date of this permit, including areas annexed within the previous permit term.

For existing permittees that have an increase of their "Urbanized Area" (UA) based on the 2020 Census, mapping shall be completed as following:

- a. Within three (3) years from the effective date of the updated UAs from the Decennial Census;
- b. At a minimum of 33% each year (permit years 1-3) and will be updated in the annual report; and
- c. Supporting documentation should be maintained in the SWMP.

New permittees must include a mapping schedule in their NOI. The schedule must include how the permittee will conduct the mapping process, a timeline, and estimated completion dates.

2. Enforcement Procedures

- a. The permittee shall prohibit non-stormwater discharges into the storm sewer system by implementing appropriate enforcement procedures and actions authorized by current ordinances, by-laws or other regulatory mechanisms. See Part 3.2 Enforcement Requirements for additional requirements on ordinances.
- b. The written IDDE program shall include a reference or citation of the authority (ordinance or other regulatory mechanism) the permittee will use to implement all aspects of the IDDE program.

3. Statement of IDDE Program Responsibilities

The permittee shall establish a written statement that clearly identifies responsibilities with regard to eliminating illicit discharges. The statement shall identify the lead municipal agency or department responsible for implementing the IDDE Program as well as any other agencies or departments that may have responsibilities for aspects of the program. Where multiple departments and agencies have responsibilities to the IDDE program, specific areas of responsibility shall be defined and processes for coordination and data sharing shall be established and documented.

4. Illicit Discharge Detection and Elimination Reporting

The Permittee shall track and maintain records of the activities conducted to meet the requirements of Parts 6.1 – 6.6. The Permittee shall submit as part of each annual report a summary of IDDE activities in tabular format. The required fields are:

- a. MS4 Name;
- b. Date incident reported or discovered;
- c. Date of the beginning of your response;
- d. Date of the end of your response;
- e. Did the discharge reach a protected surface water (yes, no, or unknown);
- f. Incident location (address or latitude and longitude);
- g. Pollutants;

- h. Source; and
- i. Correction method(s).

5. Eliminating Illicit Discharges

Illicit discharges to the MS4 are prohibited and constitute a violation of this permit, when the permittee is not fully implementing applicable permit requirements and the SWMP.

Upon detection of an illicit discharge, or receipt of a complaint regarding a discharge, the permittee shall eliminate the discharge as expeditiously as possible. The permittee shall identify and notify all responsible parties for any such discharge and require immediate cessation in accordance with its legal authorities. Where elimination of an illicit discharge is not immediately possible, the permittee shall establish an expeditious schedule for its elimination and report the dates of identification and schedules for removal in the permittee's annual reports. The permittee shall immediately commence actions necessary for elimination. In the interim, the permittee shall take all reasonable and prudent measures to minimize the discharge of pollutants to its MS4.

6. Non-Stormwater Discharges

The following categories of non-stormwater discharges or flows shall be addressed when such discharges are identified by the permittee as sources of pollutants to a protected surface water:

- a. Water line flushing;
- b. Landscape irrigation, including flood irrigation;
- c. Diverted stream flows;
- d. Rising ground waters;
- e. Uncontaminated groundwater infiltration (as defined at 40 CFR 35.2005(b)(20)) to separate storm sewers;
- f. Uncontaminated pumped groundwater;
- g. Discharges from potable water sources;
- h. Foundation drains;
- i. Air conditioning condensation;
- j. Irrigation water;
- k. Springs;
- l. Water from crawl space pumps;
- m. Footing drains;

- n. Lawn watering;
- o. Individual residential car washing;
- p. Flows from riparian habitats and wetlands;
- q. Dechlorinated swimming pool discharges;
- r. Street wash water;
- s. Discharges or flows from emergency firefighting activities;
- t. Discharges authorized by another NPDES or AZPDES permit.

7. Visual Monitoring

The permittee shall develop, implement, and maintain a visual monitoring program that includes both dry weather and wet weather stormwater discharges to identify, monitor, and eliminate illicit discharges; and to ensure compliance with effluent limitations in this permit. The ratio of dry weather and wet weather screenings conducted each year will be determined by the permittee.

- a. The monitoring programs shall include written procedures for conducting visual monitoring of outfalls from the MS4. Monitoring procedures shall include, at a minimum, the following information/observations: outfall identification, personnel, time, date, weather conditions at time of inspection, estimated flowrate, apparent odor, color, clarity, debris, floatables, and other necessary information to characterize the screening.
- b. The permittee shall visually monitor at least 20% of all outfalls each year including both dry and wet weather screenings. The ratio of dry weather and wet weather screenings conducted each year will be determined by the permittee. Re-inspection of outfalls may be included in the annual monitoring percentage. In the event an illicit discharge is discovered, the permittee shall implement measures to eliminate the illicit discharge (parts 6.3(1) - 6.3(6)); and
- c. Follow-up Screening: The permittee shall establish a follow-up screening schedule for identified or suspected illicit discharges to ensure they do not recur.
- d. In the event a Small MS4 has fewer than five (5) outfalls, a minimum of five (5) screening points, or combination of outfalls and screening points, shall be utilized for the visual monitoring requirement. Screening points shall be at locations where stormwater leaves the Small MS4's permitted area including locations where stormwater may discharge to another MS4 or other conveyance.

8. Indicators of IDDE Program Progress

The permittee shall define or describe indicators for tracking program success. At a minimum, indicators shall include measures that demonstrate efforts to locate illicit discharges that were identified and removed. Such measures may include response time to inspection, an increase in public awareness, time from discovery to elimination, and other appropriate factors. The permittee shall evaluate the overall effectiveness of the program at least annually and incorporate improvements as necessary.

9. Staff Training

The permittee shall, at a minimum, provide annual training to employees involved in the IDDE program (e.g., street workers, inspectors, solid waste personnel, etc.). The training shall include the IDDE program components and how to recognize illicit discharges.

10. AZPDES Non-Filers

The permittee shall implement a program to identify illicit discharges to the MS4 identified in accordance with the IDDE program established in Section 6.3. The permittee shall report suspected non-filers to ADEQ within 30 days. The report provided to ADEQ shall include, at a minimum, the facility name and the location of the suspected non-filer. The reports shall be submitted to ADEQ at AZPDES@azdeq.gov. If more than one non-filer is identified within a 30-day period, the notifications may be combined into a single report.

6.4 Construction Activity Stormwater Runoff Control (40 CFR 122.34(b)(4))

The permittee shall develop, implement, maintain, and enforce a construction activity stormwater runoff control program to minimize or eliminate pollutant discharges to the MS4s from construction activities that will disturb one (1) or more acres of land, including sites less than one (1) acre that are part of a common plan of development or sale.

1. Construction Activity Stormwater Runoff Implementation

The permittee shall assess existing legal authority, codes, and other relevant mechanisms and adopt, and implement measures to ensure compliance with construction activity runoff timeframe(s) specified in Part 3.1.

2. Construction Activity Stormwater Runoff Program Components

The construction activity stormwater runoff control program shall include, at a minimum, the elements in paragraphs a. through h. of this part:

- a. An ordinance or other regulatory mechanism that requires the use of sediment and erosion control practices and allows the permittee, to the extent authorized by law, to impose sanctions ensuring compliance with the local program. See Part 3.2 Enforcement Requirements for additional requirements on ordinances.

- b. An inventory of all construction activities that disturb or will disturb one (1) or more acres within the permitted area, including those that are less than one (1) acre but are part of a larger common plan of development or sale if the larger common plan will ultimately disturb greater than one (1) acre.
- c. Written procedures for site plan review shall include:
 - 1. A review of the site design;
 - 2. The planned operations at the location of the construction activity;
 - 3. Planned stormwater controls during each construction phase; and
 - 4. The planned controls to be used to manage runoff created after development. (see 6.5)
- d. Written procedures for site inspections and enforcement of sediment and erosion control measures. The procedures shall clearly define who is responsible for site inspections as well as who has authority to implement enforcement procedures. The program shall allow the MS4, to the extent authorized by law, to impose sanctions ensuring compliance with the local program. These procedures and regulatory authorities shall be documented in the SWMP.
- e. In developing procedures for site inspections and enforcement control measures, the permittee shall consider, at a minimum, the following:
 - 1. The phase of construction;
 - 2. Proximity to an impaired, not-attaining or OAW;
 - 3. Size of the construction activity (acreage disturbed); and
 - 4. History of non-compliance (site or operator).
- f. Implement procedures for site inspections of public and private construction projects in accordance with the frequency specified below:
 - 1. Sites (1) one acre or larger that are within 1/4 mile of an impaired or not-attaining protected surface water, that is impaired for turbidity or Suspended Sediment Concentration (SSC), shall be inspected a minimum of once per week, and within 24 hours of the occurrence of each storm event of 0.5 inches or greater in a 24 hour period;
 - 2. Site inspection frequency for sites not subject to part f.1 (above) may follow section a or b below, or any combination thereof:
 - a. Sites shall be inspected within one month of the start of construction. This inspection may count towards quarterly inspections.
 - i. Sites shall be inspected quarterly; and
 - ii. Sites shall be inspected upon completion of construction and prior to final approval or occupancy. This inspection may count towards quarterly inspections.

- b. Sites meeting the below i - v requirements may reduce inspection frequency to every six months. The permittee must document which sites are inspected under this reduced frequency section:
 - i. The nearest downstream receiving water is ephemeral;
 - ii. The construction activity occurs on a site designed so that all stormwater generated by disturbed areas of the site exclusive of public rights-of-way is directed to one or more retention basins that are designed to retain the runoff from an extreme event. For the purposes of this subsection, "extreme event" means a rainfall event that meets or exceeds the local one hundred-year, two- hour storm event as calculated by an Arizona registered professional engineer using industry practices;
 - iii. The owner or operator complies with erosion and sediment control measures;
 - iv. The owner or operator maintains the capacity of the retention basins; and
 - v. Construction conforms to the standards prescribed by this section.

Compliance during this permit term shall be determined by achieving at least 80% of scheduled inspections annually.

- g. Based on construction activity inspection findings, the permittee shall take all necessary follow-up actions (i.e., re-inspection, enforcement) to ensure compliance in accordance with the permittee's enforcement response plan required under Part 3.3.
- h. The permittee shall require construction operators to implement sediment and erosion control BMPs appropriate for the conditions at the construction site. Examples of appropriate sediment and erosion control measures for construction activities include local requirements to:
 - 1. Minimize the amount of disturbed area and protect natural resources;
 - 2. Stabilize sites when projects are complete or operations have temporarily ceased;
 - 3. Protect slopes on the site of the construction activity;
 - 4. Protect storm drain inlets and armor all newly-constructed outlets;
 - 5. Use perimeter controls at the site;
 - 6. Stabilize entrance(s) and exit(s) at the location of the construction activity to prevent off-site tracking; and
 - 7. Inspect stormwater controls at consistent intervals.

- i. The permittee shall require construction operators to control wastes, including but not limited to: discarded building materials, paints, fertilizers, concrete washout, chemicals, litter, equipment leaks, and sanitary wastes.

3. Personnel Qualifications

The permittee shall ensure staff who conduct activities related to implementing the construction stormwater program (permitting, plan review, construction activity inspections, enforcement, etc.) have the knowledge, skills, and abilities to proficiently carryout their assigned duties.

4. Construction Activity Operator Education and Public Involvement

The permittee must develop and implement a program to provide education to construction activity operators on erosion and sediment control BMP requirements and establish procedures for receipt of, and consideration of, information submitted by the public.

6.5 Post-Construction Stormwater Management in New Development and Redevelopment (40 CFR 122.34(b)(5))

The permittee shall develop, implement, and enforce a program to address post- construction stormwater runoff from new development and redevelopment projects that disturb one (1) or more acres of land (or less than one (1) acre if part of a common plan of development) that discharge into the permittee's MS4.

1. The post-construction stormwater management program shall include a combination of structural and/or non-structural best management practices, as well as the components identified in this section.
2. An ordinance or regulatory mechanism shall be implemented to address runoff from new development and redevelopment projects. The regulatory mechanism shall specify that owners or operators of new development and redevelopment sites discharging to the MS4, design, install, and maintain post- construction stormwater controls that reduce or eliminate the discharge of pollutants from the site after construction activities are completed. See Part 3.2 Enforcement Requirements for additional requirements on ordinances.

Permittees shall evaluate existing ordinance or other regulatory mechanism(s) to address post-construction stormwater runoff from new development and redevelopment projects. If it is determined existing ordinances or other regulatory mechanism(s) shall be modified, the permittee shall develop, adopt and implement a revised ordinance or other mechanism within the timeframes(s) specified in Part 3.1.

The permittee's new development/redevelopment program shall have procedures to ensure any stormwater controls or management practices for new development and redevelopment will prevent or minimize impacts to water quality from stormwater runoff.

3. Site Plan Review

The permittee shall design, implement, and maintain a site plan review process to evaluate and approve post-construction stormwater controls. See permit part 6.4(2)(c) for site plan review requirements.

4. Post-Construction Stormwater Control Inventory

The permittee shall implement and maintain an inventory system of all post-construction structural stormwater control measures installed and implemented at new development and redeveloped sites, including both public and private sector sites located within the permit area that discharge into the MS4. The inventory must be searchable by property location (either on paper or electronic) and other relevant criteria (e.g., type: retention, detention, green stormwater infrastructure, permeable pavement, dry well, size: feet, acre, volume; and, purpose: sediment removal, metals treatment, oil and grease).

5. Operation and Maintenance of Post-Construction BMPs

The permittee shall establish processes, procedures, and other such provisions necessary, such as routine inspections of post-construction BMPs to ensure the long-term operation and maintenance of post-construction stormwater BMPs.

6.6 Pollution Prevention and Good Housekeeping for Municipal Operations (40 CFR 122.34(b)(6))

The permittee shall develop, implement, and maintain an operations and maintenance program that includes a training component with the ultimate goal of preventing or reducing pollutant runoff and protecting water quality from municipal facilities and activities. The provisions in this part apply to facilities and activities that are not subject to separate AZPDES permitting.

1. At a minimum, the program shall include control measures for reducing or eliminating the discharge of pollutants from:
 - a. streets, roads, highways;
 - b. municipal parking lots;
 - c. maintenance and storage yards;
 - d. fleet or maintenance shops with outdoor storage areas;
 - e. salt/sand storage locations and snow disposal areas operated by the permittee;
 - f. waste transfer stations; and
 - g. disposal of waste removed from the separate storm sewers and areas listed above (such as dredge spoil, accumulated sediments, floatables, and other debris).

2. Operation and Maintenance of Pollution Prevention and Good Housekeeping BMPs

The permittee shall establish processes, procedures, and other such provisions necessary to ensure the long-term operation and maintenance of stormwater BMPs. At a minimum, the processes and procedures shall include:

- a. Development of an inventory of municipally-owned and operated facilities and activities that discharge;
- b. Prioritize municipal facilities based on their risk to discharge pollutants and develop and implement a site inspection schedule (example, more frequent inspections for higher risk facilities, less frequent inspections for lower risk facilities);
- c. Develop and implement an inspection schedule for municipally-owned or operated facilities and activities, based on priority, to ensure stormwater controls are effective and being properly maintained. Inspections shall be implemented with the following frequencies:
 - i. High risk facilities shall be inspected at least once every quarter;
 - ii. Medium risk facilities shall be inspected at least twice per year; and
 - iii. Low risk facilities shall be inspected at least once per year.
- d. Based on inspection findings, update municipally-owned or operated facilities priority status and modify inspection frequency, as appropriate;
- e. Develop and implement stormwater controls at municipally-owned or operated facilities and discharge activities to reduce or eliminate the discharge of pollutants;
- f. Develop and implement an annual employee training program to incorporate pollution prevention and good housekeeping techniques into everyday operations and maintenance activities; and
- g. 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.

Existing permittees shall continue to implement established operation and maintenance programs while updating those programs, as necessary, to comply with the requirements of this permit.

7.0 MONITORING REQUIREMENTS

All MS4s are required to perform Stormwater Characterization Monitoring as set forth in this section. Additionally, MS4s that have stormwater discharges to impaired or not-attaining waters, OAWs, or waters with TMDLs shall monitor for the impairments, as outlined in this section.

Additionally, ADEQ may notify the MS4 in writing of any additional monitoring requirements to ensure protection of receiving water quality or to ensure permit compliance. Additional monitoring will be required if there is evidence that a pollutant is being discharged by the permittee that may be causing or contributing to exceedances of a water quality standard. Any such notice will provide an explanation of the reasons for the monitoring, locations, and parameters to be monitored, frequency and period of monitoring, sample types, and reporting requirements.

Analytical monitoring shall be conducted using approved test methods in accordance with A.A.C. R18-9-A905(B).

7.1 Monitoring and Assessment Program

1. The monitoring provisions of this section apply to all permittees that must conduct analytical monitoring. The permittee shall implement, and revise as necessary, a comprehensive monitoring and assessment program that includes a Sampling and Analysis Plan (see 7.3).

A description of this program shall be included in the SWMP. The monitoring and assessment program shall be designed to meet the following objectives:

- a. Assess the impacts to impaired, not-attaining, or Outstanding Arizona Waters (OAWs) resulting from stormwater discharges from Small MS4 outfalls;
 - b. Characterize stormwater discharges;
 - c. Identify sources of elevated pollutant loads and specific pollutants; and
 - d. Assess the overall health and evaluate long-term trends in water quality of impaired, not attaining, or OAWs.
2. The permittee shall identify outfall locations in the SWMP that:
 - a. Discharge to impaired waters (Category 5);
 - b. Discharge to not-attaining waters (Category 4);
 - c. Discharges to OAWs listed in A.A.C. R18-11-112; and
 - d. Are subject to additional monitoring required by ADEQ.

7.2 Stormwater Characterization Monitoring Requirements

1. Stormwater Sampling

The permittee shall conduct stormwater characterization monitoring of discharges from the MS4 to protected surface waters at the outfalls identified by the permittee in Part 7.2(4). The permittee shall sample stormwater discharges from the MS4, as required in Appendix B, one (1) time within the first three and one-half (3.5) years of the effective date of the permit; new permittees shall sample stormwater discharges from the MS4 within the first three and one-half (3.5) years after obtaining permit coverage. This monitoring requirement shall provide discharge characterization data of stormwater discharges from the MS4.

2. Qualifying Storm Event

The permittee shall conduct the required stormwater characterization monitoring for qualifying storm events. A qualifying storm event is rainfall in the amount of 0.1 inches or more and a resulting discharge, within the first 24-hours of the event. The permittee shall design stormwater sampling procedures to include the “first flush” (first 30 minutes of storm event discharge) of a qualifying storm event, to the maximum extent practicable.

3. Storm Event Records

The sampled qualifying storm event is 0.1 inches or more of rainfall and resulting in a discharge at the outfall. The permittee shall include the sampled qualifying storm event data in the DMR, including the following information:

- a. Date of the qualifying storm event; and
- b. Amount of rainfall (in inches) in the drainage area for each stormwater monitoring location identified in 7.2(4).

4. Monitoring Locations

The permittee shall identify at least three (3) outfalls or locations within the MS4, representative of stormwater pollution from the MS4 for stormwater characterization monitoring. The identified outfalls for this one-time characterization monitoring must be reported in a discharge monitoring report (DMR), including the identification of the land use for the area served by the outfall from the following three uses: residential, commercial, industrial. The permittee’s selected outfalls must be representative MS4 discharges and discharge to a protected surface water.

5. Adverse Climatic Conditions

Sampling of a qualifying storm event is not required during adverse climatic conditions. Adverse climatic conditions which prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, electrical storms, etc.). Information on the conditions that prevented sampling shall be reported to ADEQ with the DMRs. Where additional stormwater sampling is required, the

permittee shall continue to monitor subsequent storm events during the monitoring season and perform storm water sampling of a qualifying storm event if another occurs during the same wet season.

6. Stormwater Characterization DMR

All parameters listed in Appendix B shall be monitored. Any additional parameters may be monitored as determined by the permittee. All parameters monitored must be reported to ADEQ via the DMR provided in myDEQ.

ADEQ will provide an electronic DMR in myDEQ for each permittee to record their stormwater characterization monitoring.

- a. This DMR shall be submitted within 30 days after receiving laboratory results from characterization monitoring.
- b. For existing permittees, this DMR will be available from October 1, 2021 through March 30, 2024, allowing the entry of data and/or no discharge codes throughout the first three and one-half (3.5) years of permit coverage.
- c. For new permittees, a DMR will be made available for the first three and one-half (3.5) years after obtaining permit coverage.

The permittee shall retain records of all stormwater monitoring information with the SWMP.

7.3 Sampling and Analysis Plan (SAP)

The permittee shall develop a written SAP for analytical monitoring of stormwater discharges, including but not limited to:

1. The name(s) and title of the person(s) who will perform the monitoring;
2. Locations of monitoring sites;
3. A map showing the segments or portions of the protected surface water that are most likely to be impacted by the discharge of pollutant(s);
4. Water quality parameters and pollutants to be sampled;
5. The citation and description of the sampling protocols to be used; and
6. Identification of the analytical methods and related method detection limits (if applicable) for each parameter required. The permittee shall use analytical methods with a Limit of Quantitation (LOQ) that is lower than the effluent limitations, Assessments Levels, Action Levels, or other water quality criteria, if any, specified in this permit. If all methods have LOQs higher than the applicable water quality criteria, the permittee shall use the approved analytical method with the lowest LOQ.

7.4 Discharges to Impaired or Not-Attaining Waters or Outstanding Arizona Waters

1. Discharges to impaired or not-attaining waters:

- a. If an outfall discharges to an impaired or not-attaining water, the permittee shall develop and implement a monitoring program for all pollutants for which the waterbody is listed.
- b. If the waterbody is listed for suspended solids, turbidity or sediment/sedimentation and the discharge occurs for more than 72 hours after the storm event, the permittee shall monitor for suspended sediment concentration (SSC). If the pollutant causing the impairment is expressed in the form of an indicator or surrogate pollutant, the permittee shall monitor for that indicator or surrogate pollutant.
- c. The permittee shall comply with all applicable waste load allocations established in approved TMDLs. In the event monitoring requirements (frequency, analytical parameters, etc.) are established in an approved TMDL, the permittee shall comply with the specifications in the approved TMDL.

2. Discharges to OAWs:

- a. The permittee shall perform analytical monitoring for the following parameters, if the MS4 has discharges to an OAW:
 1. Biochemical oxygen demand (BOD)
 2. Total suspended solids (nonfilterable) (TSS)
 3. pH
 4. Fecal coliform
 5. Oil and grease
- b. The permittee shall also sample for any pollutants for which the OAW is impaired or not-attaining.

Note - this condition does not apply for discharges to OAWs that are non- WOTUS protected surface waters.

3. Discharges to a Lake:

If the protected surface water is a lake that is impaired or not-attaining, a site-specific proposal for sampling the impact area shall be implemented and kept as part of the SWMP.

7.5 Monitoring Frequency and Deadlines

All MS4s that have discharges to impaired or not-attaining waters or OAWs shall perform analytical monitoring as per the frequencies and deadlines stated in this permit part.

1. The operator shall conduct analytical monitoring a minimum of one (1) time per wet season throughout the duration of permit coverage. Analytical monitoring is only required when stormwater or snowmelt discharges from an outfall in sufficient quantity to allow for sample collection and analysis.

For the purposes of analytical monitoring, wet seasons are defined as follows:

Summer wet season: June 1 – October 31
Winter wet season: November 1 – May 31

2. The operator shall conduct analytical monitoring at outfalls observed or suspected to discharge the greatest amount of pollutants using Table 7 below:

Table 7 Minimum Number of Samples to Collect	
Number of Outfalls	Number of Samples
1 to 4	All
5 to 20	5
over 20	10

3. Calibration and Maintenance of Equipment and Monitoring Methods:
 - a. All monitoring instruments and equipment (including operators' own field instruments for measuring pH and turbidity) shall be calibrated and maintained in accordance with manufacturers' recommendations. All laboratory analyses shall be conducted according to test procedures specified in 40 CFR Part 136. The permittee shall use analytical methods with a Limit of Quantitation (LOQ) that is lower than the effluent limitations, Assessments Levels, Action Levels, or other water quality criteria, if any, specified in this permit. If all methods have LOQs higher than the applicable water quality criteria, the Permittee shall use the approved analytical method with the lowest LOQ.
 - b. All samples collected for analytical monitoring shall be analyzed by a laboratory that is licensed by the Arizona Department of Health Services (ADHS) Office of Laboratory Licensure and Certification. This requirement does not apply to parameters that require analysis at the time of sample collection as long as the testing methods used are approved by ADHS or ADEQ. These parameters may include flow, dissolved oxygen, pH, temperature, and total residual chlorine.

- c. The permittee may conduct field analysis of turbidity if the permittee has sufficient capability (qualified and trained employees, properly calibrated and maintained field instruments, etc.) to properly perform the field analysis.
- d. The permittee may conduct field analysis of E. coli if the permittee has sufficient capability (qualified and trained employees, properly calibrated and maintained field instruments, etc.) to properly perform the field analysis using Colilert or an equivalent.

7.6 Analytical Monitoring DMR

All permittees subject to analytical monitoring shall submit the results on the electronic Discharge Monitoring Report (DMR) in myDEQ. The permittee shall retain records of all stormwater monitoring information with the SWMP.

The DMR shall be submitted within 30 days after receiving laboratory results. In the event no samples are collected during a wet season, the DMR indicating “no data” using the appropriate No Discharge Information (NODI) code(s) shall be submitted no later than:

- June 30 (for winter sampling)
- November 30 (for summer sampling)

8.0 PROGRAM ASSESSMENT, RECORDKEEPING, AND REPORTING

8.1 Program Evaluation

1. The permittee shall annually self-evaluate its compliance with the terms and conditions of this permit. The permittee shall maintain the annual evaluation documentation as part of the SWMP.
2. The permittee shall evaluate the appropriateness of the selected BMPs in achieving the objectives of each control measure and the defined measurable goals. The permittee may change BMPs in accordance with the following provisions:
 - a. Adding (but not subtracting) components or controls may be made at any time;
 - b. Changes replacing an ineffective or infeasible BMP specifically identified in the SWMP with an alternative BMP may be made if the proposed changes meet the criteria of this Part, 8.1.
3. BMP modification documentation shall include the following information and all documentation shall be kept in the SWMP:
 - a. An analysis of why the BMP is ineffective or infeasible;
 - b. Expectations on the effectiveness of the replacement BMP; and
 - c. An analysis of why the replacement BMP is expected to achieve the defined goals of the BMP to be replaced.
4. ADEQ may require the permittee to add, modify, repair, replace or change BMPs or other measures described in SWMP to address the following:
 - a. Impacts to receiving water quality caused or contributed to by discharges from the MS4;
 - b. To satisfy conditions of this permit;
 - c. To include more stringent requirements necessary to comply with new state or federal legal requirements; or
 - d. Attainment of SWQS.
5. Any changes requested by ADEQ will be in writing and will require the permittee to develop a schedule to implement the changes and will offer the permittee the opportunity to propose alternative program changes to meet the objective of the requested modification.

8.2 Recordkeeping

1. The permittee shall keep all records required by this permit for a period of three (3)

years from the date the record is created. Records include

information used in the development of any written program required by this permit, any monitoring results, copies of reports, records of screening, follow-up and elimination of illicit discharges; maintenance records; inspection records; enforcement actions; and data used in the development of the NOI, SWMP, plans, and annual reports. This list provides examples of records that should be maintained, but is not all inclusive.

2. Records other than those required to be included in the discharge monitoring report (Part 8.3) and annual report (Part 8.4) shall be submitted upon request by ADEQ or U.S. EPA. Requirements for discharges to non-WOTUS protected surface waters are state-only and records need only be submitted to ADEQ.
3. The permittee shall make the records relating to this permit, including the written stormwater management program, available to the public. The public may view the records during normal business hours. The permittee may charge a reasonable fee for copying requests. The permittee is encouraged to satisfy this requirement by posting records online.

8.3 Annual Report

The permittee shall submit an annual report each year of the permit term to ADEQ. The reporting period is from July 1 through June 30 each year. The annual report is due to ADEQ on or before September 30 each year for the reporting period. Please see Appendix A for the annual report requirements.

9.0 STANDARD PERMIT CONDITIONS

Standard permit conditions in Part 9 are consistent with the general permit provisions required under 40 CFR 122.41 and A.A.C. R-18-9-A905(A)(3).

- 1. Duty to Comply:** [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR122.41(a)(1) and A.R.S. §§ 49-261, 262, 263.01, and 263.02.]
 - a. The operator shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act, A.R.S. Title 49, Chapter 2, Article 3.1, and A.A.C. Title 18, Chapter 9, Article 9, and is grounds for enforcement action, permit termination, revocation and reissuance, or modification, or denial of a permit renewal application.
 - b. The issuance of this permit does not waive any federal, state, county, or local regulations or permit requirements with which a person discharging under this permit is required to comply.
 - c. The operator shall comply with any effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.
- 2. Duty to Reapply / Continuation of the Expired General Permit:** [A.A.C. R18- 9-A905, which incorporates 40 CFR 122.41(b) and A.A.C. R18-9-C903]
 - a. Upon reissuance of the general permit, the permittee shall file an NOI, within the timeframe specified in the new general permit, and shall obtain new written authorization to discharge from the Director.
 - b. If the Director does not reissue the general permit before the expiration date, the current general permit will be administratively continued and remain in force and effect until the general permit is reissued.
 - c. Any operator granted authorization to discharge under the general permit before the expiration date automatically remains covered by the continued general permit until the earlier of:
 - i. Reissuance or replacement of the general permit, at which time the operator shall comply with the NOI conditions of the new general permit to maintain authorization to discharge; or
 - ii. The date the operator has submitted a NOT; or
 - iii. The date the Director has issued an individual permit for the discharge; or
 - iv. The date the Director has issued a formal permit decision not to reissue the general permit, at which time the operator shall seek coverage under an alternative general permit or an individual permit, or cease discharge.

- 3. Need to Halt or Reduce Activity Not a Defense:** [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(c)]

It shall not be a defense for an operator in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

- 4. Duty to Mitigate:** [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(d)]
The operator shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment per A.R.S. § 49- 255.01(E)(1)(d).

- 5. Proper Operation and Maintenance:** [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(e)]

The operator shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the operator to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures.

- 6. Permit Actions:** [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(f)]
This permit may be modified, revoked and reissued, or terminated for cause. Filing a request by the operator for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

- 7. Property Rights:** [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(g)]
This permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, nor any infringement of federal, state, Indian tribe, or local laws or regulations.

- 8. Duty to Provide Information:** [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(h)]

The operator shall furnish to ADEQ, within a reasonable time, any information, which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The operator shall also furnish to ADEQ upon request, copies of records required to be kept by this permit.

- 9. Signatory Requirements:** [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(k) and (l); A.A.C. R18-9-A905(A)(1)(c), which incorporates 40 CFR 122.22]

- a. All Notices of Intent (NOI) and Notices of Termination (NOT) shall be signed as follows:
 - i. For a corporation: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - ii. For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or
 - iii. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal (or state) agency includes: (1) The chief executive officer (or director) of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
- b. All NOTs, reports, plans, inspection reports, monitoring reports, and other information required by this permit shall be signed by a person described in Part 9.9(a), above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - i. The authorization is made in writing by a person described in Subsection 9(a) above;
 - ii. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of manager, operator, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may be either a named individual or any individual occupying a named position); and
 - iii. The signed and dated written authorization is included in the SWMP. A copy shall be submitted to ADEQ, upon request.

- c. Certification. Any person signing documents under the terms of this permit shall make the following 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 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.

10. Inspection and Entry: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(i)]

The operator shall allow the Director or an authorized representative upon the presentation of credentials and such other documents as may be required by law to:

- a. Enter upon the operator's premises where a regulated facility or activity is located or conducted or where records shall be kept under the conditions of this permit;
- b. Have access to and copy at reasonable times, any records that shall be kept under the conditions of this general permit;
- c. Inspect at reasonable times any facility or equipment (including monitoring and control equipment), practices or operations regulated or required under this permit;
- d. Sample or monitor at reasonable times any substances or parameters at any location, for the purposes of assuring permit compliance or as otherwise authorized by A.R.S. Title 49, Chapter 2, Article 3.1, and 18 A.A.C. 9, Articles 9.

11. Monitoring and Records: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(j)]

- a. Representative Samples/Measurements: Samples and measurements taken for the purpose of monitoring shall be representative of the volume and nature of the monitored activity.
- b. Retention of Records: The operator shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date permit coverage ends. Operators shall submit any such records to the Director upon request. The operator shall retain the SWMP developed in accordance with Part 4 of this permit, for at least three (3) years after the last modification or amendment is made to the plan. The Director may

extend this retention period upon request by notifying the operator in writing at any time prior to the end of the standard three year retention period.

- c. Records Contents: Records of monitoring information shall include:
 - i. The date, exact location, and time of sampling or measurements;
 - ii. The initials or name(s) of the individual(s) who performed the sampling or measurements;
 - iii. The date(s) analyses were performed;
 - iv. The time(s) analyses were initiated;
 - v. The initials or name(s) of the individual(s) who performed the analyses;
 - vi. References and written procedures, when available, for the analytical techniques or methods used;
 - vii. The analytical techniques or methods used; and
 - viii. The results of such analyses.
- d. Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained in this permit is subject to the enforcement actions established under A.R.S. Title 49, Chapter 2, Article 4, which includes the possibility of fines and/or imprisonment.

12. Reporting Requirements: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(l)]

- a. Planned changes: The operator shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b) (incorporated by reference at A.A.C. R18-9-A905(A)(1)(e)); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1) (incorporated by reference at A.A.C. R18-9-A905(A)(3)(b)).
- b. Monitoring reports: Monitoring results shall be reported at the intervals specified elsewhere in this permit.
 - i. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or forms (paper or electronic) provided or specified by ADEQ.
 - ii. If the operator monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

iii. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean and non-detected results shall be incorporated in calculations as the limit of quantitation for the analysis.

c. Anticipated noncompliance:

The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

d. Twenty-four hour reporting:

For emergency noncompliance which may endanger the environment or human health and reach a protected surface water, the permittee shall orally report the information to the ADEQ Spill Line at 602-771-2330, within 24 hours from the time the permittee becomes aware of the event.

For non-emergency noncompliance, the permittee shall provide a written notification to ADEQ at stormwatercompliance@azdeq.gov within five (5) calendar days of the noncompliance event. The permittee shall include in the written notification a description of the noncompliance and its cause; the period of noncompliance, including dates and times, and, if the noncompliance has not been corrected, the anticipated timeline it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

e. Other information: When the permittee becomes aware that it failed to submit any relevant facts or submitted incorrect information in a NOI or in any other report to ADEQ, the permittee shall promptly submit the facts or information to stormwatercompliance@azdeq.gov.

13. Reopener Clause: [A.A.C. R18-9-A905(A)(3)(d), which incorporates 40 CFR 122.44(c)] The Department may elect to modify the permit prior to its expiration (rather than waiting for the new permit cycle) to comply with any new statutory or regulatory requirements, such as for effluent limitation guidelines, which may be promulgated in the course of the current permit cycle.

14. Other Environmental Laws:

No condition of this general permit releases the operator from any responsibility or requirements under other environmental statutes or regulations. For example, this permit does not authorize the “taking” of endangered or threatened species as prohibited by Section 9 of the Endangered Species Act, 16 U.S.C. 1538. Information regarding the location of endangered and threatened species and guidance on what activities constitute a “taking” are available from the U.S. Fish and Wildlife Service. The operator shall also comply with applicable State and Federal laws, including Spill Prevention Control and Countermeasures (SPCC), where applicable.

15. State or Tribal Law: [Pursuant to A.A.C. R18-9-A904(C)]

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsibilities, liabilities, or penalties established pursuant to any applicable State or Tribal law or regulation under authority preserved by Section 510 of the Clean Water Act.

16. Severability:

The provisions of this general permit are severable, and if any provision of this general permit, or the application of any provision of this general permit to any circumstance, is held invalid, the application of the provision to other circumstances, and the remainder of this general permit shall not be affected.

17. Requiring Coverage under an Individual Permit or an Alternative General Permit:
[Pursuant to A.A.C. R18-9-C902 and R18-9-A909]

- a. The Director may require a person authorized by this permit to apply for and/or obtain either an individual AZPDES permit or an alternative AZPDES general permit. Any interested person may petition the Department to take action under this section. The Department may require an operator authorized to discharge under this permit to apply for an individual permit in any of the following cases:
 - i. A change occurs in the availability of demonstrated technology or practices for the control or abatement of pollutants applicable to the point source;
 - ii. Effluent limitation guidelines are promulgated for point sources covered by the general permit;
 - iii. An Arizona Water Quality Management Plan containing requirements applicable to the point sources is approved;
 - iv. Circumstances change after the time of the request to be covered so that the discharger is no longer appropriately controlled under the general permit, or either a temporary or permanent reduction or elimination of the authorized discharge is necessary;
 - v. If the Director determines that the discharge is a significant contributor of pollutants. When making this determination, the Director shall consider:
 1. The location of the discharge with respect to protected surface waters;
 2. The size of the discharge;
 3. The quantity and nature of the pollutants discharged to protected surface waters; and
 4. Any other relevant factors.

- b. If an individual permit is required, the Director shall notify the discharger in writing of the decision. The notice shall include:
 - i. A brief statement of the reasons for the decision;
 - ii. An application form;
 - iii. A statement setting a deadline to file the application;
 - iv. A statement that on the effective date of issuance or denial of the individual permit, coverage under the general permit will automatically terminate;
 - v. The applicant's right to appeal the individual permit requirement with the Water Quality Appeals Board under A.R.S. § 49-323, the number of days the applicant has to file a protest challenging the individual permit requirement, and the name and telephone number of the Department contact person who can answer questions regarding the appeals process; and
 - vi. The applicant's right to request an informal settlement conference under A.R.S. 41-1092.03(A) and 41-1092.06.
- c. The discharger shall apply for an individual permit within 90 days of receipt of the notice, unless the Director grants a later date. In no case shall the deadline be more than 180 days after the date of the notice.
- d. If the discharger fails to submit the individual permit application within the time period established in Part 9.17(c) the applicability of the general permit to the discharger is automatically terminated at the end of the day specified by the Director for application submittal.
- e. Coverage under the general permit shall continue until an individual permit is issued or denied unless the general permit coverage is terminated under Part 9.17(d).

18. Request for an Individual Permit: [Pursuant to A.A.C. R18-9-C902]

- a. An operator may request an exclusion from coverage of a general permit by applying for an individual permit.
 - i. The operator shall submit an individual permit application under R18-9-B901(B) and include the reasons supporting the request no later than 90 days after publication of the general permit.
 - ii. The Director shall grant the request if the reasons cited by the operator are adequate to support the request.
- b. If an individual permit is issued to a person otherwise subject to a general permit, the applicability of the general permit to the discharge is automatically terminated on the effective date of the individual permit.

19. Change of Operator: [A.A.C. R18-9-C904]

If a change of ownership or operator occurs for a facility operating under a general permit:

- a. Permitted owner or operator: The operator shall provide the Department with a NOT by certified mail within 30 days after the new owner or operator assumes responsibility for the facility.
 - i. The NOT shall include all requirements for termination specified in the general permit for which the NOT is submitted.
 - ii. An operator shall comply with the permit conditions specified in the general permit for which the NOT is submitted until the NOT is received by the Department.
- b. New owner or operator:
 - i. The new owner or operator shall complete and file a NOI with the Department within the time period specified in the general permit before taking over operational control of, or initiation of activities at, the facility.
 - ii. If the previous operator was required to implement a stormwater pollution prevention plan, the new owner shall develop a new stormwater pollution prevention plan, or may modify, certify, and implement the old stormwater pollution prevention plan if the old stormwater pollution prevention plan complies with the requirements of the current general permit.
 - iii. The operator shall provide the Department with a NOT if a permitted facility ceases operation, ceases to discharge, or changes operator status. In the case of a construction activity, the operator shall submit a NOT to the Department when:
 - 1. The facility ceases construction operations and the discharge is no longer associated with construction or construction-related activities,
 - 2. The construction is complete and final site stabilization is achieved, or
 - 3. The operator's status changes.

20. Bypass: [A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(m)]

- a. Definitions:
 - i. Bypass means the intentional diversion of waste streams from any portion of a treatment facility;
 - ii. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

- b. Bypass not exceeding limitations: The operator may allow any bypass to occur that does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions Part 9.20(c) and 20(d).
- c. Notice:
 - i. Anticipated bypass. If the operator knows in advance of the need for a bypass, if possible prior notice shall be submitted at least ten days before the date of the bypass.
 - ii. Unanticipated bypass. The operator shall submit notice of an unanticipated bypass as required in Part 9.12(d).
- d. Prohibition of bypass:
 - i. Bypass is prohibited, and ADEQ may take enforcement action against the operator for bypass, unless:
 - 1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - 2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - 3. The operator submitted notices as required under Part 9.20(c).
 - ii. ADEQ may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in this Part 9.20(d).

21. Upset: [A.R.S. §§ 49-255(8) and 255.01(E), A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(n)]

- a. Definition: Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the operator. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. Effect of an upset: An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Part 9.21(c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

- c. Conditions necessary for a demonstration of upset: An operator who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the operator can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated;
 - iii. The operator submitted notice of the upset as required in Part 9.12(d)(iii); and
 - iv. The operator complied with any remedial measures required under Part 9.4.
- d. Burden of proof: in any enforcement proceeding, the operator, who is seeking to establish the occurrence of an upset, has the burden of proof.

22. Penalties for Violations of Permit Conditions

Any permit noncompliance constitutes a violation and is grounds for an enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

- a. Civil Penalties: A.R.S. § 49-262 provides that any person who violates any provision of A.R.S. Title 49, Chapter 2, Article 2, 3 or 3.1 or a rule, permit, discharge limitation or order issued or adopted under A.R.S. Title 49, Chapter 2, Article 3.1 is subject to a civil penalty not to exceed \$25,000 per day per violation.
- b. Criminal Penalties: Any person who violates a condition of this general permit, or violates a provision under A.R.S. Title 49, Chapter 2, Article 3.1, or A.A.C. Title 18, Chapter 2, Article 9 is subject to the enforcement actions established under A.R.S. Title 49, Chapter 2, Article 4, which may include the possibility of fines and/or imprisonment.

10.0 DEFINITIONS

Analytical monitoring – monitoring conducted to provide quantitative results in accordance with A.A.C. R18-9-A905(B).

Best management practices (BMPs) – schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of “surface waters.” BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. Also called Controls or Control Measures.

Common plan of development – a contiguous area where multiple separate and distinct land disturbing activities may be taking place at different times, on different schedules, but under one plan. A ‘plan’ is broadly defined to include design, permit application, advertisement or physical demarcation indicating that land-disturbing activities may occur.

Construction activity – earth-disturbing activities such as, clearing, grading, excavating, stockpiling of fill material and other similar activities. This definition encompasses both large construction activities defined in 40 CFR 122.26 (b)(14)(x) and small construction activities in 40 CFR 122.26 (b)(15)(i) and includes construction support activities.

Controls or Control Measures or Measures - See Best Management Practices.

CWA or The Act - Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub. L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et seq.

Department – the Arizona Department of Environmental Quality.

Director – the Director of ADEQ

Discharge – means the “discharge of a pollutant.”

Discharge of a pollutant – means:

- a. Any addition of any “pollutant” or combination of pollutants to protected surface waters from any “point source,” or
- b. Any addition of any pollutant or combination of pollutants to the protected surface waters of the “contiguous zone” or the ocean from any point source other than a vessel or other floating craft, which is being used as a means of transportation.

This definition includes additions of pollutants into protected surface waters from:

- a. Surface runoff which is collected or channeled by man;

- b. Discharges through pipes, sewers, or other conveyances owned by a State, municipality, or other person which do not lead to a treatment works; and
- c. Discharges through pipes, sewers, or other conveyances, leading into privately owned treatment works.

This term does not include an addition of pollutants by any “indirect discharger.”

Discharge point – the location where stormwater flows exit the MS4 or other regulated activities, such as construction sites and industrial sites.

Effluent limitations – any limitation or condition on quantities, discharge rates, or concentration of pollutants, which are discharged from a point source.

Effluent Limitations Guideline (ELG) – defined in 40 CFR § 122.2 as a regulation published by the Administrator under section 304(b) of CWA to adopt or revise effluent limitations.

Existing permittees - Small MS4 operators who had coverage under ADEQ’s 2016 Small MS4 General Permit.

Facility - any "point source" or any other facility (including land or appurtenances thereto) that is subject to regulation under the AZPDES/NPDES program.

Field Screening Point - location(s) where municipal stormwater leaves a Small MS4 operator’s permitted area and goes to a protected surface water by way of a discrete and channelized conveyance (such as another municipal storm sewer system).

Illicit connection - any man-made conveyance connecting an illicit discharge directly to a municipal separate storm sewer.

Illicit discharge - any discharge to a municipal separate storm sewer that is not composed entirely of stormwater except discharges pursuant to an AZPDES/NPDES permit (other than the AZPDES permit for discharges from the municipal separate storm sewer) and discharges resulting from firefighting activities.

Impaired water – waters that have been assessed by ADEQ, under the Clean Water Act, as not attaining a water quality standard for at least one (1) designated use, and are listed in Arizona’s current 303(d) List or on the 305(b) Category 4 list.

Maximum Extent Practicable (MEP) – the technology-based discharge standard for municipal separate storm sewer systems to reduce pollutants in storm water discharges. A discussion of MEP as it applies to small MS4s is found at 40 CFR

122.34. CWA section 402(p)(3)(B)(iii) requires that a municipal permit “shall require controls to reduce the discharge of pollutants to the maximum extent practicable, including management practices, control techniques and system design, and engineering methods, and other provisions such as the Administrator or the State determines appropriate for the control of such pollutants.

Measurable goal - a quantitative measure of progress in implementing a component of a storm water management program.

Minimize – to reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal separate storm sewer – a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- a. Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or a designated and approved management agency under section 208 of the Clean Water Act (33 U.S.C. 1288) that discharges to protected surface waters;
- b. Designed or used for collecting or conveying stormwater;
- c. Which is not a combined sewer; and
- d. Which is not part of a Publicly Owned Treatment Works.

Municipal separate storm sewer system (MS4) – all separate storm sewers defined as “large,” “medium,” or “small” municipal separate storm sewer systems or any municipal separate storm sewers on a system-wide or jurisdiction-wide basis as determined by the Director under A.A.C. R18-9-C902(A)(1)(g)(i) through (iv). [A.A.C. R18-9-A901(23)]. This also includes similar systems owned or operated by separate storm sewer municipal jurisdictions not required to obtain stormwater discharge authorization.

New permittees - Small MS4 operators who did not have permit coverage under ADEQ’s 2016 Small MS4 General Permit.

Not-Attaining Water - a protected surface water is assessed as impaired, but is not placed on the 303(d) List or equivalent for non-WOTUS protected state waters because:

- a. A TMDL is prepared and implemented for the surface water;
- b. An action, which meets the requirements of R18-11-604(D)(2)(h), is occurring and is expected to bring the surface water to attaining before the next 303(d) List submission; or
- c. The impairment of the surface water is due to pollution but not a pollutant, for which a TMDL load allocation cannot be developed.

Non-traditional MS4 - systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings. 40 CFR 122.26(a)(16)(iii).

Notice of Intent (NOI) – the application to operate under this general permit.

Notice of Termination (NOT) – the application to terminate coverage under this general permit.

Outfall – a *point source* as defined by 40 CFR 122.2 at the point where a municipal separate storm sewer discharges to protected surface waters. An outfall does not include open conveyances connecting two (2) municipal separate storm sewers, or pipes, tunnels or other conveyances, which connect segments of the same stream or other protected surface waters and are used to convey protected surface waters.

Outstanding Arizona Water (OAW) – a protected surface water that has been designated by ADEQ as an outstanding state resource under A.A.C. R18-11-112.

Owner or operator - the owner or operator of any “facility or activity” subject to regulation under the NPDES program.

Permittee – refers to any person (defined below) authorized by this NPDES permit to discharge to protected surface waters.

Person – an individual, employee, officer, managing body, trust, firm, joint stock company, consortium, public or private corporation, including a government corporation, partnership, association or state, a political subdivision of this state, a commission, the U.S. government or any federal facility, interstate body, or other entity.

Point source – any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff.

Pollutant – sediment, fluids, contaminants, toxic wastes, toxic pollutants, dredged spoil, solid waste, substances and chemicals, pesticides, herbicides, fertilizers and other agricultural chemicals, incinerator residue, sewage, garbage, sewage sludge, munitions, petroleum products, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt (e.g., overburden material), and mining, industrial, municipal and agricultural wastes or any other liquid, solid, gaseous or hazardous substances. [A.R.S. § 49- 201(29)]

Protected Surface Water - waters of the State listed on the protected surface water list under Section 49-221, Subsection G and all WOTUS.

Receiving water - as used in this permit means a Protected Surface Water that receives discharges from the MS4.

Stormwater – stormwater runoff, snow melt runoff, and surface runoff and drainage. See 40 CFR 122.26(b)(13) as incorporated by AAC R18-9-A905.

Stormwater discharge associated with construction activity – a discharge of pollutants in stormwater runoff from areas where soil disturbing activities (e.g., clearing, grading, or excavating), construction materials, or equipment storage or

maintenance (e.g., fill piles, borrow areas, concrete truck washout, fueling), or other industrial stormwater directly related to the construction process (e.g., concrete or asphalt batch plants) are located. See 40 CFR 122.26(b)(14)(x) and 40 CFR 122.26(b)(15).

Stormwater discharge associated with industrial activity - a discharge from any conveyance which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant (See 40 CFR §122.26(b)(14) for specifics of this definition).

Stormwater Management Program (SWMP) - a comprehensive program to manage the quality of stormwater discharged from the municipal separate storm sewer system. For the purposes of this permit, the Stormwater Management Program is considered a single document, but may actually consist of separate programs (e.g. "chapters") for each permittee.

Stormwater Pollution Prevention Plan (SWPPP) – a site-specific, written document that, among other things: identifies potential sources of stormwater pollution at the location of the disturbance; describes control measures to reduce or eliminate pollutants in stormwater discharges from the facility/activity; and identifies procedures the operator will implement to comply with the terms and conditions of the general permit (typically CGP or MSGP).

Surface Water Quality Standards - means a standard adopted for a protected surface water pursuant to Section 49-221 and, in the case of WOTUS, pursuant to Section 49-222.

Total Maximum Daily Load (TMDL) – an estimation of the total amount of a pollutant from all sources that may be added to a water while still allowing the water to achieve and maintain applicable SWQS. Each total maximum daily load shall include allocations for sources that contribute the pollutant to the water. Total Maximum Daily Loads for Waters of the U.S. shall meet the requirements of section 303(d) of the Clean Water Act (33 USC 1313(d) and regulations implementing that statute to achieve applicable surface water quality standards."

Turbidity – a condition of water quality characterized by the presence of suspended solids and/or organic material; expressed as Nephelometric turbidity units (NTU).

Waste load allocation (WLA) – The maximum load of pollutants each discharger of waste is allowed to release into a particular waterway. Discharge limits are usually required for each specific water quality criterion being, or expected to be, violated. WLAs constitute a type of water quality-based effluent limitation. (See 40 C.F.R. § 130.2(h))

Waters of the U.S. means waters of the State that are also navigable waters as defined by Section 502(7) of the Clean Water Act.

Wetland – an area that is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances does support, a prevalence of vegetation typically adapted for life in saturated soil

conditions. A wetland includes a swamp, marsh, bog, Cienega, tinaja, and similar areas. [A.A.C. R18-11-101(49)]

Appendix A: Annual Report Requirements

4.0 Stormwater Management Program:

1. Did the permittee assess and evaluate the SWMP as part of preparing the annual report, per Permit Section 4.0?

6.0 Minimum Control Measures:

2. Did the permittee have another entity implement control measures on behalf of the MS4 per Permit Section 6.0(2)? If yes, identify the entity and give a brief explanation of their involvement.

6.1 MCM1 Public Education and Outreach:

3. Did the permittee provide outreach and education to the public on the stormwater program issues and requirements, per Permit Section 6.1(1)?
 - a. Identify the target group and topic used for outreach and education.
 - b. Identify the message used for each target group and topic.
 - c. Identify how the message was conveyed to each target group.
 - d. Identify measures/methods used to assess the effectiveness of the message used for each target group.
4. Did the permittee provide outreach and education to the public on the stormwater program issues and requirements, per Permit Section 6.1(2)?
 - a. Identify the target group and topic used for outreach and education.
 - b. Identify the message used for each target group and topic.
 - c. Identify how the message was conveyed to each target group.
 - d. Identify measures/methods used to assess the effectiveness of the message used for each target group.

6.2 MCM2: Public Participation and Involvement:

5. Did the permittee post the SWMP and Annual Report on their website, per Permit Section 6.2(1)?

6. Did the permittee provide and publicize a reporting system to facilitate and track public reporting of spills, discharges and/or dumping to the MS4 on a continuous basis, per Permit Section 6.2(4)?

6.3 MCM3: IDDE:

7. Provide a narrative description of the status of the storm sewer mapping, per Permit Section 6.3(1). What is the date of the most recent storm sewer system map showing the location of all outfalls?
8. Did the permittee establish an ordinance or other regulatory mechanism for enforcement procedures of the IDDE Program per Permit Section 6.3(2)? What is the citation of the ordinance or other regulatory mechanism to prohibit non- stormwater discharges into the permittee's MS4?
9. Did the permittee establish or update the "Statement of IDDE Program Responsibilities," per Permit Section 6.3(3)?
10. The permittee shall submit one (1) copy of their 6.3(4) summary of IDDE activities in a tabular format.
11. Did the permittee visually monitor at least 20% of all outfalls this permit year, per Permit Section 6.3(7)?
12. Did the permittee identify indicators of IDDE Program progress or success per Permit Section 6.3(8)?
13. Did the permittee provide annual staff training, per Permit Section 6.3(9)?
 - a. Approximately how many staff attended?
 - b. What was the topic?

6.4 MCM4: Construction Activity Stormwater Runoff Control:

14. Did the permittee establish an ordinance or other regulatory mechanism for enforcement procedures of the Construction Activity Stormwater Runoff Control Program per Permit Section 6.4(2)(a)? What is the citation of the ordinance or other regulatory mechanism to require erosion and sediment controls, including sanctions to ensure compliance?
15. Did the permittee implement a construction site inventory, per Permit Section 6.4(2)(b)?
16. Did the permittee develop written procedures for site plan review, per Permit Section 6.4(2)(c)?
17. Did the permittee implement written procedures for site inspections and enforcement control measures, per Permit Section 6.4(2)(f)?

- a. How many construction site inspections were done in the permit year?
 - b. How many follow-up actions were necessary (re-inspection, enforcement actions)?
18. Did the permittee develop and implement an educational program focused on erosion and sediment control for Construction Operators, per Permit Section 6.4(2)(h)?
19. Did the permittee develop and implement a program requiring construction operators to control wastes from their sites, per Permit Section 6.4(2)(i)?
20. Did the permittee implement procedures to receive and act on information submitted by the public (complaints), per Permit Section 6.4(4)?

6.5 MCM5: Post Construction:

21. Did the permittee implement a program that includes a combination of structural and non-structural BMPs, per Permit Section 6.5(1)?
22. Did the permittee establish an ordinance or other regulatory mechanism for enforcement procedures of the Post-Construction Stormwater Management per Permit Section 6.5(2)? What is the citation for the ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects?
23. Did the permittee implement a program to prevent or minimize impacts to water quality from stormwater runoff of new development and redevelopment sites, per Permit Section 6.5(2)?
24. Did the permittee implement procedures for site plan review, per Permit Section 6.5(3)?
25. Did the permittee implement an inventory of post construction site structural stormwater control measures installed within the MS4, per Permit Section 6.5(4)?
26. Did the permittee implement a program to ensure the long-term operation and maintenance of post construction BMPs, per Permit Section 6.5(5)?

6.6 MCM6: Pollution Prevention and Good Housekeeping:

27. Did the permittee implement a program to reduce or eliminate discharges of pollutants from municipal streets, facilities, yards, etc., per Permit Section 6.6(1)?
28. Did the permittee implement a program to ensure the long-term operation and maintenance of stormwater BMPs, per Permit Section 6.6(2)?

29. Did the permittee develop an inventory of facilities, prioritized based on their risk of discharging non-stormwater, per Permit Section 6.6(2)(a)?
30. Did the permittee implement an inspection schedule for prioritized facilities, per Permit Section 6.6(2)(c)?
31. Did the permittee implement an annual training program for staff that incorporates pollution prevention and good housekeeping techniques, per Permit Section 6.6(2)(f)?
 - a. Approximately how many staff attended?
 - b. What was the topic?
32. Did the permittee develop maintenance activities, schedules and long-term inspections to reduce floatables, trash and other pollutants from the MS4, per Permit Section 6.6(2)(g)?
33. Does the permittee discharge to a non-attaining or impaired water, or an Outstanding Arizona Water (OAW)?

Appendix B: Stormwater Characterization Monitoring Requirements

All permittees shall conduct stormwater characterization monitoring for the parameters listed in Table 7.0 below, as required by Parts 7.1, 7.2, and 7.3 of this permit.

Table B: Analytical Wet Weather Characterization Monitoring

Parameter	Units	Monitoring Frequency	Monitoring Type
Metals			
Antimony	µg/L	1x during first 42 months of permit term	Discrete
Barium	µg/L	1x during first 42 months of permit term	Discrete
Beryllium	µg/L	1x during first 42 months of permit term	Discrete
Cadmium	µg/L	1x during first 42 months of permit term	Discrete
Nickel	µg/L	1x during first 42 months of permit term	Discrete
Mercury	µg/L	1x during first 42 months of permit term	Discrete
Silver	µg/L	1x during first 42 months of permit term	Discrete
Thallium	µg/L	1x during first 42 months of permit term	Discrete
Inorganics			
Cyanide	µg/L	1x during first 42 months of permit term	Discrete
Volatile Organic Compounds (VOCs)			
Acrolein	µg/L	1x during first 42 months of permit term	Discrete
Acrylonitrile	µg/L	1x during first 42 months of permit term	Discrete
Benzene	µg/L	1x during first 42 months of permit term	Discrete
Carbon tetrachloride	µg/L	1x during first 42 months of permit term	Discrete
Chlorobenzene	µg/L	1x during first 42 months of permit term	Discrete

Parameter	Units	Monitoring Frequency	Monitoring Type
Dibromochloromethane	µg/L	1x during first 42 months of permit term	Discrete
Chloroethane	µg/L	1x during first 42 months of permit term	Discrete
2-chloroethylvinyl ether	µg/L	1x during first 42 months of permit term	Discrete
Chloroform	µg/L	1x during first 42 months of permit term	Discrete
Bromodichloromethane	µg/L	1x during first 42 months of permit term	Discrete
1,2-dichlorobenzene	µg/L	1x during first 42 months of permit term	Discrete
1,3-dichlorobenzene	µg/L	1x during first 42 months of permit term	Discrete
1,4-dichlorobenzene	µg/L	1x during first 42 months of permit term	Discrete
1,1-dichloroethane	µg/L	1x during first 42 months of permit term	Discrete
1,2-dichloroethane	µg/L	1x during first 42 months of permit term	Discrete
1,3-dichloropropylene	µg/L	1x during first 42 months of permit term	Discrete
Ethylbenzene	µg/L	1x during first 42 months of permit term	Discrete
Bromomethane	µg/L	1x during first 42 months of permit term	Discrete
Chloromethane	µg/L	1x during first 42 months of permit term	Discrete
Methylene chloride	µg/L	1x during first 42 months of permit term	Discrete
1,1,2,2-tetrachloroethane	µg/L	1x during first 42 months of permit term	Discrete
Tetrachloroethylene	µg/L	1x during first 42 months of permit term	Discrete
Toluene	µg/L	1x during first 42 months of permit term	Discrete
1,2-trans- dichloroethylene	µg/L	1x during first 42 months of permit term	Discrete
1,1,1-trichloroethane	µg/L	1x during first 42 months of permit term	Discrete

Parameter	Units	Monitoring Frequency	Monitoring Type
1,1,2-trichloroethane	µg/L	1x during first 42 months of permit term	Discrete
Trichloroethylene	µg/L	1x during first 42 months of permit term	Discrete
Vinyl chloride	µg/L	1x during first 42 months of permit term	Discrete
Xylene	µg/L	1x during first 42 months of permit term	Discrete
Semi-VOCs - Acid Extractable			
2-chlorophenol	µg/L	1x during first 42 months of permit term	Discrete
2,4-dichlorophenol	µg/L	1x during first 42 months of permit term	Discrete
2,4-dimethylphenol	µg/L	1x during first 42 months of permit term	Discrete
4,6-dinitro-o-cresol	µg/L	1x during first 42 months of permit term	Discrete
2,4-dinitrophenol	µg/L	1x during first 42 months of permit term	Discrete
2-nitrophenol	µg/L	1x during first 42 months of permit term	Discrete
4-nitrophenol	µg/L	1x during first 42 months of permit term	Discrete
p-chloro-m-cresol	µg/L	1x during first 42 months of permit term	Discrete
Pentachlorophenol	µg/L	1x during first 42 months of permit term	Discrete
Phenol	µg/L	1x during first 42 months of permit term	Discrete
2,4,6-trichlorophenol	µg/L	1x during first 42 months of permit term	Discrete
Semi-VOCs – Base/Neutrals			
Acenaphthene	µg/L	1x during first 42 months of permit term	Discrete
Acenaphthylene	µg/L	1x during first 42 months of permit term	Discrete
Anthracene	µg/L	1x during first 42 months of permit term	Discrete
Benz(a)anthracene	µg/L	1x during first 42 months of permit term	Discrete

Parameter	Units	Monitoring Frequency	Monitoring Type
Benzo(a)pyrene	µg/L	1x during first 42 months of permit term	Discrete
Benzo(b)fluoranthene	µg/L	1x during first 42 months of permit term	Discrete
Benzo(g,h,i)perylene	µg/L	1x during first 42 months of permit term	Discrete
Benzo(k)fluoranthene	µg/L	1x during first 42 months of permit term	Discrete
Chrysene	µg/L	1x during first 42 months of permit term	Discrete
Dibenzo(a,h)anthracene	µg/L	1x during first 42 months of permit term	Discrete
3,3'-dichlorobenzidine	µg/L	1x during first 42 months of permit term	Discrete
Diethyl phthalate	µg/L	1x during first 42 months of permit term	Discrete
Dimethyl phthalate	µg/L	1x during first 42 months of permit term	Discrete
Di-n-butyl phthalate	µg/L	1x during first 42 months of permit term	Discrete
2,4-dinitrotoluene	µg/L	1x during first 42 months of permit term	Discrete
2,6-dinitrotoluene	µg/L	1x during first 42 months of permit term	Discrete
Di-n-octyl phthalate	µg/L	1x during first 42 months of permit term	Discrete
1,2-diphenylhydrazine (as azobenzene)	µg/L	1x during first 42 months of permit term	Discrete
Fluoranthene	µg/L	1x during first 42 months of permit term	Discrete
Fluorene	µg/L	1x during first 42 months of permit term	Discrete
Hexachlorobenzene	µg/L	1x during first 42 months of permit term	Discrete
Hexachlorobutadiene	µg/L	1x during first 42 months of permit term	Discrete
Hexachlorocyclopentadi ene	µg/L	1x during first 42 months of permit term	Discrete
Hexachloroethane	µg/L	1x during first 42 months of permit term	Discrete

Parameter	Units	Monitoring Frequency	Monitoring Type
Indeno(1,2,3-cd)pyrene	µg/L	1x during first 42 months of permit term	Discrete
Isophorone	µg/L	1x during first 42 months of permit term	Discrete
Naphthalene	µg/L	1x during first 42 months of permit term	Discrete
Nitrobenzene	µg/L	1x during first 42 months of permit term	Discrete
N-nitrosodimethylamine	µg/L	1x during first 42 months of permit term	Discrete
N-nitrosodi-n- propylamine	µg/L	1x during first 42 months of permit term	Discrete
N-nitrosodiphenylamine	µg/L	1x during first 42 months of permit term	Discrete
Phenanthrene	µg/L	1x during first 42 months of permit term	Discrete
Pyrene	µg/L	1x during first 42 months of permit term	Discrete
1,2,4-trichlorobenzene	µg/L	1x during first 42 months of permit term	Discrete
PCB / Pesticides			
Aldrin	µg/L	1x during first 42 months of permit term	Discrete
Alpha-BHC	µg/L	1x during first 42 months of permit term	Discrete
Beta-BHC	µg/L	1x during first 42 months of permit term	Discrete
Gamma-BHC	µg/L	1x during first 42 months of permit term	Discrete
Delta-BHC	µg/L	1x during first 42 months of permit term	Discrete
Chlordane	µg/L	1x during first 42 months of permit term	Discrete
4,4'-DDT	µg/L	1x during first 42 months of permit term	Discrete
4,4'-DDE	µg/L	1x during first 42 months of permit term	Discrete
4,4'-DDD	µg/L	1x during first 42 months of permit term	Discrete

Parameter	Units	Monitoring Frequency	Monitoring Type
Dieldrin	µg/L	1x during first 42 months of permit term	Discrete
Alpha-endosulfan	µg/L	1x during first 42 months of permit term	Discrete
Beta-endosulfan	µg/L	1x during first 42 months of permit term	Discrete
Endosulfan sulfate	µg/L	1x during first 42 months of permit term	Discrete
Endrin	µg/L	1x during first 42 months of permit term	Discrete
Endrin aldehyde	µg/L	1x during first 42 months of permit term	Discrete
Heptachlor	µg/L	1x during first 42 months of permit term	Discrete
Heptachlor epoxide	µg/L	1x during first 42 months of permit term	Discrete
PCB-1242	µg/L	1x during first 42 months of permit term	Discrete
PCB-1254	µg/L	1x during first 42 months of permit term	Discrete
PCB-1221	µg/L	1x during first 42 months of permit term	Discrete
PCB-1232	µg/L	1x during first 42 months of permit term	Discrete
PCB-1248	µg/L	1x during first 42 months of permit term	Discrete
PCB-1260	µg/L	1x during first 42 months of permit term	Discrete
PCB-1016	µg/L	1x during first 42 months of permit term	Discrete
Toxaphene	µg/L	1x during first 42 months of permit term	Discrete

Notes:

1. The permittee shall include any additional parameters in stormwater sampling as specified by Part 5.0 Water Quality Standards of this permit.
2. The permittee shall collect discrete samples and shall attempt to include the “first flush” (first 30 minutes of stormwater discharge) of a qualifying storm event whenever possible to do so. Auto Sampling equipment may be used, if available.
3. When analyzing for metals, the permittee shall assume a 1:1 total dissolved ratio

for purposes of reporting and comparison with SWQS. Alternatively, the permittee may test for dissolved metals, if appropriate field filtering is completed. Hardness data must also be collected and used to calculate the corresponding SWQS for certain metals as indicated by SWQS rules.

Appendix C: Total Maximum Daily Load (TMDL) Requirements

The following requirements are included in this permit based on applicable TMDL requirements in accordance with Part 1.3(5). See permit Parts 7.4 – 7.8 for specific analytical monitoring requirements.

Gila River

Name of TMDL	Gila River – Centennial Wash to Gillespie Dam
Document(s) for TMDL	middlegila_centennial_tmdl_final.pdf may be downloaded at https://www.azdeq.gov , search words “Middle Gila Watershed”
Location of Original 303(d) Listings	15070101-008
Area Where TMDL Requirements Apply	TMDL coverage includes areas served by an MS4 draining to the Gila River
Parameter(s)	Total Boron and Total Selenium
EPA Approval Date	November 2015
MS4 Permittee(s)	Town of Buckeye, Maricopa County

Town of Buckeye and Maricopa County:

The Town of Buckeye and Maricopa County shall analytically monitor stormwater discharges from MS4 outfalls to the Gila River, from Centennial Wash to Gillespie Dam. Analytical monitoring shall be submitted per permit part 7.0. Concentration-based waste load allocations (WLAs) for this TMDL are 1,000 g/L Total Boron and 2.0 g/L Total Selenium.

If the WLA are exceeded the permittee shall propose to ADEQ an action plan, including a schedule for implementation, and submit it to ADEQ at AZPDES@azdeq.gov within 60 calendar days of becoming aware of the WLA exceedance. ADEQ shall provide a review and approval within 30 calendar days. The permittee shall then incorporate the action plan into their SWMP. Repeat exceedances for the same parameter of the WLA does not require submittal of another action plan.

Granite Creek:

Name of TMDL	Upper Granite Creek Watershed
Document(s) for TMDL	tmdl_granitecreek_final.pdf may be downloaded at https://www.azdeq.gov , search words "Verde Watershed"
Location of Original 303(d) Listings	AZ15060202-059A
Area Where TMDL Requirements Apply	TMDL coverage includes areas served by an MS4 draining to Granite Creek
Parameter(s)	E. coli
EPA Approval Date	November 2015
MS4 Permittee(s)	City of Prescott, Yavapai County

City of Prescott and Yavapai County

The City of Prescott and Yavapai County shall analytically monitor stormwater discharges from MS4 outfalls to Granite Creek. Analytical monitoring shall be submitted as per permit part 7.0. Concentration-based WLAs for this TMDL are 235 cfu/100 ml (single sample maximum).

If the WLA are exceeded the permittee shall propose to ADEQ an action plan, including a schedule for implementation, and submit it to ADEQ at AZPDES@azdeq.gov within 60 calendar days of becoming aware of the WLA exceedance. ADEQ shall provide a review and approval within 30 calendar days. The permittee shall then incorporate the action plan into their SWMP. Repeat exceedances for the same parameter of the WLA does not require submittal of another action plan.

Oak Creek

Name of TMDL	Oak Creek and Spring Creek	
Document(s) for TMDL	Verderiver_oakcreek_2010tmdl.pdf may be downloaded at https://www.azdeq.gov , search words "Verde Watershed"	
Location of Original 303(d) Listings	Oak Creek-Headwaters to West Fork Oak Creek	15060202-019
	Oak Creek-West Fork to Slide Rock State Park	15060202-18A
	Oak Creek-At Slide Rock State Park	15060202-18B
	Oak Creek-Below Slide Rock S.P. to Dry Creek	15060202-18C
	Oak Creek-Dry Creek to Spring Creek	15060202-017
	Spring Creek-Coffee Creek to Oak Creek	15060202-022
Area Where TMDL Requirements Apply	TMDL coverage includes areas served by an MS4 draining to any of the reaches of Oak Creek or Spring Creek listed above.	
Parameter(s)	E. coli	
EPA Approval Date	August 2010	
MS4 Permittee(s)	City of Sedona, Coconino County, Yavapai County	

City of Sedona

The City of Sedona shall analytically monitor stormwater discharges from MS4 outfalls to Oak Creek. Analytical monitoring shall be submitted as per permit part 7.0. The City shall implement the WLAs listed in the Oak Creek and Spring Creek E. coli TMDL, 6.1.3.

If the WLA is exceeded the permittee shall propose to ADEQ an action plan, including a schedule for implementation, and submit it to ADEQ at AZPDES@azdeq.gov within 60 calendar days of becoming aware of the WLA exceedance. ADEQ shall provide a review and approval within 30 calendar days. The permittee shall then incorporate the action plan into their SWMP. Repeat exceedances for the same parameter of the WLA does not require submittal of another action plan.

Coconino County and Yavapai County

Coconino County and Yavapai County shall analytically monitor stormwater discharges from MS4 outfalls to Oak Creek. Analytical monitoring shall be submitted as per permit

part 7.0. Concentration-based WLAs for this TMDL are 235 cfu/100 ml (single sample maximum).

If the WLA is exceeded the permittee shall propose to ADEQ an action plan, including a schedule for implementation, and submit it to ADEQ at AZPDES@azdeq.gov within 60 calendar days of becoming aware of the WLA exceedance. ADEQ shall provide a review and approval within 30 calendar days. The permittee shall then incorporate the action plan into their SWMP. Repeat exceedances for the same parameter of the WLA does not require submittal of another action plan.

San Pedro

Name of TMDL	San Pedro River (Aravaipa Creek to Gila River)	
Document(s) for TMDL	sanpedro_ecoli_tmdl.pdf may be downloaded at https://www.azdeq.gov , search words "San Pedro Watershed"	
Location of Original 303(d) Listings	San Pedro River, Aravaipa Creek to Gila River	15050203-001
Area Where TMDL Requirements Apply	TMDL coverage includes areas served by an MS4 draining to any of the reaches of the San Pedro River	
Parameter(s)	E. coli	
EPA Approval Date	August 2013	
MS4 Permittee(s)	City of Sierra Vista, Cochise County	

City of Sierra Vista and Cochise County

The City of Nogales and Cochise County shall analytically monitor stormwater discharges from MS4 outfalls to the San Pedro River. Analytical monitoring shall be submitted as per permit part 7.0. Concentration-based WLAs for this TMDL are 235 cfu/100 ml (single sample maximum).

If the WLA is exceeded the permittee shall propose to ADEQ an action plan, including a schedule for implementation, and submit it to ADEQ at AZPDES@azdeq.gov within 60 calendar days of becoming aware of the WLA exceedance. ADEQ shall provide a review and approval within 30 calendar days. The permittee shall then incorporate the action plan into their SWMP. Repeat exceedances for the same parameter of the WLA does not require submittal of another action plan.

Santa Cruz

Name of TMDL	Upper Santa Cruz River Subwatershed Clean Water Plan for E. coli	
Document(s) for TMDL	Uscr_cwp_final_021020.pdf may be downloaded at https://www.azdeg.gov , search words "Santa Cruz Watershed"	
Location of Original 303(d) Listings	Santa Cruz River, Nogales IOW Outfall to Josephine Canyon	15050301-009
	Santa Cruz River, Josephine Canyon to the Tubac Bridge	15050301-008A
	Santa Cruz River, Tubac Bridge to Sopori Wash	15050301-008B
	Nogales Wash, US/Mexico Border to Potrero Creek	15050301-011
	Potrero Creek, Below I-19 to the Santa Cruz River	15050301-500B
Area Where TMDL Requirements Apply	TMDL coverage includes areas served by an MS4 draining to any of the reaches of Santa Cruz River, Nogales Wash and Potrero Creek as listed above.	
Parameter(s)	E. coli	
EPA Approval Date	February 2020	
MS4 Permittee(s)	City of Nogales	

City of Nogales

The City of Nogales shall analytically monitor stormwater discharges from MS4 outfalls to Nogales Wash and Potrero Creek. Analytical monitoring shall be submitted as per permit part 7.0. Concentration-based WLAs for this TMDL are 235 cfu/100 ml (single sample maximum).

If the WLA is exceeded the permittee shall propose to ADEQ an action plan, including a schedule for implementation, and submit it to ADEQ at AZPDES@azdeg.gov within 60 calendar days of becoming aware of the WLA exceedance. ADEQ shall provide a review and approval within 30 calendar days. The permittee shall then incorporate the action plan into their SWMP. Repeat exceedances for the same parameter of the WLA does not require submittal of another action plan.

Watson Lake

Name of TMDL	Watson Lake TMDL
Document(s) for TMDL	tmdl_watsonlake_final.pdf may be downloaded at https://www.azdeq.gov , search words "Verde Watershed"
Location of Original 303(d) Listings	AZL15060202-1590
Area Where TMDL Requirements Apply	TMDL coverage includes areas served by an MS4 draining to Watson Lake
Parameter(s)	Nutrients (Nitrogen, Phosphorus)
EPA Approval Date	February 2015
MS4 Permittee(s)	City of Prescott, Yavapai County

City of Prescott and Yavapai County

The City of Prescott and Yavapai County shall analytically monitor stormwater discharges from MS4 outfalls to Watson Lake. Analytical monitoring shall be submitted as per permit part 7.0. Concentration-based WLAs for this TMDL are equal to 1.0 mg/L total nitrogen and 0.10 mg/L TP.

If the WLA are exceeded the permittee shall propose to ADEQ an action plan, including a schedule for implementation, and submit it to ADEQ at AZPDES@azdeq.gov within 60 calendar days of becoming aware of the WLA exceedance. ADEQ shall provide a review and approval within 30 calendar days. The permittee shall then incorporate the action plan into their SWMP. Repeat exceedances for the same parameter of the WLA does not require submittal of another action plan.



**ARIZONA DEPARTMENT
OF
ENVIRONMENTAL QUALITY**

1110 West Washington Street Phoenix, Arizona 85007
(602) 771-2300 www.azdeq.gov



Permit Authorization Certificate

Authorization Number: AZSM91712

**Permit Name: AZPDES Small Municipal Separate Storm Sewer
Systems (MS4s) General Permit**

LTF Number: 91712

Permit Number: AZG-2021-002

Issue Date: 11/03/2021

Coverage Issued to:

Name: CITY OF GOODYEAR

MS4 Contact Information:

Name: MONICA RABB

Phone: 6238827954

Work Email: MONICA.RABB@GOODYEARAZ.GOV

AZPDES MS4 Annual Permit Fee

Please note, that pursuant to Arizona Administrative Code, Title 18, Chapter 14, Article 109(C), you will be billed an annual permit fee equal to the initial fee until such time as you submit a Notice of Termination to close out your permit coverage.

Appendix C Stormwater Management Responsibilities

City Of Goodyear SWMP Responsible Party Contact List

Water Services Department

Water Services Director- Barbara Chappell

Environmental Programs Manager- Monica Rabb (623) 693-0026

MCM #1 FOG brochure distribution, FOG web page updates, distribution of proper pool draining brochure with pool draining permits

MCM #3 field personnel to detect ID, annual FOG and Pretreatment inspections of industrial sites MCM# 5 FOG and Pretreatment ordinances

MCM# 6 attend stormwater training

Environmental Compliance Supervisor Pete Burrell (623) 680-0753

MCM #1 attend STORM group, coordinate updates to all stormwater brochures and webpages, rotation of stormwater related articles in the INFOCUS, distribute brochures and swag for all city events, and sign placement
MCM# 2 coordinate updates to the stormwater section of the "Report a Problem" web page and volunteer group storm labeling

MCM# 3 coordinate the Business Outreach Program, the IDDE Program, and GIS storm drain system mapping

MCM #4 coordinate SWPPP plan reviews and inspection, SOP's, and checklists

MCM #5 coordinate Post-construction O&M agreements and ordinances and standards updates

MCM #6 coordinate all stormwater permit activities, prepare annual report to ADEQ and audit responses, coordinate the MS4 O&M Program, Street Sweeping, Vehicle Maintenance, and Municipal Stormwater Training Program

Stormwater Operations Superintendent – Craig Lynch (623) 910-8857

MCM# 6 storm drainpipe inspections, catch basin inspections, outfall inspections, attend stormwater training

Industrial Pretreatment Division Supervisor- Joshua Pfaff (623) 882- 7563

MCM #1 Pretreatment brochure distribution, Pretreatment web page updates

MCM #3 IDDE complaint work orders, field personnel to detect ID, Pretreatment inspections

MCM# 5 Pretreatment ordinance

MCM# 6 attend stormwater training

Water Demand Advisor- Silvana Burgos (623) 882-7593

MCM #1 Distribution of proper pesticides, herbicides, and fertilizers as it relates to lawn care brochure

MCM #6 attend stormwater training

Support Services Manager Vanessa Avila (623) 882-7504

MCM #1 Water Services web page updates

MCM #6 attend stormwater training

Public Works

Public Works Director- Sumeet Mohan

Streets Division Superintendent Brian Harvel (623) 882-7629

MCM #1 'No Dumping' and 'Operating Motor Vehicles Prohibited' Signs MCM #3 ID or stormwater related complaints, field personnel to detect ID

MCM #6 MS4 O&M Program, Street Sweeping Program, attend stormwater training

Solid Waste Division Superintendent Adam Kurtz (623) 932-3010

MCM #1 Educational brochure distribution at events

MCM# 2 household hazardous waste, bulk trash, and e-waste disposal events, recycling program and Christmas tree recycling program

MCM #3 field personnel to detect ID MCM# 6 attend stormwater training

Facilities Superintendent (and staff) Martin Hussey (623) 882-7521

MCM# 6 city owned facilities yard maintenance program, e-waste program, materials handling programs for fuel sites, and attend stormwater training

Fleet Coordinator (and staff) Michael Stubbs (623) 882-7189

MCM# 6 vehicle maintenance program, oil recycling program, materials handling programs for fleet site, and attend stormwater training.

Parks and Recreation Department

Parks and Recreation Director – Vacant

Parks Superintendent (and staff) Jeremy Figueroa (623) 882-7616

MCM# 3 field personnel to detect ID

MCM #6 parks yard maintenance and channel maintenance programs, materials handling program (Park & Rec yards and pool), outfall inspections, attend stormwater training

Recreation Coordinator (and staff) Deanna Ortiz (623) 882- 7531

MCM #1 Brochures and swag distribution MCM #6 attend stormwater training

Development Services Department

Development Services Director Katie Wilken- (623) 882-7948

Civil Construction Inspection Superintendent Tom Vassallo (623) 377-3589

MCM #1 distribute stormwater construction brochures
MCM #3 ID complaints as it relates to site construction
MCM #4 SWPPP inspection, SOP's, and checklists
MCM #6 attend stormwater training

Planning Manager Christian Williams (623) 882-7960

MCM #5 Master Plan, zoning, stormwater, subdivision ordinance, open space and related ordinances
MCM #6 attend stormwater training

Acting Chief Building Official Cheryl Mullis- (623) 882-7957

Building Inspection Superintendent Tom Paradise (623) 882-7932

MCM# 1 distribute pool brochures with new pool permit
MCM# 3 field personnel to detect ID
MCM #4 FOG inspections of new commercial and industrial sites, residential building inspections
MCM #6 attend stormwater training

Code Compliance Manager (staff) Lupe Romero (623) 882-7817

MCM# 1 distribute educational brochures with violations
MCM # 3 citizen complaints, violations and actions taken, field personnel to detect ID
MCM# 5 enforcement of stormwater, open space and related ordinances
MCM #6 attend stormwater training

Information Technology Department

GIS Manager (staff) Eric Shreve (623) 882-7964

MCM #3 update City GIS storm drain system mapping, annexation maps, asset management, land use mapping system inventory
MCM #6 attend stormwater training

Digital Communications Deputy Director Corinne Holiday

MCM #1 assistance with web page updates, number of stormwater web page hits, number of stormwater documents downloaded, INFOCUS articles, INFOCUS distribution, brochure printing
MCM #6 attend stormwater training

Government Relations Division

Governmental Relations Manager– Gina Carico (623) 882- 7082

Neighborhood Services Coordinator Jeremy Dyck (623) 882-7803

MCM# 1 Brochures and swag distribution to non-profit groups (HOA's)
MCM# 2 updating the report-a-problem, Mobil app, tracking the number of stormwater issues received
MCM #3 Report-A-Problem Mobil App and work order system
MCM# 6 attend stormwater training

Volunteer Coordinator Evelyn Howell – evelyn.howell@goodyearaz.gov

MCM# 1 Brochure distribution to volunteer groups
MCM# 2 Adopt-A-Street, Adopt-A-Park, and storm drain labeling program using volunteers MCM# 3 volunteers to detect ID

Fire Department Fire Chief – Paul Luizzi (623) 882-7109

MCM# 3 field personnel to detect ID
MCM #6 materials handling program, attend stormwater training

Police Department Interim Chief of Police – Jeff Mercy (623) 882-7409

MCM# 3 field personnel to detect ID
MCM #6 attend stormwater training



ARIZONA
DEPARTMENT OF
ENVIRONMENTAL QUALITY



AZPDES SMALL MS4 ANNUAL REPORT

LTF ID #: 91712

Report #: 117657

AZPDES SMALL MS4 ANNUAL REPORT - SUMMARY

Company:

Name: CITY OF GOODYEAR

Question: Which permit/registration/certificate is this report for?

Answer: 07/01/2023 - 06/30/2024

Question: Did you assess and evaluate the Stormwater Management Program (SWMP) as part of preparing the Annual Report, per permit Section 4.0?

Answer: Yes

Question: Did you have another entity implement control measures on behalf of the MS4 per permit Section 6.0(2)? If Yes, identify the entity and give a brief explanation of their involvement.

Answer: No

Question: Did you provide outreach and education to the public on the stormwater program issues and requirements, per permit Section 6.1(1)?

Answer: Yes

Identify the target group for outreach and education:

General Public

Identify the topic(s) for the target group:

Community activities (monitoring programs, environmental protection organization activities, etc.)

Illicit discharges and illegal dumping, proper management of non-stormwater discharges, and to provide information on reporting spills, dumping, and illicit discharges

Potential impacts of animal waste on water quality and the need to clean up and properly dispose of pet waste to minimize runoff of pollutants in stormwater

Potential water quality impacts of application of pesticides, herbicides and fertilizer and control measures to minimize runoff of pollutants in stormwater

Spill prevention, proper handling and disposal of toxic and hazardous materials, and measures to contain and minimize discharges to the storm sewer system

Stormwater runoff issues and residential stormwater management

practices

Proper management and disposal of used oil

Describe how the message was conveyed to the target group:

The City of Goodyear conducted the following educational events for the general public: • Adopt a Street - 17 volunteer groups.

39.3 miles of roads cleaned. Adopt a street program is cleaned quarterly. • Adopt a Park - 13 volunteer groups
216.5 acres of parks cleaned. Adopt a park program is cleaned monthly. • Two (2) Curbside Household Hazardous Waste events • Solid Waste program distributed 580 stormwater related brochures in their welcome packets. • Coordinated with Water Resources and provided stormwater information to 12 school presentations totaling 350 students. During the presentations, education is given on recycling, water conservation, stormwater, and the water cycle. • Water Resources distributed 250 stormwater brochures in their welcome packets. • In June 2024, Communication Division published a stormwater article in the city's InFocus magazine titled, Storm drain pollutants and keeping them clean. 48-51,000 magazines were mailed to residents. • July 2023, September 2023, October 2023, and 11,2023 Communications posted Stormwater and Water Conservations messages to social media. • The City of Goodyear is an active member of Arizona's Stormwater Outreach for Regional Municipalities (STORM) which provides a platform for collaborative effort by municipal partners to perform educational outreach to their residents with the message of pollution prevention to help keep our waters clean. This site received 13,685 new webpage views by 9032 users during 10,275 sessions.

Describe measures/methods used to assess the effectiveness of the message conveyed to the target group:

The City's main goal of Public Education and Outreach is to convey valuable information and allow for opportunities to interact with as many residents as possible the importance of pollution prevention to ensure water quality. The City believes that through continued outreach events, distribution of brochures, improvements to webpage content, and availability of applications such as the Public Stuff App the City will continue to improve the communication with the general public and reach the intended audiences.

Question: Did you provide outreach and education to the public on the stormwater program issues and requirements, per permit Section 6.1(2)?

Answer: Yes

Identify the target group for outreach and education:

Construction Site Operators

Identify the topic(s) for the target group:

Illicit discharges and proper management of non-stormwater discharges

Municipal stormwater requirements and stormwater management practices for construction sites

Planning ordinances and grading and drainage design standards for stormwater management in new developments

and significant redevelopments Stormwater management practices, pollution prevention plans, and facility

maintenance procedures Water quality impacts associated with land development (including new construction

and redevelopment)

Describe how the message was conveyed to the target group:

The city continually promotes Stormwater Best Management Practices for Developers, Owners & Operators through documents posted on the Goodyears Development Services website which provides an overview of Engineering Department requirements for plan submittals and construction site compliance with stormwater pollution prevention.

Describe measures/methods used to assess the effectiveness of the message conveyed to the target group:

Az Water Stormwater Committee hosted a Stormwater Workshop on October 18th, 2023. The workshop covered ADEQ regulations, construction site BMPs, Industrial and Municipal BMPs, Post Construction Controls and Stormwater program implementation. The city's Environmental Compliance Division attended this workshop. The city's Development Services Department reviewed and is updating their Engineering Design Standard and Policy Manual.

Identify the target group for outreach and education:

Community/Homeowner Association

Identify the topic(s) for the target group:

Illicit discharges and proper management of non-stormwater discharges

Post-construction ordinances and long-term maintenance requirements for permanent stormwater controls

Proper management and disposal of used oil and other hazardous or toxic materials, including practices to minimize exposure of materials/wastes to rainfall and minimize contamination of stormwater runoff

Spill prevention, proper handling of toxic and hazardous materials, and measures to contain and minimize discharges to the storm sewer system

Stormwater management practices, pollution prevention plans, and facility maintenance

procedures Water quality impacts associated with land development (including new

construction and redevelopment)

Describe how the message was conveyed to the target group:

The City of Goodyear participates annually in community engagement events. The city's Environmental Compliance Division which entails Stormwater, provides a platform for collaborative efforts for public participation, along with other city departments to provide the message of pollution prevention

Describe measures/methods used to assess the effectiveness of the message conveyed to the target group:

During the 2023-24 reporting period The Stormwater Management Plan (SWMP) was placed on the city's webpage for citizen review and comments on September 2023. The Environmental Compliance Division manned a booth at the Holidays on the Square on December 16th, 2023, and had meaningful dialogue with residents and handed out promotional items to help educate the public on stormwater. Being part of STORM allowed the city to increase in digital media coverage. Two stormwater digital and social media campaigns were run by ABC15 in FY24. January's messaging focused on stormwater awareness and May-July's messaging was centered around monsoon season. The City's Parks Department cleaned 252 acres of neighborhood parks.

Neighborhood parks are cleaned 2-3 times a week and Community Parks 2-times per day 7 days a week which include storm drain asset inspection and cleanup. On April 20th the Environmental Compliance Division along with Water Resources attended an Earth Day event hosted by Maricopa County Library in Goodyear Arizona. On April 20th Environmental Compliance distributed STORM promotional items at Estrella Mountain Ranch Community Wag and Tag pet adoption event which included brochures on cleaning up after your pet, doggie bags, only rain in the storm drain, and how to drain pools safely. On May 16th Environmental Compliance coordinated with Water Conservation and provided a presentation which entailed conservation efforts and stormwater facility maintenance to an HOA workshop hosted by the city's Neighborhood Services.

Question: Did you post the SWMP and the current Annual Report on your website, per permit Section 6.2(1)?

Answer: Yes

Upload the SWMP.

File Name: StormwaterManagementPlan 2023.pdf

Question: Did you provide and publicize a reporting system to facilitate and track public reporting of spills, discharges and/or dumping to the MS4 on a continuous basis, per permit Section 6.2(4)?

Answer: Yes

Question: Provide a narrative description of the status of the storm sewer mapping, per permit Section 6.3(1).

Answer: 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. The City will update the map to include any new public and private stormwater components that are constructed within their system. The City will add new GIS features into the existing system when annexations are approved and after final inspection and as built information is received.

Question: Did you establish an ordinance or other regulatory mechanism for enforcement procedures of the Illicit Discharge Detection & Elimination (IDDE) Program, per permit Section 6.3(2)?

Answer: Yes

What is the citation of the ordinance or other regulatory mechanism to prohibit non-stormwater discharges into the MS4?

The City of Goodyear City Code and Ordinances 16-7 and Chapter 3 of the Engineering Design

Standard & Policy Manual.

Question: Did you establish or update the Statement of IDDE Program Responsibilities, per permit Section 6.3(3)?

Answer: Yes

Provide IDDE activities in a tabular format, per permit Section 6.3(4). File Name: MS4_IDDE_Reporting_Template (3).xlsx

Question: Did you visually monitor at least 20% of all outfalls during the permit year, per permit Section 6.3(7)?

Answer: Yes

Question: Did you identify indicators of IDDE Program progress or success, per permit Section 6.3(8)?

Answer: Yes

Question: Did you provide annual staff training, per permit Section 6.3(9)?

Answer: Yes

How many staff attended?: 222

What was the topic?: Environmental/Stormwater training

Question: Did you establish an ordinance or other regulatory mechanism for enforcement procedures of the Construction Activity Stormwater Runoff Control Program, per permit Section 6.4(2)(a)?

Answer: Yes

What is the citation of the ordinance or other regulatory mechanism to prohibit non- stormwater discharges into the MS4?

The City of Goodyear City Code and Ordinances - 16-7 Engineering Design Standards and Policies Manual - Chapter 3

Question: Did you implement a construction site inventory, per permit Section 6.4(2)(b)?

Answer: Yes

Question: Did you develop written procedures for site plan review, per permit Section 6.4(2)(c)?

Answer: Yes

Question: Did you implement written procedures for site inspections and enforcement control measures, per permit Section 6.4(2)(f)?

Answer: Yes

How many construction site inspections were done?: 341

How many follow-up actions were necessary (re-inspection, enforcement actions)?: 8

Question: Did you develop and implement an educational program focused on erosion and sediment control for construction operators, per permit Section 6.4(2)(h)?

Answer: Yes

Question: Did you develop and implement a program requiring construction operators to control wastes from their sites, per permit Section 6.4(2)(i)?

Answer: Yes

Question: Did you implement procedures to receive and act on information submitted by the public (complaints), per permit Section 6.4(4)?

Answer: Yes

Question: Did you implement a program that includes a combination of structural **and non-structural BMPs, per permit Section 6.5(1)?**

Answer: Yes

Question: Did you establish an ordinance or other regulatory mechanism for enforcement procedures of the Post-Construction Stormwater Management, per permit Section 6.5(2)?

Answer: Yes

What is the citation for the ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects?

The City of Goodyear City Code and Ordinances - 16-7 Engineering Design Standards and Policies Manual - Chapter 3

Question: Did you implement a program to prevent or minimize impacts to water quality from stormwater runoff of new development and redevelopment sites, per permit Section 6.5(2)?

Answer: Yes

Question: Did you implement procedures for site plan review, per permit Section 6.5(3)?

Answer: Yes

Question: Did you implement an inventory of post construction site structural stormwater control measures installed within the MS4, per permit Section 6.5(4)?

Answer: Yes

Question: Did you implement a program to ensure the long-term operation and maintenance of post construction BMPs, per permit Section 6.5(5)?

Answer: Yes

Question: Did you implement a program to reduce or eliminate discharges of pollutants from municipal streets, facilities, yards, etc., per permit Section 6.6(1)?

Answer: Yes

Question: Did you implement a program to ensure the long-term operation and maintenance of stormwater BMPs, per permit Section 6.6(2)?

Answer: Yes

Question: Did you develop an inventory of facilities, prioritized based on their risk of discharging non-stormwater, per permit Section 6.6(2)(a)?

Answer: Yes

Question: Did you implement an inspection schedule for prioritized facilities, per permit Section 6.6(2)(c)?

Answer: Yes

Question: Did you implement an annual training program for staff that incorporates pollution prevention and good housekeeping techniques, per permit Section 6.6(2)(f)?

Answer: Yes

How many staff attended?: 222

What was the topic?: Stormwater Best Management Practices/ Environmental

Compliance.

Question: Did you develop maintenance activities, schedules and long-term inspections to reduce floatables, trash and other pollutants from the MS4, per **permit Section 6.6(2)(g)?**

Answer: Yes

Question: Does the MS4 discharge to a not-attaining water, impaired water, or an Outstanding Arizona Water (OAW)?

Answer: No

CERTIFICATION OF SUBMISSION

MONICA RABB

You validated your identity by answering your personal security question and password on myDEQ at **08:48 AM** on **09/04/2024**. At this time, you certified the summary information above by checking that you agreed to the following statement:

Pursuant to A.R.S. § 41-1030:

An agency shall not base a licensing decision in whole or in part on a licensing requirement or condition that is not specifically authorized by statute, rule or state tribal gaming compact. A general grant of authority in statute does not constitute a basis for imposing a licensing requirement or condition unless a rule is made pursuant to that general grant of authority that specifically authorizes the requirement or condition. This section may be enforced in a private civil action and relief may be awarded against the state. The court may award reasonable attorney fees, damages and all fees associated with the license application to a party that prevails in an action against the state for a violation of this section. A state employee may not intentionally or knowingly violate this section. A violation of this section is cause for disciplinary action or dismissal pursuant to the agency's adopted personnel policy. This section does not abrogate the immunity provided by section 12-820.01 or 12-820.02.

Certify your submission:

By checking this box I certify under penalty of law that this submittal was prepared by me, or under my

direction or supervision of personnel appropriately qualified to properly gather and evaluate the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I understand that all information submitted to ADEQ is public record unless otherwise identified by law as confidential. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Appendix E Annual Report Checklist

City of Goodyear - Annual Report Checklist Permit NO. AZG2021-002

- ☐ 4.4 The permittee must include a narrative description of the status of storm sewer system mapping, outfall mapping, and waters of the U.S. that receive discharges from the outfalls (including percent complete) in each annual report (see Part 8.3).
- ☐ 5.0 STORMWATER MANAGEMENT PROGRAM - At a minimum, all permittees must annually assess, evaluate, and update the BMPs and SWMP and incorporate any revisions necessary to maintain permit compliance. The annual SWMP review must occur in connection with preparing the annual report (see Parts 8.1 and 8.3).
- ☐ 6.4 Minimum Control Measures - The other entity agrees to implement the control measure on the permittee's behalf. The annual report must specify that the permittee is relying on another entity to satisfy some of its permit obligations and specify what those obligations are;
- ☐ 6.4.1 Public Education and Outreach - 6.4.1.4 - The permittee shall document in each annual report: the messages for each audience; the method of distribution; the measures/methods used to assess the effectiveness of the messages, and the method/measures used to assess the overall effectiveness of the education program.
- ☐ 6.4.2 Public Involvement and Participation - 6.4.2.1 All public involvement activities shall comply with state and local public notice requirements. The SWMP and all annual reports shall be available to the public. The permittee is encouraged to satisfy this requirement by posting records online.
- ☐ 6.4.3.5 Eliminating Illicit Discharges - Where elimination of an illicit discharge is not immediately possible, the permittee shall establish an expeditious schedule for its elimination and report the dates of identification and schedules for removal in the permittee's annual reports.
- ☐ 6.4.3.5 Eliminating Illicit Discharges - To the extent known, the permittee shall include in the annual report the following information: the location of the illicit discharge and its source(s); a description of the discharge; estimated illicit discharge duration; the method of discovery; date of discovery; date of elimination; mitigation or enforcement action; responsible person (if known); and estimated volume.
- ☐ 6.4.3.8 Visual Monitoring - For each confirmed illicit discharge, the permittee shall include in the annual report the following information: the location of the discharge and its source(s); a description of the discharge; estimated illicit discharge duration; the method of discovery; date of discovery; date of elimination; mitigation or enforcement action; responsible person (if known); and estimated volume.
- ☐ 6.4.3.8 Visual Monitoring - a) Visual Dry Weather Outfall Monitoring - Within six (6) months of obtaining authorization to discharge, the permittee shall develop and implement a visual, dry weather outfall monitoring program. Dry weather monitoring must be conducted at least 72 hours after a storm event that resulted in a discharge from the storm sewer system. The permittee shall document and include findings of dry weather monitoring in the annual report.
- ☐ 6.4.3.8 Visual Monitoring - b) Visual Stormwater Discharge Monitoring - The stormwater discharge monitoring program must be conducted in response to a storm event that results in a

discharge from the storm sewer system and, to the extent practicable, should include the first flush. The permittee shall conduct a minimum of two (2) stormwater discharge monitoring events during each wet season of the representative outfall(s) and shall document and include findings in the annual report. Summer Wet Season: June 1 through October 31 Winter Wet Season: November 1 through May 31.

- ☐ 6.4.3.9 Indicators of IDDE Program Progress - The permittee shall define or describe indicators for tracking program success. At a minimum, indicators shall include measures that demonstrate efforts to locate illicit discharges identified and removed. Such measures may include response time to inspection, public awareness, time from discovery to elimination, and other appropriate factors. The permittee shall evaluate and report the overall effectiveness of the program based on the tracking measures outlined in Part 6.4.3.8 in the annual program evaluation and in the annual report.
- ☐ 6.4.3.10 Staff Training - The permittee shall, at a minimum, provide annual training to employees involved in the IDDE program (e.g., street workers, inspectors, solid waste personnel, etc.). The training must include the IDDE

program components and how to recognize illicit discharges. The permittee shall report on the frequency and type of employee training in the annual report.

□ 6.4.3.11 Unpermitted (Illicit) Discharges to the MS4 - The permittee shall include the number of facilities contacted each year in the annual report and shall include the facility name, type of activity conducted at the facility (including SIC code, to the extent known), and whether or not the facility has AZPDES permit coverage, if known or available.

□ 6.4.4.5 Tracking and Recordkeeping - The permittee must track the number of inspections and re-inspections of construction activities to verify the sites are inspected at the frequency established under Part 6.4.4.2 (d) and (e) and include this information in the annual report.

□ 7.0 ANALYTICAL MONITORING

7.1 General Monitoring Requirements

b. The permittee shall identify in the SWMP and annual reports discharges that: 1. Discharge to impaired waters listed on the Arizona's 303(d) list (Category 5) and those listed as not attaining (Category 4) on Arizona's Water Quality Assessment report; 2. Discharges to OAWs listed in A.A.C. R18-11-112; and 3. Additional monitoring required by ADEQ.

8.3 Discharge Monitoring Report

The permittee must submit all monitoring results (analytical and visual monitoring results) on a discharge monitoring report (DMR) in a manner prescribed by ADEQ (electronic, paper format, etc.). In the event electronic reporting becomes available, permittees must submit analytical and visual monitoring results using an online program or portal application prescribed by ADEQ (or U.S. EPA). DMRs must be submitted no later than September 30 of each year and shall include analytical and visual monitoring results for the period July 1 through June 30 of the preceding calendar year.

□ 7.4 Tracking - Permittees with outfalls that discharge to impaired, not-attaining, or OAWs shall develop a system to track the information required in the permit and the information required to be reported in the annual report (see Part 8.3). The tracking system shall be developed and implemented within twelve (12) months of the effective date of this permit.

□ 8.0 PROGRAM ASSESSMENT, RECORDKEEPING, AND REPORTING

8.1 Program Evaluation

8.1.1 - The permittee shall annually self-evaluate its compliance with the terms and conditions of this permit. The permittee shall maintain the annual evaluation documentation as part of the SWMP. The permittee shall include this information in the annual report.

□ 8.1.2 - The permittee shall evaluate the appropriateness of the selected BMPs in achieving the objectives of each control measure and the defined measurable goals. The permittee may change BMPs in accordance with the following provisions: a. Adding (but not subtracting or replacing) components or controls may be made at any time; b. Changes replacing an ineffective or infeasible BMP specifically identified in the SWMP with an alternative BMP may be made if the proposed changes meet the criteria of this Part. The permittee shall include this information in the annual report.

□ 8.1.3 BMP modification documentation shall include the following information and all documentation shall be kept in the SWMP:

- a. An analysis of why the BMP is ineffective or infeasible;
 - b. Expectations on the effectiveness of the replacement BMP; and
 - c. An analysis of why the replacement BMP is expected to achieve the defined goals of the BMP to be replaced.
- The permittee shall indicate BMP modifications along with a brief explanation of the modification in the annual report.

□ 8.4 Annual Report

The permittee shall submit an annual report each year of the permit term to ADEQ. The reporting period is from July 1 through June 30 each year. The annual report is due to ADEQ on or before September 30 each year for the reporting

period. The annual reports shall contain the following information:

- a. The status of compliance with the permit terms and conditions;
- b. Updates regarding mapping requirements (see Part 4.1), including percent complete;
- c. An evaluation of the appropriateness and efficacy of the selected BMPs;
- d. An assessment of the progress towards achieving the measurable goals and objectives of each control measure in Part 6.4 including description of the targeted messages for each audience; method of distribution and dates of distribution; methods used to evaluate the program; and any changes to the program;
- e. Description of the activities used to promote public participation;
- f. Description of the activities related to implementation of the IDDE program including: status and results of the illicit discharge potential protocols described in Parts 6.4.3.4 (program responsibilities and systematic procedure); number and identifier of assets inspected or evaluated; number and identifier of outfalls screened; number of illicit discharges located; number of illicit discharges removed; and employee training;
- g. All outfall screening and monitoring data collected by or on behalf of the permittee during the reporting period and cumulative for the permit term, including but not limited to all data collected pursuant to Parts 6.4.3 and 7.0;
- h. The status of any plans or activities required by Part 6.4.3 and/or Part 7.1 (impaired and notattaining waters), including: 1. Identification of all discharges determined to be causing or

contributing to an exceedance of water quality standards and description of response; 2. For discharges subject to TMDLs, identification of specific BMPs used to address the pollutant identified as the cause of the impairment and assessment of the BMPs effectiveness at controlling the pollutant;

- i. Status of the construction runoff management including number of project plans reviewed, number of inspections, and number of enforcement actions;
- j. Status of stormwater management for new development and redevelopment including status of ordinance development and review;
- k. Status of the operation and maintenance programs required by Part 6.4.6.1;
- l. Description of any changes in identified BMPs or measurable goals;
- m. Any additional reporting requirements specified in Parts 1-7; and
- n. Description of activities to be conducted during the next reporting cycle.

Reports must be submitted to ADEQ at the following address:

Arizona Department of Environmental Quality 1110 West Washington Street, Mail Code 5451A-1 Phoenix, Arizona 85007

In the event electronic reporting becomes available, permittees must submit their annual reports using an online program or portal application prescribed by ADEQ (or U.S. EPA).

☐ MCM 1-1 Educational Materials

The quantity of education materials distributed will be measured and tracked. The results will be reported annually.

☐ MCM 1-2 Educational Events

The name and quantity of events that the City attended will be reported annually as well as the distribution of any type of promotional or educational materials.

☐ MCM 1-3 Stormwater Webpages and Other Electronic Resources

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

☐ MCM 1-4 Regional Cooperation

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.

□ MCM 2-1 Participation Opportunities

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. The

participation results will be reported annually and the program will be evaluated on participation effectiveness.

Updates will be made as necessary.

□ MCM 2-2 Regional Coordination

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.

□ MCM 2-3 Annual SWMP Review

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

□ MCM 3-1 Stormwater System Mapping

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

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

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

□ MCM 3-3 Illicit Discharge Response Program

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.

□ MCM 3-4 Inspection Program/ Dry Weather Screening

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.

□ MCM 3-5 Educational Materials for IDDE Program

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

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

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

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.

□ MCM 4-2 Inspection Procedure Review

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

□ MCM 4-3 Educational Materials for Construction Activity Stormwater Runoff Control

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.

□ MCM 4-4 Construction Activity Stormwater Runoff Control Training

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

□ MCM 5-1 Post-Construction Management Training

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

□ MCM 5-2 Post-Construction Stormwater Control Inventory

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

□ MCM 5-3 Educational Materials for Post-Construction Management in New Development and Redevelopment

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.

☐ MCM 5-4 Maintenance Agreements

The City reports the number of stormwater maintenance agreements, and number of incidents reported and addressed.

☐ MCM 5-5 Regulatory Review

The City will report any changes of the ordinances and standards in the annual report.

☐ MCM 6-1 O&M Procedures – Fleet Maintenance Building (FACILITY SPECIFIC)

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

☐ MCM 6-2 Good Housekeeping Practices

Amount of street miles swept and frequency of street cleaning will be reported annually.

☐ MCM 6-3 City Vehicle Maintenance Program

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 is also reported.

☐ MCM 6-4 Pollution Prevention and Good Housekeeping Training

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

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.

Appendix F Stormwater Sampling and Analysis Plan

City of Goodyear Stormwater Sampling and Analysis Plan *(revised August 2022)*

Public Works

Environmental Programs

Stormwater Sampling

The purpose of this sampling and analysis plan is to describe the City of Goodyear wet weather monitoring program for the 2021 through 2026 permit term.

Field Sampling Methods

All MS4s are required to perform Stormwater Characterization Monitoring as set forth in section 7.0 of the MS4 permit. Staff will use grab sample collection techniques to conduct monitoring activities at each site.

Manual Sample Collection

The samples will be collected by field personnel during a qualifying storm event. Rainfall events will be monitored so that field personnel can determine when to be present during active events to obtain manual samples. Samples will be collected in clean, labeled bottles provided by the laboratory.

Qualifying Storm Event

A qualifying storm event is rainfall in the amount of 0.1 inches or more and a resulting discharge, within the first 24-hours of the event. Staff will create a standard operating procedure (SOP) for stormwater sampling procedures to include the “first flush” (first 30 minutes of storm event discharge) of a qualifying storm event, to the maximum extent practicable.

Storm Event Records

The city will record qualifying storm events (0.1 inches or more and resulting in a discharge) occurring at each outfall. The permittee shall include the storm event data in the DMR, including the following information:

- Date of the qualifying storm event;
- Amount of rainfall (in inches) in the drainage area for each stormwater monitoring location identified in 7.2(4); and
- Indication of whether or not a stormwater sample was collected, and if not, indicate applicable NODI (No Discharge) code in myDEQ with explanation of conditions that prevented sampling.

Protected surface waters

Goodyear has incorporated Arizona protected surface waters into its MS4 program.

Monitoring Locations

Outfall ID	Receiving Waterbody	Longitude/ Latitude	Address/Location
SD124-59	Gila	33.356827 -112.445014	18321 W Sweet Acacia Dr
SD86-187	Gila	33.408395 -112.398316	MC85/Estrella

SD47-209	Gila	33.467218 -112.387109	1805 N. Pebblecreek Pkwy
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Monitoring Frequency and Deadlines

The city will conduct analytical monitoring a minimum of one (1) time per wet season throughout the duration of permit coverage. Analytical monitoring is only required when stormwater discharges from an outfall in sufficient quantity to allow for sample collection and analysis.

Summer wet season: June 1 – October 31

Winter wet season: November 1 – May 31

All samples collected for analytical monitoring shall be analyzed by Legend laboratory which is licensed by the Arizona Department of Health Service (ADHS) Office of Laboratory Licensure and Certification.

The city will submit the results on the electronic Discharge Monitoring Report (DMR) in myDEQ.

The DMR shall be submitted within 30 days after receiving laboratory results. In the event no samples are collected during a wet season, the DMR indicating “no data” using the appropriate No Discharge Information (NODI) code(s) shall be submitted no later than:

- June 30 (for winter sampling)
- November 30 (for summer sampling)

Stormwater Characterization Monitoring Requirements

Parameter	Units	Monitoring Frequency	Monitoring Type
Metals			
Antimony		1x during first 24 months of permit term	Discrete
Barium		1x during first 24 months of permit term	Discrete
Beryllium		1x during first 24 months of permit term	Discrete
Cadmium		1x during first 24 months of permit term	Discrete
Nickel		1x during first 24 months of permit term	Discrete
Mercury		1x during first 24 months of permit term	Discrete

Silver		1x during first 24 months of permit term	Discrete
Thallium		1x during first 24 months of permit term	Discrete
Inorganics			
Cyanide		1x during first 24 months of permit term	Discrete
Volatile Organic Compounds (VOCs)			
Acrolein		1x during first 24 months of permit term	Discrete
Acrylonitrile		1x during first 24 months of permit term	Discrete

Benzene		1x during first 24 months of permit term	Discrete
Carbon tetrachloride		1x during first 24 months of permit term	Discrete
Chlorobenzene		1x during first 24 months of permit term	Discrete
Dibromochloromethane		1x during first 24 months of permit term	Discrete
Chloroethane		1x during first 24 months of permit term	Discrete
2-chloroethylvinyl ether		1x during first 24 months of permit term	Discrete
Parameter	Units	Monitoring Frequency	Monitoring Type
Chloroform		1x during first 24 months of permit term	Discrete
Bromodichloromethane		1x during first 24 months of permit term	Discrete
1,2-dichlorobenzene		1x during first 24 months of permit term	Discrete
1,3-dichlorobenzene		1x during first 24 months of permit term	Discrete
1,4-dichlorobenzene		1x during first 24 months of permit term	Discrete
1,1-dichloroethane		1x during first 24 months of permit term	Discrete
1,2-dichloroethane		1x during first 24 months of permit term	Discrete
1,3-dichloropropylene		1x during first 24 months of permit term	Discrete
Ethylbenzene		1x during first 24 months of permit term	Discrete
Bromomethane		1x during first 24 months of permit term	Discrete
Chloromethane		1x during first 24 months of permit term	Discrete
Methylene chloride		1x during first 24 months of permit term	Discrete
1,1,2,2-tetrachloroethane		1x during first 24 months of permit term	Discrete
Tetrachloroethylene		1x during first 24 months of permit term	Discrete
Toluene		1x during first 24 months of permit term	Discrete
1,2-transdichloroethylene		1x during first 24 months of permit term	Discrete
1,1,1-trichloroethane		1x during first 24 months of permit term	Discrete
1,1,2-trichloroethane		1x during first 24 months of permit term	Discrete
Trichloroethylene		1x during first 24 months of permit term	Discrete
Vinyl chloride		1x during first 24 months of permit term	Discrete
Xylene		1x during first 24 months of permit term	Discrete
Semi-VOCs - Acid Extractable			
2-chlorophenol		1x during first 24 months of permit term	Discrete
2,4-dichlorophenol		1x during first 24 months of permit term	Discrete
2,4-dimethylphenol		1x during first 24 months of permit term	Discrete
4,6-dinitro-o-cresol		1x during first 24 months of permit term	Discrete
2,4-dinitrophenol		1x during first 24 months of permit term	Discrete
2-nitrophenol		1x during first 24 months of permit term	Discrete

4-nitrophenol		1x during first 24 months of permit term	Discrete
p-chloro-m-cresol		1x during first 24 months of permit term	Discrete
Pentachlorophenol		1x during first 24 months of permit term	Discrete
Phenol		1x during first 24 months of permit term	Discrete
2,4,6-trichlorophenol		1x during first 24 months of permit term	Discrete
Semi-VOCs – Base/Neutrals			
Acenaphthene		1x during first 24 months of permit term	Discrete
Acenaphthylene		1x during first 24 months of permit term	Discrete
Anthracene		1x during first 24 months of permit term	Discrete

Benz(a)anthracene		1x during first 24 months of permit term	Discrete
Benzo(a)pyrene		1x during first 24 months of permit term	Discrete
Benzo(b)fluoranthene		1x during first 24 months of permit term	Discrete
Benzo(g,h,i)perylene		1x during first 24 months of permit term	Discrete
Benzo(k)fluoranthene		1x during first 24 months of permit term	Discrete
Chrysene		1x during first 24 months of permit term	Discrete
Parameter	Units	Monitoring Frequency	Monitoring Type
Dibenzo(a,h)anthracene		1x during first 24 months of permit term	Discrete
3,3'-dichlorobenzidine		1x during first 24 months of permit term	Discrete
Diethyl phthalate		1x during first 24 months of permit term	Discrete
Dimethyl phthalate		1x during first 24 months of permit term	Discrete
Di-n-butyl phthalate		1x during first 24 months of permit term	Discrete
2,4-dinitrotoluene		1x during first 24 months of permit term	Discrete
2,6-dinitrotoluene		1x during first 24 months of permit term	Discrete
Di-n-octyl phthalate		1x during first 24 months of permit term	Discrete
1,2-diphenylhydrazine (as azobenzene)		1x during first 24 months of permit term	Discrete
Fluoranthene		1x during first 24 months of permit term	Discrete
Fluorene		1x during first 24 months of permit term	Discrete
Hexachlorobenzene		1x during first 24 months of permit term	Discrete
Hexachlorobutadiene		1x during first 24 months of permit term	Discrete
Hexachlorocyclopentadi Ene		1x during first 24 months of permit term	Discrete
Hexachloroethane		1x during first 24 months of permit term	Discrete
Indeno(1,2,3-cd)pyrene		1x during first 24 months of permit term	Discrete
Isophorone		1x during first 24 months of permit term	Discrete
Naphthalene		1x during first 24 months of permit term	Discrete
Nitrobenzene		1x during first 24 months of permit term	Discrete
N-nitrosodimethylamine		1x during first 24 months of permit term	Discrete
N-nitrosodi- npropylamine		1x during first 24 months of permit term	Discrete
N-nitrosodiphenylamine		1x during first 24 months of permit term	Discrete
Phenanthrene		1x during first 24 months of permit term	Discrete
Pyrene		1x during first 24 months of permit term	Discrete

1,2,4-trichlorobenzene		1x during first 24 months of permit term	Discrete
PCB / Pesticides			
Aldrin		1x during first 24 months of permit term	Discrete
Alpha-BHC		1x during first 24 months of permit term	Discrete
Beta-BHC		1x during first 24 months of permit term	Discrete
Gamma-BHC		1x during first 24 months of permit term	Discrete
Delta-BHC		1x during first 24 months of permit term	Discrete
Chlordane		1x during first 24 months of permit term	Discrete
4,4'-DDT		1x during first 24 months of permit term	Discrete
4,4'-DDE		1x during first 24 months of permit term	Discrete

4,4'-DDD		1x during first 24 months of permit term	Discrete
Dieldrin		1x during first 24 months of permit term	Discrete
Alpha-endosulfan		1x during first 24 months of permit term	Discrete
Beta-endosulfan		1x during first 24 months of permit term	Discrete
Endosulfan sulfate		1x during first 24 months of permit term	Discrete
Endrin		1x during first 24 months of permit term	Discrete
Parameter	Units	Monitoring Frequency	Monitoring Type
Endrin aldehyde		1x during first 24 months of permit term	Discrete
Heptachlor		1x during first 24 months of permit term	Discrete
Heptachlor epoxide		1x during first 24 months of permit term	Discrete
PCB-1242		1x during first 24 months of permit term	Discrete
PCB-1254		1x during first 24 months of permit term	Discrete
PCB-1232		1x during first 24 months of permit term	Discrete
PCB-1248		1x during first 24 months of permit term	Discrete
PCB-1260		1x during first 24 months of permit term	Discrete
PCB-1016		1x during first 24 months of permit term	Discrete
Toxaphene		1x during first 24 months of permit term	Discrete

Appendix G BMP Summary Table

						
BMP SUMMARY TABLE						
BMP	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	Department Responsible
	JUL'17-JUN'18	JUL'18-JUN'19	JUL'19-JUN'20	JUL'20-JUN'21	JUL'21-JUN'22	
Public Education and Outreach						
Educational Materials						
Publish articles in the City's newsletters (INFOCUS), in The Works eNewsletter, and in some HOA's Newsletters, Magazines, and eBlasts. Date: _____	☐	☐	☐	☐	☐	Engineering Dept., Public Works Dept., Parks and Recreation, Development Services, Communications, and Government Relations
Report the number and type of articles produced, and the number of publicized issues distributed. Date: _____	☐	☐	☐	☐	☐	Engineering Dept., Public Works Dept., Parks and Recreation, Development Services, Communications, and Government Relations
Distribute and monitor brochures and flyers taken at events Date: _____	☐	☐	☐	☐	☐	Engineering Dept., Public Works Dept., Parks and Recreation, Development Services, Communications, and Government Relations
Distribute and monitor stormwater educational items taken at events Date: _____	☐	☐	☐	☐	☐	Engineering Dept., Public Works Dept., Parks and Recreation, Development Services, Communications, and Government Relations

Review brochures/flyers and make changes as necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept., Public Works Dept., Parks and Recreation, Development Services, Communications, and Government Relations
Educational Events						
Participate in educational or community events/festivals and evaluate event participation. Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Document event and number of items distributed Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Stormwater Webpages and other Electronic Resources						
Monitor site visits Date: _____	☐	☐	☐	☐	☐	Engineering Dept., Communications, and Public Works Dept.
Update and maintain webpage to include the stormwater management plan Date: _____	☐	☐	☐	☐	☐	Engineering Dept., Communications, and Public Works Dept.
Update Report A Problem Mobile app information as necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept., Communications, and Public Works Dept.
Update stormwater content and links to contact information as necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept., Communications, and Public Works Dept.

Regional Cooperation						
<i>Continue STORM Membership</i> Date: _____	☐	☐	☐	☐	☐	Public Works Dept.
<i>Document STORM educational activities/events</i> Date: _____	☐	☐	☐	☐	☐	Public Works Dept.
<i>Report participation in any other professional organization related to stormwater</i> Date: _____	☐	☐	☐	☐	☐	Public Works Dept.
<i>Track the number of Goodyear staff participating in each outreach meeting</i> Date: _____	☐	☐	☐	☐	☐	Public Works Dept.
<i>Report the number of staff members serving on an executive board, committee, or subcommittee</i> Date: _____	☐	☐	☐	☐	☐	Public Works Dept.
Public Involvement and Participation						
Participation Opportunities						
<i>Promote participation opportunities via webpages, apps, city events/festivals, and other social media to increase exposure of the stormwater program</i> Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.

<i>Report number of events offering waste collection</i> Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
<i>Track the number of attendees and follow up on complaints received</i> Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
<i>Report amount of waste collected, miles of streets, and acres of parks cleaned</i> Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
<i>Evaluate participation results on participation effectiveness</i> Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Regional Coordination						
<i>Report the type and number of promotional items obtained from the STORM organization</i> Date: _____	☐	☐	☐	☐	☐	Public Works Dept.
<i>Document the description of the event where items were distributed, the total number of attendees, and how many promotional materials were distributed to the general public</i> Date: _____	☐	☐	☐	☐	☐	Public Works Dept.
Annual SWMP Review						
<i>Publish the SWMP on the stormwater website</i> Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
<i>Create a 30-day online comment/opinion section for the public to comment on the SWMP</i> Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.

Report the dates for public comment and number of comments received the SWMP Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Illicit Discharge Detection and Elimination (IDDE) Program						
Stormwater System Mapping						
Update GIS system with any new structure components or annexed areas Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Report number and type of GIS structures added to the system Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Enforcement Response Plan Review/ Legal Authority Review						
Review the municipal code and make updates as necessary Date: _____	☐	☐	☐	☐	☐	Development Services and Engineering Dept.
Review the inspection procedures and make updates as necessary Date: _____	☐	☐	☐	☐	☐	Development Services and Engineering Dept.
Review the regulations and enforcement actions and make updates as necessary Date: _____	☐	☐	☐	☐	☐	Development Services and Engineering Dept.
Report the number of reviews and the documents reviewed Date: _____	☐	☐	☐	☐	☐	Development Services and Engineering Dept.
Illicit Discharge Response Program						
Track the number of illicit discharges and the type of violations detected Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.

Report the type of educational material, the location of the distribution, and the number of items distributed annually Date: _____	☐	☐	☐	☐	☐	Engineering Dept.
Construction Activity Stormwater Runoff Control Training						
Review training materials for the Construction Activity Stormwater Runoff Control Program and update them if necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept.
Have on-site training available when conducting individual site inspections Date: _____	☐	☐	☐	☐	☐	Engineering Dept.
Incorporate the Construction Activity Stormwater Runoff Control Training into the annual stormwater training for City staff Date: _____	☐	☐	☐	☐	☐	Engineering Dept.
Report the number of training events and City staff attendance Date: _____	☐	☐	☐	☐	☐	Engineering Dept.
Post-Construction Stormwater Management in New Development and Redevelopment						
Post-Construction Management Training						
Acquire training materials on post- construction management in new development and redevelopment for the City staff Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.

Review training materials for the post-construction management in new development and redevelopment and update them if necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Report the number of training events and City staff attendance Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Post-Construction Stormwater Control Inventory						
Incorporate and label post-construction features in the GIS database within 90 days after receiving as-builts Date: _____	☐	☐	☐	☐	☐	Engineering Dept.
Report the number of post-construction features added to the GIS database Date: _____	☐	☐	☐	☐	☐	Engineering Dept.
Educational Materials for Post-Construction Management in New Development and Redevelopment						
Review the post-construction management in new development and redevelopment training materials and/or brochures and update them as necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Post training materials and/or brochures for the post-construction management in new development and redevelopment on the City website Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.

Have post-construction management in new development and redevelopment training materials and/or brochures available at the permit counter Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Report type of educational material, the location of the distribution and the number of items distributed annually Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Maintenance Agreements						
Create maintenance agreements with property owners responsible for maintaining BMPs Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Report the number of stormwater maintenance agreements and number of incidents reported/ addressed Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Regulatory Review						
Review ordinances and standards for compliance with the new permit and modify them as necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept., Public Works Dept., and Development Services
Report any changes of the ordinances and standards annually Date: _____	☐	☐	☐	☐	☐	Engineering Dept., Public Works Dept., and Development Services

Pollution Prevention and Good Housekeeping

O&M Procedures - Fleet Maintenance Building (FACILITY SPECIFIC)

Review standard operating procedures and update them as necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Report the number of updates and descriptions annually Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.

Good Housekeeping Practices

Review and follow good housekeeping practices in daily operations Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Continue and review street sweeping operations as necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Continue and review storm drain system operations as necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Continue and review waste management operations as necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Report any modifications to operations in the annual report Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Report amount of street miles swept and frequency of street cleaning annually Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.

City Vehicle Maintenance Program						
Perform preventative maintenance, repairs, and safety inspections for all City vehicles and equipment on a set usage rate Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Report the dates of vehicle and equipment inspections, issues discovered, and actions taken Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Report and keep track of the tons of used oil recycled Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Pollution Prevention and Good Housekeeping Training						
Train the City staff on Pollution Prevention and Good Housekeeping procedures during the annual stormwater training Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Track participation and evaluate for effectiveness, modifications will be made as necessary Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Report the number of training events and the number of City staff per Department trained annually Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Storm Drain Maintenance Program						
Report the number of city owned & maintained storm drain pipes and catch basins Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.
Report the number of inspections conducted Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.

Report the number of storm drain pipes and catch basins cleaned Date: _____	☐	☐	☐	☐	☐	Engineering Dept. and Public Works Dept.

NUMBER	(project name)	NOT REQ'	D	NOT DONE	SATISFIED	BMP Plan for Small Sites 1 of 1	
						REVIEW #	
						BY	
	ITEMS					Location in Standards	
If any apply, a SWPPP is required & use Large Site checklist:							
	Area of disturbance is 1 acre or greater	☐	☐	☐			
	Any part of site is within ¼ mile of Impaired or Unique Waters	☐	☐	☐			
	Site is located in a Common Plan of Development or Sale	☐	☐	☐			
If no SWPPP is required, then the following information shall be provided on a separate plan sheet labeled as BMP Exhibit:							
1	Goodyear BMP Plan Notes for Small Sites in addition to other notes required (general, water, sewer, etc)	☐	☐	☐			
2	Total site area & area of disturbance (in acres)	☐	☐	☐			
3	Responsible party for implementing and maintaining BMPs indicated?	☐	☐	☐			
4	If project is adjacent to other construction, indicate coordination of stormwater pollution controls.	☐	☐	☐			
5	All points of stormwater outfall shown w/ volume in cfs	☐	☐	☐			
6	Storm drain system shown, including hydrologic structures/features with BMPs	☐	☐	☐			
7	BMPs per FCDMC Drainage Design Manual Vol. III with detail drawings on plans	☐	☐	☐			
8	Quantities of each BMP and legend	☐	☐	☐			
9	Perimeter control (Justify Silt Fence w/ EOS fabric specification per site soil conditions)	☐	☐	☐			
10	Velocity dissipation device in channels to provide non-erosive flow (ft/s max per table 6.1 Drainage Design manual Vol. II)	☐	☐	☐			
11	Construction entrance shown w/Trackout devices	☐	☐	☐			
12	Concrete Washout areas identified	☐	☐	☐			
13	Sensitive areas (404 wash, non-access open space, etc) identified and protected w/ physical barrier to prevent disturbance	☐	☐	☐			
14	Distance to and nearest receiving water identified	☐	☐	☐			

Appendix I

NUMBER	(project name)	NOT REQ'	D	NOT DONE	SATISFIED	BMP Plan for Small Sites 1 of 1	
						REVIEW #	
						BY	
	ITEMS					Location in Standards	
If any apply, a SWPPP is required & use Large Site checklist:							
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8	Quantities of each BMP and legend	☐	☐	☐			
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11	Construction entrance shown w/Trackout devices	☐	☐	☐			
12	Concrete Washout areas identified	☐	☐	☐			
13	Sensitive areas (404 wash, non-access open space, etc) identified and protected w/ physical barrier to prevent disturbance	☐	☐	☐			

14	Distance to and nearest receiving water identified	☐	☐	☐	
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Best Practices for protecting your job site from the rain:

STABILIZED CONSTRUCTION ENTRANCE/EXIT



Good

PERIMETER PROTECTION (Silt Fencing, Straw Wattles, Filter Socks, etc.)



Good

Bad



Bad

DRYWELL PROTECTION



Good

Bad

STORM DRAIN PROTECTION



Good

Bad

DESIGNATED CONCRETE WASH-OUT STATION



Good

Bad



It is our sincere intent to protect the health, safety and welfare of our community, by ensuring that our streets, alleys, storm drainage system and other rights-of-way remain clean and safe. For more information on stormwater and stormwater resources visit:

www.azstorm.org/about-us/members

STORM
Only rain in the stormdrain

CONSTRUCTION ACTIVITIES

STORMWATER POLLUTION
PREVENTION

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STORM
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WHEN is my construction site required to obtain coverage under the Arizona Pollutant Discharge Elimination System (AZPDES) Construction General Permit (CGP)?

Sites that will disturb one or more acres, or less than an acre but are part of a larger common plan of development. For more info, go to azdeq.gov and search "CGP".

WHY is coverage under the AZPDES CGP necessary? Stormwater runoff associated with construction activities can be a major contributor of pollutants to the city storm drain system.

Pollutants like dirt, fuels, oils, trash, concrete washout, lime, joint compound, paint, etc. could end up in retention basins, parks and community lakes.



Be the Solution to Stormwater Pollution. Follow these tips to prevent the discharge of pollutants into our storm drains:

1



Prepare a Stormwater Pollution Prevention Plan (SWPPP) prior to construction activities. A SWPPP is a site-specific plan that describes how to manage stormwater and how to reduce or eliminate the discharge of pollutants.

■ What goes in a SWPPP? Search azdeq.gov "SWPPP Checklist" for help.

2

Submit a completed Notice of Intent (NOI) to the Arizona Department of Environmental Quality (ADEQ) for permit coverage.

■ You can do this online... go to azdeq.gov and search "NOI"

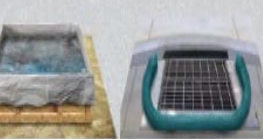


3

Once your application is approved by ADEQ, you will receive an authorization number (or AZCON number) - Post the AZCON # or a copy of the approved authorization form near the site's main entrance.



4



Implement and maintain a combination of Best Management Practices (BMPs), or control measures, at your site, including erosion and sediment controls, perimeter controls, track-out control devices, storm drain and drywell protection, stabilization of disturbed areas, spill prevention and containment, concrete washout containment, and chemical storage.

5

Conduct routine site inspections per the frequency detailed in the CGP. Complete written inspection reports and maintain them in the SWPPP.



6

Promptly maintain or replace any damaged or ineffective BMPs observed during site inspection



7

Update the SWPPP and site map to show changes or modifications to BMPs. The site map should reflect current site conditions.



8

Complete stabilization of all disturbed areas



9

Submit a completed Notice of Termination (NOT) to ADEQ once final stabilization has been achieved.



10

Retain all pertinent documents (e.g., SWPPP, inspection reports, revised site map, etc.) associated with the site for at least three years from the date the NOT was submitted to ADEQ.



STORM

Only rain in the stormdrain

Stormwater runoff picks up harmful pollutants as it flows across sidewalks, streets, and parking lots. It flows untreated through the **storm drain system**, eventually reaching our rivers, washes, and retention areas. **Commercial automotive businesses** must follow the law to properly dispose of these dangerous environmental pollutants.

Do your part!



DON'T BREAK THE LAW!

Proper cleanup and disposal of chemicals is required by municipal, state, and federal authorities.

FOLLOW BEST MANAGEMENT PRACTICES (BMPs):



Use a dry cleanup method for spills. Do not hose down.



Have a spill prevention plan and ensure proper employee training.



Keep anything stored outside under cover.



Schedule routine cleaning for slop sinks and trench drains.



KEEP IT CLEAN!

Never sweep or flush wastes into roadways or storm drains. Contact your local municipality to learn more.

AZSTORM.ORG



STORM

Solo lluvia en el drenaje pluvial

La escorrentía de aguas pluviales recoge contaminantes dañinos a medida que fluye por las banquetas, calles y estacionamientos. Fluye sin tratamiento a través del **sistema de drenaje** pluvial, finalmente llegando a nuestros ríos, arroyos y áreas de retención. **El sector de los vehículos comerciales** deben cumplir con la ley al desechar adecuadamente estos contaminantes ambientales peligrosos.

¡Haga su parte!



¡NO ROMPA LA LEY!

Limpiar y desechar apropiadamente de los productos químicos es un requisito de las autoridades municipales, estatales y federales.

SIGA ESTAS PRÁCTICAS:



Use un método de limpieza seco para los derrames. No riégue con una manguera.



Tenga un plan preventivo contra el derrame y asegure capacitar a sus empleados adecuadamente.



Mantenga cubierto cualquier cosa almacenada afuera.



Agende rutinas de limpieza para los lavabos de utilidad y las zanjas de desagüe.



¡MANTENGALO LIMPIO!

Nunca barra ni arroje desechos en la carretera o desagües pluviales. Contacte su municipio local para obtener más información.

AZSTORM.ORG



STORM

Only rain in the stormdrain

Stormwater runoff picks up harmful pollutants as it flows across lawns, sidewalks, and streets. It flows untreated through the storm drain system, eventually reaching our rivers, washes, and retention areas. Help prevent stormwater pollution.

Do your part!



PROPERLY DISPOSE
of **PAINT, AUTO FLUIDS, POOL CHEMICALS, CARPET CLEANING WATER**, and other household waste.

PICK UP PET WASTE
and bag and tie your trash.
Keep our stormwater clean!



Keep it **ON THE GREEN!**
Don't let your yard chemicals wash into the street or storm drains.

STAY SAFE! Don't let children play in washes and avoid driving through flooded areas. A driver can lose control in one foot of water.



Find an **HHW (HOUSEHOLD HAZARDOUS WASTE) COLLECTION SITE** by contacting your local municipality.

AZSTORM.ORG



STORM

Solo lluvia en el drenaje pluvial

La escorrentía de aguas pluviales recoge contaminantes dañinos a medida que fluye a través del césped, banquetas y calles. Fluye sin tratamiento a través del sistema de drenaje pluvial, finalmente llegando a nuestros ríos, arroyos y áreas de retención. Ayude a prevenir la contaminación de las aguas pluviales.

¡Haga su parte!



DESECHE CORRECTAMENTE
la **PINTURA, AUTOFLUIDOS, QUÍMICOS DE PISCINA, SOLUCIÓN PARA LIMPIAR ALFOMBRAS** y otros residuos domésticos.

RECOGA LOS DESECHOS DE SU MASCOTAS y embolsé y ate su basura. ¡Mantenga nuestras aguas pluviales limpias!



¡Mantengalo **EN EL CESPED!**
No dejes que los productos químicos de tu jardín se laven a la calle o drenajes pluviales.

¡MANTENEGASE A SALVO! No deje que los niños jueguen en los arroyos y evite conducir a través de las áreas inundadas. Un conductor puede perder el control dentro un pie de agua.



Encuentre un **SITIO DE RECOLECCIÓN** para los Desechos Domésticos Peligrosos poniéndose en contacto con su municipio local.

AZSTORM.ORG

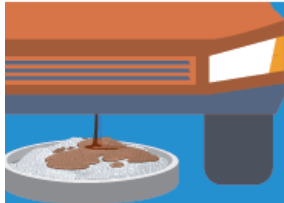


STORM

Only rain in the stormdrain

Stormwater runoff picks up harmful pollutants as it flows across lawns, sidewalks, streets, and parking lots. It flows untreated through the **storm drain system**, eventually reaching our rivers, washes, and retention areas. Help prevent automotive stormwater pollution at home.

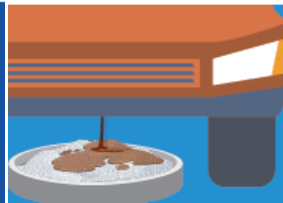
Do your part!



MAINTAIN YOUR VEHICLE to prevent leaks. Use a drip pan and a dry clean-up method such as kitty litter, sawdust, or sand.



PROPERLY DISPOSE of automotive fluids, such as motor oil and antifreeze. **REPORT ILLEGAL DUMPING** INTO STORM DRAINS.



MANTENGA SU VEHÍCULO para evitar fugas. Use una bandeja de goteo y un método de limpieza en seco, como arena para gatos, aserrín o arena.



DESECHE ADECUADAMENTE los fluidos automotrices, como el aceite de motor y el anticongelante. **REPORTE EL DESECHO ILEGAL** EN LOS DRENAJES PLUVIALES.



WASH YOUR CAR at a commercial carwash that recycles water. At home, use **PHOSPHATE-FREE, BIODEGRADABLE CLEANERS** and a spray nozzle or bucket!



Find an HHW (HOUSEHOLD HAZARDOUS WASTE) COLLECTION SITE by contacting your local municipality.



LAVE SU AUTO en un lavadero de autos comercial que recicla el agua. En casa, use **LIMPIADORES BIODEGRADABLES LIBRES DE FOSFATOS** y una boquilla de manguera o un balde.



Encuentre un SITIO DE RECOLECCIÓN PARA LOS DESECHOS DOMÉSTICOS PELIGROSOS poniéndose en contacto con su municipio local.

AZSTORM.ORG



AZSTORM.ORG



//// CONSTRUCTION BMPs ////

Protecting your job site from the rain.

	Concrete Washouts Create a containment structure for your concrete washout.	
	Storm Drain Inlet Protection Protect all inlets around your construction site.	
	Perimeter Protection Protect the area inside your construction zone with perimeter protection.	
	Site Stabilization Prevent erosion by adding containment around areas with a slope.	
	Construction Entrances/Exits Build entrances properly sized for construction vehicles to remove dirt from tires.	
	Chemical Storage Store hazardous materials and substances under cover and use secondary containment devices.	



Public Works Department
 Wastewater Collections Division
 4980 S. 157th Avenue, Goodyear, AZ 85338
 623-882-7887 • goodyearaz.gov/publicworks

STORM
 Only rain in the storm drain
www.azstorm.org/about-us/members

Appendix O

Did you know...

Stormwater runoff is one of the leading causes of water pollution in the United States. Stormwater will pick up dirt, trash, oil, grease, chemicals, and any other pollutant as it flows over roads and lawns.

In the Valley Metro area, stormwater runoff does NOT go to a water treatment plant before entering our recreational or drinking waters. It is transported by drains, streets, gutters, curbs, and open channels directly into retention/infiltration basins, parks, washes, canals, and community lakes.



Common Stormwater Pollutants:

- Motor Oil, Fuel, Grease, & other fluids
- Pet Waste
- Sediment
- Pesticides & Herbicides
- Fertilizers
- Yard Waste



Keeping stormwater clean & protecting our surface water is a job for all of us.

STORM

Only rain in the stormdrain

BROUGHT TO YOU BY:

STormwater Outreach for Regional Municipalities
(STORM)



For More Information Visit:
www.azstorm.org

STORM DRAINS:

Do you know where the water (and any debris) goes?

(We bet you will be surprised...)

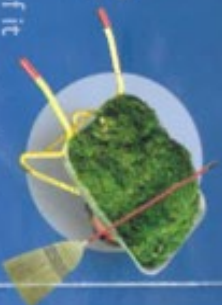
It flows directly into our parks and natural areas.

Please keep our communities clean. Follow these tips to prevent debris and pollutants from entering our storm drains:

1

Sweep

yard debris into piles & dispose of it properly, rather than hosing or blowing it down the street.



Think about composting or utilizing your black or green can to properly dispose of yard waste.

3

Wash vehicles at the carwash

not on the driveway or street.

Car washes have oil/water separators that help to recycle wash water.



2

Pool water can



become a stormwater pollutant when it is green, full of chemicals, or comes from a salt pool.

Check with your municipality for the proper method of disposing of pool water before discharging.

4



Use pesticides and herbicides according to the instructions.

More is not always better.

5

Be sure to pick up

after your pets.

Pet waste can contain

bacteria and can be a source of stormwater pollution that can wash into retention basins where families go to play.



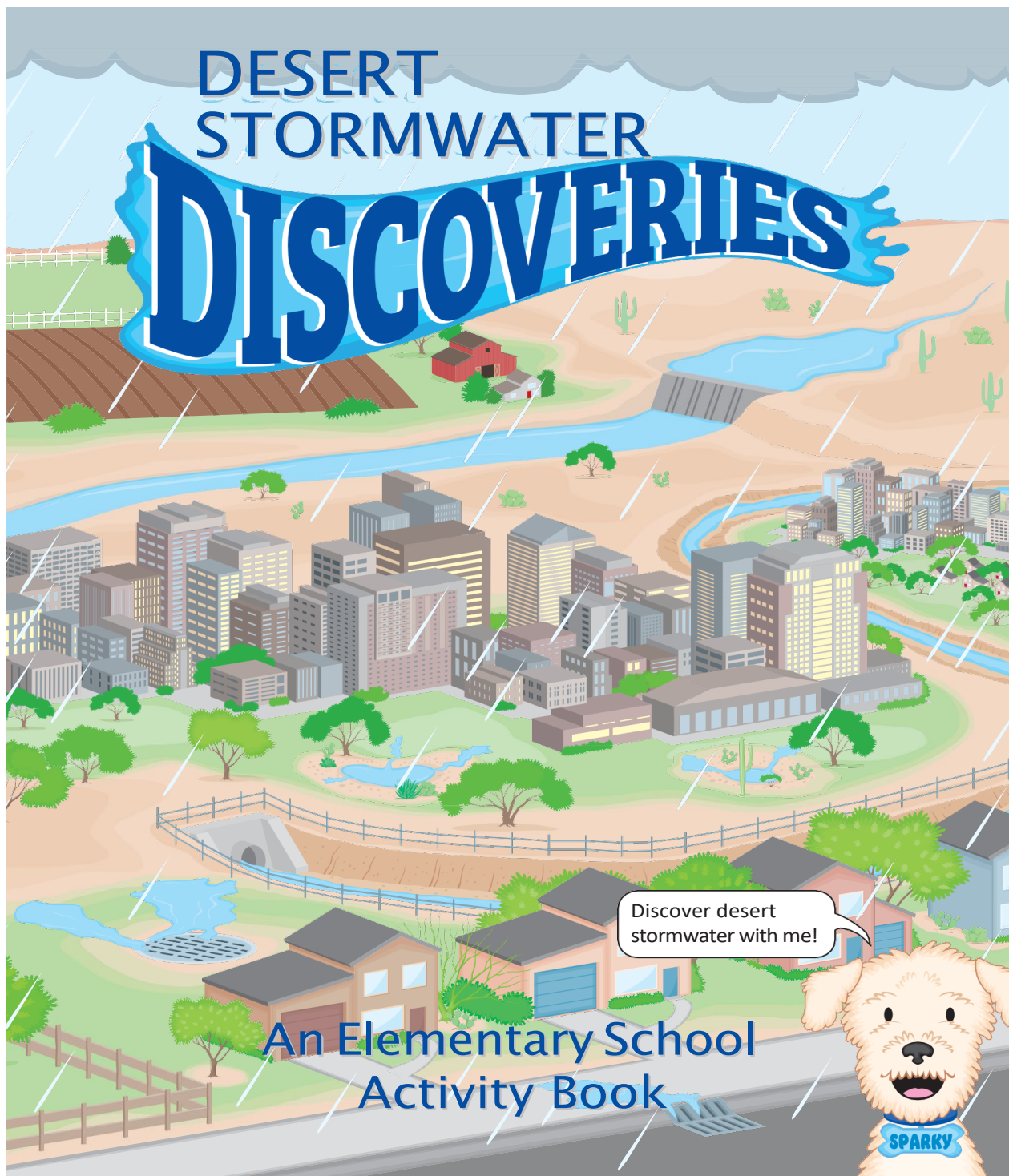
6



Keep your vehicle leak free.

Recycle automotive fluids at a neighborhood auto parts store.

REPORT ILLEGAL DUMPING INTO STORM DRAINS. REMEMBER: ONLY RAIN IN THE STORM DRAIN



Entire book can be found on the City of Goodyear Stormwater webpage

Keep Fats, Oils, and Grease from clogging sewer pipes!

THE RIGHT WAY CORRECTO

Wipe dishes, pots, pans and cooking equipment before rinsing or washing.
Limpie con papel los platos, ollas, sartenes y equipo de cocina antes de enjuagarlos o lavarlos.
在冲洗和洗滌前擦乾碗盤和炊具之表面會更理想。

Put food waste into food compost container or trash.
Coloque los restos de comida en contenedores para reciclar alimentos o en la basura.
將剩餘的食物殘渣放入堆肥桶或垃圾桶內。

Collect waste oil and store in waste oil bin for recycling. Clean up spills immediately.
Junte el aceite usado y guárdelo para reciclar. Limpie los derrames inmediatamente.
收集用過的廢油，以便日後回收利用。油漏出後，應立即加以清除。

Wash floor mats in a utility sink.
Lave los tapetes en un lavabo de servicio.
在洗滌槽內清洗地氈墊。

Keep screens in all drains to catch food waste for disposal in trash or compost.
Coloque coladores en todos los desagües para retener los desperdicios.
所有的水池下水管應備有濾網，用於收集食物殘渣。

THE WRONG WAY INCORRECTO

Do not pour cooking residue down the drain.
No arroje por el desagüe los residuos de alimentos cocinados.
切勿將烹調後的剩渣倒入水池下水管。

Do not put food waste down the drain.
No arroje los desperdicios de alimentos por el desagüe.
切勿將剩餘的食物殘渣倒入水池下水管。

Do not pour cooking oil into the sink or down the drain.
No vierta aceite de cocina directamente en el desagüe.
切勿將烹調後的剩油倒入水池下水管。

Do not wash floor mats outside.
No lave los tapetes en el exterior.
切勿在室外清洗地氈墊。

Do not remove screens from drains.
No quite los coladores de los desagües.
切勿移除水池下水管的濾網。

What is FOG?

FATS, OILS, AND GREASE ARE COMMON TO:

Meats and Fish

Butter

Cooking oils

Mayonnaise

Gravy

Sauces and food scraps

KEEP YOUR KITCHEN FOG FREE

CITY OF Goodyear

CITY OF Goodyear, 1000 W. 10th St., Goodyear, AZ 85338
Phone: 928.933.7000
Fax: 928.933.7001

B&B MANAGEMENT PRACTICES FOR FOOD SERVICE KITCHENS

FOOD SERVICE KITCHENS SHOULD:

- Store food waste in a designated container.
- Store cooking oil in a designated container.
- Clean up spills immediately.
- Wash floor mats in a utility sink.
- Keep screens in all drains to catch food waste for disposal in trash or compost.

FOOD SERVICE KITCHENS SHOULD NOT:

- Pour food waste down the drain.
- Pour cooking oil down the drain.
- Wash floor mats outside.
- Remove screens from drains.

PROTECT YOUR BUSINESS

BUSINESS CUSTOMERS

KEEP YOUR KITCHEN FOG FREE

CITY OF Goodyear

DO NOT SPILL FOG OUTSIDE OR ALLOW FOG TO DRAIN INTO THE STORM SYSTEM

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 - Water Quality
 - Stormwater Management
 - Pool Drain Permit Application

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Stormwater Management

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The City's storm sewer collection system is designed to protect against flooding and water damage. This stormwater collection system drains into waterways including the Gila or the Agua Fria Rivers. Protecting these valuable wildlife and recreational areas is crucial to prevent pollutants from being conveyed to these rivers. Goodyear's Stormwater Pollution Prevention Program exists to ensure that there is "Only Rain in the Storm Drain."

What Can You Do?

Keep Chemicals & Debris Out of the Storm Drain

>

Learn About the Impact of Hazardous Materials to Natural Resources

>

Be Proactive

>

POOL DRAIN PERMITS	EDUCATIONAL RESOURCES	CONSTRUCTION RESOURCES	SWMP
ANNUAL REPORT	PARTNER AGENCIES	REPORT A PROBLEM	

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 - + Planning & Zoning
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 - Permits
 - + Code Compliance
- Civil Inspections
 - Maps
 - Approved Materials
 - Storm Water Management Documents**
 - West Goodyear Central Planning Area Studies
- Development Fee Information
- Transportation Master Plan
- Business License
- Business Registration (copy)

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Storm Water Management Documents

Print Size:

STORM WATER MANAGEMENT FOR CONSTRUCTION SITES

[Storm Water Pollution Prevention for Construction Sites](#) [PDF] provides an overview of Engineering Department requirements for plan submittals and construction site compliance with Storm Water pollution prevention.

SMALL SITES

- Area of land disturbance is less than 1 acre, and
- not part of a Larger Common Plan of Development or Sale, and
- located farther than 1/4 mile from impaired or unique waters

[Check List for Best Management Practices \(BMP\) Plan](#) [PDF]

LARGE SITES

- Construction that results in land disturbance of 1 acre or greater, or
- less than 1 acre if part of a Larger Common Plan of Development or Sale, or
- project is located within 1/4 mile of impaired or unique waters

[Check List for Storm Water Pollution Prevention \(SWPP\)](#) [PDF]

OTHER STORM WATER DOCUMENTS

[City's Stormwater General Permit AZ2021-002](#) [PDF]

[City's Amended Stormwater Management Plan](#) [PDF]

[Report a Storm Water Problem](#)

[Annual Report](#)

OTHER AGENCIES

The City of Goodyear is a member of STORM (Stormwater Outreach for Regional Municipalities), a not-for-profit organization established to promote regional stormwater education through public outreach. For further information on [STORM](#), please visit their [website](#).

[EPA SWPPP Template](#) [DOC]

2008 ADEQ Construction General Permit SWPPP [Guidance Checklist](#) [PDF]

ADEQ AZG2013-001 [General Permit](#) for Discharge from Construction Activities

[ADEQ Permits by Business](#)

[ADEQ All Permits & Registrations](#)

ADEQ AZPDES [2019 MGSPs](#)

[EPA NPDES](#) Information

Free viewers are required for some of the attached documents.
They can be downloaded by clicking on the icons below.

It's a Great Year to be here!

1900 N. Civic Square, Goodyear, AZ 85395 | 623-932-3910

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Appendix T

Code Compliance Webpage

<https://www.goodyearaz.gov/government/departments/engineering-development-services/development-services/code-compliance-482>

<https://goodyear.municipal.codes/Code/16>

<https://goodyear.municipal.codes/Code/16-7>

Appendix U



ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM MANUAL

09/08/2023

Illicit Discharge Detection and Elimination Program Manual

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Section 1 – Introduction

1.1 Background

The Arizona Department of Environmental Quality (ADEQ) approved the City of Goodyear's NOI revised version under the Phase II Small Municipal Separate Storm Sewer System (MS4) Permit on September 16, 2022. The conditions in the permit are established pursuant to the Clean Water Act (CWA or Act) §402(p)(3)(iii) to ensure that pollutant discharges from small MS4s are reduced to the maximum extent practicable (MEP), protect water quality, and satisfy the appropriate water quality requirements of the CWA.

The Phase II Permit requires the city to have a stormwater management program (SWMP), which includes implementing an Illicit Discharge Detection and Elimination (IDDE) program designed to eliminate illicit discharges, and improper disposal to the MS4s.

The City's IDDE program is managed by the Water Services Department. Several City Departments and Divisions play a role in implementing the IDDE Program: Public Works (Solid Waste, Streets Operations, Fleet and Facilities), Engineering (Civil Construction Inspectors, 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, Parks and Recreation, Fire, and Police.

1.2 Summary of the IDDE Program

The City's Water Services Department has the overall responsibility to implement the Illicit Discharge Detection and Elimination (IDDE) program for the City. The program is designed to eliminate illicit discharges, illicit connections, and improper disposal (dumping) of non-stormwater discharges to the MS4. The section within this document where these elements are addressed is identified below.

- Enforcement Procedures (Section 2).
- Statement of IDDE Program Responsibilities (Section 3).
- Illicit Discharge Prevention, Reporting/Recordkeeping and Training (Section 4).
- Visual Monitoring (Section 5).

This manual is intended to assist City staff in implementing the IDDE program. It is to be used as a guidance document for staff in their day-to-day activities related to IDDE. This document can also be used as a training tool to ensure that staff are following the same procedures in responding to illicit discharge concerns. IDDE training for field staff is incorporated into regularly scheduled MS4 compliance sessions.

1.3 Stormwater System Mapping

The City of Goodyear has developed a comprehensive GIS-based map of their stormwater conveyance system including major outfall locations. The city updates the map to include any new, public, or private stormwater components that are constructed within their system. The Engineering Department adds features to the existing GIS map after final inspections and submittal of As-Built information has been confirmed.

Section 2 – Enforcement Procedures

2.1 Overview

The MS4 Permit requires that the City of Goodyear has adequate enforcement 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), and implement appropriate enforcement procedures and actions. Adequate enforcement procedures are implemented as outlined within the City's ordinances.

2.2 City Code, Ordinances and Engineering Design Standards & Policy Manual

The City of Goodyear has the enforcement authority through city code and ordinances (see Appendix B), and the City Manager is the specific Enforcement Authority. The code sections that grant the enforcement authority include:

- **16-7 Stormwater Pollution Elimination**
 - **Article 16-7 of the City's Codified Ordinances addresses non-stormwater discharges to the MS4 and includes enforcement procedures, penalties, and actions for non-compliance.**

- 16-7-3 Prohibition of Non-Stormwater Discharges to the MS4
- 16-7-4(B) Prohibition on disposing of litter in the MS4
- 16-7-4(D) Prohibition on illicit discharge and illicit connections
- 16-7-5 Authorization to complete inspections
- 16-7-6 Enforcement.
- Ch. 3 of the Engineering Design Standards and Policy Manual (EDS&PM)

2.3 Categories of non-stormwater discharges

The following categories of non-stormwater discharges are permitted unless otherwise prohibited by the City of Goodyear:

- a. Water line flushing
- b. Landscape irrigation
- c. Diverted stream flows
- d. Rising ground waters
- e. Uncontaminated ground water infiltration
- f. Uncontaminated pumped groundwater
- g. Discharges from potable water sources
- h. Fountain drains
- i. Air conditioning condensate
- j. Irrigation water
- k. Springs
- l. Water from crawl space pumps
- m. Footing drains
- n. Lawn watering
- o. Individual residential car washing
- p. Discharges from riparian habitats and wetlands
- q. Dechlorinated swimming pool discharges
- r. Street wash water, and
- s. Discharges or flows from firefighting activities

2.4 Voluntary Compliance

The city will respond to the identified illicit discharges, illicit connections, or illegal dumping activities using progressive enforcement actions. Corrective actions will first focus on education to promote voluntary compliance and then escalate to increased enforcement actions if

voluntary compliance is not obtained. Education is the first step in enforcement.

Often, business operators and property owners are not aware of the existence of illicit connections or activities on their properties that may constitute an illegal discharge. In these cases, providing the responsible party with information about the connection or operation, the environmental consequences, and suggestions on how to remedy the problem may be enough to secure voluntary compliance.

Education begins during the site investigation when the operation or connection is first confirmed. Property owners and operators should be notified that the problems must be corrected in a timely manner and that the City will be conducting a follow-up site visit to verify compliance. Field staff should also provide the property operator with an educational brochure describing illicit discharge violations and a copy of the applicable City code.

2.4.1 Operational Problems

Property owners are responsible for correcting operational problems that lead to illegal discharges to the storm drainage system. Through site visits and education, the City can provide technical assistance to aid property owners in identifying the required modifications.

2.4.2 Structural Problems

Most illicit connection problems will require a structural modification to correct the problem. Structural repairs can be used to redirect discharges such as sewage, industrial, and commercial cross-connections. Such cross-connections must be re-routed to an approved sanitary sewer system. Correcting structural problems is the responsibility of the property owner.

2.5 Enforcement Actions to Eliminate Illicit Discharges

When voluntary compliance efforts do not produce the desired result, the city will pursue follow-up enforcement action.

All enforcement actions/processes will be the responsibility of the Water Services Department and the Code Compliance Division. Table 1 outlines the detailed prioritizing escalated enforcement. The following factors were considered for the Illicit Discharge Enforcement Steps: severity of non-compliance, repeated non-compliance, and proximity to a receiving water or storm sewer system.

Table 1 Illicit Discharge Enforcement Steps

Enforcement Step	Details	Responsibility
------------------	---------	----------------

Step 1 – Initial Action/First Environmental Compliance Inspection	• Site visit to verify non-compliance. • Provide educational notice, door hanger, or advisory letter with expected compliance date. • Encourage voluntary compliance. • Documentation (date, time, photo, location).	Water Services Department/ Code Compliance
Step 2 – Second Inspection and Notice of Violation (NOV) (14 days from Initial Inspection)	• Site visit to verify compliance. • If property is in compliance, close case. • If no compliance, issue Notice of Violation to property owner/authorized agent/occupant citing City Code in violation and expected compliance date. • Provide corrective action and re-inspection date (14 days). • Documentation (date, time, photo, location).	Water Services Department/Code Compliance
Step 3 – Third Inspection and Final Notice (7 days from NOV)	• Site visit to verify compliance • If property is in compliance, close case. • If no compliance, issue Final Notice to property owner/authorized agent/occupant citing City Code in violation and expected compliance date. • Provide corrective action and re-inspection date (7 days) • Documentation (date, time, photo, location).	Water Services Department/Code Compliance
Step 4 – Final Inspection and Legal Action – Citation (30 days from Final Notice)	• Site visit to verify compliance. • If property is in compliance, close case. • If no compliance, request assistance from Code Compliance to issue civil citation to owner/authorized agent/occupant with arraignment date 30 days from date of citation. • City may correct problems and send bill to property owner. • Each day of each violation shall constitute a separate civil offense. The fee will be not less than \$50 nor more than \$2,500 for each violation.	Water Services Department/ Code Compliance

Step 5 – Arraignment (Hearing in 30 days if needed)	• Site visit on morning of arraignment. • Documentation (date, time, photo, location). • Provide Certificate of Compliance to Goodyear Court indicating compliance or non-compliance. • If property is in compliance, close case. • If no compliance, hearing will be scheduled by the court. Property owner and City staff will be notified of hearing date.	Water Services Department/ Code Compliance
---	--	--

The Phase II Permit requires the City of Goodyear to eliminate illicit discharge as expeditiously as possible upon its detection. If property owners are not addressing problems in a timely manner, the City may step in and perform the repairs necessary to remove an illicit connection, eliminate an illicit discharge, and/or clean up a dumping incident. Property owners will also be responsible for reimbursing the City for any costs occurred in correcting IDDE problems.

Effective enforcement procedures require comprehensive record keeping and documentation to demonstrate all program steps have been followed. Throughout the problem investigation and corrective action activities, all information related to the incident or property in question should be documented in the case file.

Section 3 – Statement of IDDE Program Responsibilities

3.1 Departments Implementing the IDDE Program

The department that will be responsible for implementing the IDDE are summarized in the following table:

Table 2 IDDE Responsible Departments

Responsibility	Department
Routine IDDE Inspections	Water Services Dept./Public Works/Engineering
Complaint Investigation	Water Services Dept.
Compliance / Enforcement	Water Services Dept. /Code Compliance

All information generated during IDDE inspections will be documented and saved within the City's system (Public Stuff/Accela, Central Square). This information will be available for review and retrieval by the City as required to investigate IDDE issues.

Section 4 – Illicit Discharge Prevention and Reporting

4.1 Purpose

Illicit discharges, connections and illegal dumping are identified through citizen reporting, interdepartmental or interagency referral, or other routine MS4 inspection activities. The City relies on local citizens, field staff, and inspections to detect potential problem areas quickly so that they can be addressed before they cause significant water quality degradation.

A storm drain issue/concern can be reported to Report A Problem App/Public Stuff. Using Public Stuff helps the City document the details of illicit discharges, dumping, and connections, including pool discharges, enforcement actions taken, and the resolution.

4.2 Report A Problem/Public Stuff Incident Reporting

The Report A Problem Incident Reporting form has the following submission fields of information under the Storm Drain Issues tab:

- A photo may be attached
- Description of What Was Dumped (if known)
- Problem Address or Cross Streets (required)
- Description (any other information about the issue)
- Name/Address of Offender (if known – an inspector will attempt to make contact and educate the offender)

4.2.1 Contact Information

Administrative staff are trained to record the date, time, location, and other observations made by the reporting party for illicit discharges and submit a Public Stuff work order to the Environmental Compliance Division, or email and or text with information of observation. Throughout their investigation, Water Services staff will add comments to the request ticket. Documentation includes the type of discharge, beginning/end of response, responsible party (when identified), and any corrective actions taken.

4.2.2 Documentation/Record Keeping

Water Services staff is responsible for maintaining records/documentation for the IDDE program.

When problems are identified, a work order should be created using Public Stuff/Accela as referenced in section 4.2. The work order should be opened prior to completing any additional field work.

If the nature of the discharge necessitates immediate response the following steps should be followed:

- **Sample Spill, Illegal Connection, Illicit Discharge, Incident Report and Unpermitted Outfall Inspection Report. Forms for such discharges are found in Central Square under Storm Other Illicit Discharge tab.**
- **Photographs**
- **Additional field notes**
- **Lab testing results (if needed)**

Thorough record keeping and or documentation is important for a successful IDDE program. The City of Goodyear will track the IDDE Program success by using the information from Public Stuff/Accela and Central Square Asset Management. The program evaluation and its overall effectiveness will be reported in the annual report. The Water Services Department will keep all records required by AZPDES Phase II Permit for a period of at least 3 years.

4.2.3 Tracing the Source

Water Services Department is responsible for the city's IDDE program. Storm drain network investigations along with drainage area investigations for non-stormwater discharges will be conducted by Water Services Department staff following IDDE investigations SOP.

4.2.4 Follow-Up Actions

Once the source of an illicit discharge has been identified, Water Services staff should initiate private property site entry procedures (if needed), notify the property owner or operator of the problem, and provide the appropriate educational materials and/or a copy of the IDDE ordinance. This is an important first step in the corrective action process. The Water Services Department can then begin working through the enforcement procedures outlined in Section 2.

4.2.5 Staff Training

Stormwater Pollution Prevention computer-based training course is managed in Vector Solutions. It is designed to educate employees on stormwater pollution prevention techniques as well as the role of supervisors and employees in preventing stormwater pollution. It also covers the regulations, permits, and authorities that govern stormwater pollution.

The Water Services Department has developed a training schedule for field staff directly involved with maintaining city-owned facilities to educate them on proper identification, investigation, clean-up, disposal, and reporting techniques for illicit discharges.

These trainings are conducted by the Environmental Compliance Division in Water Services using materials developed for the IDDE program. The City has developed PowerPoint presentations, computer-based trainings, and SOPs that are used for conducting the overview training for all field staff with stormwater responsibilities.

Section 5 – Visual Monitoring

5.1 Purpose

The City of Goodyear must annually implement and maintain a visual monitoring program that includes both dry weather and stormwater discharges to identify, monitor, and eliminate illicit discharges.

5.2 Dry Weather Visual Outfall Monitoring

Dry weather monitoring must be conducted after 72 hours has passed since a storm event that resulted in a discharge from the storm sewer system. Staff will document inspections using the Visual Monitoring Inspection Form stored in Central Square Asset Management System under Storm Other tab. Table 3 shows the location of the five dry weather visual outfalls.

Table 3 Dry Weather Visual Outfalls

Outfall ID	Name of Receiving Water	Is the receiving water listed as an Impaired, Not-Attaining or OAW?	Responsibility
SD107-12	Gila River	No	Water Services Department
SD107-13	Gila River	No	Water Services Department
SD105-1	Gila River	No	Water Services Department

SD105-4	Gila River	No	Water Services Department
SD105-19	Gila River	No	Water Services Department

5.3 Visual Stormwater Discharge Outfall Monitoring

For the visual stormwater discharge outfall monitoring, the City yearly monitors 3 municipal stormwater outfalls that discharge to Bullard Wash. These locations include:

- near a retail/commercial area
- Corgett Wash near a residential area
- an unnamed channel near an industrial area

Table 4 lists these 3 outfalls and their respective information.

Table 4 Visual Stormwater Discharge Outfalls

Outfall ID	Name of Receiving Water	Is the receiving water listed as an Impaired, Not-Attaining or OAW?	Responsibility
SD47-209	Bullard Wash (Retail/Commercial Area)	No	Water Services Department
SD124-59	Corgett Wash (Residential Area)	No	Water Services Department
SD86-187	Unnamed Channel (Industrial Area)	No	Water Services Department

The visual stormwater discharge outfall monitoring must be conducted in response to a qualifying storm event that resulted in a discharge from the storm sewer system and should include the first flush if possible. If the staff cannot access any of the outfalls during the wet weather discharge, the wet weather screening must happen as soon as possible after the storm or discharge event. Staff will document inspections using the Visual Monitoring Inspection Form stored in Central Square Asset Management System under Storm Other tab.

The City of Goodyear must conduct a minimum of 2 stormwater discharge monitoring events at each location during each wet season based on the following schedule:

- Summer Wet Season: June 1 through October 31.
- Winter Wet Season: November 1 through May 31.

5.4 Responsibility

Inspections are the responsibility of the Water Services Department. Inspections will be performed by Water Services staff.

5.5 Equipment

Prior to conducting field work, staff should assemble all necessary equipment (see Table 5) and review records from prior inspections in the same area to become familiar with the outfall locations and any potential inspection challenges.

Table 5 Field Equipment for Outfall Inspections

Safety Gear – vest, hard hat, cones	Flashlight or headlamp
Field Notebook/Pencils	Toolbox–hammer, tape measure, duct tape, zip ties
Stormwater Asset Inspection Forms	Clippers
Map or Aerial Photo of Inspection Area	First Aid Kit
GPS Unit (Tablet)	Clear sample bottles
Cell phone w/ charged battery	Wide mouth container
Digital camera w/ charged battery	Stopwatch (Cell phone)

Appendix U

Illicit Discharge Detection and Elimination (IDDE) Program Checklist

Description	Check if Completed
<i>Maintain a written IDDE Program</i>	☐
a. Dry weather field screening of outfalls for non-stormwater flows.	☐
b. Sampling of dry weather discharges for selected chemical and biological parameters.	☐
c. Procedures for identifying priority areas. These area have a higher likelihood of illicit discharges, illicit connections, or illegal dumping. Priority areas include older infrastructure, a concentration of high-risk activities, or past history of water pollution problems.	☐
d. Procedures for screening outfalls in priority areas during varying seasonal and meteorological conditions.	☐
e. Procedures for identifying the source of an illicit discharge when a contaminated flow is detected at a regulated small MS4 outfall	☐
f. Procedures for eliminating an illicit discharge	☐
g. Procedures for assessing the potential for illicit discharges caused by the interaction of sewage disposal systems (e.g., on-lot septic systems, sanitary piping) with storm drain systems.	☐
h. Mechanisms for gaining access to private property to inspect outfalls (e.g., land easements, consent agreements, search warrants).	☐
i. Procedures for program documentation, evaluation, and assessment.	☐
j. Recordkeeping – records must be kept of all outfall inspections, flows observed, results of field screening and testing, and other follow-up investigation and corrective action work performed under this program.	☐
<i>Maintain maps and update them as necessary</i>	☐
a. Locations of all outfalls directly or indirectly discharging stormwater from your MS4.	☐
b. Locations and names of all surface waters that receive discharges from those outfalls	☐
c. The entire storm sewer collection system, including roads, inlets, piping, swales, catch basins, channels, basins, etc.	☐
d. Municipal and/or watershed boundaries	☐

<i>Outfall field screening, identifying the source of any illicit discharges, and remove or correct any illicit discharges using procedures developed.</i>	
a. Screen all identified MS4 outfalls at least once during each permit coverage term; for areas where past problems have been reported or known sources of dry weather flows occur on a continual basis, outfalls must be screened annually.	☐
b. If screening reveals dry weather flow, the discharge from the outfall and the area around the outfall must be inspected visually for color, turbidity, sheen, floating, or submerged solids; for adverse effects on plants or animals in proximity to the outfall; and for odor. If the outfall produces any odor, or if the visual inspection shows any indication that the discharge may contain pollutants, then samples of the discharge must be collected for field and/or lab testing of selected chemical and biological parameters as part of a process to determine if the dry weather flow is illicit.	☐
c. Prioritize outfall screenings according to the perceived chance of illicit discharges within the outfall's contributing drainage area.	☐
d. Inspections must be recorded on the Sample Collection field sheet.	☐
e. Adequate written documentation must be maintained to justify a determination that an outfall flow is not illicit. If an outfall flow is illicit, the actions taken to identify and eliminate the illicit flow must be documented.	☐
f. The results of outfall inspections and actions taken to remove or correct illicit discharges must be reported in the annual report	☐
<i>Enact a stormwater management ordinance to enforce a stormwater management program that includes prohibition of non-stormwater discharges to the regulated small MS4.</i>	☐
a. Continue to maintain, update, implement, and enforce a Stormwater Management Ordinance that satisfies all applicable requirements.	☐
<i>Provide educational outreach to public employees, business owners and employees, property owners, the general public and elected officials (i.e., target audiences) about the program to detect and eliminate illicit discharges</i>	☐
a. During each year of permit coverage, appropriate educational information concerning illicit discharges shall be distributed to the target audiences	☐
b. Maintain and promote the stormwater pollution reporting mechanism for the public to use to notify the City of illicit discharges, illegal dumping, or outfall pollution.	☐
c. Respond to all complaints in a timely and appropriate manner. Document all responses, include the action taken and whether the complaint was resolved successfully.	☐

	Appendix W Storm Drain Checklist				
General					
1	Review General & Grading Checklists	☐	☐	☐	See City Of Goodyear Engineering Web Site
Cover Sheet Or Sheet 2					
2	COG General Notes For Grading & Drainage Construction	☐	☐	☐	0.4.3
Plans					
3	Scale 1"=20' Horizontal, 1"=2' Min Vertical	☐	☐	☐	2.11.2(A.12)
4	Arterial -10-Year Design (Local 5-Year) Street Capacity Contained Within Curbs (Art & Major Collector 1 Dry 12' Lane In Each Direction)	☐	☐	☐	3.3.1(B) Table 3.3-1 Hydrology Design Criteria
5	City Maintained Storm Drain Shall Be In R/W Or Easement	☐	☐	☐	3.2.4(B)
6	Stationing & Offset From Centerline	☐	☐	☐	2.11.2(A.7) G-3130 G-3132 G-3143 G-3136
7	6' Horizontal Separation From Water & Sewer	☐	☐	☐	3.3.3(D)
8	Developments Within ¼ Mile Of Public SD Or Man-Made/Natural Channel	☐	☐	☐	3.3.5(C.8.c.) 3.1.2(C)
9	18" Min. Lateral Size	☐	☐	☐	3.3.3(C.4) 3.3.5(C.8.b)
10	Pipe Material RGRCP Class III Min. (Class IV Req'd. If < 2' Cover Up To The Pavement Section, No Pipe In Pavement Section, HDPE Up To 48" Ø)	☐	☐	☐	3.3.4(A) G-3540-1 MAG Spec 618.3
11	Pavement Cuts Not Permitted (All New Pavement Is To Remain In A New Uncut Condition For A Period Of 5 Years Or Pay Fee)	☐	☐	☐	4.1.7(A.7) Per Ord No.2000-697, Pavement Cut Fee Schedule
12	Catch Basins Per G-3535-1,-2,-3 Type M (Note Wing Length & 'V' On Plans)	☐	☐	☐	3.3.3(A.7.a) G-3535-1-3 Table "A"
13	Headwalls & Vertical Face Drops Of More Than 2' Require Safety Rail (Includes Sidewalks & Retaining Walls)	☐	☐	☐	4.1.5(B.3) Safety Rail Per MAG 145 Painted To Match Nearest Structure, Wall, Or Landscaping Per ADOT Specs.
14	SD Outlet ≥ 18" Ø - Headwall Required	☐	☐	☐	
15	No Bubble-Ups Allowed To Discharge Street Drainage	☐	☐	☐	3.3.3(E)
16	Encasement Shown In Plan & Profile For Shallow Construction	☐	☐	☐	MAG 507

17	Existing Tail Water Ditch Or Pipes Still In Use? If Not, Does The Irrigation District Need To Sign Off?	☐	☐	☐	RID, MWD
Profile					
18	Storm Drain Profiled	☐	☐	☐	<u>2.11.2(E.1.b)</u>
19	Profile Utility Crossings, Label Min. Separation (2' Min. Vert. Separation Under & Over Water, Reclaimed Water, Or Sewer)	☐	☐	☐	<u>2.11.2(D.1.b.6)</u> <u>3.2.4(B.4)</u> <u>5.1.4(J.5)</u>
20	0.1' Min. Drop In MH If Intersecting Pipes Are >30° (<90° Not Allowed)	☐	☐	☐	<u>3.3.3(C.6)</u>
21	Changes In Pipe Size - Match Crowns	☐	☐	☐	<u>3.3.4(B.2.d)</u>
22	Show Wing Length & V @ Catch Basin	☐	☐	☐	<u>3.3.3(A.7.a)</u> <u>G-3535-1-3 Table "A"</u>
23	Show HGL For 10-Yr. 6 Hr., 1' Below Finish Grade At All Storm Drain Structures (MH, CB, HW)	☐	☐	☐	<u>3.3.3(C.5)</u>
24	Velocity Between 3 fps - 9 fps	☐	☐	☐	<u>3.3.3(C.3)</u>
25	Pipe At Headwall Needs A Min. Cover Of 9" (12" Without Rip-Rap)	☐	☐	☐	<u>MAG 501-1</u>
Manholes					
26	Manholes Per MAG Standards	☐	☐	☐	<u>3.3.4(B.1)</u>
27	MH Spacing 18"-36" Pipe Dia. = 400', 36"+ Pipe Dia.=660'	☐	☐	☐	<u>3.3.4(B.3)</u>
Additional Notes on Plans					
28	If Connecting To An Existing Storm Drain System "Contractor Shall Verify The Location Of The Existing Storm Drain Line Before Proceeding With Trenching"	☐	☐	☐	<u>3.2.4(B.3)</u>