

# **STORMWATER MANAGEMENT PLAN FOR MOHAVE COUNTY, ARIZONA**

**Submitted to:**

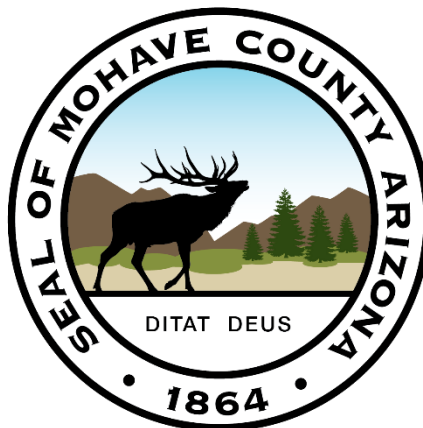
Arizona Department of Environmental  
Surface Water Section/Stormwater and General Permits Unit (5415A-1)  
1110 Washington Street  
Phoenix Arizona, 85007

To fulfill requirements of the  
Small Municipal Separate Storm Sewer System (MS4)  
General Permit (AZG2016-002)

**Prepared:**

March 2017

**Updated:**



Mohave County:  
Department of Development Services  
Department of Public Works

# Certification Statement

**Permittee:** Mohave County

**Permit Number:** AZG2016-002

**Program Contacts:**

Mohave County Flood Control District

Rjonn Burn - Engineer  
P.O. Box 7000  
Kingman, AZ 86402-7000  
[Rjonn.Burns@mohavecounty.us](mailto:Rjonn.Burns@mohavecounty.us)  
(928) 757-0925

Mohave County Public Works

Steven Latoski - Director  
P.O. Box 7000  
Kingman, AZ 86402-7000  
[Steven.Latoski@mohavecounty.us](mailto:Steven.Latoski@mohavecounty.us)  
(928) 757-0910

Mohave County Development Services

Timothy Walsh Jr. - Director  
P.O. Box 7000  
Kingman, AZ 86402-7000  
[Tim.Walsh@mohavecounty.us](mailto:Tim.Walsh@mohavecounty.us)  
(928) 757-0903

**Certifying Official:**

Timothy M. Walsh Jr.  
Development Services Director  
P.O. Box 7000  
Kingman AZ 86402-7000  
[Tom.Walsh@mohavecounty.us](mailto:Tom.Walsh@mohavecounty.us)  
(928) 757-0903

Steven P Latoski  
Public Works Director  
P.O. Box 7000  
Kingman AZ 86402-7000  
[Steven.Latoski@mohavecounty.us](mailto:Steven.Latoski@mohavecounty.us)  
(928) 757-0913

*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 or the person or persons who manage the system, or those directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for false information, including the possibility of fine and imprisonment for knowing violations.*

\_\_\_\_\_  
Timothy Walsh – Director  
Mohave County Development Services

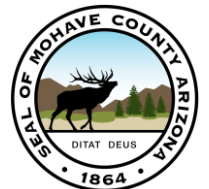
\_\_\_\_\_  
Date

\_\_\_\_\_  
Steven Latoski – Director  
Public Works Development Services

\_\_\_\_\_  
Date

# Table of Contents

<b>Title</b>	<b>Page</b>
Introduction and Background.....	1
Plan Objective .....	1
Non-Storm Water Discharges.....	2
Urbanized Area - Geographical Limits.....	3
Urbanized Area - General Description.....	3
Storm Sewer System Mapping .....	3
Receiving Waters and Outfalls .....	4
Minimum Control Measures (MCM).....	7
MCM 1. Public Education and Outreach on Stormwater Impacts .....	8
MCM 2. Public Involvement/Participation .....	15
MCM 3. Illicit Discharge Detection and Elimination .....	18
MCM 4. Construction Site Stormwater Runoff Control .....	24
MCM 5. Post-Construction Stormwater Management in New Development and Redevelopment.....	28
MCM 6. Pollution Prevention/Good Housekeeping for Municipal Operations .....	34
Staffing and Resources Allocations .....	41
Analytical Monitoring .....	41
Program Evaluation .....	42
Record Keeping.....	42
Discharge Monitoring Report.....	43
Annual Reports.....	43



## List of Figures

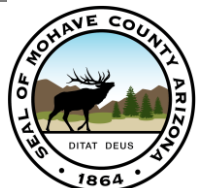
---

<b>Title</b>	<b>Page</b>
Figure 1a: Eligible Area of Unincorporated Mohave County (North Lake Havasu).....	5
Figure 1b: Eligible Area of Unincorporated Mohave County (Horizon Six) .....	6
Figure 2: Eligible Area of Unincorporated Mohave County .....	44

## List of Tables

---

<b>Title</b>	<b>Page</b>
Table 1.1: Public Education and Outreach - BMPs and Measurable Goals.....	8
Table 1.2: Public Education and Outreach - Additional Information.....	13
Table 2.1: Public Involvement and Participation - BMPs and Measurable Goals .....	15
Table 2.2: Public Involvement and Participation - Additional Information .....	17
Table 3.1: Illicit Discharge Detection and Elimination - BMPs and Measurable Goals.....	18
Table 3.2: Illicit Discharge Detection and Elimination - Additional Information .....	22
Table 4.1: Construction Site Stormwater Run-off Control - BMPs and Measurable Goals	24
Table 4.2: Construction Activity Stormwater Runoff Control - Additional Information .....	27
Table 5.1: Post-Construction Stormwater Management - BMPs and Measurable Goals..	28
Table 5.2: Post-Construction Stormwater Management - Additional Information .....	33
Table 6.1: Pollution Prevention/Good Housekeeping - BMPs and Measurable Goals.....	34
Table 6.2: Pollution Prevention/Good Housekeeping - Additional Information.....	39



## List of Attachments

---

### Title

Attachment 1 - Jurisdictional Boundaries Map

Attachment 2 - ADEQ MS4 Permit (AZG2016-002)

Attachment 3 - Mohave County Notice of Intent

Attachment 4 - Mohave County Building Safety Codes

Attachment 5 - Revised Mohave County Stormwater Ordinance

Attachment 6 - Revised Mohave County Flood Control Ordinance

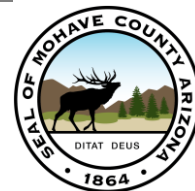
Attachment 7 - Mohave County Review Checklists

Attachment 8 - Mohave County IDDE Program

Attachment 9 - Mohave County Construction Site StormWater Runoff Control Plan

Attachment 10 - Mohave County Post-Construction Site Storm Water Runoff Control Plan

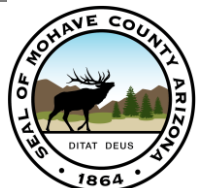
Attachment 11 - Mohave County Pollution Prevention and Good Housekeeping Plan



## Glossary of Acronyms

---

A.A.C.	Arizona Administrative Code
ADEQ	Arizona Department of Environmental Quality
A.R.S	Arizona Revised Statute
AZPDES	Arizona Pollution Discharge Elimination System
BMP(s)	Best Management Practices
CFR	Code of Federal Regulations
CGP	Construction General Permit
CWA	Clean Water Act
DMR	Discharge Monitoring Report
EPA	Environmental Protection Agency
ERACE	Environmental Rural Area Cleanup Enforcement
GIS	Geographical Information System
GHKP	Good Housekeeping Plan
ID	Illicit Discharge
IDDE	Illicit Discharge Detection and Elimination
IDDEP	Illicit Discharge Detection and Elimination Plan
IW	Impaired Waters
MCM	Minimum Control Measures
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer Systems
MSGP	Multi-Sector General Permit (non-mining)
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollution Discharge Elimination System
OAW	Outstanding Arizona Water
PCSP	Post-Construction Stormwater Plan
PTOW	Public Owned Treatment Works
SMO	Stormwater Management Ordinance
SWMP	Stormwater Management Plan
SS-SWMP	Site Specific Storm Water Management Plan
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load



# Glossary of Commonly Used Terms

---

**Best Management Practice(s):** methods, measures or practices to prevent or reduce discharges and includes both structural and nonstructural controls and operation and maintenance procedures.

**Facility:** any “point source or any other facility (including land or appurtenances thereto) that is subject to regulation under the AZDES/NPDES program.

**Illicit Discharge:** any discharge to a municipal separate storm sewer that is not composed entirely of stormwater except discharges pursuant to a AZPDES/NPDES permit and discharges 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.

**Mohave County MS4:** a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) which are owned and operated by Mohave County, discharge into waters of the United States, and are designed or used for collecting or conveying stormwater, but are not part of a combined sewer system and are not part of a publically-owned treatment works (POTW).

**Not-Attaining Water:** a surface water that has been determined to be impaired but is not placed on Arizona’s 303(d) list.

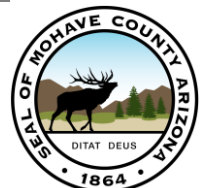
**Outfall:** means a point source as defined by 40 CFR 122.2 at the point where a municipal separate storm sewer discharges into waters of the United States, and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect the same stream or other waters of the United States and are used to convey waters of the United States.

**Outstanding Arizona Water:** a surface water that has designated by ADEQ as an outstanding state resource under A.A.C R18-11-112.

**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 collections system, vessel or other floating craft ~~form~~ which pollutants are or maybe discharged, excluding return flows from irrigated agriculture or agriculture stormwater runoff.

**Pollutant:** sediment, fluids, toxic waste, dredged spoil, solid waste, substances and chemicals, pesticides, herbicides, fertilizers, and other agricultural chemicals, incinerator residue, sewage, garbage, sewage sludge, munitions, petroleum products, equipment, rock, sand ~~cellar~~ ~~direct~~ (e.g. overburden material) and mining, industrial, municipal and agricultural ~~wasters~~ or any other liquid, solid, gaseous or hazards substances.

**Receiving Water:** waters of the United States as defined by 40 CFR 122.2. Also referred to as Navigable Waters.



## Introduction and Background

In 1972, Congress passed the Clean Water Act (CWA) with the intent of improving the water quality of the Nation's waterways. Through this act, the discharge of pollutants to the waters of the United States was prohibited unless authorized under the National Pollution Discharge Elimination System (NPDES) permit.

Recognizing that polluted stormwater is ultimately discharged untreated into a local water body (i.e. river, stream, lake, wash, arroyo) from a municipal separate storm sewer system (MS4), the EPA instituted, as part of the NPDES, a regulatory program that focused on reducing pollutant runoff stemming from these sources. This program was introduced in two phases that were based on the population of the urbanized area for which the municipal storm sewer serves. Phase I, implemented in 1990, covered stormwater runoff associated with large and medium municipal separate storm sewer systems serving populations of 100,000 or greater. Phase II, which took effect in December of 1999, covered those systems serving populations of less than 100,000.

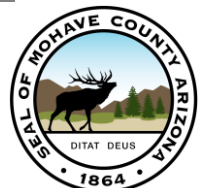
This regulatory permitting process was eventually delegated to the states. The State of Arizona, upon receiving primacy of the program, created the Arizona Pollutant Discharge and Elimination System (AZPDES) to be administered by the Arizona Department of Environmental Quality (ADEQ).

Initially, Mohave County was not required to gain authorization prior to discharging stormwater runoff from its system. However, subsequent to the latest Decennial Census (2010 Census), several areas within the unincorporated limits of Mohave County were deemed to have sufficient population to be designated as "urbanized areas". Under this designation, the municipal separate storm sewer system associated with these areas would be regulated. As such Mohave County is required to gain authorization to discharge stormwater runoff from its MS4 into a receiving water, or waters of the United States. This authorization is granted through the Arizona Pollutant Discharge Elimination System General Permit for Storm Water Discharges from Small Municipal Storm Sewer Systems (AZG2016-002).

## Plan Objective

This document, which will be referred to as the Mohave County Stormwater Management Program (SWMP), has been created in fulfillment of requirements set forth by AZG2016-002. Its purpose is to describe Mohave County's effort to reduce the discharge of pollutants to the maximum extent practicable (MEP) for the purpose of satisfying the requirements of the CWA, while promoting public awareness of water quality issues and the importance of managing stormwater.

It should be noted that not all of the unincorporated limits of Mohave County have been deemed to be urbanized by the Decennial Census. In accordance with 40 CFR 122.32, only those portions designated as urbanized areas by the Census are regulated by AZG2016-002 and subjected to the requirements of the SMWP. Areas not considered to be urbanized are not regulated under the permit and as such are not subjected to the requirements placed herein.



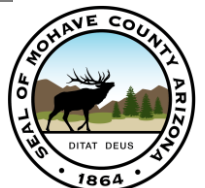


## Non-Storm Water Discharges

While the emphasis of Phase I and Phase II of the NPDES was on stormwater discharges, non-stormwater runoff can find its way into the MS4 and ultimately into the receiving waters. Sources include runoff from:

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

Mohave County has determined that the above list of potential non-stormwater discharges are not significant contributors of pollutants to the MS4 and are considered to be allowable non-stormwater discharges.



## Urbanized Area - Geographical Limits

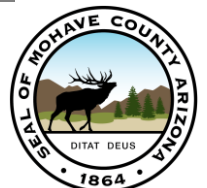
The eligible areas that make up the MS4 for Mohave County lie outside the incorporated limits of Lake Havasu City, within the Colorado River – Lower Gila Watershed. The MS4 area consists of portions of Sections 8, 16, 17 & 21 of Township 14N 20 W and Section 9, Township 13 North, Range 19 West of the Salt and Gila River Base and Meridian, Mohave County, Arizona.

## Urbanized Area - General Description

Two non-contiguous areas constitute Mohave County's MS4 Permit Area. The first area which will, for the purpose of this document be referred to as North Lake Havasu (NLH), consists of a combination of residential communities and clusters of commercial development. A larger portion of the area included in the MS4 is owned by the Arizona State Land Department and is undeveloped. The storm sewer system within NLH consist of primarily surface water conveyance elements (i.e. paved roads, earthen channels, culverts, and at-grade crossings). The second are, to be referred to as Horizon Six (H6), consists entirely of a residential community platted in 1961. The lots, which are developed with single family residences, are approximately 1 acre in size. The H6 MS4 contains a large storm sewer system owned and maintained by Mohave County Flood Control District (MCFCD). This system of a single channel and a series of culverts is located within a public drainage easement. Ancillary components of the H6 MS4 include a public road network and several local culverts that convey flow beneath the roadways. There are very few designated stormwater retention areas within the MS4 boundaries of either NLH or H6, though a regional detention/retention system does lie north of the H6 boundaries. The two MS4 areas are depicted on Figure 1a and Figure 1b.

## Storm Sewer System Mapping

Within 1 year of the effective date of the permit, the aforementioned components of Mohave County's MS4 stormwater sewer will be mapped using GIS. As part of this effort, separate shapefiles for each of the components listed in Section 4.1.a – 4.1.c were created. Mohave County Flood Control District will be responsible for reviewing and updating the information on an annual basis with assistance being provided by the Mohave County Public Works, Mohave County Development Services and Mohave County Information Technology Department. The review and update will occur within the 3<sup>rd</sup> quarter of the year to coincide with the submittal of the Annual Report. The information compiled as part of this effort will be stored within Mohave County's Intranet System and can be made available to ADEQ upon request. The status of the initial mapping effort and additions or revisions made to the mapped components shall be incorporated into the Annual Report. Decadal census changes to the MS4 area and the MS4 components will be integrated into the program within twelve (12) months of receiving the revised urbanized areas.



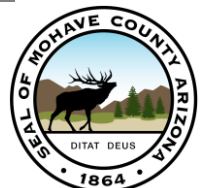
## Receiving Waters and Outfalls

For the purpose of Mohave County's Storm Water Management Plan, the receiving waters for this project are Lake Havasu and the Colorado River.

The tributaries to these water bodies have been identified as part of the mapping effort by both ID and common name. They are:

<u>Permit Region</u>	<u>NAME</u>	<u>MAP ID</u>
NLH	Unnamed Wash 1	1UW1-01
NLH	Unnamed Wash 2	1UW2-01
NLH	Unnamed Wash 3	1UW3-01
NLH	Unnamed Wash 4	1UW4-01
NLH	Unnamed Wash 5	1UW5-01
NLH	Unnamed Wash 6	1UW6-01
NLH	Unnamed Wash 7	1UW7-01
H6	<del>Mocking Bird Wash</del>	2MB-01
H6	Unnamed Tributary to <del>Mocking Bird Wash</del>	2MBT-01
H6	<del>Mocking Bird Wash</del>	2MB-02

There are no Arizona Outstanding or Impaired Waters that the MS4 discharges into.



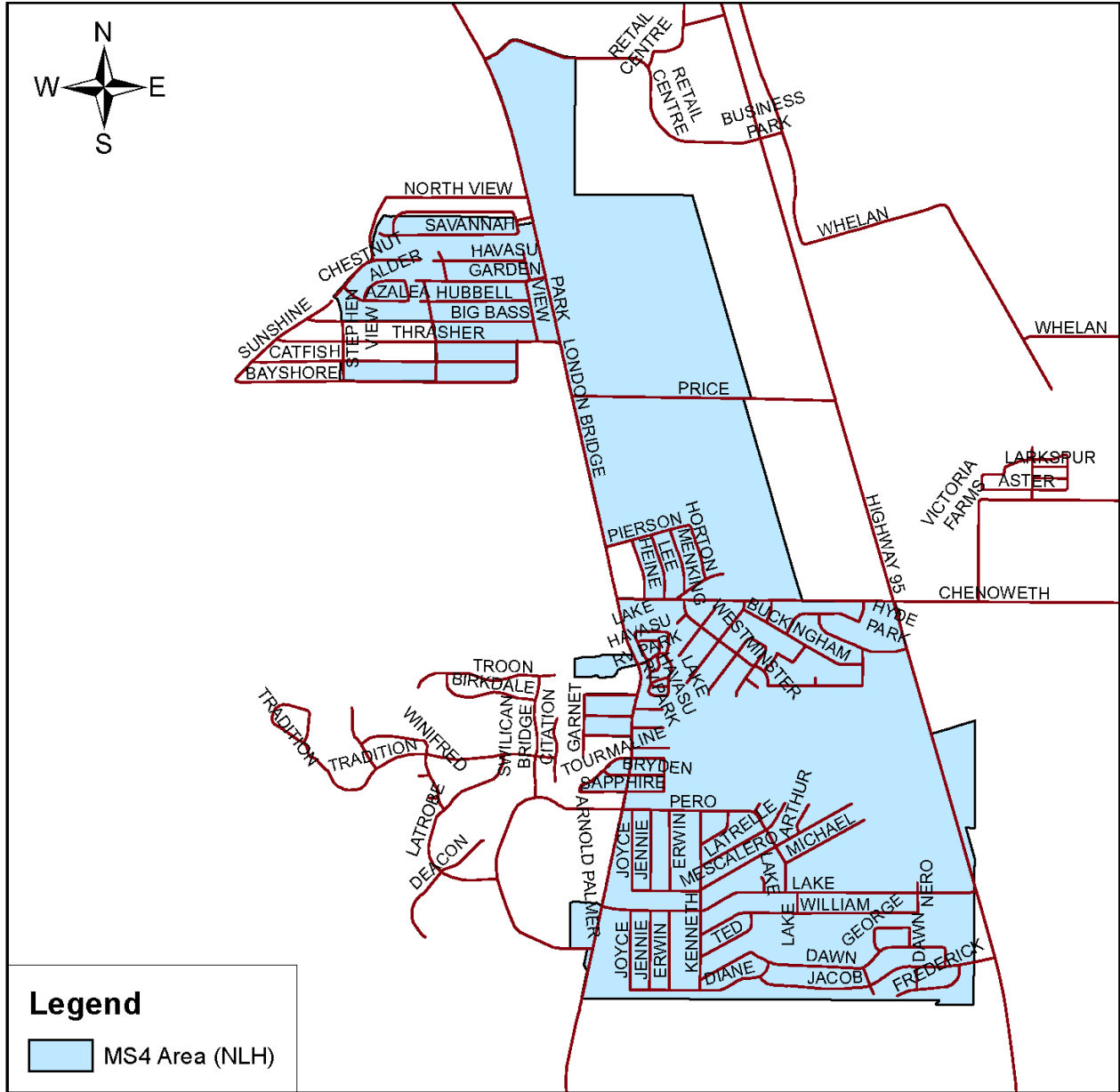
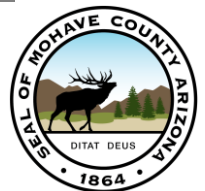
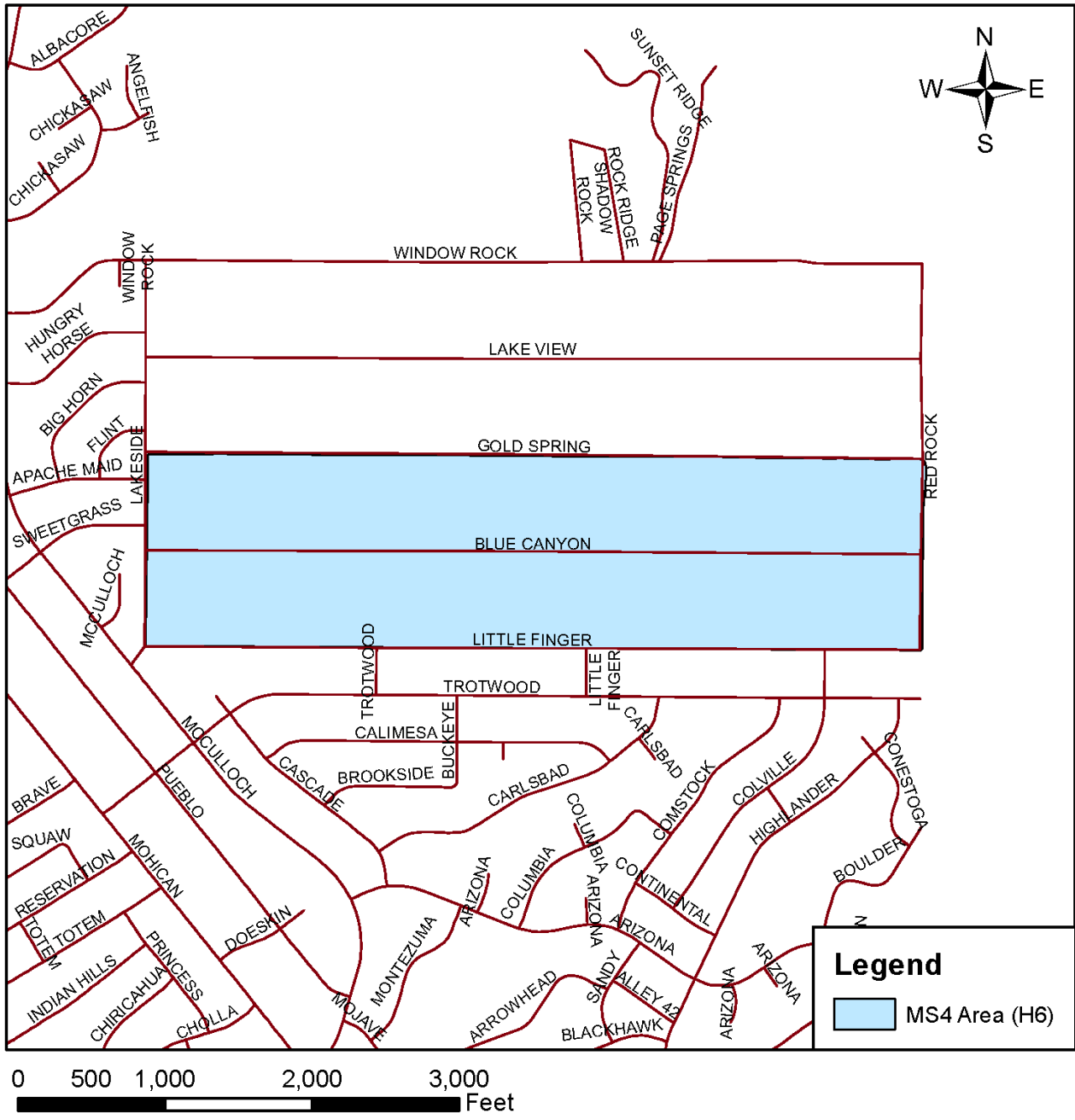


Figure 1a: Eligible Area of Unincorporated Mohave County (North Lake Havasu)





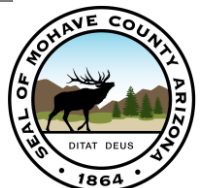
**Figure 1b: Eligible Area of Unincorporated Mohave County (Horizon Six)**



## Minimum Control Measures (MCM)

The plan will address the six minimum control measures, which are:

1. Public Education and Outreach on Stormwater Impacts
2. Public Involvement/Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment.
6. Pollution Prevention/Good Housekeeping for Municipal Operations



## MCM 1. Public Education and Outreach on Stormwater Impacts

Table 1.1: Public Education and Outreach - BMPs and Measurable Goals

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.1.1	Mohave County staff will collect brochures, fact sheets, and other educational materials from federal, state, and local agencies or other MS4 websites.	Contact agencies and review web pages to develop a collection of educational material for public distribution. Gathered information will be made available either electronically on a County-hosted web page, directly at County facilities or via direct mailing. The types of information collected will be summarized as part of the Annual Report.	03/17	09/17
Part 6.4.1.1	Mohave County staff will adopt brochures and other educational materials specific to the types of uses and potential pollutants resulting from the uses within the MS4 Area.	Create and get approved for use, brochures and other educational materials that are specific to Mohave Counties MS4 Area. The types of brochures created, and their adoption date will be summarized as part of the Annual Report.	03/17	9/17
Part 6.4.1.1	Mohave County staff will establish a web page for the Stormwater Management Program.	Launch a web page or series of web pages dedicated to the Storm Water Management Program and stormwater quality as a whole. The date of the launch and the URL will be provided as part of the Annual Report.	03/17	09/17



Table 1.1: Public Education and Outreach - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.1.2	Mohave County staff will distribute information to the general public and to specific targeted audiences/uses including but not limited to <ul style="list-style-type: none"> <li>• Automotive service and repair stations</li> <li>• boat service and repair stations</li> <li>• commercial and residential developers</li> <li>• general contractors</li> <li>• private utility companies</li> <li>• commercial/industrial property owners</li> <li>• homeowners</li> <li>• homeowner’s associations</li> </ul>	Direct mail to the public, a minimum of two (2) brochures to the targeted audiences on an annual basis. The number of direct mailings and the types of information sent will be provided as part of the Annual Report.	09/17	09/21
		Provide target audience specific educational materials in both Spanish and English at its facilities typically visited by the general public seeking information (i.e. Development Service Review Office, Flood Control District).	09/17	09/21





Table 1.1: Public Education and Outreach - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.1.2	Mohave County staff will distribute information to the general public and to specific targeted audiences.	Collect and make available age appropriate educational materials for the children living within the MS4 areas, this information will be placed on the website for download and at the appropriate Mohave County Offices, including the Sheriff's Sub-Station located in within NLH permit area. The type of materials and the location where they have been made available or distributed will be documented in the Annual Report.	03/17	03/18
Part 6.4.1.2	Mohave County staff will distribute information to the general public and to specific targeted audiences.	Provide educational materials associated with the pollution prevention and stormwater management on a construction site to the public and those applying for permits as part of the development review process and general public assistance. The type and amount of materials distributed will be tracked and documented in the Annual Report.	03/18	09/21
Part 6.4.1.2	Mohave County will distribute Information to the general public and to specific target audiences	Provide a link for the Mohave County Stormwater Web page to HOAs, community volunteer groups, and non-profit organizations so that they can add the information to their web pages or social media pages allowing their followers access to information regarding the Mohave County SWMP. The distribution of this URL and where the it was added will be documented as part of the Annual Report.	03/18	09/21



Table 1.1: Public Education and Outreach - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.1.3	Mohave County will modify ineffective messages or distribution techniques.	Review, a minimum of once per year (1/yr.), the web-pages and update content as necessary. Revisions made to the information presented will be summarized as part of the Annual Report	03/18	09/21
		Review the database of educational material and its adopted brochures and educational materials to ensure it is up-to-date and reflects its target audience. Revisions made to the information presented will be summarized as part of the Annual Report	03/18	09/21
		Review, a minimum of once per year (1/yr.), the database used to generate the direct mailing list. The number of revisions to the database will be summarized as part of the Annual Report.	03/18	09/21
Part 6.4.1.4	Mohave County staff will document the Public Outreach Program messages and their effectiveness.	Track the number of brochures distributed via direct mailing. The number will be reported within the Annual Report.	03/18	09/21
Part 6.4.1.4	Mohave County staff will document the Public Outreach Program messages and their effectiveness.	Track using a web page counter, the number of hits on the Storm Water Management Web pages. The number of hits will be reported as part of the Annual Report.	03/18	09/21



Table 1.1: Public Education and Outreach - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.1.4	Mohave County staff will document the Public Outreach Program messages and their effectiveness.	Record the number of brochures and other educational materials distributed directly to public at the County Offices. The number of distributed materials will be reported as part of the Annual Report.	03/18	09/21
Part 6.4.1.4	Mohave County staff will document the Public Outreach Program messages and their effectiveness.	Following the first year of the permit implementation, place on the website a survey request, which inquires if the information presented on the web page was helpful. The results of this survey will be included in the Annual Report.	03/18	09/21
Part 6.4.1.4	Mohave County staff will document the Public Outreach Program messages and their effectiveness.	Following the first year of permit implementation, as part of the Development Review Process, solicit feedback on the information provided to the developers and contractors provided during the first submittal of the development plan. The results of this survey will be documented within the Annual Report.	03/18	09/21
Part 6.4.1.4	Mohave County staff will document the Public Outreach Program messages and their effectiveness.	Review, during the second permit year and every subsequent two-year period thereafter, the survey results from the website, and feedback from contractors and developers for the purpose of accessing the effectiveness of the message. The results of this review will be presented in the Annual Report along with a discussion of any revisions made to the brochures, web page information or educational material.	03/19	09/21



Table 1.2: Public Education and Outreach - Additional Information

Permit Citation	Plan
Part 6.4.1	Rjonn Burns – Mohave County Flood Control District, will serve as the main point of contact for the implementation of the Public Education and Outreach aspects of the SWMP. Tim Walsh - Mohave County Development Services, and <a href="#">Steve Latoski</a> – Mohave County Public Works, will assist in its implementation.
Part 6.4.1.1	The privately owned property within the Mohave County MS4 permit area is almost entirely developed with single-family housing, small commercial businesses, and a series of small parcels owned by a privately operated water utility. There is no heavy industry within the permit area. In addition, there aren't any schools, libraries or County owned/operated community centers or gathering places. The lone County-owned facility is a sheriff substation, located in the NLH region. Based on this, the targeted audiences consist of residential and commercial developers/contractors, automotive and boat repair, service and storage facilities, and homeowners and/or homeowner's associations. The general population will be made aware of the hazards of improper disposal of chemicals and household products such as, but not necessarily limited to, paints, solvents, pesticides, and animal waste. Given the presence of equestrian-zoned lots, additional information targeting the population associated with this use will be included in the educational materials. Because there aren't any schools or libraries within the MS4 area, but instead these facilities are found within the incorporated limits of Lake Havasu City, distribution of educational material for children may be limited. Special school events at local schools outside the MS4 area will be used as a means to educate the children living in and around the MS4 area. Mohave County will place information on its web pages, and place it at the County Facilities, where appropriate.
Part 6.4.1.2	Specific target audiences, such as residential and commercial developers/operators, restaurants, service stations, and/or homeowner's associations, were selected because they are representative of the character and make-up of the community. Targeted audiences that represent the business activities within the community will be made aware of hazards and costs of improper disposal of construction wastes, sedimentation and erosion, cooking grease, gasoline spills, paints, solvents fiberglass etc., as appropriate to the industry. Business that potentially engage in activities that could fall under AZPDES Industrial Non-Mining Multi-Sector General Permit (i.e. automotive repair, marine vehicle repair) will be provided with additional information regarding the need to apply for this permit as well.



Table 1.2: Public Education and Outreach - Additional Information (cont.)

Permit Citation	Plan
Part 6.4.1.3	<p>Public education and outreach will be conducted by a variety of methods that may include in-service training programs, distribution of brochures, newspaper notification, and meetings with residents, business owners and homeowner’s associations. Mohave County staff, as appropriate, will conduct meetings or deliver materials to targeted audiences. This information will be reviewed for effectiveness with input from the public being sought via direct inquires or indirect surveys.</p> <p>Stormwater web pages will be added to Mohave County website. The web page will address relevant stormwater topics. Documents related to the County’s stormwater program, including the SWMP, NOI, stormwater related ordinances and policies will be made available on the website for review, use and download. Storm water related links to other public and/or non-profit organizations will be provided to supplement the information presented on the web pages. This information will be reviewed to ensure it is up-to-date and to verify if it is being used as a resource by the public.</p>



## MCM 2. Public Involvement/Participation

Table 2.1: Public Involvement and Participation - BMPs and Measurable Goals

Permit Citation	BMP(s)	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.2.1	Mohave County staff will notify the Public of the SWMP via public notification.	Place an announcement in the local newspaper, notifying the public of the implementation of the SWMP. A copy of the public notification will be provided in the first year's Annual Report.	03/17	05/17
Part 6.4.2.1	Mohave County staff will notify the Public of the SWMP via public notification.	Provide a link on the Mohave County web page that will allow viewing of the SWMP. The number of times this link is accessed will be tracked and reported as part of the Annual Report.	03/17	09/21
Part 6.4.2.2	Mohave County staff will annually provide the public an opportunity to participate in the review of the SWMP.	Provide on the stormwater web pages, an email address that will allow the public to ask questions or comment on the SWMP. Questions, comments, responses and actions taken will be tracked and report as part of the Annual Report.	03/17	09/21
Part 6.4.2.2	Mohave County staff will annually provide the public an opportunity to participate in the implementation of the SWMP.	Provide on the website an online form in which the public can file a stormwater complaint. The number of complaints will be tracked and reported as part of the Annual Report.	03/17	09/21
Part 6.4.2.3	Mohave County staff will report on the activities undertaken to provide public participation.	Create a web page that provides information on where to dispose of common Household Hazardous Waste. The number of times this web page was used will be tracked with the results reported as part of the Annual Report.	03/17	09/21



Table 2.1: Public Involvement and Participation - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.2.3	Mohave County staff will report on the activities undertaken to provide public participation.	Provide, as part of the E.R.A.C.E. program, a cleanup event(s) within the limits of the MS4 Permit Area. The events location(s), the date(s) and the time(s) will be reported as part of the Annual Report.	03/17	09/21
Part 6.4.2.3	Mohave County staff will report on the activities undertaken to provide public participation.	Provide, as part of the Mohave County Public Works Department Trash Collection Program, a cleanup event(s) within the limits of the MS4 Permit Area. The events location(s), the date(s) and the time(s) will be reported as part of the Annual Report.	03/17	09/21
Part 6.4.2.3	Mohave County will report on the activities undertaken to provide public participation.	Provide, as part of the E.R.A.C.E. program, a community awareness presentation within proximity of the MS4 Permit Area. The date(s), time(s), target audience, and number of attendees will be reported as part of the Annual Report.	03/17	09/21
Part 6.4.2.3	Mohave County will report on the activities undertaken to provide public participation.	Provide the public access to the data collected by its rain and discharge gauges for the purpose of reviewing stormwater runoff within the MS4. Access to this web page from the stormwater web page link will be tracked and the statistics reported as part of the Annual Report.	03/17	09/21
Part 6.4.2.3	Mohave County will report on the activities undertaken to provide public participation	Provide, as part of the Litter Removal Program, a community events(s) road clean up within the MS4 Permit area. The event location(s), date(s) and results will be reported as part of the Annual Report.	03/17	09/21



Table 2.2: Public Involvement and Participation - Additional Information

Permit Citation	Plan
Part 6.4.2	Rjonn Burns – Mohave County Flood Control District, will serve as the main point of contact for the implementation of the Public Involvement and Participation aspects of the SWMP. Tim Walsh - Mohave County Development Services, and <a href="#">Steve Latoski</a> – Mohave County Public Works, will assist in its implementation.
Part 6.4.2.1	The public notification will be published in the Today’s News-Herald and the Kingman Daily Miner. It will also be provided electronically via the Mohave County Website.
Part 6.4.2.1	The SWMP and NOI will be provided electronically on the Mohave County Website along with links to other sources of information.
Part 6.4.2.2	Included as part of the contact information for the stormwater web page system, an email address and a general Mohave County Flood Control District phone number will be provided to allow for the public to ask questions and make comments either electronically or verbally. In addition, generally speaking Mohave County meetings are open to the public and the public can attend and voice comments on the proceedings. All relevant public comments are considered. In some instances, the public is invited to apply to a committee or commission so that the citizens’ ideas and voices can be provided to the elected officials. Interested applicants may apply in writing. Applicants are interviewed by appropriate Mohave County staff and selected based on specific criteria.
Part 6.4.2.3	In similar fashion to what is currently being provided by Lake Havasu City as part of their MS4 Program, Mohave County will provide the names and addresses of the business within the Lake Havasu City area that collect and dispose of various types of materials. This information will be added directly to the web pages created for the Storm Water Management Program. The information will be reviewed quarterly to ensure that it is up-to-date.
Part 6.4.2.3	Mohave County Department of Public Works currently provides opportunities for public involvement through existing volunteer cleanup efforts. <del>Programs</del> such as the E.R.A.C.E. and trash pick-up efforts. <del>or</del> Adopt-a Wash/Adopt-a-Road programs or as potentially part of a visual inspection program monitors. Participants in the monitoring programs may come from local homeowner’s associations, philanthropic organizations, business owners or interested citizen <u>s</u> of the community who may wish to be involved. GIS shapefiles of the drainage facilities in the permit area have been prepared in preparation for the programs along with a direct link to the Mohave County ALERT system, which records precipitation and runoff at set locations adjacent to the designated MS4 areas. The volunteer program will be implemented as early as 09/17 with the intent of building up support and involvement over the course of the permit.





### MCM 3. Illicit Discharge Detection and Elimination

Table 3.1: Illicit Discharge Detection and Elimination - BMPs and Measurable Goals

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.3.	Mohave County staff will implement an IDDE plan to find and reduce to the MEP non-stormwater discharges within the MS4 permit area.	<p>Submit a Stormwater Management Ordinance (SMO) that includes an illicit discharge detection and elimination plan (IDDEP) for review and approval to the Mohave County Board of Supervisors. A draft copy of the will be made available to the public for review on the Mohave County Stormwater Quality Web pages. The exact URL and date the draft copy of the SMO was uploaded to the Mohave County Website will be documented in the Annual Report.</p> <p>Adopt an SMO that at a minimum includes the requirements listed in Part 6.4.3 of the permit. A Draft copy of the SMO will be made available to the public for review on the Mohave County Stormwater Quality Web pages. The exact URL and date the adopted version of the IDDEP was uploaded to the Mohave County Website will be documented in the Annual Report.</p>	03/17	9/17
			9/17	3/18
Part 6.4.3.4	Mohave County will implement a system to report illicit discharges in its MS4.	Create an electronic form on the Mohave County Stormwater Web page, and the Mohave County main web page that allows the public to report an illicit discharge. The number of complaints reported and the actions taken will be documented as part of the Annual Report.	03/17	9/21



Table 3.1: Illicit Discharge Detection and Elimination - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.3.4	Mohave County will implement a system to report illicit discharges in its MS4.	Provide a phone number and/or email address that allows the public to report an illicit discharge. The number of complaints reported using this system and actions taken will be documented as part of the Annual Report.	03/17	9/21
Part 6.4.3.4 & Part 6.4.3.10	Mohave County will implement a system to reduce to the MEP illicit discharges in its MS4.	Train existing staff on the SMO and the procedures for following up on an illicit discharge complaint and steps available to them in enforcement of the illicit discharge detection and elimination program. The date, time and number of attendees will be documented in the Annual Report.	9/17	3/18
		Train, during the probationary period, new staff on the SMO and the IDDEP, procedures on following up on an illicit discharge complaint reported via the website, and steps available to them in enforcement of the IDDEP. The hiring date, training date, and number of attendees will be documented in the Annual Report.	3/18	9/21
		Provide annual training for personnel regarding Mohave County's SMO and IDDEP. The training date, number of attendees and type of training will be documented in the Annual Report.	3/18	9/21



Table 3.1: Illicit Discharge Detection and Elimination - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.3.5	Mohave County staff will respond to illicit discharges reports.	Investigate reports from the public of illicit discharges or those discharges identified during the Visual Monitoring Inspections. The investigation and actions taken will be documented using the forms provided as part of the IDDEP. The results of the investigation will be documented in the Annual Report.	3/18	9/21
Part 6.4.3.5	Mohave County staff will use enforcement to remedy illicit discharges that occur in its MS4.	Issue citations to responsible parties, requiring immediate cessation of discharges. If needed seek legal action in accordance with the adopted SMO. The citations, actions and remedies will be documented in the Annual Report.	3/18	9/21
Part 6.4.3.8 a)	Mohave County will implement a dry weather visual monitoring program.	Inspect the MS4 outfalls in accordance with the IDDEP. The findings of the inspections will be documented in the Annual Report and the Discharge Monitoring Report.	09/17	09/21
Part 6.4.3.8 b)	Mohave County will implement a wet weather visual monitoring program.	Inspect during, or as soon as practical after a stormwater runoff event, five (5) representative MS4 outfalls in accordance with IDDEP. The number of inspections will be four (4) per year, with two (2) in each season. The findings will be documented in the Annual Report and a Discharge Monitoring Report (DMR).	09/17	09/21



Table 3.1: Illicit Discharge Detection and Elimination - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.3.8 c)	Mohave County will conduct follow-up screenings of suspected illicit discharges.	Inspect the MS4 outfalls and the potential point source of illicit discharges in accordance with the follow-up screening schedule defined in the IDDEP. The number of follow-up inspections will be documented in the Annual Report.	09/17	09/21
Part 6.4.3.11	Mohave County will inventory commercial and industrial facilities within the MS4	Map and catalogue the commercial and industrial businesses located within the MS4. The effort will include determining contact names, address and type of operations. Businesses that could potentially require the Multi-Sector General Permit will be identified. The number of commercial and industrial businesses operating within the MS4 and those <del>that</del> whose operations fall within the MSGP will be documented within the Annual Report.	3/17	3/18
		Review the mapped information for the commercial and industrial businesses in the MS4 to ensure it contains the current information. Report any revisions to the data as part of the Annual Report.	3/18	9/21
Part 6.4.3.11	Mohave County will inform the commercial and industrial facilities existing AZPDES/NPDES permits.	Mail brochures to the businesses operating within the MS4 that provide information regarding the existing AZPDES & NPDES and the requirement for certain industries to gain coverage under the ADEQ's MSGP.	3/18	9/21



Table 3.2: Illicit Discharge Detection and Elimination - Additional Information

Permit Citation	Plan
Part 6.4.3	Rjonn Burns – Mohave County Flood Control District, will serve as the main point of contact for the implementation of the IDDEP. The Flood Control District will provide information on when a potential runoff event may be occurring using the ALERT system. The District will also assist with training staff and compiling the results of the Visual Monitoring Program. Steve Latoski – Mohave County Public Works, will serve as the point of contact for the Public Works Department. The Public Works Department will provide the resources for Visual Monitoring when necessary.
Part 6.4.3.5.	The investigation report will be formatted to provide the following information, 1) description of discharge 2) estimated duration of discharge 3) method of discovery 4) date of discovery 5) date of elimination 5) mitigation or enforcement action 6) party responsible for the illicit discharge 7) estimated volume of discharge. If unknown, an explanation will be provided. This form will be included with the Annual Report.
Part 6.4.3.6	A list of non-stormwater discharges allowed within Mohave County’s MS4 has been provided on Page 4 of this document. As part of the investigation, Mohave County staff will compare the source of the reported discharge with this list to determine if it is an illicit discharge or an allowable non-stormwater discharge.
Part 6.4.3.8	The outfalls are identified and mapped as part of the MS4 mapping effort. The list of outfalls has been provided on Page 4.
Part 6.4.3.8	An inspection form for the visual monitoring efforts will be developed as part of the IDDE program. The form will be used to document the 1) outfall identification, 2) inspector, 3) time of inspection, 4) inspection date 5) weather conditions 6) estimated flow rate, 7) odor 8) color 9) clarity 10) debris 11) floatables and 12) foam. If necessary, the samples will be sent to an approved lab for analytic testing. This form will be included with the Annual Report.
Part 6.4.3.8	The investigation report will be formatted to provide the following information, 1) description of discharge 2) estimated duration of discharge 3) method of discovery 4) date of discovery 5) date of elimination 5) mitigation or enforcement action 6) party responsible for the illicit discharge 7) estimated volume of discharge. If the above information is found to be unknown or not applicable, an explanation will be provided. This form will be included with the Annual Report.



Table 3.2: Illicit Discharge Detection and Elimination - Additional Information (cont.)

Permit Citation	Plan
Part 6.4.3.8 a) and b)	Mohave County maintains rainfall and discharge gages in proximity of the MS4 permit areas. The gages will be used to alert the Mohave County Flood Control District and Mohave County Public Works of a potential runoff event. Using this information Mohave County Public Works can either schedule a visual dry weather outfall inspection or implement a visual stormwater inspection.
Part 6.4.3.8 b)	Weather permitting, Visual Stormwater Monitoring shall occur a minimum of twice (2 times) per wet season as defined by the following dates. <ul style="list-style-type: none"> <li>• Summer: June 1 – October 31</li> <li>• Winter: November 1 – May 31</li> </ul>
Part 6.4.3.8 b)	Given the location of the MS4 permit area in relation to Mohave County Development Services Facility in Kingman, the County may consider a method of collecting data remotely using in -situ collection systems and cameras placed at the outfalls. Such a remote system will be evaluated following the first year of permit implementation. Should a remote system be implemented, the BMPs and goals will be modified and a revised NOI will be submitted.
Part 6.4.3.11	The mapping effort will be conducted using ArcMap. The information will be stored as a shapefile, which will be available to Mohave County staff through its Intranet system.
Part 6.4.3.11	Brochures created to inform the public will be mailed directly to the business as part of the target audience, public outreach efforts discussed above. The brochures will be mailed annually to the businesses.



## MCM 4. Construction Site Stormwater Runoff Control

Table 4.1: Construction Site Stormwater Run-off Control - BMPs and Measurable Goals

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.4.1	Mohave staff will assess existing regulatory measures for purpose of developing, implementing and enforcing a construction activity program to reduce to the MEP pollutant discharges from construction activities.	Review and revise, as needed, the existing measures (i.e. ordinances, manuals and checklists to include the requirement for addressing construction site storm water quality and the submittal of a Storm Water Pollution Prevention Plan (SWPPP) for sites within the MS4 area that disturb one (1) or more acres of land or less 1 acre, but part of a common plan of development or sale. Revisions will be documented as part of the Annual Report.	03/17	03/18
		Review and revise, as needed, design manuals to reference the Stormwater Management Ordinance (SMO) as it pertains to controlling storm runoff for construction sites within the MS4 area that meet the disturbance criteria. Revisions will be documented as part of the Annual Report.	03/17	03/18
		Review and revise, as needed, current checklists to include the requirement for SWPPP for construction sites located within the MS4 area that meet the disturbance criteria. Revisions will be documented as part of the Annual Report.	03/17	03/18



Table 4.1: Construction Site Stormwater Run-off Control - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.4.	Mohave County staff will develop a Stormwater Management Ordinance (SMO) that includes regulations, and enforcement procedures for construction activities within the MS4 Area.	Prepare a Stormwater Management Ordinance (SMO) to reduce stormwater runoff and pollutants from construction activities both for publicly and privately projects within the MS4. The date of implementation of this program will be reported in the Annual Report.  Evaluate the program on an annual basis to ensure it meets the objective of reducing construction activity stormwater runoff. Any revisions to the program implemented during a given permit year will be reported in the Annual Report.	03/17	03/18
			03/18	09/21
Part 6.4.4.2 a.	Mohave Board of Supervisors will, implement and enforce a construction activity program to reduce to the MEP pollutant discharges from construction activities.	Adopt a SMO for the implementation and enforcement of a construction site stormwater runoff control program, including the requirement to submit for approval of a SWPPP as part of the development approval and design processes. The date the SMO is adopted will be reported in the Annual Report.	03/31	03/18
Part 6.4.4.3	Mohave County will institute a training program for personnel responsible for SWPPP reviews and inspections.	Train, on an annual basis, reviewers and inspectors to ensure they are qualified to implement the Construction Activity Stormwater Runoff Program. The types of training, dates of training and number of attendees will be documented in the Annual Report.	03/18	09/21





Table 4.1: Construction Site Stormwater Run-off Control - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.4.4	During the approval process, Mohave County review staff will meet with private landowners, developers and contractors to assist them in preparing a proper SWPPP, implementing the plan and understanding what to expect during an inspection.	Track the number of permit reviews that required a SWPPP. Report the number of these reviews as part of the Annual Report.	03/18	09/21
Part 6.4.4.5	Mohave County will determine the frequency of inspections necessary to ensure that each construction site is meeting requirements outlined in the approved SWPPP.	Establish a minimum number of inspections needed to ensure compliance with the permit, then as part of the SWPPP review and approval, use the criteria listed in Part 6.4.4.2 to establish the appropriate number of inspections. A minimum of one inspection per site will be implemented.	03/18	09/21
Part 6.4.4.5	Mohave County will inspect construction sites within the MS4 area that meet the area of disturbance criteria in accordance with the inspection schedule.	Track the number of inspections of construction sites within the MS4 Area. Determine if the frequency matches what was documented in the SWPPP and if the number is sufficient to ensure compliance with the permit. Document the number of inspections as part of the Annual Report and state if the frequency was changed based on the results of the inspections.	03/18	09/21



Table 4.2: Construction Activity Stormwater Runoff Control - Additional Information

Permit Citation	Plan
Part 6.4.4	Rjonn Burns – Mohave County Flood Control District, will serve as the main point of contact for the implementation of the Construction Site Storm Stormwater Runoff Control aspects of the SWMP. Tim Walsh - Mohave County Development Services, and <a href="#">Steve Latoski</a> – Mohave County Public Works, will assist in its implementation.
Part 6.4.4.1	Mohave County Board of Supervisors will serve as the authoritative arm responsible for the adoption of the SMO.
Part 6.4.4.2	Mohave County’s Construction Activity Stormwater runoff control program will be developed as a cooperative effort between the departments mentioned above. The program will address, at a minimum, the requirements presented in Part 6.4.4.2 a. – 6.4.4.2 h. The program will incorporate the adopted ordinances, plan review and approval processes, new public issued submittal checklists, and standardized procedures for performing construction stormwater runoff and pollution control specific inspections.
Part 6.4.4.2 c	Enforcement of the SMO and subsequent policies will be the responsibility of Mohave County Development Services through the Building and Code Enforcement Divisions. The Mohave County Board of Supervisors may be called upon to assist in resolving compliance issues or, in the extreme cases, request legal action in accordance with processes laid out in the adopted ordinances.
Part 6.4.2 b	The inventory of construction activities will be part of the tracking and record keeping process specified in Part 6.4.4.5.
Part 6.4.4.2 g	Good housekeeping measures designed to control construction site waste, hazardous materials, litter and sanitary waste will be incorporated in the requirements for a Storm Water Pollution Prevention Plan.
Part 6.4.4.4	Mohave County staff will educate the public during the review process and work with each individual to ensure that the SWPPP submitted for review meets the requirements. This education process will be a continuous effort as it will also carry over to contractors, private land owners and developers during the inspection process.



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

Table 5.1: Post-Construction Stormwater Management - BMPs and Measurable Goals

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.5.1	Mohave County staff will evaluate regulatory mechanism(s) to address post-construction runoff from new development and redevelopment projects.	Review current, as needed, the existing measures (i.e. ordinances, manual and checklists) associated with development and/or redevelopment for the purpose of determining how these documents address controlling post-construction runoff. A list of measures that were reviewed will be part of the 2017 Annual Report	03/17	03/18
Part 6.4.5.1	Mohave County will adopt an SMO and other regulatory methods that address post-construction runoff from new development and redevelopment.	Submit the SMO and revised regulatory mechanisms to the Mohave County Board of Supervisors for adoption. SMO and revised regulatory mechanisms will be linked to the Stormwater Web page for review, use and download. The date that they are linked to the website will be documented in the 2018 Annual Report.	03/18	06/18
		Adopted ordinances and other regulatory mechanisms will be provided for review on the Mohave County Website. The date of adoption will be documented in the 2018 Annual Report.	06/18	9/18



Table 5.1: Post-Construction Stormwater Management - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.5.1	Mohave County staff will implement the SMO and/or other mechanism within the specified time frame.	Train existing staff on the new SMO and regulatory mechanisms within two (2) months following the adoption of the new regulatory mechanisms. The training for existing staff will be completed such that implementation will begin within twenty-four months of effective date of the permit.	09/18	11/18
		Train staff hired after the initial implementation date during their probationary period.	09/18	09/21
		Report staff training, noting date of training, training topics and number of attendees as part of the Annual Report.	09/18	09/21
Part 6.4.5.2	Mohave County Public Works will design, implement and maintain a site plan review process for evaluating post-construction stormwater controls on new development and redevelopment permit applications.	Review all new development and redevelopment site plans within the MS4 area for post-construction stormwater controls as required as part of the adopted regulatory mechanisms. Number of such reviews will be tracked and the results will be submitted as part of the Annual Report.	09/18	09/21



Table 5.1: Post-Construction Stormwater Management - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.5.3	Mohave County staff will inventory all post-construction structural storm water control measures installed or implemented within the permit area on private facilities.	Add the location and description of the post-construction structural stormwater control measures installed or implemented with the permit area at new development or redevelopment sites. Number of added measures will be reported as part of the Annual Report.	09/18	09/21
Part 6.4.5.3	Mohave County staff will inventory all post-construction structural stormwater control measures installed or implemented within the permit area on public facilities.	Add the location and description of post-construction stormwater control measures installed or implemented on public facilities within the permit area. Number of measures added to the inventory will be tracked as part of the Annual Report.	9/18	09/21
Part 6.4.5.4	Mohave County staff, using regulatory measures, will delegate the responsibility of inspecting post-construction stormwater controls on private property to ensure the long-term operation and maintenance of these features.	Require, as part of the standard notes, a general note to all development and redevelopment final plats recorded within the MS4 permit area, that delegates the responsibility of inspecting, and maintaining post-construction stormwater controls. Number of final plats that had this general note added will be reported as part of the Annual Report.	9/18	9/21



Table 5.1: Post-Construction Stormwater Management - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.5.4	Mohave County, using regulatory measures, will require inspections and inspection reports to be filed with the County for the purpose of ensuring long-term operation and maintenance of post-construction stormwater controls on private property.	Collect annual inspection and maintenance reports from private property owners that have installed post-construction stormwater control measures as part of their development. The number of inspections will be reported as part of the Annual Report.	09/18	09/21
		Send notifications to property owners stating that their inspection reports are due or past due. The number of notifications sent will be reported as part of the Annual Report.	09/18	09/21
		Cite private property owners for failure to inspect or maintain their post-construction stormwater controls. Number of citations will be reported as part of the Annual Report.	09/18	09/21
Part 6.4.5.4	Mohave County staff will ensure the long-term operation of post-construction stormwater controls by performing inspections.	Inspect post-construction stormwater control measures for delinquent property owners. County inspections will occur following two (2) years of non-compliance with the request and notification for inspection report. The number of such inspections will be reported as part of the Annual Report.	09/19	09/21



Table 5.1: Post-Construction Stormwater Management - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.5.4	Mohave County staff will ensure the long-term operation of post-construction stormwater controls by inspecting, preparing inspections reports and where necessary maintaining the facilities located on municipal sites within the MS4 Permit Area.	Perform an inspection and prepare a report on the post-construction stormwater control BMP's for the public facilities located within the MS4 Permit Area. The results of the inspection information will be incorporated into the Annual Report.	09/18	09/21
		Maintain and repair the post-construction control measures based on the inspection report. Maintenance activities and the date the maintenance occurred will be reported as part of the Annual Report.	9/18	9/21



Table 5.2: Post-Construction Stormwater Management - Additional Information

Permit Citation	Plan
Part 6.4.5	Rjonn Burns – Mohave County Flood Control District, will serve as the main point of contact for the implementation of the Post-Construction Stormwater Management aspects of the SWMP. Tim Walsh - Mohave County Development Services, and <del>Steve Latoski</del> – Mohave County Public Works, will assist in its implementation.
Part 6.4.5.1	The Stormwater Management Ordinance will include, in some form, the requirement for post-construction stormwater management measures. This requirement will be referenced in the following documents, 1) Drainage Design Manual, 2) Flood Control Ordinance, 3) Building Ordinance, 4) Health and Safety Code and 5) Zoning Code as part of the implementation and enforcement processes.
Part 6.4.5.1	Mohave County Flood Control District, Mohave County Public Works and Mohave County Development Services will be responsible for revising or creating, if necessary, the mechanisms that will serve to regulate post-construction stormwater.
Part 6.4.5.1	Mohave County Board of Supervisors will serve as the governing entity responsible for adopting the ordinances and other regulatory measures needed for compliance with the permit.
Part 6.4.5.2	Mohave County Flood Control District and Mohave County Development Services will implement, educate, review and enforcement the Post-Construction Stormwater Management regulations and policies.
Part 6.4.5.3	Mohave County Flood Control District and Mohave County Development Services will enforce the requirement of long-term operation and maintenance of the post-construction stormwater control measures through citing property owners for not providing inspections reports. The civil penalty may come in the form of charging the owner for the cost of County crews inspecting the post-construction stormwater control measures and reporting the findings. If maintenance is required to bring the stormwater control measures back into compliance, the cost of doing so may be charged to the property owner.
	Mohave County Public Works will provide inspection assistance, as requested, to ensure long-term operation and maintenance of the post-construction stormwater control measures.
Part 6.4.5.3	Mohave County Public Works will be responsible for implementation, education, review, and maintenance of the BMPs implemented at the public facilities to ensure their long-term operation and maintenance.





Pollution Prevention/Good Housekeeping for Municipal Operations

Table 6.1: Pollution Prevention/Good Housekeeping - BMPs and Measurable Goals

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.6.a	Mohave County staff will develop an inventory of municipal operations within the MS4.	Create a GIS shapefile layer that contains the location of municipal operations within MS4 permit area. The description and location of these facilities will be documented in the Annual Report.	03/17	03/18
Part 6.4.6.a	Mohave County staff will update the inventory of municipal operations that discharge into the MS4.	Review, on an annual basis, the GIS shapefile and add new municipal facilities that began operating within the MS4 permit area. The review will of the facilities will occur in the 3 <sup>rd</sup> Quarter of each reporting year. The inventory will be presented in the Annual Report.	03/18	09/21
Part 6.4.6.b	Mohave County staff will prioritize municipal facilities based on their risk to discharge.	Develop a scale for rating municipal facilities to determine their level of risk for discharging pollutants for the purpose of prioritizing the number of inspections to be performed in a given permit year. The list of ranking criteria will be documented in the initial Annual Report.	09/17	03/18
		Rank municipal facilities and set the number of inspections to be performed. The ranking will be reported as part of the Annual Report.	3/18	3/19
		Review on annual basis the types of municipal facilities and their intended function to prioritize their risk for discharging pollutants. Revisions to the rankings or number of inspections will be stated as part of the Annual Report.	3/18	9/21



Table 6.1: Pollution Prevention/Good Housekeeping - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.6.c	Mohave County staff will implement an inspection schedule for municipally owned and operated facilities.	<p>Inspect the initially inventoried, municipally owned and operated facilities based on the established schedule. The time and frequency of the inspections will be reported in the Annual Report.</p> <p>Mohave County staff will inspect newly identified municipally owned and operated facilities based on the established schedule. The time and frequency of the inspections will be reported in the Annual Report.</p>	09/17	03/18
			03/18	09/21
Part 6.4.6.d	Mohave County staff will update inspection frequency based on inspection findings.	Review on an annual basis the inspection findings, the inventory of municipal owned or operated facilities and update the list of facilities, priority rankings and inspection frequency. Revisions to the priority ranks and subsequent inspection frequency will be noted in the Annual Report.	03/18	09/21



Table 6.1: Pollution Prevention/Good Housekeeping - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.6.e	Mohave County will develop and implement stormwater controls at the municipally owned or operated facilities that are located within the MS4.	Develop a site-specific, stormwater management program (SS-SWMP) for the initially identified facilities. The plans will include controls to reduce to the MEP discharge pollutants as well as elements associated with good housekeeping practices. Once created, the SS-SWMP will be made available to the facility operators directly and via the Stormwater Web pages. The date of completion of the SS-SWMP for the initially identified facilities will be reported in the Annual Report.	09/17	03/18
		Develop a SS-SWMP for newly identified facilities. Once created the SS-SWMP will be made available to the facility operators directly and via the Stormwater Web pages. The date of completion of the SS-SWMP for the newly identified facilities will be reported in the Annual Report.	03/18	03/21



Table 6.1: Pollution Prevention/Good Housekeeping - BMPs and Measurable Goals (cont.)

Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
	Mohave County will implement stormwater controls at the municipally owned or operated facilities.	<p>Implementation of the SS-SWMP for the initially identified facilities will begin within one (1) year of obtaining coverage and span the life of the permit. The date of implementation will be provided in the Annual Report.</p> <p>Implementation of the SS-SWMP for the newly identified facilities will begin within one (1) year of the creation of the plan. The date of implementation will be provided in the Annual Report.</p>	03/18  03/19	3/19  03/21
Part 6.4.6.f	Mohave County staff will develop and implement a training schedule for to incorporate pollution prevention and good-housekeeping techniques into everyday operations and maintenance activities	Conduct annual training for personnel working at the municipal facility. The training could include the information presented in the SS-SWMP, as well as aspects of good housekeeping, and pollution prevention. Training topics, frequency, and number of attendees will be documented as part of the Annual Report.	03/17	09/21



Table 6.1: Pollution Prevention/Good Housekeeping - BMPs and Measurable Goals (cont.)


Permit Citation	BMP	Measurable Goal(s)	Implementation	
			Start Date	End Date
Part 6.4.6.g	Mohave County staff will develop maintenance activities, maintenance schedules, and long-term inspection procedures for structural and non-structural stormwater controls.	Adopt as part of the SS-SWMP maintenance activities, maintenance schedules and long-term inspection procedures for structural and non-structural stormwater controls for the initially identified, municipally owned or operated, facilities. The date of development of the SS-SWMP will be provided in the Annual Report.	03/17	03/18
		Adopt as part of the SS-SWMP maintenance activities, maintenance schedules and long-term inspection procedures for structural and non-structural stormwater controls for the newly identified, municipally owned or operated, facilities. The date of development of the SS-SWMP will be provided in the Annual Report	03/18	03/21
Part 6.4.6.g	Mohave County staff will develop maintenance activities, maintenance schedules, and long-term inspection procedures for structural and non-structural storm water controls.	Cleaning/Maintain the structural components mapped as part of the MS4 and the post-development stormwater components constructed as part of the SS-SWMP. The dates of the cleaning/maintenance operations will be documented in the Annual Report.		



Table 6.2: Pollution Prevention/Good Housekeeping - Additional Information

Permit Citation	Plan
Part 6.4.6.a	It is anticipated that the Mohave County Sheriff's Office and future Mohave County Department of Public Works maintenance yard require a SS-SWMP, which will contain Pollution and Prevention/Good Housekeeping program.
Part 6.4.6.b	Mohave County Public Works, once trained, will assist in the inspections of the municipally owned or operated facilities.
Part 6.4.6e	The SS-SWMP may be revised to reflect changes in site conditions, site uses or site procedures and personnel. Changes to the SS-SWMP will be summarized in the Annual Report when they are implemented.
Part 6.4.6.f	Rjonn Burns – Mohave County Flood Control District, will serve as the main point of contact for the development and training associated with Pollution Prevention/Good Housekeeping aspects of the SWMP. <a href="#">Steve Latoski</a> – Mohave County Public Works, will serve as main contact for the inspections and oversee the implementation of the SS-SWMP to ensure a long-term operation and maintenance of the controls therein.
Part 6.4.6.g	As part of the training, facility personnel will be given access to either a digital or hard copy version of the SS-SWMP. From this training, the staff will learn to evaluate and assess the SS-SWMP to ensure the measures therein meet the conditions of the facility and the current staffing. If necessary, suggested changes to the SS-SWMP will be brought back to either Rjonn Burns or <a href="#">Steve Latoski</a> for review and approval. Any revisions to the SS-SWMP or the Pollution Prevention/Good Housekeeping measures will be documented as part of the Annual Report.
Part 6.4.6.g	Cleaning/Maintenance Operations will include the removal of sediment, debris, hazardous spills, and trash in and around the mapped MS4 components such as culverts, catch basins, spillways, at-grade crossings, and channels. Street sweepers will be used to remove sediment, debris and trash from the public roadway. These efforts may be assisted by the volunteer groups, who will have the ability to remove trash within the complete right-of-way outside the limits of the paved surface, which are typically inaccessible to the street sweepers. The dates, locations and operations performed will be documented as part of the Annual Report.



Table 6.2: Pollution Prevention/Good Housekeeping - Additional Information (cont.)

Permit Citation	Plan
Part 6.4.6.	Cleaning/maintaining the post-construction stormwater controls will include the removal of sediment, trash and debris, restoring the volume capacity of stormwater quality basins, cleaning trash out of the facilities, and properly disposing of hazardous materials that are not part of the sites operations or that are no longer in use. The dates, locations and operations performed will be documented as part of the Annual Report.
Part 6.4.6.g	The cleaning and maintenance schedule will be established as part of the Good Housekeeping/Pollution Prevention Plan. However, at a minimum the efforts will occur twice a year, prior to the summer and winter wet seasons, or in response to a stormwater quality complaint investigation or routine inspection.



## Staffing and Resources Allocations

The Mohave County Flood Control District, Public Works, Development Services, and Board of Supervisors will share the responsibility for the implementation of the measures described within this SWMP.

Mohave County Flood Control District will serve as the primary contact for the program. In addition, the District will oversee the public outreach and public education efforts, maintain the library of education materials and host the stormwater quality web pages. The District will be responsible for inspecting and maintaining the MS4 components that are located within the public easements dedicated specifically to the District. The District will respond to stormwater quality complaints and concerns submitted by the public. The District will also be responsible for the collection data used to track the goals outlined with the SWMP and for preparing and submitting the Annual Report.

The Mohave County Public Works Department will provide inspection services for the components within the MS4 that lie within the county-maintained right-of-way. In addition, the Department will inspect, operate and maintain post-construction control measures located on County owned or operated, municipal facilities within the MS4. The Department will assist in the public participation events, such as household hazardous waste collection days, brush and bulky collection days and tire collection days.

The Mohave County Development Services will serve as the reviewing entity for new development and redevelopment. Through the permitting processes, Development Services will assist in implementing the construction and post-construction aspects portions of the SWMP. This implementation process will include enforcing the requirements associated with controlling stormwater as well as educating the public on the need for controlling stormwater and the requirements associated with doing so.

The Mohave County Development Services - Code Enforcement Division along with the Mohave County Board of Supervisors will serve as the authoritative arm of the Mohave County Stormwater Management Program. The Board will review and adopt the regulatory measures needed to ensure compliance with the permit as discussed in the SWMP. Mohave County Development Services – Code Enforcement Division will act upon reported violations. The Board will respond to Mohave County staff requests for the undertaking of legal action and when necessary direct the County attorney to pursue legal action in accordance with the adopted Ordinances.

The initial funding for the program including development, implementation, training and enforcement will be through the General Fund and for the most part will utilize County Staff. Other sources such as additional permit review fees may be used to offset the cost of the program.

## Analytical Monitoring

Mohave County's MS4 drains to several named and unnamed washes. At this time, a Total Maximum Daily Load (TMDL) has not been established for any of the receiving waters. Also, the MS4 does not discharge to any impaired waters, not-attaining or Outstanding Waters as designated by ADEQ. Therefore, Mohave County will not sample and analyze the discharge from the MS4 at this time.





## Program Evaluation

Mohave County will evaluate its program's compliance with the permit, as well as the appropriateness of the selected BMPs, in regards to their ability in meeting the objectives of the control measures and defined goals. The evaluation will occur September of each year starting in 2018. The District, in cooperation with the other departments, will evaluate the implementation status of the SWMP components as well as the effectiveness of each component or combination of components. Mohave County will determine how the SWMP needs to be revised, if at all. If the SWMP needs to be revised, Mohave County will notify ADEQ of the revisions or additions. Should components of the SWMP need to be replaced, Mohave County will submit to ADEQ a plan that describes the proposed revisions and explains of why the initial practice is ineffective and why the replacement practice is expected to better achieve the intended management goals. It is understood that ADEQ may require Mohave County to revise the BMPs described in the Annual Report.

## Record Keeping

Mohave County will retain the records required by this permit for a period of no less than three (3) years. The records to be retained include, but are not limited to; information used to develop the requisite programs (i.e. IDDEP etc.), monitoring results, copies of reports, records of screening, illicit discharge complaints and records of the follow-up action undertaken, maintenance records, inspection reports, enforcement action, submitted SWPPP and Post-Construction Plans, Notice of Intent, Site-Specific Stormwater Management Programs (SS-SWMP), previous Storm Water Management Programs (SWMP), Discharge Monitoring Reports (DMR) and Annual Reports.

The public shall be able to review the current SWMP and the Programs Construction electronically via the Stormwater Web page. Back up documentation will be available at the Mohave County Development Services Desk and can be viewed during normal business hours. Copies of information may be obtained at the standard copying rates charged by Mohave County Development Services.

The records (hardcopy and electronic copy) can be accessed at:

Mohave County Flood Development Services  
3250 E. Kino Avenue  
Kingman AZ,  
86409

The ADEQ Director or an authorized representative may request access to the records during normal business hours.



## Discharge Monitoring Report

Starting in 2018 and extending through the life of the permit, Mohave County will summarize the results of its monitoring efforts as part of a discharge monitoring report (DMR). The efforts documented in the DMR will span July 1 to June 30 of the preceding year. The DMR will be submitted to ADEQ no later than September 30.

## Annual Reports

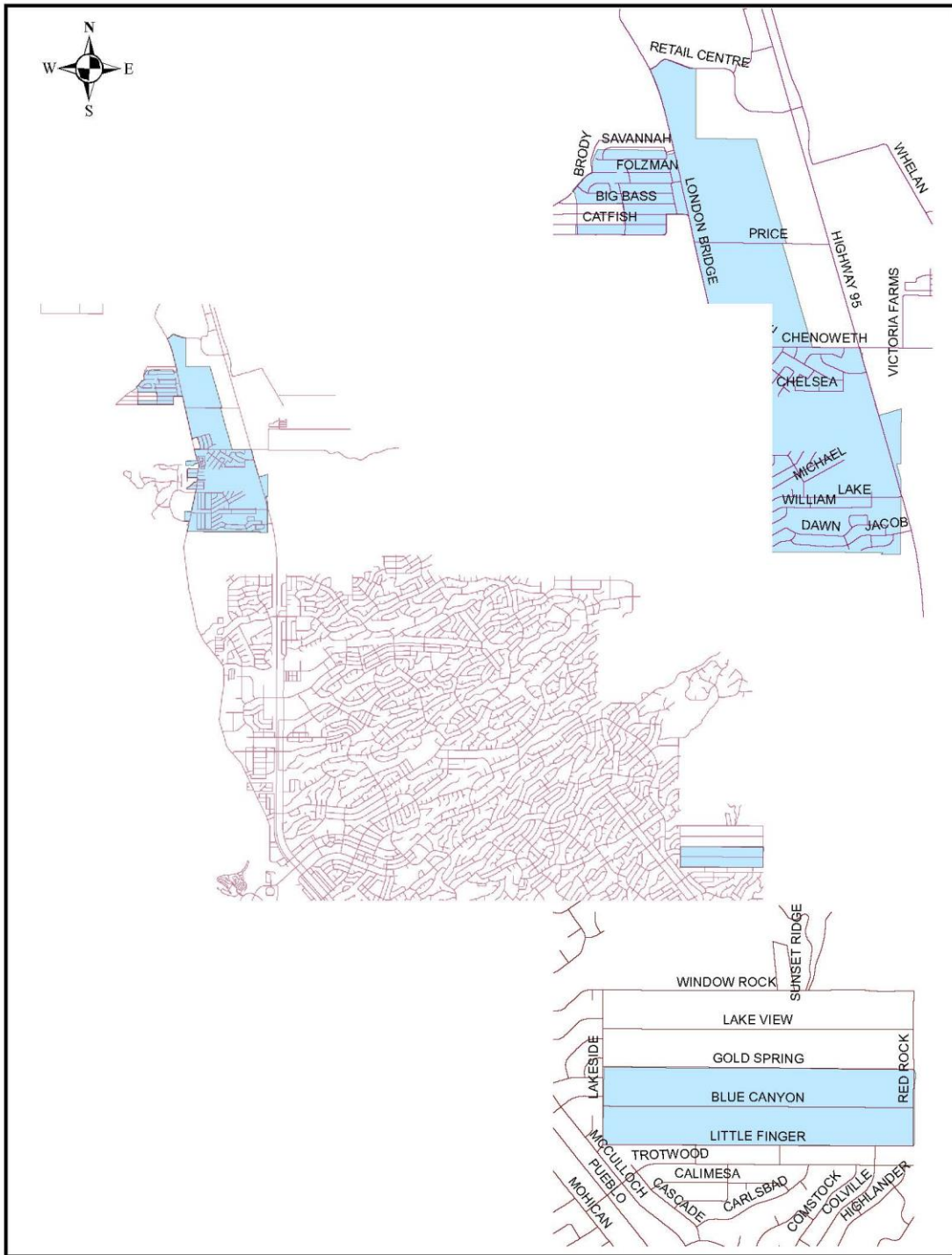
Mohave County will submit an Annual Report to ADEQ by September 30, 2017 for the period of time between March 31, 2017 and June 30, 2017. Starting in 2018, Mohave County will submit additional Annual Reports by September 30<sup>th</sup> of each year for the permit period extending from July 1 through June 30. The report shall at a minimum contain the information listed in parts 8.4 a. – 8.4 of the AZG20016-002. Supporting documents will be attached to the Annual Report, as necessary.

Until such time that an electronic submittal procedure becomes available, the report shall be sent to the following:

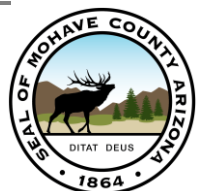
Arizona Department of Environmental Quality  
1110 W. Washington Street, Mail Code 5451A-1  
Phoenix AZ 85007



# Attachment 1 - Jurisdictional Boundaries Map



**Figure 2: Eligible Area of Unincorporated Mohave County**



# Attachment 2 - ADEQ MS4 Permit (AZG2016-002)



# Attachment 3 - Mohave County Notice of Intent



# Attachment 4 - Mohave County Building Safety Codes

## Sections XX – XX

(To be added)



# Attachment 5 - Revised Mohave County Stormwater Ordinance

## Sections XX – XX

(To Be Added)



# Attachment 6 - Revised Mohave County Flood Control Ordinance

## Sections XX – XX

(To Be Added)





# Attachment 7 - Mohave County Review Checklists

## Sections XX – XX

(To Be Added)



# Attachment 8 - Mohave County IDDE Program

(To Be Added)



# Attachment 9 - Mohave County Construction Site StormWater Runoff Control Plan

(To Be Added)



# Attachment 10 - Mohave County Post-Construction Site Storm Water Runoff Control Plan

(To Be Added)



# Attachment 11 - Mohave County Pollution Prevention and Good Housekeeping Plan

(To Be Added)

