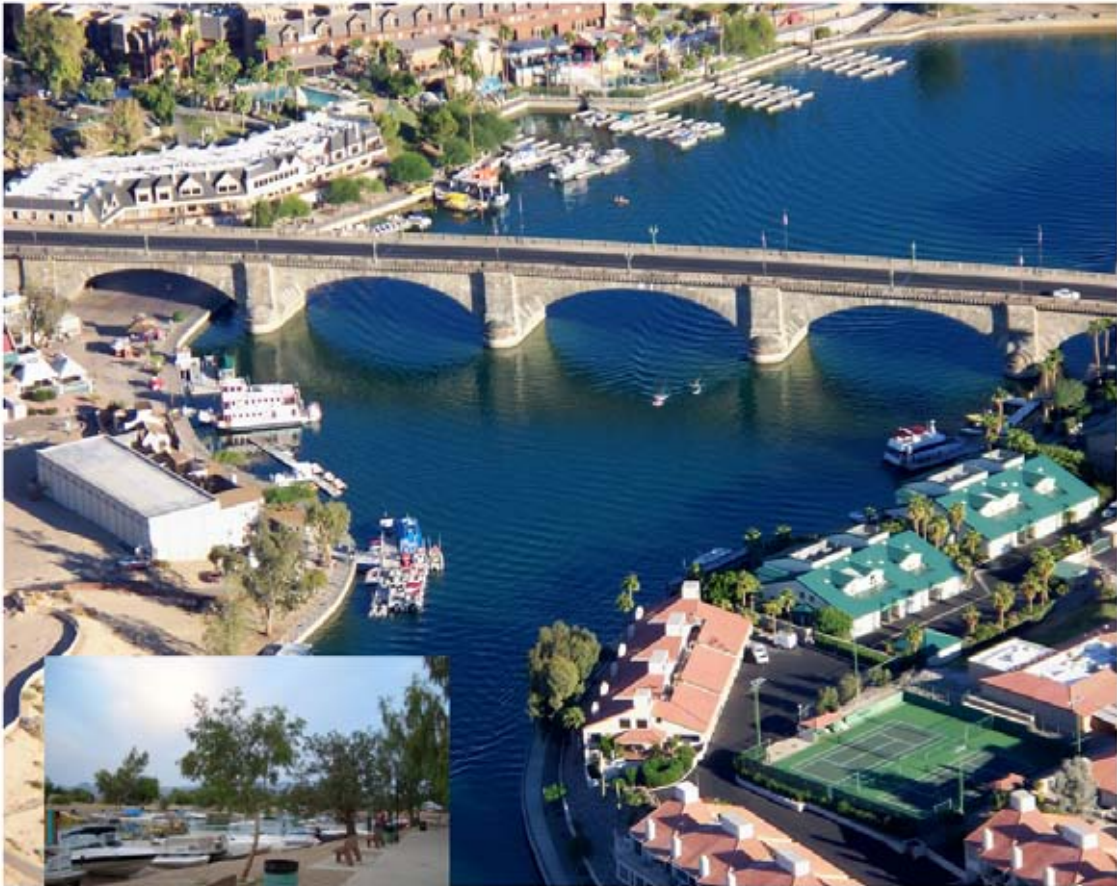


SWMP



LAKE HAVASU CITY'S STORMWATER MANAGEMENT PROGRAM

This report is prepared in accordance to the requirements in the Small MS4 General Permit AZG2002-002 set forth by the Arizona Department of Environmental Quality (ADEQ).

LAKE HAVASU CITY
PUBLIC WORKS DEPARTMENT
(928) 453-6660



STORMWATER MANAGEMENT PROGRAM



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STORMWATER MANAGEMENT PROGRAM



1.0: Introduction

Lake Havasu City has completed this second generation Stormwater Management Program (SWMP) to establish a more useful and up-to-date guide for the future of stormwater management activities throughout the city. This second generation SWMP builds on the City's 2003 SWMP and satisfies the remarks sent by the Arizona Department of Environmental Quality (ADEQ) in their letter dated August 14th, 2007. The program specifically considers the six Minimum Control Measures (MCMs) outlined in the ADEQ General Permit AZG2002-002 for small municipal storm sewer systems (MS4).

The best management practices (BMPs) presented here has been proposed because they address the MCMs, are appropriate for the City of Lake Havasu City's stormwater system, are measurable, are anticipated to make significant improvements in the City's stormwater quality and are achievable. For each BMP, achievable and appropriate goals are delineated along with a schedule indicating frequency of action items, objectives, and a date by which the BMP shall be implemented and established.

STORMWATER MANAGEMENT PROGRAM



2.0: Stormwater Management Plan (SWMP)

2.1: Public Education & Outreach

The purpose of this public education and outreach program is to encourage, educate and involve the citizens of Lake Havasu City in the SWMP. In order to reach citizens with targeted messages regarding the City's SWMP and their role in it, the City will employ educational materials such as pamphlets, brochures and Lake Havasu City's website for an additional location for educational materials.

The targeted pollutants of this SWMP are floatable, including trash, sewage, and illicit discharges including greases and oils. The target audience will be both the City's residents and the large seasonal population. It is estimated that this education program will reach 30,000 people annually. This anticipated public education program represents 54% of the fulltime residents of Lake Havasu City.

An educated public can make significant reduction in targeted pollutants outlined in the Lake Havasu City Stormwater Management Plan.

Responsible Department: Public Works Engineering/Admin. Division
Finance Department

Responsible Position: Jeff LeMire, Public Works Project Manager
Charlene Yarno, Finance Department

STORMWATER MANAGEMENT PROGRAM



2.1.1: Distribute Educational Materials about Stormwater

Lake Havasu City, as part of its public education and outreach activities, will distribute printed educational materials to the City residents. These materials, are an effective medium for educating the general public (including school children), may be procured from the permitting authority or will be generated in-house.

Permit Requirement Citation: Part V, Section B.1.a

Activity: Distribute educational materials via brochures and pamphlets about storm water to City residents.

Objectives: Educate the general public on the City's SWMP and raise general awareness of action the public can take to help protect water quality and minimize impacts of stormwater runoff. They will also provide a number and address for the citizens to contact for questions.

Interim Steps and Schedule:

Produce Educational Materials	June 24, 2007 Completed
Distribute Educational Materials	November 9, 2007- Ongoing
Utility Billing Mailing	January 1, 2008- Completed

Measurable Goals: Printed educational materials will be available to the general public at City Hall, Library, Police and Fire Stations, as well as the City's official website. Brochures will also be distributed to Neighborhood Watch Programs and other community organizations. Brochures will always be available on request through the Public Works Department located at City Hall. Utility billing mailings will also be used periodically and will reach 28,000 people.

STORMWATER MANAGEMENT PROGRAM



2.1.2: Publish Storm Water Materials on City’s website

Lake Havasu City, as part of its public education and outreach activities, will maintain and add stormwater program information to the City’s website. This will be a cost-effective and practicable way for the City to provide storm water information to the general public.

Permit Requirement Citation: Part V, Section B.1.a

Activity: Implement, maintain, and update as necessary storm water educational materials via Lake Havasu City’s website. Links to other appropriate web pages (ADEQ and the EPA) and contact information for the city’s contact person.

Objectives: To provide a web base informational section on Lake Havasu City’s website to discuss the City’s SWMP and local storm water issues.

Interim Steps and Schedule:

Research/Develop Materials	June 24, 2007 Completed
Public Information added to Website	November 29, 2007 Completed
Update Website Materials	Ongoing- Annually

Measurable Goals: To provide useful information on local storm water issues, including a copy of the SWMP and links to other resources. Lake Havasu City will also track the number of hits during the period of operation, as well as updating the information to keep current with the AZPDES general permit.

STORMWATER MANAGEMENT PROGRAM



2.2: Public Involvement & Participation

Public Involvement differs from public education in that it empowers the public and codifies the involvement of the public with the municipality to achieve a unified common goal. Lake Havasu City believes that it is important to have the public's support behind the SWMP at the local level. Lake Havasu City complies with public notice requirements by offering an opportunity for the public to give advice and guidance on the BMPs and the overall SWMP. During the renewal process of this permit the City will provide an opportunity for the public to provide input into the SWMP for the next permit cycle. For public accessibility, the City will post a copy of its SWMP and Notice of Intent (NOI) on the City's website. Annual reports will also be available to the public through the Public Works Department.

Lake Havasu is committed to involving the residents of the city to participate in the SWMP process. It is Lake Havasu City's experience that many residents and seasonal residents are dedicated to providing input and willing to serve as volunteers.

Responsible Department: Public Works Engineering/Admin. Division
Lake Havasu City Fire Department

Responsible Position: Jeff LeMire, Public Works Project Manager

STORMWATER MANAGEMENT PROGRAM



2.2.1: Continue Compliance with State & Local Public Notice Requirements

The City already complies with state and local Public notice requirements.

Permit Requirement Citation: Part V, Section B.2.b

Activity: Comply with public notice requirements for any newly created or revised ordinances; public discussion of the SWMP and NOI with the City or any other opportunity for public input into the program.

Objectives: Make the public aware of new ordinances and allow the public to participate in adopting ordinances dealing with the SWMP.

Interim Steps and Schedule:

Continue Compliance	Ongoing
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Measurable Goals: Continue compliance of public notice requirements document public meetings, notices provided, comments and input received, and report annually to the state.

STORMWATER MANAGEMENT PROGRAM



2.2.2: Continue the Household Hazardous Waste Dump Day

Lake Havasu City has held and continues to hold an annual House Hold Hazardous Waste Dump Day Sponsored by the LHCFD for a number of years. This event provides recycling for household items, garage, and garden chemicals, oils and other hazardous materials.

Permit Requirement Citation: Part V, Section B.2.c.ii

Activity: Continue to provide this project annually to keep Lake Havasu City clean and safe.

Objectives: To provide a service to residents to dispose of hazardous materials in a safe matter.

Interim Steps and Schedule:

House Hold Hazardous Waste Dump Day	Held annually in March
Continue City Participation	Ongoing

Measurable Goals: To help prevent illegal dumping of hazardous materials within Lake Havasu City. LHCFD will provide detailed information on the quantity of materials collected. If there are any questions regarding hazardous materials please contact the Lake Havasu City Fire Department at (928)855-1141.

STORMWATER MANAGEMENT PROGRAM



2.2.3: Continue Keep Havasu Beautiful Spring Clean Up

The Keep Havasu Beautiful Organization and Lake Havasu City host an annual Spring Cleanup Day. This event provides recycling for furniture, wood, tree/brush trimmings, and appliances.

Permit Requirement Citation: Part V, Section B.2.c.ii

Activity: Continue to provide this project annually to keep Lake Havasu City clean and safe.

Objectives: To provide a service to residents to dispose of furniture, wood, tree/brush trimmings, and appliances in a safe matter.

Interim Steps and Schedule:

Keep Havasu Beautiful Spring Cleanup	Completed Annually
Continue City Participation	Ongoing

Measurable Goals: To help prevent illegal dumping of materials into Lake Havasu City's washes and other undeveloped areas.

STORMWATER MANAGEMENT PROGRAM



2.2.4: Update the City Council on the City’s SWMP Annually

The City intends to update the City Council each year in an effort to educate the Council and maintain community support.

Permit Requirement Citation: Part V, Section B.2.a

Activity: Update the City Council annually on the status of the SWMP’s development and implementation and especially during the renewal process.

Objectives: Educate and involve the City Council and public in developing and implementing the SWMP.

Interim Steps and Schedule:

Provide a Council Update on SWMP	November 27, 2007 Completed
Continue Council Update on SWMP	Annually

Measurable Goals: Update the Lake Havasu City Council annually, to provide input into the annual report and for any amendments to the SWMP. Comments from Council and general public will be reported in the annual report.

STORMWATER MANAGEMENT PROGRAM



2.2.5: Coordinate a River/Wash Volunteer Cleanup Day

Lake Havasu City partners with its residents to conduct volunteer trash pickups along the Colorado River and the numerous washes throughout town. These events can be used to monitor floatable or other debris in the storm system and outfalls.

Permit Requirement Citation: Part V, Section B.2.c.ii

Activity: Distribute storm water educational materials to volunteers participating in cleanup.

Objectives: Involve the general public in volunteer stormwater activities, including visual inspections of outfalls. *Participating agencies include: Boy Scout of America, Girl Scouts of America, and Neighborhood Watch Groups.*

Interim Steps and Schedule:

River/Wash/Neighborhood Cleanup Event	
Continue River/Wash Cleanup Event	Annually

Measurable Goals: To cleanup outfall areas and washes within Lake Havasu City. Use this to monitor location and concentration of debris and floatable pollutants on an annual basis.

STORMWATER MANAGEMENT PROGRAM



2.3: Illicit Discharge Detection & Elimination

Lake Havasu City recognizes the potential for Illicit Discharges to its MS4 and is committed to detecting the problem areas. Lake Havasu City Codes and ordinances reference garbage, refuse, disposal and nuisance's specific to the City's MS4. Lake Havasu City will review Codes and ordinances dealing with Illicit Discharges.

Currently, Lake Havasu City, through the LHCFD, has adopted the 1997 Uniform Fire Code and the LHCPD has received training through "Western States Hazardous Waste Project" (Appendices C). These directly address the issues of environmental crimes. Lake Havasu City also utilizes "Arizona Criminal Law and Motor Vehicle Handbook" and City ordinances for further guidance. Lake Havasu City has adopted a zero tolerance policy for illicit discharge of any pollutants within the City boundaries. Lake Havasu City will continue to receive training in enforcement and update their methods of detection as the Standard Operating Procedures (SOP's) are reviewed. Lake Havasu City currently conducts random non-storm water discharges as a result of the operations. These non-storm water discharges as listed in Part I, Section C2 of the general permit are not considered to be a significant contributor of pollutants to or from the MS4. Following are additional regulations utilized by Lake Havasu City and are attached for reference:

- **A.R.S. TITLE 49 "THE ENVIRONMENT"**
- **§ 13-1603 CRIMINAL LITTERING AND POLLUTION**
- **UNIFORM FIRE CODE UFC § 8001.5 ~ § 8001.5.2.5.**
- **LHC § 9.16.110 LITTERING**
- **LHC § 8.04.030 CONSTRUCTION LITTERING**

Lake Havasu City will also implement enforcement strategies, which will prohibit the discharge of non-stormwater into the public drainage system and identification of non-stormwater discharges that are allowable.

Lake Havasu City will utilize the following detection methods:

1. Dry weather monitoring of outfalls
2. Field Inspections: Implement a report for Public Works, Code Enforcement, Parks, and Building Inspectors to use in reporting any illicit discharge or illegal dumping to the MS4.
3. Lake Havasu City will keep documents of dry-weather monitoring, inspection reports, and complaints by citizens.

STORMWATER MANAGEMENT PROGRAM



Through the Public Education Minimum Control Measure, the City will educate the public and City Employees on the hazards of illegal discharges and dumping in the drainage system. The following discharges, which are listed as Part I, Section C.2. of the AZPDES Small MS4 General Permit are allowable non-stormwater discharges:

1. Water Line Flushing
2. Landscape Irrigation
3. Diverted Stream Flows
4. Rising ground water
5. Rising Ground Water
6. Uncontaminated ground water infiltration
7. Uncontaminated pumped groundwater
8. Discharges from potable water sources
9. Foundation drains
10. Air Conditioning condensation
11. Irrigation water
12. Springs
13. Water from crawl space pumps
14. Footing Drains
15. Lawn Watering
16. Individual residential car washing
17. Discharge from riparian habitats and wetlands
18. Street wash water
19. Discharges or flows from emergency fire fighting activities

Responsible Department: Public Works Department

Responsible Position: Jeff LeMire, Public Works Project Manager

STORMWATER MANAGEMENT PROGRAM



2.3.1: Review and/or Develop City Ordinances

Lake Havasu City has adopted different Codes and Ordinances dealing with Illicit Discharges and a review and/or update of those Codes and Ordinances to address all requirements outlined in the AZPDES. These ordinances and codes will form the basis for the overall illicit-discharge-elimination program.

Permit Requirement Citation: Part V, Section B.3.a. and V.B.3.c

Activity: Review, develop and finalize City Codes and Ordinances that prohibit illicit discharges to Lake Havasu City's stormwater system.

Objectives: To seek out and eliminate illicit discharges to the stormwater system in Lake Havasu City. Define and prohibit illicit discharges to the MS4. Allow the right of entry and inspection to find illicit discharges within the city. To establish penalties for dumping, spills, and willful illicit connections to the City's MS4.

Interim Steps and Schedule: Review, develop and adopt codes and ordinances.

Review Codes/Ordinances	June 25, 2007 Completed
Continue Council Update on SWMP	Annually

Measurable Goals: Adopt a Code or Ordinance with enforcement strategies, such as fines or imprisonment that prohibits illicit discharges to the City's MS4. These will empower the City to take action to detect and eliminate illicit discharges and to address illegal dumping into the MS4 and provide for corrective actions.

STORMWATER MANAGEMENT PROGRAM



2.3.2: Create an Outfall Inspection Program

Lake Havasu City intends to inspect all stormwater outfalls during dry weather as a part of the overall program to detect and eliminate illicit discharges. Illicit discharges found during inspection will be followed up and eliminated.

Permit Requirement Citation: Part V, Section B.3.f.

Activity: Inspect stormwater outfalls during dry weather to identify outfalls and determine the possible existence of illicit discharges or illegal dumping activities.

Objectives: Develop inspection procedures and identify possible illicit discharges to the City's stormwater system and investigate the point source of such discharges for the purpose of eliminating illicit discharges.

Interim Steps and Schedule:

Develop Inspection Procedures	November 30, 2007
Inspect Outfalls to Lake Havasu	December 2007
Continue Annual Inspection	Ongoing

Measurable Goals: Perform dry weather outfall inspections of all known stormwater outfalls by December 2007. Initiate investigation of illicit discharges and illegal dumping activities within one work week of discovery.

STORMWATER MANAGEMENT PROGRAM



2.3.3: Develop & Distribute Educational Materials On Illicit Discharges

Lake Havasu City intends to develop and distribute educational materials on illicit discharges to the public. The educational materials will target the residential population and will cover topics such as how to correctly maintain septic systems and dispose of household hazardous materials.

Permit Requirement Citation: Part V, Section B.3.e.

Activity: Procure educational materials regarding the hazards of illegal discharges to the stormwater system and distribute them to the public, utilizing educational tools developed under the public outreach and education sections of this SWMP.

Objectives: Inform the public of hazards associated with illegal discharges to the stormwater system.

Interim Steps and Schedule:

Develop Materials	June 1, 2007 Completed
Distribute Materials	November 26, 2007 Completed

Measurable Goals: Generate or procure educational materials regarding illegal discharges and distribute these materials utilizing the methods identified under Public Outreach and Education within this SWMP.

STORMWATER MANAGEMENT PROGRAM



2.4: Construction Site Runoff Controls

Lake Havasu City recognizes that a stormwater runoff control program is needed in the city with the development of state lands and new subdivisions being constructed. ADEQ administers the Construction General Permit in Lake Havasu City. Through this SWMP Lake Havasu City will develop and adopt an erosion and sediment control ordinance, with policies and procedures for plan reviews, technical guidance materials, inspection and enforcement program, and educational materials for the development of the community.

Responsible Department: Public Works Engineering/Admin. Division

Responsible Position: Jeff LeMire, Public Works Project Manager

STORMWATER MANAGEMENT PROGRAM



2.4.1: Adopt an Erosion & Sediment Control Ordinance

Lake Havasu City will adopt an erosion and sediment control ordinance that will form the basis of the City's construction site runoff control program. The ordinance will address construction site waste management as well as the other components listed in the AZPDES permit language.

Permit Requirement Citation: Part V, Section B.4.b.

Activity: Establish an enforceable City ordinance to require erosion and sediment runoff controls at construction sites that disturb one or more acres. The ordinance shall also include site waste management requirements.

Objectives: Reduce polluted stormwater runoff from construction sites that disturb one acres or more as described in the General Permit Part V, Section B.4.

Interim Steps and Schedule:

Review, Research Ordinances	June 1, 2007 Completed
Draft Ordinance & Implement	December 19, 2007

Measurable Goals: Adoption of a construction site management control program including necessary ordinances, with enforcement strategies such as fines or imprisonment. Site inspection and evaluation of recurring problems and issues, recommended changes for the regulatory process shall be considered prior to renewal of permit.

STORMWATER MANAGEMENT PROGRAM



2.4.2: Develop Policies & Procedures for Plan Review

Once Lake Havasu City adopts the ordinance, City staff must begin to review plans for sites which result in a land disturbance of one acre or more complying with the ordinance. The City will develop written policies and procedures that address plan reviews and will train plan review staff.

Permit Requirement Citation: Part V, Section B.4.c.

Activity: Develop and implement policies and procedures for stormwater runoff control plan review and integrate them into existing plan review process.

Objectives: To ensure that construction site runoff is addressed before the City issues a construction permit and that SWPPP and AZDPES permits are followed during construction.

Interim Steps and Schedule:

Develop Policies & Procedures	December 19, 2007
Implement Policies & Procedures	December 19, 2007

Measurable Goals: Develop plan policies and procedures for review of stormwater runoff control policies and procedures. Include permit evaluation of plan review process in overall program evaluation prior to renewal of permit, making adjustments as needed to effectively administer this program.

STORMWATER MANAGEMENT PROGRAM



2.4.3: Develop & Adopt Technical Guidance Materials

Lake Havasu City intends to develop and distribute technical guidance materials that define the design requirements for stormwater runoff control measures as well as construction site pollution and prevention BMP's. The materials shall be distributed to all developers and builders when a construction permit is issued.

Permit Requirement Citation: Part V, Section B.4.c.

Activity: Develop and adopt technical guidance materials for designing and maintaining stormwater runoff control plans in coordination with the adoption of the City construction site runoff ordinance.

Objectives: To provide guidance for developers and builders in reducing stormwater pollutant discharge from all construction sites despite the size of the project.

Interim Steps and Schedule: Develop and produce guidance materials specific to Lake Havasu City area. Adopt the guidance materials and distribute them to the developing community.

Develop Policies & Procedures	June 1, 2007 Completed
Implement Policies & Procedures	December 19, 2007

Measurable Goals: Develop, adopt and distribute technical guidance materials coinciding with the plan review process (3.4.2) and enforcement strategies (3.4.4).

STORMWATER MANAGEMENT PROGRAM



2.4.4: Develop a Construction Site Inspection & Enforcement Program

Lake Havasu City intends to develop written policies and procedures for inspecting construction sites and enforcing stormwater runoff controls. This will include developing inspection checklists or reports, and enforcement tools. The City will train inspectors and implement inspections.

Permit Requirement Citation: Part V, Section B.4.d.

Activity: Prepare standard procedures for inspecting sites and enforcing stormwater runoff controls, train inspectors for these procedures and conduct inspections.

Objectives: Effectively inspect construction sites for compliance with stormwater runoff controls.

Interim Steps and Schedule:

Develop Policies & Procedures	December 2007
Implement Policies & Procedures	December 19, 2007

Measurable Goals: Generate inspection and enforcement policies and procedures in place and implement the inspection and enforcement program in coordination with plan review policies and procedures. Evaluate as part of overall program review prior to permit review recommending appropriate changes as needed.

STORMWATER MANAGEMENT PROGRAM



2.5: Post-Construction Site Runoff Control

Lake Havasu City Code contains ordinances about retaining stormwater for new construction. These ordinances establish methods and standards for retention for new construction within the City. These would be modified to control post-construction flooding rather than stormwater runoff.

Responsible Department: Public Works Engineering/Admin. Division

Responsible Position: Jeff LeMire, Public Works Project Manager

STORMWATER MANAGEMENT PROGRAM



2.5.1: Develop & Adopt a Post-Construction Stormwater Runoff Ordinance

Lake Havasu City will develop a successful post-construction stormwater runoff program, including educational material as well as identification of design BMP criteria covered in an ordinance.

Permit Requirement Citation: Part V, Section B.5.c

Activity: Create and Adopt an ordinance that addresses post-construction runoff from new development and redevelopment projects, identifying approved BMP's for structural and nonstructural controls that impacts new and redevelopment projects as defined in the General Permit Part V, Section B.5.

Objectives: Minimize impacts of new or redevelopment projects on stormwater quality through effective controls for stormwater discharge management.

Interim Steps and Schedule:

Identify Program Goals	December 2007
Implementation	December 19, 2007

Measurable Goals: Adopt a post-construction stormwater runoff ordinance to address new and redevelopment projects as defined in the AZPDES Small MS4 General Permit Part V, Section B.5. by the renewal of this permit.

STORMWATER MANAGEMENT PROGRAM



2.5.2: Develop & Adopt Technical Guidance Materials

Lake Havasu City intends to develop and distribute technical guidance materials that define BMP design and maintenance requirements. Once the design goals are established for the ordinance, the technical guidance materials can be developed.

Permit Requirement Citation: Part V, Section B.5.e.iii.

Activity: Develop and adopt technical guidance materials for design, installation and maintenance of structural post-construction stormwater runoff BMP's.

Objectives: To reduce the pollutants in post-construction site runoff to the maximum extent practicable (MEP).

Interim Steps and Schedule:

Develop Materials	December 2007 In Progress
Distribution of Materials	December 19, 2007

Measurable Goals: Develop, adopt and distribute technical guidance materials and distribute to the developing community.

STORMWATER MANAGEMENT PROGRAM



2.5.3: Develop Policies & Procedures for Plan Review

Lake Havasu City intends to establish written policies and procedures for plan review of new development projects for post-construction BMP's. Once these policies and procedures have been developed, plan review staff will be trained.

Permit Requirement Citation: Part V, Section B.5.e.iii.

Activity: Develop policies and procedures for post-construction stormwater runoff plan review for all new development and redevelopment projects that affect one or more acres as defined in the General Permit Part V, Section B.5.

Objectives: Effectively implement a program to reduce pollutants in post-construction stormwater runoff to the MEP for new or redevelopment projects as defined in the General Permit Part V, Section B.5.

Interim Steps and Schedule:

Develop Policies & Procedure	December 2007 In Progress
Implementation	December 2007

Measurable Goals: Develop policies and procedures for plan review for post-construction stormwater runoff controls and implement by renewal of this permit.

STORMWATER MANAGEMENT PROGRAM



2.6: Pollution Prevention/Good Housekeeping

Lake Havasu City recognizes that a successful (SWMP) stormwater management plan requires diligent pollution prevention and good housekeeping. Lake Havasu City Code already contains many pollution prevention components, and the City is committed through policy and procedure to good housekeeping for stormwater management. Lake Havasu City also realizes that evaluating and refining good housekeeping and pollution prevention is beneficial, and the City is committed to the BMP's and schedules described below:

1. Maintenance of City Streets
2. Equipment Maintenance Shops
3. Stormwater Collection System Annual Cleanup
4. Parks Department Maintenance Operations
5. Solid Waste Collection and Disposal
6. Fire department Routine and Emergency Operations
7. Storage and Maintenance Facilities

All facilities mentioned will collect and dispose properly of all materials appropriately as per Federal, State, and local environmental regulations.

Responsible Department: Public Works Department
Parks & Rec. Department

Responsible Position: Jeff LeMire, Public Works Project Manager

STORMWATER MANAGEMENT PROGRAM



2.6.1: Evaluate Street Sweeping Policies & Procedures

Lake Havasu City intends to have written policies and procedures for Street Sweeping to help prevent floatables and sediment from reaching the stormwater system. The City will evaluate its street sweeping practices from a standpoint of stormwater runoff and will make changes if necessary.

Permit Requirement Citation: Part V, Section B.6.a.ii.

Activity: Evaluate street sweeping practices and schedule to determine effectiveness in addressing public street runoff impacts on stormwater quality.

Objectives: Evaluate the City’s street sweeping program to determine if operations should be revised in order to minimize pollutant discharges to the MS4. To develop written policies and procedures for street sweeping and any revisions to it to achieve performance goals established in the evaluation.

Interim Steps and Schedule:

Review Policies	May 14, 2007 Completed
Develop Policies & Procedure	December 2007
Implementation	December 19, 2007

Measurable Goals: Review City street sweeping program, recommend changes or modifications to street sweeping procedures, equipment, schedules and priorities. Implement changes to the street sweeping program by December 2007.

STORMWATER MANAGEMENT PROGRAM



2.6.2: Train City Employees about Pollution Prevention

Lake Havasu City will incorporate into existing training programs staff training on pollution prevention and the SWMP.

Permit Requirement Citation: Part V, Section B.6.b.ii.

Activity: Train Lake Havasu City Employees regarding general water quality issues as well as the City's Pollution prevention program and SWMP.

Objectives: Inform City employees of water quality issues related to City operations to reduce pollution from municipal operations and empower employees to carry out their responsibilities day to day with the goal of minimizing impacts on water quality.

Interim Steps and Schedule:

Develop Training Tools	June 25, 2007 Completed
Conduct Training Sessions	December 2007

Measurable Goals: Develop and implement employee training program by December 2007, then have annual refresher courses. Tracking of employees trained, material covered, and evaluation of program for updates for following year.

STORMWATER MANAGEMENT PROGRAM



2.6.3: Develop & Implement a Municipal Pollution Prevention Program

Lake Havasu City will evaluate municipal facilities for potential to contribute to pollutant loading and determine pollution prevention measures to be installed through a pollution prevention plan for the facility. The goal is to reduce the potential pollutant loading from municipal facilities.

Permit Requirement Citation: Part V, Section B.6.a.

Activity: Evaluate City operation and maintenance activities as well as City owned facilities to determine if stormwater pollutants are being reduced to MEP at City Facilities.

Objectives: Reduce the potential for pollutant discharge from municipal operations and facilities owned by Lake Havasu City.

Interim Steps and Schedule: Identify City operations and facilities to prioritize evaluations. Evaluate and identify operations and facilities then develop pollution prevention plans or activities if needed. Evaluate as many activities/facilities as possible by December 2007. After the renewal process reevaluate four activities/facilities annually.

Measurable Goals: Evaluate as many possible operations and facilities as possible by December 2007 and then continue four inspections annually. Modify and implement pollution prevention plans as needed per evaluation findings. Provide employee training on pollution prevention plan if evaluation determined necessary.

STORMWATER MANAGEMENT PROGRAM



3.0: Definitions:

AZPDES – Arizona Pollutant Discharge Elimination System: Arizona Department of Environmental Quality’s (ADEQ) version of NPDES program.

BMPs – Best Management Practices: Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of “waters of the United States.” 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.

Control Measure: refers to any Best Management Practice or other method used to prevent or reduce the discharge of pollutants to the waters of the United States.

CWA – Clean Water Act: is the Federal Water Pollution Control Act, 33 U.S.C.1251 et sq.

Illicit Connection – Any manmade conveyance connecting a discharge directly to a municipal separate storm sewer (MS4) which was not authorized by Lake Havasu City.

Illicit Discharge – Any discharge to a municipal separate storm sewer system (MS4) that is not composed entirely of storm water except a discharge pursuant to a NPDES permit (other than the municipal separate storm sewer) and discharges resulting from fire fighting activities.

MCM – Minimum Control Measures: the minimum required by law.

MEP – Maximum Extent Practicable: the removal of pollutants to the best of the MS4’s ability.

MS4 – Municipal Separate Storm Sewer System: A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curb, gutters, ditches, washes, man-made channels, or storm drains).

NOI – Notice of Intent: Form submitted to permitting authority (ADEQ) to be covered under general permit for discharge activities.

NPDES – National Pollutant Discharge Elimination System: National program for issuing, modifying, revoking and reissuing, terminating, imposing and enforcing pretreatment requirements, under sections 307, 402, 318, and 405 of Clean Water Act (CWA).

Outfall – the point where a municipal separate storm sewer discharges to waters of the United States.

Phase II – In 1990, Phase I of the Storm Water program regulated industry, construction projects greater than 5 acres, and large municipalities (Scottsdale, Glendale, Mesa and Tucson). The second phase of the storm water regulation expanded the regulating community to include MS4’s and small construction sites 1-5 acres in size.

Point Source: the source of a pollutant is traced back to.

Redevelopment – Alterations of a property that change the footprint of a site or building in such a way that results in the disturbance of equal to or greater than 1 acre of land.

SWPPP – Storm Water Pollution Prevention Plan: A plan prepared in accordance with the Arizona Discharge Elimination System and the National Pollution Discharge Elimination System regulations as established by the Clean Water Act to eliminate the contribution of pollutants.

TMDL – Total Maximum Daily Loads: the maximum allowed daily amount of a specified pollutants or parameters of concern.

STORMWATER MANAGEMENT PROGRAM



4.0: Acronyms & Abbreviations

ADEQ	ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION
AZPDES	ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM
BMP	BEST MANAGEMENT PRACTICE
BOD	BIOCHEMICAL OXYGEN DEMAND
CIP	CAPITAL IMPROVEMENT PROJECT
CWA	CLEAN WATER ACT
EPA	ENVIRONMENTAL PROTECTION AGENCY
FR	FEDERAL REGISTER
GIS	GEOGRAPHIC INFORMATION SYSTEM
HMC	HAVASU MUNICIPAL CODE
HHW	HOUSEHOLD HAZARDOUS WASTE
HOA	HOMEOWNERS ASSOCIATION
IC	ILLCIT CONNECTION
ID	ILLCIT DISCHARGE
IPP	INDUSTRIAL PRETREATMENT PROGRAM
LHCPD	LAKE HAVASU CITY POLICE DEPARTMENT
LHCPW	LAKE HAVASU CITY PUBLIC WORKS
LHCFD	LAKE HAVASU CITY FIRE DEPARTMENT
MEP	MAXIMUM EXTENT PRACTICABLE
MS4	MUNICIPAL SEPARATE STORM SEWER SYSTEM
NOI	NOTICE OF INTENT
NOT	NOTICE OF TERMINATION
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
P2	POLLUTION PREVENTION
PSA	PUBLIC SERVICE ANNOUNCEMENT
SIU	SIGNIFICANT INDUSTRIAL USER
SOP	STANDARD OPERATING PROCEDURE
SWMP	STORM WATER MANAGEMENT PROGRAM
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
TMDL	TOTAL MAXIMUM DAILY LOADS