

City of Phoenix

Stormwater Management Program

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October 27, 2010



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Background

- EPA issued Phoenix's first MS4 permit in February 1997.
- The permit expired in 2002 and was administratively continued, until....
- ADEQ issued Phoenix's second MS4 permit in February 2009.



General Permit Requirements

- Public Education and Outreach
- Illicit Discharge Investigation & Elimination
- Inspections & Enforcement
 - Industry
 - Construction
- Stormwater Monitoring



Key Differences: 1997 to 2009

- Measurable Goals
 - 1,700 Industrial Inspections
- Time Frames
 - Initiate corrective action within 60 days
- Employee Training
- Post Construction Inspections & Controls
- Low Impact Development (LID) Standards
- Surface Water Quality Standards
- Mapping Requirements

Other Considerations – EPA Audits

➤ 2001

- “Storm Water Section lacks resources to meet permit requirements in a timely manner.”
- “Limited interdepartmental coordination.”

➤ 2008

- “The City has not addressed the deficiencies identified in the program evaluation conducted in 2001, and does not appear to have made progress since that time.”

Management Attention

- Internal study to evaluate the program
 - Existing Resources
 - Requirements of the new permit
- Recommendations
 - Additional Resources
 - Reorganize the Program
- City Council Approval



Program Organization

Interdepartmental Coordination

- Working Group
- Executive Oversight Committee

Water Services Department

- Program Coordination & Reporting
- Wet Weather Monitoring
- Public Education & Outreach
- Illicit Discharge Detection & Elimination
- Industrial & Commercial Inspections
- Compliance & Enforcement

Street Transportation

- Storm Drain Maintenance
- Geographic Information System (GIS)

Environmental Programs

- Municipal Facility Inspections
- Training Coordination

Planning & Development Services

- Construction & Post Construction Inspections
- Outreach & Education

Funding

- 1993: \$0.15 fee added to water bill
- 1997: \$0.05 fee increase
- 2010: \$0.50 fee increase
 - Corresponding decrease in Water Services Fee, resulting in no net increase to the consumer
 - \$1M program to \$4M program.
- Funds all Stormwater Program activities, with the exception of:
 - Construction Permits and Inspections
 - Household Hazardous Waste Collection Events
 - Capitol Improvement Projects

New Resources

➤ 18 New Positions

- 7 Water Quality Inspectors
- 5 Wash Maintenance Staff
- 4 GIS Staff
- 1 Program Coordinator
- 1 Environmental Quality Specialist

➤ Funds for storm drain maintenance

➤ GIS Upgrades



Challenges – Training

- Training New Water Quality Inspectors
- Training City Staff
 - Annual Awareness Training for Field Staff
 - New Employee Training & Biennial Refreshers:
 - Stormwater Inspectors (Industrial, Construction, Municipal, IDDE)
 - Street Repair & Maintenance Staff
 - Water/Sewer Maintenance Staff
 - Spill Prevention & Reporting
 - Hazardous Materials Handling

Challenges - Industrial Inspections

➤ Industrial Inspections

- Permit: 1,700
- Status: 400

➤ Added Commercial Inspections

➤ Compliance & Enforcement



Challenges - IDDE

- Illicit Discharge Detection & Elimination
 - Identify Sources of Dry Weather Flow
 - Eliminate the Source



Challenges - SWQS

- Wet Weather Monitoring
 - E. coli
 - Lead
 - Copper
- Identify Sources
- Implement BMPs



Questions?



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