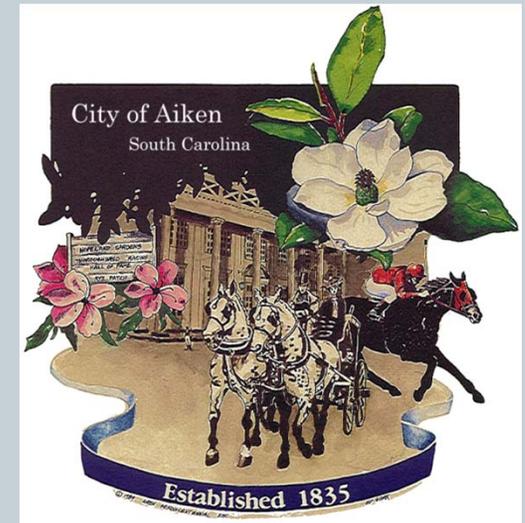


City of Aiken



NPDES MS4 Phase II Stormwater Program



What is NPDES (National Pollutant Discharge Elimination System)?



- **History**

- * 1948 – Water Pollution Control Act (WPCA)
- * 1972 – Clean Water Act (CWA)

- **National Pollutant Discharge Elimination System (NPDES)**

- * 1987 – Federal Water Quality Act
- * 1990 – NPDES Stormwater Phase I
- * 1999 – NPDES Stormwater Phase II
- * 2006 – SC NPDES Stormwater Phase II General Permit became effective

It is a federally mandated, state enforced stormwater quality program focused on nonpoint sources.

The City and NPDES Coverage



- **First Cycle NPDES Phase II General Permit**
 - Effective March 6, 2006
 - Expired February 28, 2011
- **Second Cycle NPDES Phase II General Permit**
 - Draft released for public comment March 2011
- **City of Aiken Certificate of Coverage**
 - Effective April 1, 2008
 - Expired February 28, 2011
 - Operating under expired permit, anticipating new permit in Fall of 2013



What Must the City Do?



- **Develop a Stormwater Management Plan (SWMP)**
 - Address six program elements
 - Address SCDHEC identified listed pollutant waters and Total Maximum Daily Loads (TMDLs)
- **Adopt and Enforce a Stormwater Management Ordinance**
- **Implement and Document NPDES related activities including Annual Reports**
- **Revise the SWMP as needed**

What are the Six Program Elements?



- (1) Public Education & Outreach on Stormwater Impacts
- (2) Public Involvement/Participation
- (3) Illicit Discharge Detection & 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

What is the Status of the City's Program?



- The SWMP and Ordinance are in place
- Annual Reports are completed and underway
- SCDHEC Audit is completed
- We are currently revising the SWMP to address deficiencies, impaired waters, and draft permit requirements



How You Can Help.....



- **Understand** that this is not a Public Works or Engineering & Utilities Department program – it is a City program!
- **Review** your program area as you may already be doing creditable activities.
- **Look** for easy opportunities to assist.
- **Document** the things you do that impact the NPDES program.
- **Support** the actions of the Engineering & Utilities Department.

(1) Public Education & Outreach on Stormwater Impacts



- **Requirement** – Inform residents about reducing stormwater pollution.
- **Activities**
 - * Website
 - * News articles
 - * Water bill inserts
 - * Earth Day
 - * Science Day
 - * Other public events

(1) Public Education & Outreach on Stormwater Impacts



- How you can help
 - ❖ Incorporate stormwater information into public meetings and presentations.
 - ❖ Place brochures in public buildings and at City events.
 - ❖ Include stormwater information in public mailings - water bills, tax notices, newsletters, etc.



(2) Public Involvement/Participation



- **Requirement** – Involve the public in development and implementation of the program.
- **Current Activities**
 - * City Environmental Committee
 - * Neighborhood Clean ups



(2) Public Involvement/Participation



- How You Can Help...
 - * Encourage participation in other state and local activities
 - Beach Sweep/River Sweep
 - Adopt a Highway
 - * Support Clemson University's Restoration Institute
 - * Provide a forum for stormwater program input



(3) Illicit Discharge Detection & Elimination



- **Requirement** – Map stormwater outfalls, prohibit non-stormwater discharges to drainage system, inspect outfalls for discharge, remove non-stormwater discharges, inform the City employees and the public about the hazards associated with illicit discharges and dumping.
- **Current Activities**
 - * Mapping
 - * Ordinance is in place
 - * Sanitary Sewer Evaluation Survey



(3) Illicit Discharge Detection & Elimination

- How You Can Help...

- * Include stormwater discussion in department meetings and training

- * Watch for and report illegal dumping and potential illicit discharges

- * Record and report spill response

- * Inform residents about household waste disposal



(4) Construction Site Stormwater Runoff Control



- **Requirement** – Perform plan review and inspections, respond to citizen complaints.
- **Current Activities**
 - * Plan review and inspection process in place
 - * Responding to citizen complaints
 - * Developed plan review guidelines



(4) Construction Site Stormwater Runoff Control

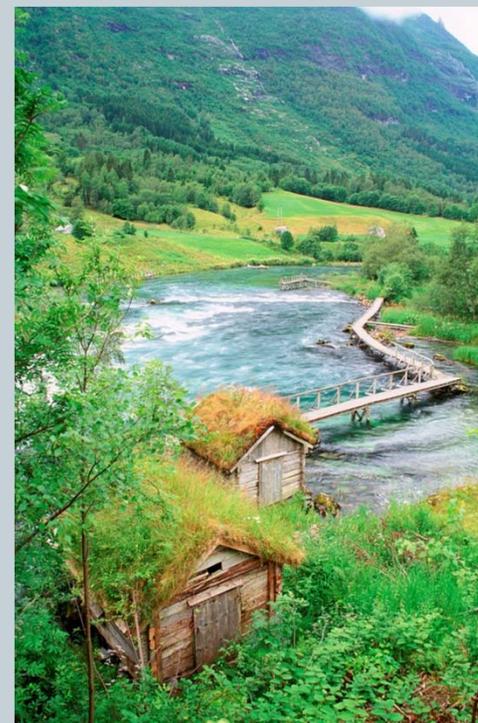
- **How You Can Help...**
 - * Be the eyes of the City – watch and report
 - * Support the NPDES program with other permitting activities
 - * Refer citizen concerns to Engineering & Utilities



(5) Post-Construction Stormwater Management in New Development and Redevelopment



- **Requirement** – Reduce pollutants from post-construction runoff through BMPs, ensure long term maintenance of BMPs
- **Current Activities**
 - * Maintaining existing BMPs
 - * Require specific Green Infrastructure practices
 - * Developed a tracking system for BMPs
 - * Documents inspection and maintenance activities



(5) Post-Construction Stormwater Management in New Development and Redevelopment



- How You Can Help...
 - * Include stormwater quality in planning activities
 - * Be aware of green infrastructure function and purpose such as:
 - Pervious pavement
 - Rain gardens
 - Constructed wetlands
 - Rain barrels
 - * Look for ways to “go green” in your operations



(6) Pollution Prevention/Good Housekeeping for Municipal Operations

- **Requirement** – Develop an employee training program
- **Current Activity**
 - * Street sweeping
 - * Cleaning catch basins
 - * Neighborhood clean ups



(6) Pollution Prevention/Good Housekeeping for Municipal Operations

- **Additional Activities**

- *Be aware of common pollutants and look for ways to reduce or eliminate them in your operations

- Sediment
 - Bacteria
 - Nutrients (fertilizers)
 - Pesticides
 - Herbicides
 - Oils
 - Grease



- * Include stormwater training in your department meetings

SCDHEC - 303(d) Listed Waters and TMDLs



- **Requirement** – Determine if the City discharges to SCDHEC identified pollutant water/streams or to TMDL watershed, provide reasonable assurance that discharges will not cause or contribute to violations of water quality standards, and reduce pollutants in runoff to the “maximum extent practical”.
- **TMDLs**
 - * Horse Creek, fecal coliform bacteria

DOCUMENT!



- According to SCDHEC/EPA – “If it is not documented, you did not do it!”
- Annual report is due May 31st of each year.



What Happens if We Don't Comply?



- Violation of the SC NPDES General Permit and the Federal Clean Water Act
 - * State and Federal Enforcement
- Third party lawsuits
- Consequences
 - * Fines
 - * Legal fees
 - * DHEC and EPA define your program



Enforcement Example



- **Richland County**
 - Failure to properly implement permit
 - consent Order in 2005 with \$7.3 million fine
 - Reduced to Corrective Action Plan and \$830,000 fine (if plan is properly implemented)
- **Third party lawsuit against DHEC for non-enforcement of the program**

Action Items



- The Engineering & Utilities Department must review the program and the SWMP and revise where necessary
- E&U needs to conduct interviews with various City departments to gather additional information regarding existing programs and activities
- Implement new programs and document activities

How You Can Help...



- Focus on the activities of your department
- Identify potential contribution to stormwater pollutants and find ways to reduce or eliminate
- Consider activities your department is already doing that might gain credit under the NPDES MS4 program
- Report potential sources of stormwater pollution to the Engineering & Utilities Department
- Document your NPDES related activities for use in the annual report
- Inform staff that we may be calling

Thank You!



Questions?