

**CITY OF GAHANNA  
STORM WATER MANAGEMENT PLAN**

March 10, 2003

**EXHIBIT A**

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CITY OF GAHANNA

**Certification**

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

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Rebecca W. Stinchcomb  
Mayor  
City of Gahanna, Ohio

## **Executive Summary**

The City of Gahanna is required to submit a storm water management plan (SWMP) in accordance with 40 CFR 123.25(41) and proposed Ohio law (OAC 3745-39). This document outlines the City's program to develop, implement and enforce a storm water management program designed to reduce the discharge of pollutants to the maximum extent practicable, to protect water quality, and to satisfy the appropriate requirements of the Clean Water Act (CWA) in accordance with the Ohio Environmental Protection Agency (OEPA) National Pollutant Discharge Elimination System (NPDES) Phase II program. The SWMP addresses the Six Minimum Control Measures as required by state regulations. The plan also identifies the City's legal authority to implement the requirements of the OEPA's general permit.

The City of Gahanna has been designated as a community within a "rapidly developing watershed." Therefore, the City will be required to implement portions of six minimum controls in three years, rather than the typical five-year cycle. This storm water management plan reflects this.

## **Legal Authority**

Article 2 of the City's Charter states that the City "shall have all the powers, general or special, government or proprietary, expressed or implied, which may be possessed or assumed by municipalities under the Constitution and laws of Ohio for local self-government and Home Rule. No enumeration of specific powers in this Charter shall be held to be exclusive." Therefore, the City with the authority to control the quality of separate storm water discharge to its storm sewer system. Its authority addresses both industrial and municipal discharges. The City of Gahanna has both the legal authority and fiscal resources to fully implement its storm water management plan as shown in the attached documentation (Attachment A).

## **Permit Coverage Area**

The SWMP traverses all areas within the incorporated City limits as shown on Exhibit A. City of Gahanna has a population of 32,636 (US Census Bureau, 2000) and encompasses approximately 12.6 square miles.

The City of Gahanna is largely residential, with concentrations of commercial areas along main thoroughfares such as Hamilton Road and Granville Street. The City also includes industrial park areas along the Interstate 270 corridor. The industrial parks generally include warehouse-type activities, rather than large-scale manufacturing facilities.

## **Reporting Requirements**

The City of Gahanna will submit its required report annually during the first term of the permit cycle. The report will include the status of compliance with the permit conditions, an assessment of the appropriateness of the best management practices (BMPs) and progress towards achieving measurable goals for each of the Six Minimum Control Measures.

The City will also summarize all data collected and analyzed during the course of the permit cycle, and include said summary as part of the annual report.

A summary of the activities the City will undertake during the subsequent annual reporting cycle and any changes to the BMPs or measurable goals will be included in the annual report.

## **Storm Water Management Program**

The SWMP outlines the Six Minimum Control Measures that are expected to result in reductions in pollutants discharged by the City of Gahanna. Both the Ohio TMDL Priority list for FFY 1999-2000 and the Water Quality Management Plan Scioto River Basin and Blacklick Creek list the Big Walnut Creek as in full attainment of water quality goals, but that the attainment is threatened by urban runoff. The typical impairments to water quality from urban runoff are flow alteration, habitat alteration and nutrient enrichment.

Based on the above discussion, the City of Gahanna Storm Water Management Plan is predicated on three objectives. First, it is assumed that the flow alteration impairment will be addressed through proposed and existing quantity control best management practices (peak storm retention/ detention.) Second, habitat alteration impairment will be addressed through proposed riparian setback and easement requirements. Third, nutrient enrichment impairment (such as nitrogen and phosphorus loadings) will be addressed through best management practices for quantity and quality control.

Gahanna has been identified by the OEPA as being within a “rapidly developing watershed,” and as such will be required to implement minimum control measures 4 and 5 within three years, instead of the five-year implementation of the other four control measures. The Six Minimum Control Measures are:

1. Public Education/Outreach
2. Public Participation/Involvement
3. Illicit Discharge Detection/Elimination
4. Construction Site Runoff Control
5. Post Construction and Redevelopment Runoff Control
6. Pollution Prevention/Good Housekeeping

Each measure is addressed separately below. Generally, the plan identifies the strategies, existing programs and proposed program for each minimum control measure.

**Public Education/Outreach**

The City of Gahanna has chosen a mix of BMPs for public education and outreach. This control measure will target homeowners, commercial property owners, industrial park occupants and the general public. There are three general areas that the City considered when determining the implementation of their public education and outreach program: forming partnerships; using educational materials and strategies; and reaching diverse audiences.

The initial five-year program for the City of Gahanna is predicated largely on increasing awareness of how the City's municipal separate storm sewer system (MS4) functions through information dissemination. Once the awareness has reached a predetermined level, the program is enhanced to include more active public participation.

**Forming Partnerships**

The City of Gahanna will enter into a working agreement with either the Franklin Soil and Water Conservation District (FSWCD), the City of Columbus or other governmental agency for the provision of educational materials and guidance. The working agreement will also include other services included within the Six Minimum Controls, and will be addressed in each of those sections.

The City's Engineer shall be responsible for the overall management and implementation of the storm water public education/outreach program, through coordination with the FSWCD, the City of Columbus or other governmental agency.

**Education Materials and Strategies**

The City of Gahanna has a number of existing programs specifically for the dissemination of information to its citizens. These include an internet web site and a local branch of the Columbus Metropolitan Library system with locations for public announcements. In coordination with the FSWCD, the City of Columbus or other governmental agency, the City will develop an educational program to include:

1. Brochures
2. Alternative information sources (web site)
3. A library of education materials to be maintained at City Hall.
4. A display and booth participation at the City's major events (festivals, etc.)

**Reaching Diverse Audiences**

The planned public education program will use a variety of strategies in which to reach a diverse audience. Our local strategies include reaching commercial areas through brochures and publications, reaching school age children through the Gahanna-Jefferson School System and FSWCD, homeowners through City publications, and the development community through the implementation of storm water quality control measures.

**Public Education/Outreach Measurable Goals**

BMP	Strategy	Measurable Goal	Responsible Party
Existing Programs	The City of Gahanna will continue with existing programs that have a positive effect on storm water education.	<p><u>On-going</u></p> <ul style="list-style-type: none"> <li>• Web site with ability to identify City personnel and departments</li> <li>• Franklin Soil and Water Conservation District assistance with education</li> <li>• Franklin County Board of Health aerator program (education and inspection)</li> <li>• Columbus Metropolitan Library information space and meeting space availability</li> <li>• Big Walnut Creek Water Quality Partnership, Rocky Fork Creek Watershed Protection Task Force, Friends of the Rocky Fork Watershed and Friends of the Blacklick programs (science fair, community meetings, river walks, river clean up)</li> </ul>	<p>Webmaster FSWCD</p> <p>BOH</p> <p>BWCWQP, RFCWPTF, FRFW, FOB</p>
Governmental Partnership	<p>Utilize existing governmental resources to develop education program</p> <p>Franklin County Board of Health (BOH) tracks on-site treatment systems.</p>	<p><u>3/03- 2/04</u></p> <ul style="list-style-type: none"> <li>• Negotiate an intergovernmental agreement with either the FSWCD, the City of Columbus or other governmental agency for education programs</li> </ul> <p><u>03/04 - 2/05</u></p> <ul style="list-style-type: none"> <li>• Enter an intergovernmental agreement with either the FSWCD, the City of Columbus or other governmental agency to reflect storm water program progress</li> <li>• Identify homeowners with on-site sewage systems through the Franklin County Board of Health</li> <li>• Meet with Gahanna-Jefferson Schools to establish and identify curricula specific to storm water</li> </ul> <p><u>3/05- 03/08</u></p> <ul style="list-style-type: none"> <li>• In conjunction with the Franklin County Board of Health, educate homeowners with on-site sewage systems on proper care and maintenance. Identify percentage of homeowners contacted each year.</li> </ul>	<p>Intergovernmental agreement City Engineer</p> <p>BOH tracking- City Engineer</p>

BMP	Strategy	Measurable Goal	Responsible Party
Educational Partnership	Children within Gahanna are part of the Gahanna-Jefferson school system. FSWCD already facilitates programs within the school system. Additional tracking of efforts will be made to gauge program effectiveness.	<p><u>03/04 - 2/05</u></p> <ul style="list-style-type: none"> <li>Meet with Gahanna-Jefferson Schools to establish and identify curricula specific to storm water</li> </ul> <p><u>3/05 - 2/06</u></p> <ul style="list-style-type: none"> <li>Identify number and age group of children participating in storm water program curricula established previous year. 25% of students in schools serving City of Gahanna residents to have participated in curricula.</li> </ul> <p><u>3/06 - 2/07</u></p> <ul style="list-style-type: none"> <li>Identify number and age group of children participating in storm water program curricula established previous year. 50% of students in schools serving City of Gahanna residents to have participated in curricula.</li> </ul> <p><u>3/07 - 03/08</u></p> <ul style="list-style-type: none"> <li>Identify number and age group of children participating in storm water program curricula established previous year. 75% of students in schools serving City of Gahanna residents to have participated in curricula.</li> </ul>	Coordination with Schools- City Engineer, FSWCD
Web Site	<p>Web site will include information on current storm water activities, pertinent information related to storm water, resources available to the public.</p> <p>Provide standard space for announcements of various upcoming events.</p> <p>Provide area for receipt of comments and questions from public.</p>	<p><u>03/03 - 2/04</u></p> <ul style="list-style-type: none"> <li>Update web site to include link to FSWCD, City of Columbus, or other governmental agency information on how stormwater system works, add 'hit' counter</li> </ul> <p><u>03/04 - 02/05</u></p> <ul style="list-style-type: none"> <li>Create means to receive information on web site regarding storm water questions</li> </ul> <p><u>03/04 - 03/08</u></p> <ul style="list-style-type: none"> <li>Annually advertise used-oil and hazardous chemical collection days. Track number of residents participating.</li> </ul> <p><u>03/05 - 03/08</u></p> <ul style="list-style-type: none"> <li>Create and distribute survey to determine effectiveness of storm water program to date.</li> </ul>	Web master

BMP	Strategy	Measurable Goal	Responsible Party
Library of Education Materials	<p>In conjunction with local library and City Hall, develop brochures with information on current storm water activities, pertinent information related to storm water, resources available to the public.</p> <p>Provide standard area for announcements on various programs.</p>	<p><u>03/03 - 2/04</u></p> <ul style="list-style-type: none"> <li>Identify topics as part of intergovernmental agreement</li> </ul> <p><u>03/04 - 02/05</u></p> <ul style="list-style-type: none"> <li>Develop brochures for use at City events (festivals, etc.)</li> </ul> <p><u>03/04 - 03/08</u></p> <ul style="list-style-type: none"> <li>Advertise used-oil and hazardous chemical collection days. Track number of residents participating.</li> </ul> <p><u>03/07 - 03/08</u></p> <ul style="list-style-type: none"> <li>Develop information on drainage systems for provision to new developers within the UA (a part of the City's proposed stormwater policy)</li> </ul>	City Engineer, FSWCD, City of Columbus, or other governmental agency

**Public Participation/Involvement**

The City of Gahanna recognizes that a successful stormwater program relies not only on the MS4 owners and operators and the regulatory community, but also upon the input, assistance and understanding of the general public. The City's program includes means and methods to give the public opportunity to play an active role in both the development and implementation of the NPDES Phase II program.

**Strategies**

The City of Gahanna completed a study in 2002 to identify the areas within each of the Six Minimum Controls where the City was already in compliance. As part of this study, the City's consultant interviewed staff members and agency members closely related to various aspects of the storm water program. These interviews served a two-fold purpose: the consultant gathered information on the program from staff and the staff learned about various aspects of the storm water permitting requirements.

The City determined that the most efficient and effective means for moving forward on the permitting program was to craft the storm water management program through the City Engineer, with input from various staff and local agencies. Input from the public will be sought to refine the program as part of the first five-year permitting period.

The initial, five-year program for the City of Gahanna is predicated largely on increasing awareness of how the City's MS4 functions through passive information dissemination. Once the awareness has reached a predetermined level, the program is enhanced to include more active public participation. Given that, the City will reinforce existing methods for receiving information from the public, identify opportunities for civic groups to participate in the process and create or continue use of "Adopt a" programs.

As stated earlier, the target audience for the program can be divided into three general categories: residential, commercial and industrial park. These categories then lend themselves to further segregation. The residential category has been divided into school age children and adults, new development (through developers) and existing (through watershed groups and FSWCD). The commercial properties include small, medium and large properties, as well as type (restaurant and retail, for example). Initially, involvement will be tracked on gender and general age.

The City's Engineer shall be responsible for the overall management and implementation of the storm water public involvement/ outreach program, through coordination with the FSWCD, and/or the City of Columbus or other governmental agency.

**Public Participation/Involvement Measurable Goals**

BMP	Strategy	Measurable Goal	Responsible Party
Existing Programs	The City of Gahanna will continue with existing programs that have a positive effect on storm water education.	<p><u>On-going</u></p> <ul style="list-style-type: none"> <li>• Web site with ability to identify City personnel and departments</li> <li>• City complaint process</li> <li>• Franklin County Board of Health aerator program (education and inspection)</li> <li>• Columbus Metropolitan Library information space and meeting space availability</li> <li>• Big Walnut Creek Water Quality Partnership, Rocky Fork Creek Watershed Protection Task Force, Friends of the Rocky Fork Watershed and Friends of the Blacklick programs (science fair, community meetings, river walks, river clean up)</li> </ul>	<p>Webmaster City Administrator, City Engineer BOH BWCWQP, RFCWPTF, FRFW, FOB</p>

BMP	Strategy	Measurable Goal	Responsible Party
Interaction With Non-Governmental Groups	City of Gahanna is within multiple watershed areas. These groups have already established a number of programs to encourage public awareness that can be tracked to City of Gahanna residents.	<p><u>3/03- 2/04</u></p> <ul style="list-style-type: none"> <li>• Meet with watershed representatives to identify programs available</li> <li>• Identify liaison to attend watershed meetings</li> </ul> <p><u>03/04 - 2/05</u></p> <ul style="list-style-type: none"> <li>• Develop citizen watch programs with local watershed organizations</li> <li>• Identify annual event (e.g. stream clean-up) for City of Gahanna participation. Assist in administration and organization</li> </ul> <p><u>3/05- 2/06</u></p> <ul style="list-style-type: none"> <li>• Hold first annual event. Track number of residents participating.</li> </ul> <p><u>3/06- 03/08</u></p> <ul style="list-style-type: none"> <li>• Continue event on an annual basis. Track number of residents participating</li> </ul>	<p>City Engineer; Liaison identified in year one.</p>
Web Site	Web site provides means for receiving information from citizens.	<p><u>03/03-02/04</u></p> <ul style="list-style-type: none"> <li>• Amend web site to identify used oil program</li> </ul> <p><u>03/04 - 2/05</u></p> <ul style="list-style-type: none"> <li>• Amend web site to provide for citizen input of information on local waterways and storm sewer systems</li> <li>• Develop tracking system for receipt of information from the community.</li> <li>• Log information received to electronic map for development of trend patterns</li> </ul> <p><u>3/05- 2/06</u></p> <ul style="list-style-type: none"> <li>• Track number of calls and web-site receipts regarding stormwater programs. Track resolutions completed.</li> </ul>	<p>Web master; GIS supervisor</p>



BMP	Strategy	Measurable Goal	Responsible Party
Existing Programs	Complaint process provides for receipt of information from public; but a more detailed process of tracking problem resolution is necessary.  Existing used oil program should continue and be advertised on web site.	03/04- 03/08 <ul style="list-style-type: none"> <li>Advertise used-oil and hazardous chemical collection days. Track number of residents participating</li> </ul>	City Engineer

### Illicit Discharge Detection and Elimination

The City of Gahanna has already minimized the potential of illicit discharges to the storm water system through ordinance and the ownership/operation of a centralized sanitary sewer system. The assessment of creeks and waterways through the City has not yet been completed by OEPA, therefore, a determination of illicit discharge constituents has not been defined.

In addition, the City has identified the need to increase public awareness of the storm water system prior to involving the public within the illicit discharge detection and elimination minimum control. Given that, the City's program will initially use municipal staff. The City's Engineer shall be responsible for the overall management and implementation of the illicit discharge detection and elimination program. As the public education and outreach system results in greater awareness of the system, local citizens will also be used.

#### Strategies

The City currently maintains a 'map room' with all pertinent maps in hard copy form. These maps include as-built plans of projects completed within the City to date. Maps are incorporated into the map room once they are recorded with the City. "Maps" include projects completed by developers, as well as improvements implemented by the City. Additional maps are also on file with the City Engineer.

The City is creating a geographic information system (GIS) for the urbanized area. This effort is completed on a contracted basis. The City's GIS department and the City's Engineer will complete maintenance of the map.

The City will coordinate with the Franklin County Board of Health to identify on-site treatment systems within the incorporated City limits. This information will be added to the GIS product.

The control of illicit discharges is part of the City Code, section 1193. This section includes Gahanna's storm water policies to date.

The implementation of the City's BMP for this minimum control measure includes City Building Inspectors, Code Enforcement Officers, Street Maintenance personnel as well as the Public Service Department and the City Engineer.

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City of Gahanna  
Storm Water Management Plan

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### Illicit Discharge Elimination Measurable Goals

BMP	Strategy	Measurable Goal	Responsible Party
On-going Programs	The City of Gahanna will continue with existing programs that have a positive effect on storm water discharge.	On-going <ul style="list-style-type: none"> <li>Conversion of maps to electronic format</li> <li>Illicit Discharge Ordinance</li> <li>Prohibition for obstruction of waterways</li> </ul>	GIS Supervisor City Engineer
Electronic Map	The use of electronic maps to store information provides easier retrieval and data assessment. The City has already started the process of converting records to an electronic format.  The Franklin County Board of Health also has data on on-site treatment systems in electronic format.	03/03-02/04 <ul style="list-style-type: none"> <li>Continue efforts on mapping product</li> <li>Fund mapping program to appropriate levels to support additional tasks related to NPDES II program</li> <li>Contact County Board of Health for HSTS information.</li> <li>Add storm water basin information to mapping product.</li> </ul> 03/04-03-08 <ul style="list-style-type: none"> <li>Finalize the addition of stormwater systems known in the area to the mapping product</li> </ul>	City Engineer; IT supervisor
System Evaluation	Concurrently with mapping activities; identification of dry weather outfalls and stream	03/03-02/04 <ul style="list-style-type: none"> <li>Identify stream miles within each basin. Quantify.</li> </ul> 03/04 - 02/05 <ul style="list-style-type: none"> <li>Develop mapping of complaint/suggestion records and locations of on-site systems</li> <li>Track number of calls and web-site receipts regarding stormwater programs. Track resolutions completed.</li> <li>Establish a program to prioritize basins of concern.</li> </ul> 03/05- 02/06 <ul style="list-style-type: none"> <li>Conduct quarterly dry weather screening of identified outfalls. Track results.</li> <li>Based on prioritization listed in year 2 above, prioritize basins.</li> <li>Study up to 1/3 of basins of concern to identify flow origin. Identify alternatives and methods to remove flows, if necessary</li> </ul> 3/06-03/08 <ul style="list-style-type: none"> <li>Continue studying remaining basins of concern to identify flow origin. Identify alternatives and methods to remove flows, if necessary</li> </ul>	City Engineer

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Storm Water Management Plan

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BMP	Strategy	Measurable Goal	Responsible Party
Policy and Enforcement	The City already has many of the policies in place regarding storm water. This best management practice will serve to fill in any missing information.	<u>03/03-02/04</u> <ul style="list-style-type: none"> <li>Identify additional code amendments. Draft and promulgate</li> </ul> <u>03/04 - 02/05</u> <ul style="list-style-type: none"> <li>Establish illicit discharge identification program and policy</li> </ul> <u>03/05- 02/06</u> <ul style="list-style-type: none"> <li>Conduct quarterly dry weather screening of identified outfalls. Track results.</li> <li>Train building inspectors, code enforcement officers and street maintenance personnel on illicit discharge identification.</li> </ul>	City Engineers

### Construction Site Runoff Control

The City of Gahanna recognizes that sediment laden runoff from construction sites, if unchecked, can deposit more in a stream than would be deposited there over the course of decades from other land use types. The resulting siltation, and other pollutants, can cause physical, chemical, and biological harm to the waterways.

#### Strategies

Due to the constraints of the MS4 General Permit, the City will be modifying the construction site runoff control program. The City will enhance existing City Code to reflect the 1-acre or greater of disturbed area requirement for erosion and sedimentation control programs. The enforcement of the erosion and sedimentation control policy will be codified to reflect enforcement by the City of Gahanna, rather than by the OEPA. The web site will be updated to reflect the ability to receive information from the general public.

The City's Engineer shall be responsible for the overall management and implementation of the construction site runoff control program. Other code changes are addressed in the Post-development and Redevelopment Minimum Control Measure.

### Construction Site Runoff Control Measurable Goals

BMP	Strategy	Measurable Goal	Responsible Party
On-going Programs	The City of Gahanna will continue with existing programs that have a positive effect on storm water run off mitigation.	<u>On-going</u> <ul style="list-style-type: none"> <li>Site Plan Review by City Engineer</li> <li>City inspection of improvements.</li> <li>Sanctions for violation of codes</li> <li>Erosion and sedimentation control policy (Code Chapter 1195)</li> <li>Complaint process through contact with City Hall</li> </ul>	City Engineer City inspectors
Update Code	The City of Gahanna has an erosion and sedimentation control policy in effect.	<u>03/03-02/04</u> <ul style="list-style-type: none"> <li>Enter into an intergovernmental agreement with Franklin Soil and Water Conservation District to provide inspection services for sites after final improvements have been accepted by the City but prior to the completion of the development.</li> </ul> <u>03/04 - 02/05</u> <ul style="list-style-type: none"> <li>Formalize procedure for addressing complaints received by the City</li> <li>Amend Chapter 1195 to include 1-acre and larger sites as sites required to comply with policy</li> <li>Provide development communities with erosion and sedimentation ordinance and requirements</li> </ul> <u>03/05- 02/06</u> <ul style="list-style-type: none"> <li>Develop educational program for public detailing means for notifying City of potential violations</li> </ul> <u>3/06-2/07</u> <ul style="list-style-type: none"> <li>Update web site to include electronic receipt of information from public.</li> <li>Develop mapping into City GIS of complaint/suggestion records and locations of on-site systems</li> </ul>	Agreement- City Engineer

BMP	Strategy	Measurable Goal	Responsible Party
Inspection Services	The City of Gahanna will need to transition inspection and enforcement specific to erosion and sedimentation control from the State OEPA process to a local process.	<p><u>03/03-02/04</u></p> <ul style="list-style-type: none"> <li>Track number of sites in compliance, partially in compliance and out of compliance</li> <li>Document number of enforcement actions taken by type</li> </ul> <p><u>03/04 - 02/05</u></p> <ul style="list-style-type: none"> <li>Train City Inspectors to identify run-off problems</li> <li>Continue to track number of sites in compliance, partially in compliance and out of compliance. Goal is to show increases in compliance or partial compliance and reductions in non-compliance.</li> </ul> <p><u>03/05- 02/06</u></p> <ul style="list-style-type: none"> <li>Continue to track number of sites in compliance, partially in compliance and out of compliance. Goal is to show increases in compliance or partial compliance and reductions in non-compliance.</li> </ul> <p><u>3/06-2/07</u></p> <ul style="list-style-type: none"> <li>Continue to track number of sites in compliance, partially in compliance and out of compliance. Goal is to show increases in compliance or partial compliance and reductions in non-compliance.</li> </ul>	City Engineer, FSWCD

**Post Construction Stormwater Management In New Development/ Redevelopment**

The City proposes to address the post-construction stormwater management in new development and redevelopment with structural and non-structural BMPs. As part of this minimum control, the City seeks to effectively manage the amount of impervious cover within its system, increase natural land set aside for riparian buffers and stream maintenance and to enhance existing storm water practices through inclusion of water quality components.

The City's subdivision regulations are presently formulated to address water quantity issues. The subdivision regulations outline the controls necessary to control peak flow rates from the post peak development condition to the peak flow rates of the preconstruction condition.

The City has experienced significant growth in the last several years. For the initial 5-year permitting program, the City will focus primarily on policies that address new development. Initially, existing policies will be augmented to reflect water quality-type best management practices. For

example, where the subdivision regulations address retention/detention in terms of water quantity management, additional policies will be promulgated to address retention/detention with a water quality element.

**Post Construction Stormwater Management Measurable Goals**

BMP	Strategy	Measurable Goal	Responsible Party
On-going Programs	The City of Gahanna will continue with existing programs that have a positive effect on storm water discharge quantity and quality.	<p><u>On-going</u></p> <ul style="list-style-type: none"> <li>Water quantity provision in code to attenuate storm flows</li> </ul>	City Engineer
Retention/ Detention	The City has already developed a policy on retention/detention with regards to water quantity issues. Amended policy will seek to address water quality issues as well.	<p><u>03/03-02/04</u></p> <ul style="list-style-type: none"> <li>Review of subdivision regulations</li> <li>Draft retention/detention basin policy</li> </ul> <p><u>03/04 - 02/05</u></p> <ul style="list-style-type: none"> <li>Identify potential alternate policies for non-residential runoff.</li> <li>Develop stakeholder group to review potential non-residential runoff policies (post development)</li> <li>Hold stakeholder meetings for discussion of proposed runoff policies affecting non-residential development (parking lot)</li> <li>Hold stakeholder meetings for discussion of proposed runoff policies affecting residential development</li> </ul> <p><u>03/05- 02/06</u></p> <ul style="list-style-type: none"> <li>Finalize and promulgate proposed run-off policies (post development)</li> </ul> <p><u>3/07- 03/08</u></p> <ul style="list-style-type: none"> <li>Prepare and distribute informational packet to development community of policies</li> </ul>	City Engineer

BMP	Strategy	Measurable Goal	Responsible Party
Stream Protection	The streams identified within City of Gahanna are either in good condition or have not been assessed. This BMP will create means and methods for maintaining good condition streams.	<p><u>03/03-02/04</u></p> <ul style="list-style-type: none"> <li>Identify system outfalls to waters of the state.</li> <li>Identify contributing system basin limits</li> </ul> <p><u>03/04 - 02/05</u></p> <ul style="list-style-type: none"> <li>Draft and promulgate stream protection policy (at a minimum, adopt State Construction Permit standard)</li> <li>Require development community to identify stream miles affected, buffer zones.</li> <li>Develop an assessment program for streams within City limits</li> </ul> <p><u>03/05- 02/06</u></p> <ul style="list-style-type: none"> <li>Walk stream miles and provide an assessment on physical characteristics.</li> <li>Identify capital improvements where possible in basins of concern.</li> </ul>	City Engineer
Operation and Maintenance	<p>Post-development operation and maintenance of all facilities needs to be identified and characterized as to responsibility, minimum requirements, etc.</p> <p>Proper training of staff for maintenance of system should be on-going.</p>	<p><u>03/03 – 02/04</u></p> <ul style="list-style-type: none"> <li>Coordination meetings with City staff to determine objectives for the City</li> </ul> <p><u>03/04 - 02/05</u></p> <ul style="list-style-type: none"> <li>Draft operation and maintenance policy. Include who maintains, level of maintenance and enforcement clauses.</li> <li>Establish a program to prioritize basins of concern</li> </ul> <p><u>03/05- 02/06</u></p> <ul style="list-style-type: none"> <li>Train staff on proper maintenance of system through existing State Agency training programs (ODNR, OEPA)</li> <li>Identify capital improvements where possible in basins of concern.</li> </ul> <p><u>3/06-2/07</u></p> <ul style="list-style-type: none"> <li>Train staff on proper maintenance of system through existing State Agency training programs (ODNR, OEPA)</li> </ul> <p><u>3/07- 03/08</u></p> <ul style="list-style-type: none"> <li>Train staff on proper maintenance of system through existing State Agency training programs.</li> </ul>	City Engineer

**Pollution Prevention/Good Housekeeping**

The City does not have a formalized program specifically focused on storm water management for City employees. However, the City has already commenced with various programs that dovetail well with the goals of this minimum control. Appropriate measurable goals for this minimum control largely reflect a gathering of existing information and the formalizing of procedures now in place.

City of Gahanna has a variety of programs in place to provide ‘good housekeeping’. These programs include the following:

- The proper disposal of waste oils and greases used in the City’s maintenance facilities.
- The careful use of salt and grits during snow removal periods using measures appropriate to conditions.
- The enclosed storage of all City salt and grits
- Spraying for weed control
- Very limited pesticide/herbicide use on City-owned property

**Pollution Prevention Measurable Goals**

BMP	Strategy	Measurable Goal	Responsible Party
On-going Programs	The City of Gahanna will continue with existing programs that have a positive effect on staff storm water education.	<p><u>On-going</u></p> <ul style="list-style-type: none"> <li>Proper disposal of waste oils and greases used in City maintenance facilities</li> <li>Salt and grit placement</li> <li>Compliance with ODOT erosion and sedimentation control standards during City road and bridge construction</li> </ul>	City Engineer Street Department
Training	The City of Gahanna has largely used on-the-job training of employees. This strategy will make use of existing State Agency programs to provide additional training.	<p><u>03/03-02/04</u></p> <ul style="list-style-type: none"> <li>Continue training of City personnel on proper disposal techniques</li> <li>Develop educational program for employees regarding good housekeeping</li> </ul> <p><u>03/04 – 03/08</u></p> <ul style="list-style-type: none"> <li>List the number of employees that have been trained on proper disposal techniques. List classes taken, as well as offeror.</li> </ul>	City Engineer Street Department

BMP	Strategy	Measurable Goal	Responsible Party
On-going Maintenance	Although the City provides adequate maintenance of the system, tracking actual maintenance activities will provide assurance that the asset is being maintained.	<p><u>03/03-02/04</u></p> <ul style="list-style-type: none"> <li>Inventory current City practices in maintenance areas</li> <li>Develop appropriate signage at City facilities reflecting good maintenance techniques</li> <li>Develop work order system for addressing and tracking citizen complaints and concerns.</li> </ul> <p><u>03/04 – 02/05</u></p> <ul style="list-style-type: none"> <li>Document the number of outfalls and curb inlets cleaned annually.</li> <li>Document the amount of deicing salt applied to streets. Document snowfall.</li> <li>Document number of complaints/concerns received and final disposition.</li> </ul> <p><u>03/05- 02/06</u></p> <ul style="list-style-type: none"> <li>Document number of complaints/concerns received and final disposition.</li> </ul> <p><u>3/06-2/07</u></p> <ul style="list-style-type: none"> <li>Document number of complaints/concerns received and final disposition.</li> </ul>	City Engineer Street Department
On-going Programs	The City already has several storm water-friendly programs in place. These will be further identified and refined for maximum surface water benefit.	<p><u>03/03-02/04</u></p> <ul style="list-style-type: none"> <li>Review salt and grit placement during snow events</li> </ul> <p><u>03/04 – 02/05</u></p> <ul style="list-style-type: none"> <li>Document the amount of deicing salt applied to streets. Document snowfall.</li> </ul> <p><u>03/05- 02/06</u></p> <ul style="list-style-type: none"> <li>Identify potential alternate methodology for weed control.</li> </ul>	City Engineer Street Department