



**CUYAHOGA COUNTY
ENGINEER'S
OFFICE**

**STORM WATER
MANAGEMENT
PROGRAM**

**2008
ANNUAL REPORT**

MARCH 26, 2009

DRAFT
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Appendix A Measurable Goals for Each MCM BMP

Table 1: BMP Measurable Goals for Public Involvement/Public Education MCM

Table 2: BMP Measurable Goals for Illicit Discharge & Detection MCM

Table 3: BMP Measurable Goals for Construction Site Storm Water Runoff MCM

Table 4: BMP Measurable Goals for Post-Construction MCM

Table 5: BMP Measurable Goals for Pollution Prevention/Good Housekeeping MCM

Appendix B Best Management Practices Summary

Section I: Introduction

On March 28, 2003, Cuyahoga County was approved (Ohio EPA Facility Permit Number: 3GQ10003*AG) for coverage under Ohio EPA NPDES General Permit OHQ100000.

The plan designed by Cuyahoga County to reduce the discharge of pollutants into our MS4 consists of two (2) separate Storm Water Management Programs (SWMPs). The first was prepared by the County Engineer's Office concerning its activities, and the second SWMP, primarily prepared by the Cuyahoga County Sanitary Engineer's Office, outlined the plan for activities that fall under the jurisdiction of the Board of County Commissioners. Together, these SWMPs comprise the complete Storm Water Management Program for Cuyahoga County.

Section 4.3 of the General Permit requires annual reports to the director starting one year after the date Ohio EPA has granted general permit coverage.

In April, 2004 the Cuyahoga County Engineer was named to fill the position of Cuyahoga County Sanitary Engineer. A result of this merger of the two offices has been that the County Engineer's Storm Water Management Plan Review Committee has merged with the Sanitary Engineer's Storm Water Management Plan Review Committee to form a single Cuyahoga County Storm Water Management Plan Review Committee.

As a result of the merger of the offices, the Annual Report for Cuyahoga County is being submitted as a single document.

On January 30, 2009 the next generation NPDES Phase Permit was issued by the Ohio Environmental Protection Agency. Based upon the OEPA's February 4, 2009 letter, Cuyahoga County has until May 4, 2009 to submit a Notice of Intent form authorizing discharges to our MS4.

As part of the new Permit, it would appear that major portions of Cuyahoga County's Storm Water Management Plan need to be updated. The SWMP will be updated as needed throughout 2009 and reported more fully with the Annual Report submitted for 2009 on April 1, 2010.

Section II: Appropriateness and Effectiveness of Selected BMPs

After the first five years of the NPDES Phase II program, Cuyahoga County is pleased with our selection of BMPs and their effectiveness. The implementation of the BMPs, over the course of the permit period has lead to the improvement of water quality within our jurisdictional area.

The composition of our Storm Water Management Plan Review Committee assures that the implementation of our selected BMPs will be County wide. . The County Engineer's Chief Highway Design Engineer is considered the Storm Water Manager. Beside the County Engineer/Sanitary Engineer and the administrative staff of the respective offices, our committee includes County Engineer Department Heads of the Bridge Design, Bridge Inspection and Maintenance, Construction, Highway Design, Maintenance, Public Information, Survey, and Transportation and Traffic Departments. From the Sanitary Engineer's Office the committee includes the Supervisor - Inspection and Permits, Operations Supervisor – Treatment Plants, Environmental Services Manager, Contract Coordinator, Building and Grounds Supervisor, Sewer Maintenance Manager, and Chief Engineer. A representative of the Cuyahoga County Planning Commission is also on the committee. Each member has been directly involved in the committee and with the implementation of the BMPs.

As can be seen in our Minimum Control Measure summaries for Construction, Post-Construction, and Good Housekeeping, much of the first years of the permit period were used to review and document our current practices and research alternatives. We found that new policies and procedures were being introduced by other organizations, probably in conjunction with their own individual Phase II permits. As an example, in January 2004, the Ohio Department of Transportation (ODOT) introduced their Post Construction Storm Water Management Interim Policy and provided training (which we attended). Using the information gathered in 2003 and 2004 concerning our current practices and potential alternatives we were able to make intelligent decisions concerning policies and practices that were implemented in 2005. In 2006, 2007 and 2008 we continued following the policies and practices implemented in 2005. We updated and modified our policies and practices in 2008 as additional information became available. As an example, ODOT's Post Construction Storm Water Management BMP's were updated quarterly and Cuyahoga County implemented ODOT's revisions into our plan.

We began providing storm water information to our employees and the public in 2003 through our Public Information and Public Education MCM BMPs. For much of the public, this was the first time they received information concerning storm water quality. We continued this practice in 2008 and found that we were not alone. Other municipalities and organizations were spreading the same message. We feel that, like many good marketing campaigns, the public's awareness of storm water issues has been raised by hearing the repeated message. We are confident that our efforts, combined with the efforts of many other organizations in Northeast Ohio, will result in increased awareness among the public of how their individual activities affect storm water quality.

Finally, through our Illicit Discharge MCM, we are continuing our efforts to have complete and accurate storm sewer system maps created and available. This will allow all our employees to be aware of illicit discharges and track the source. In particular, our Bridge Inspection crews come in contact with discharges into streams and rivers in their day-to-day work. They have developed a process for detecting and documenting illicit discharges. Our survey crews, maintenance personnel and construction inspectors are being trained to recognize and document illicit discharges that they may come across.

A summary of each BMP is included in Appendix A.

Section III: Progress Towards Achieving Identified Measurable Goals

Cuyahoga County has met all Measurable Goals identified for 2008 in our Storm Water Management Program. A summary sheet of each BMP including the name of the BMP, Responsible Party, 2008 Measurable Goal, Description of 2008 Progress, and 2009 Measurable Goal is included in Appendix A, Measurable Goals for Each MCM BMP.

Section IV: Status of Compliance with Permit Conditions

Cuyahoga County has complied with all permit conditions.

Cuyahoga County has met or exceeded the Measurable Goal for each BMP provided in our SWMP. A summary of each BMP including a Description of 2008 Progress is included in Appendix A of this report.

Section V: Summary of Storm Water Activities to be Implemented in 2009

Cuyahoga County has included a summary of each BMP in Appendix A. Besides the description of the BMP and discussion of progress in 2008, the summary includes the 2009 Measurable Goal for each BMP identified in our Storm Water Management Program.

The Storm Water Management Plan will be reviewed in detail and revised as necessary to comply with the NPDES Phase II MS4 General Permit. The new NPDES MS4 Permit (OHQ000002) will require major changes to the County's SWMP. The SWMP will be updated throughout 2009 and will be submitted to the OEPA with our 2009 Annual Report by April 1, 2010.