

Butler County Storm Water District

Butler County, Ohio



NPDES Phase II Annual Report Permit Year 2006

Ohio EPA General NPDES General Permit: OHQ000001

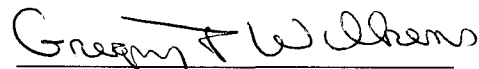
Ohio EPA Facility Permit Number: 1GQ00051*AG

Effective: April 7, 2003 - April 6, 2008

Butler County Storm Water District

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, 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."



Gregory J. Wilkens, P.E., P.S.
Storm Water Engineer
Butler County

TABLE OF CONTENTS

Introduction.....	4
 Progress by Minimum Control Measure	
MCM #1 - Public Education and Outreach on Storm Water Impacts.....	5
MCM #2 - Public Involvement/Participation	8
MCM #3 - Illicit Discharge Detection and Elimination.....	11
MCM #4 - Construction Site Storm Water Runoff Control.....	15
MCM #5 - Post-Construction Storm Water Management.....	17
MCM #6 - Pollution Prevention/Good Housekeeping for Municipal Operations.....	18
 Additional Bonus Activities.....	 21
 Miami Conservancy District Activities for Collaborating Communities.....	 24
 5 Year Implementation Matrix.....	 27

INTRODUCTION

The U.S. Environmental Protection Agency (EPA) in December 1999, initiated rules that after March 10, 2003 required local communities to implement and administer an NPDES Phase II Storm Water Program. This “unfunded mandate” requires that all local communities within specified urbanized areas must institute six minimum control measures and establish Best Management Practices (BMP’s) to substantially reduce storm water pollution to our lakes, rivers and streams.

In 2002, Butler County initiated a study to evaluate methods to address these new federal regulations. A Steering Committee was formed with representatives from many of the local governments in the County, including ten of the thirteen townships, five cities and one village, along with other interested parties including the Chamber of Commerce, developers, the Farm Bureau, conservation groups and the Ohio EPA. Over a nine month period, this group reviewed a number of issues including the NPDES Phase II permit requirements, alternative management structures to address this regulation, as well as methods and limits for program funding.

Based upon the recommendation of this Steering Committee, the Butler County Commissioners approved legislation in March 2003 to form the Butler County Storm Water District under Section 6117 of the Ohio Revised Code (ORC). The Commissioners also authorized submitting a permit application to Ohio EPA by March 10, 2003.

On April 7, 2003, the Ohio EPA issued a letter stating that the Butler County Storm Water District was approved for coverage under Ohio EPA NPDES General Permit OHQ000001.

Therefore, in fulfillment of the NPDES Phase II permit reporting requirements, the Butler County Storm Water District (Ohio EPA Facility Permit Number 1GQ00051*AG) submits the following report to the Ohio EPA which includes the status of compliance with the permit conditions, an assessment of the appropriateness of the BMPs and progress towards achieving the measurable goals for each of the six minimum control measures. The report includes a summary of the activities to be undertaken during the next reporting cycle, including an implementation schedule. As required, the report also will include any changes to BMPs or measurable goals and results of information collected and analyzed, if any, during the reporting period. The report will also contain proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements. Details will include notice of where we are relying on another government entity to satisfy some of our permit obligations, if applicable.

Minimum Control Measure #1

PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS

Implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities to the community, in accordance with 3.2.1.1 of Ohio's General Permit.

1.1 Media Awareness Packet

1.1a Activity: Media Release Packet

Date: 4/1/2007- 9/30/2007

The Butler County Storm Water District has partnered with the South West Ohio Storm Water Collaborative and the local media to create a radio advertising campaign informing residents of illicit discharge and non-point source pollution issues. The result is a campaign that includes 6 months of advertising between April 2007 – September 2007. During that time our message will be broadcast by the following radio stations: 55KRC, MIX 94.1 FM, KISS 107.1 FM, and 1360 AM The Source.

In addition to reaching residents of 67 Phase II regulated communities, who will save the expense of implementing the program individually, we were able at no added cost to reach the non-urbanized areas of Butler, Hamilton, and Warren counties. Based on information from our media partners, we estimate conservatively that 417,800 individuals in the Greater Cincinnati and tri-state area will hear one or more pieces of the non-point source pollution advertising campaign.

For more information on the South West Ohio Storm Water Collaborative and the non-point source pollution advertising campaign, please visit www.saveohiowater.org.

1.2 Education Program for Local Schools

1.2a Activity: Draft a Water Curricula Program for children in grades K-3

Date: 4/7/2006 - 4/6/2007

The Butler County Storm Water District, in conjunction with the Butler Soil and Water Conservancy District, reviewed and adopted the "Project WET Curriculum and Activity Guide" to be used as the Water Curricula Program for children in grades K-3. In order to develop a Water Curricula Program that would satisfy local school and state teaching standards as well as accommodate diverse learning styles and provide educators with a large selection of creative teaching strategies, the Butler County Storm Water District reviewed and adopted the "Project Wet Curriculum and Activity Guide".

1.2b Activity: Education Program for Local Schools

Date: 4/7/2006 - 4/6/2007

This year the Butler Soil and Water Conservation District conducted 85 education programs within NPDES Phase II affected areas in Butler County. These programs reached 1976 students and 100 adults. The Butler Soil and Water Conservation District offers programs and resources to local schools/groups. Full day workshops and introductory programs for the following programs are available: Project WET (Water Education for Teachers), Project WILD Aquatics, stream walks, stream monitoring, and On the Trail of Non-Point Pollution Sources.

1.2c Activity: Public Education Program for Local Schools

Date: 4/7/2006 - 4/6/2007

The Butler County Department of Environmental Services provides a variety of educational programs to school districts within Butler County. During 2006, the environmental educator made 199 presentations relating to water quality and litter prevention that reached over 5,304 students.

1.2d Activity: Public Education Program - Project WILD Aquatic

Date: 3/16/2006

The Butler Soil and Water Conservation District held a Project WILD Aquatic workshop for seventeen (17) teachers at the Butler SWCD offices, in Hamilton, Ohio. The Project WILD Aquatic K-12 Curriculum and Activity Guide emphasizes aquatic wildlife and aquatic ecosystems.

1.2e Activity: Education Program – Healthy Water Healthy People Workshop

Date: 8/9/2006

The Butler Soil and Water Conservation District held a Healthy Water, Healthy People workshop for six (6) teachers at the Butler SWCD offices, in Hamilton, Ohio. Healthy Water, Healthy People - an innovative water quality education program sponsored by Project WET and the Hach Scientific Foundation, offers hands-on activity guides, testing kits, training, and much more. Unit topics cover: Water Quality Monitoring; General Science Principles; Drinking Water, Healthy People and Communities; Internet-based Research and Activities: Science Projects/ Scientific Methods; Aquatic Ecology; Restoration; Non-point Source Pollution; and Water Management.

1.2f Activity: Public Education Program - Project WET Workshop

Date: 10/27/2006

The Butler Soil and Water Conservation District held a Project WET (Water Education for Teachers) workshop for seven (7) teachers at the Butler SWCD offices, in Hamilton, Ohio. Project WET focuses on the importance and value of water throughout our lives, as well as introducing the concept of watersheds and how water flows through and affects them. It shows educators how to integrate these ideas into almost any subject, including science, math, language arts, social studies and environmental studies. During the six-hour session, educators participated in several “hands-on, minds-on” activities, both indoors and out.

1.3 Storm Drain Labeling

1.3a Activity: Storm Drain Labeling

Date: 2/11/2006

City of Trenton - 300 storm drain labels installed. Illicit Discharge information distributed by the Edgewood High School Honor Students. Storm drain labels are simple and effective best management practices to prevent non-point source pollution from entering waterways in our community and those downstream. The stencils are intended to make urban and suburban homeowners think twice before dumping material down the storm sewers and into rivers, streams, and ponds in their neighborhoods.

1.3b Activity: Storm Drain Labeling

Date: 3/17/2006

Liberty Township - 150 storm drain labels installed and illicit discharge information distributed by the Girl Scouts at Willowbrooks subdivision. Storm drain labels are simple and effective best management practices to prevent non-point source pollution from entering waterways in our community and those downstream. The stencils are intended to make urban and suburban homeowners think twice before dumping material down the storm sewers and into rivers, streams, and ponds in their neighborhoods.

1.3c Activity: Storm Drain Labeling

Date: 4/29/2006

City of Trenton - 110 storm drain labels installed and illicit discharge information distributed by the Edgewood Future Farmers of America. Storm drain labels are simple and effective best management practices to prevent non-point source pollution from entering waterways in our community and those downstream. The stencils are intended to make urban and suburban homeowners think twice before dumping material down the storm sewers and into rivers, streams, and ponds in their neighborhoods.

1.4 Document Decision Process

1.4a Activity: Phase II Application & Database Information System (PADIS)

Date: 4/7/2006 - 4/6/2007

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

**Minimum Control Measure #2
PUBLIC INVOLVEMENT/PARTICIPATION**

Implement a public involvement and participation program which at a minimum complies with State and local public notice requirements, in accordance with 3.2.2.1 of Ohio's General Permit.

2.1 Public Meetings and Citizen Discussion Panels

**2.1a Activity: Public Meetings and Citizen Discussion Panel – Ohio Valley Development Council
Date: 2/3/2006**

The Butler County Storm Water District met with the Ohio Valley Development Council to discuss subdivision regulations, detention requirements, and post-construction best management practices.

On March 19, 2007, The Butler County Storm Water District held a public meeting to discuss the findings and recommendations of the Trenton Area Storm Water Study. This meeting was held at the St. Clair Township Community Center and was attended by representatives from St. Clair Township, city of Trenton, Butler Soil and Water Conservation District, Hamilton to New Baltimore Groundwater Consortium, local industry, and residents from the study area.

**2.1b Activity: Public Meetings and Citizen Discussion Panel – Butler County Fair
Date: 7/23/2006 - 7/29/2006**

The Butler County Storm Water District presented a week long open-house forum at the Butler County Fair to allow the public an opportunity review and discuss the Butler County Storm Water Management Plan and the Annual Report. Informational brochures were also distributed about Non-point Source Pollution and Illicit Discharges. An estimated 2500 people attended the event.

**2.1c Activity: Public Presentation - OKI Groundwater Committee
Date: 9/6/2006**

At a public meeting held by the OKI Groundwater Committee, the Butler County Storm Water District provided preliminary results on the Trenton Area Storm Water Study.

The goal of the study is to assess stormwater runoff, flooding, groundwater recharge, and water quality associated with Jackson Ditch and its tributary streams. The results of the study will predict future conditions in the watershed and provide increased protection of the area's water resources, as well as flood protection for residents and stakeholders along the stream.

OKI's Groundwater Committee promotes coordinated groundwater management for the Great Miami/Little Miami Buried Valley Aquifer System, a resource that supplies two-thirds of a million people with drinking water in OKI's southwest Ohio region. The committee focuses on such issues such as technical studies of groundwater quality, impacts of drought conditions, pumping trends, surface water and groundwater interactions, and emerging state and federal regulations.

Committee members include public and private water suppliers, businesses and industries, health districts, and planning organizations, and representatives from several relevant state agencies serve in an ex officio capacity.

**2.1d Activity: Public Meetings and Citizen Discussion Panel – Ohio Valley Development Council
Date: 9/20/2006**

The Butler County Storm Water District met with the Ohio Valley Development Council to discuss draft subdivision regulations, detention requirements, and post-construction best management practices.

**2.1e Activity: Public Presentation - Butler Soil and Water Conservation District Annual Meeting
Date: 10/26/2006**

The Butler County Storm Water District presented a poster display at the Butler Soil and Water Conservation District's Annual Meeting. This meeting provided an opportunity to inform the public about the District's Storm Water Management Plan and allowed for public comment. Informational brochures were also distributed about Non-point Source Pollution and Illicit Discharges.

**2.1f Activity: Public Presentation - Trenton Area Storm Water Study
Date: 3/19/2007**

In order to protect the aquifer in the face of continued development, the Butler County Storm Water District commissioned Fuller, Mossbarger, Scott & May Engineers, Inc. (FMSM) to develop a storm water management plan for the watershed. The firm created a series of hypothetical land use models which demonstrated that the future quality and quantity of water in the watershed is a function of land use. The final plan provides practical recommendations for storm water management that will protect the aquifer from pollution and minimize the flooding that might otherwise result from development.

On March 19, 2007, The Butler County Storm Water District held a public meeting to discuss the findings and recommendations of the Trenton Area Storm Water Study. This meeting was held at the St. Clair Township Community Center and was attended by representatives from St. Clair Township, city of Trenton, Butler Soil and Water Conservation District, Hamilton to New Baltimore Groundwater Consortium, local industry, and residents from the study area.

2.2 Stream Clean-up & Monitoring

**2.2a Activity: Volunteer Stream Monitoring - Butler County Stream Team
Date: 4/7/2006 - 4/6/2007**

The Butler County Storm Water District teamed up with Miami University Institute for Environmental Science and the Butler Soil and Water Conservation District to promote and implement a monthly volunteer stream monitoring program to assess local stream quality. The partners jointly determined the criteria for establishing a successful volunteer monitoring program which includes a safe sample collecting method, a realistic sampling and data quality goal and a unique outreach approach. A protocol for the lab and field procedures is currently prepared and will be submitted to the Ohio EPA Credible Data Program. The supervisors of the volunteer Stream Team program will be certified by Ohio EPA as level II Credible Data Collectors for Stream Habitat and Chemistry Assessments. There are 20 fixed locations from watersheds throughout Butler County where samples are collected by Stream Team staff and volunteers each month. Additional samples are also accepted from locations chosen by the volunteer collecting the sample. When samples are returned to the lab, they are analyzed for six parameters: nitrates, phosphates, bacteria, conductivity, total dissolved solids, pH, and turbidity. For more information concerning the Butler County Stream Team, visit : www.butlercountystreamteam.org

**2.2b Activity: Stream Walks
Date: 4/7/2006 - 4/6/2007**

The Butler Soil and Water Conservation District conducted 12 challenging, yet entertaining, educational stream and/or wetland walks for 415 children and 53 adults. Local streams included Gregory Creek, Indian Creek, and the Great Miami River. Wetlands that were visited include Rentschler Park and the Liberty Township Wetlands Park. Topics included water quality (chemical, biological, physical attributes) stream ecology, stream attributes, and watershed mapping.

**2.2c Activity: Stream Clean-up - Clean Sweep of the Great Miami River
Date: 7/7/2006 - 7/8/2006**

On July 7th and 8th more than 1,000 volunteers participated in the "Clean Sweep of the Great Miami River" – an effort to clean up the entire 160-mile river in one weekend. In the Butler County area, approximately 400 participants collected 10.24 tons of litter at six sites along the Great Miami River in Butler (6.13 tons collected) and Hamilton (4.11 tons collected) Counties.

2.3 Storm Water Hotline, Database, and Response Program

2.3a Activity: Storm Water Database and Response Program

Date: 4/7/2006 - 4/6/2007

The Butler County Storm Water District created a database and response program to document citizen inquiries/complaints and accurately record contact information. The database and response program to date has recorded over 390 customer inquiries. The database tracks information specific to the customers address, method of contact, nature of inquiry, and detail of inquiry/complaint resolution.

2.3b Activity: Storm Water Hotline

Date: 4/7/2006 - 4/6/2007

In order to provide easy access to Storm Water District Staff and to provide a quick response to citizen inquiries and complaints concerning storm water, the Butler County Storm Water District continues to dedicate a specific telephone number to serve as the Storm Water Hotline (513) 785-4120. The Storm Water Hotline provides prompt service to the water quality concerns of residents in the Butler County Storm Water District. The hotline enables citizens to call 24-hours a day, seven days a week to report any storm water concerns. The hotline number is published on the Storm Water District website and it is included in all Media Release information.

2.3c Activity: Storm Water Hotline - Southwest Ohio Storm Water Collaborative

Date: 4/7/2006 - 4/6/2007

The Butler County Storm Water District has partnered with the South West Ohio Storm Water Collaborative to create a centralized storm water hotline number (513-946-3999) for Butler, Hamilton and Warren Counties. The Storm Water Hotline provides prompt service to residents in a three county region. The automated phone service directs the caller to the appropriate jurisdiction and enables citizens to call 24-hours a day, seven days a week to report any storm water concerns. Over the next six months, the hotline number will be publicized through the use of radio and billboard advertisements. For more information on the South West Ohio Storm Water Collaborative and the non-point source pollution advertising campaign, please visit www.saveohiowater.org.

2.4 Document the Decision Process

2.4a Activity: Phase II Application & Database Information System (PADIS)

Date: 4/7/2006 - 4/6/2007

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

Minimum Control Measure #3
ILLICIT DISCHARGE DETECTION AND ELIMINATION

Create a storm sewer system map, in accordance with 3.2.3.1.2 of Ohio's General Permit.

3.1 Illicit Discharge Plan

3.1a Activity: Illicit Discharge Plan

Date: 4/7/2006 - 4/6/2007

The Storm Water District has created an Illicit Discharge plan to document and respond to illicit discharges in a timely manner. Many times these discharges involve an accidental or unauthorized release of contaminants. Types of Illicit discharges could include spills, intentional dumping or industrial emissions. This plan details the steps to investigate, document, and report an illicit discharge as quickly as possible. The plan will be updated annually as additional BMPs are implemented.

3.2 Locate Problem Areas

3.2a Activity: Locate Problem Areas

Date: 4/7/2006 - 4/6/2007

The Butler County Storm Water District created a database and response program to document and accurately record contact information regarding spill reports, illicit discharges, illegal dumping, and citizen complaints. The information obtained from the hotline and database can be mapped with the use of the county GIS system. Problem areas can be viewed graphically based on type, location, and frequency. This map will be updated on a regular basis to help identify problem areas.

3.2b Activity: Locate Problem Areas – Outfall & Stream Mapping Project

Date: 4/7/2006 - 11/2/2006

The Butler County Storm Water District contracted with DLZ Ohio, Inc. for the mapping of outfalls and the chemical testing of dry weather flows from the existing county storm sewer system. This project consisted of crews walking local streams to note the location of problem areas within streams and riparian areas where evidence of illegal dumping has taken place.

3.3 Storm Sewer System Map with Outfalls

3.3a Activity: Storm Sewer System Mapping

Date: 4/7/2003 - 4/6/2008

Using "As-Built" data originating from the 1970's and forward, 100% of known sewer systems have been mapped in the Phase II affected areas within the county. Each year as new development occurs throughout the District, the sewer map will be reviewed and updated.

3.4 HSTS List and Map

3.4a Activity: HSTS List and Map

Date: 4/7/2006 - 4/6/2007

The Butler County Storm Water District researched archived HSTS records held by the Butler County Health Department. The information can be viewed graphically with the use of the county GIS system. A map has been made identifying existing HSTS within the District. Updates are made on an annual basis. All new applications for HSTS will be added to that data.

3.5 Illicit Discharge Ordinance

3.5a Activity: Develop a draft of Illicit Discharge Ordinance

Date: 4/7/2006 - 4/6/2007

To fulfill the requirement of the Illicit Discharge Detection and Elimination Minimum Control Measure, Butler County is required to have an illicit discharge ordinance in place before the end of the permit term in March 2008. To facilitate timely compliance with this portion of the permit, the Butler County Storm Water District has selected outside legal counsel to advise us on this project. Ordinance is scheduled to be implemented and enforced prior to March 2008.

3.6 Non-Storm Water Discharge Plan

3.6a Activity: Non-Storm Water Discharge Plan

Date: 4/7/2007 - 4/6/2008

Non-Storm Water Discharge Plan activity deferred to year 5 (2007). BMP's are scheduled to be implemented and enforced within five years.

3.7 Dry Weather Screening

3.7a Activity: Dry Weather Screening

Date: 4/7/2006 - 11/2/2006

The Butler County Storm Water District contracted with DLZ Ohio, Inc. for the mapping of outfalls and the chemical testing of dry weather flows from the existing county storm sewer system. This project consisted of crews walking local streams to note the location of existing storm drain outfalls, to note the location of illicit connections, and to conduct water quality sampling. More than 3221 outfalls (municipal and private) have been mapped and more than 1246 outfalls have been observed during dry weather.

3.8 Chemical Field Tests

3.8a Activity: Chemical Field Tests

Date: 4/7/2006 - 4/6/2007

The Butler County Storm Water District has contracted with DLZ Ohio, Inc. for the mapping of outfalls and the chemical testing of dry weather flows from the existing county storm sewer system. This project will consist of crews walking local streams to note the location of existing storm drain outfalls, to note the location of illicit connections, and to conduct water quality sampling. The work described herein is anticipated to be completed prior to March 2008. The number of chemical field tests conducted for the 2006 year permit was 294.

3.9 Coordinate screening & testing plan with Local Governments

3.9a Activity: Coordinate screening & testing plan with Local Governments

Date: 4/7/2006 - 4/6/2007

The Butler County Storm Water District has contracted with DLZ Ohio, Inc. for the mapping of outfalls and the chemical testing of dry weather flows from the existing county storm sewer system. This project included the development of a Protocol manual for screening and testing. The Screening and Testing plan will be adopted and continued by the Storm Water District and local governments.

3.10 Provide information about the Hazards of Illicit Discharges

3.10a Activity: Public Presentations - Hazards of Illicit Discharges

Date: 4/7/2006 - 4/6/2007

In an effort to create awareness, Storm Water District officials conducted an informational campaign that included citizen groups placing labels on storm drains throughout neighborhoods within the District. Each labeling event includes a presentation to participants on the hazards of illicit discharges. Door hangers were also distributed to inform local residents about the purpose of the storm drain labels and the Hazards of Illicit Discharge.

3.10b Activity: Public Presentations - Hazards of Illicit Discharges – Boy Scouts
Date: 5/10/2006

A representative from the Butler County Storm Water District participated in the Boy Scouts – Round Table Meeting at Fairfield Middle School. A presentation was given highlighting the hazards of Illicit Discharges and the programs available for volunteer activities.

3.10c Activity: News Releases on Illicit Discharges - Butler County Fair
Date: 7/23/2006 - 7/29/2006

The Butler Soil and Water Conservation District participated in the Butler County Fair – Farm Zone with an interactive stream table and a clean versus polluted stream display to educate children on water quality and the hazards of illicit discharges. Also displayed was the Hamilton County SWCD's Soil Tent. This tent mural showed the underground world of wildlife, pollution and much more.

3.10d Activity: Public Presentations - Hazards of Illicit Discharges -Tri-County Nazarene Church
Date: 8/9/2006

A 30 minute presentation was given to students of the Tri-County Nazarene Church. The students are pursuing their Environmental Badge. Topics included storm water pollution, water quality and the hazards of Illicit discharges. Approximately 8 kids and 3 adults were present.

3.10e Activity: Public Presentations - Hazards of Illicit Discharges - Miami University
Date: 8/18/2006

The Butler County Storm Water District participated in the Miami University Environmental Graduate Student Orientation Program. Representatives from county environmental agencies gave short presentations describing the most important environmental concerns facing the county and how their division addresses the problems. The Butler County Storm Water District discussed Non-point source pollution and illicit discharges.

3.11 Illicit Discharge Brochure

3.11a Activity: Illicit Discharge Brochure
Date: 8/2/2006

In an effort to inform public employees, businesses and the general public of hazards associated with illicit discharges and improper disposal of waste, the Butler County Storm Water District has distributed "After the Storm" & "Make Your Home the Solution to Pollution" brochures to 13 member governments. Fifty copies of each brochure were provided to co-permittees for distribution at public meetings and in government building lobby areas.

3.11b Activity: Illicit Discharge Brochure
Date: 10/13/2006

In an effort to inform the general public of hazards associated with illicit discharges and improper disposal of waste, the Butler County Storm Water District has distributed "Discover Storm Water" Project WET activity guides to 1500 children at the Butler County Water Festival.

3.12 News Releases on Illicit Discharges

3.12a Activity: Illicit Discharge and Non-point Source Pollution Media campaign
Date: 4/1/2006 - 9/30/2006

The Butler County Storm Water District partnered with the South West Ohio Storm Water Collaborative and the local media to create a radio advertising campaign informing residents of illicit discharge and non-point source pollution issues. The result was a campaign that included 6 months of advertising between March 27, 2006 – September 25, 2006. During that time our

message was broadcast 464 times by the following radio stations: WAQZ, WUBE, WKRQ, WGRR.

In addition to reaching residents of 67 Phase II regulated communities, who will save the expense of implementing the program individually, we were able at no added cost to reach the non-urbanized areas of Butler, Hamilton, and Warren counties. Based on information from our media partners, we estimate conservatively that 417,800 individuals in the Greater Cincinnati and tri-state area will hear one or more pieces of the non-point source pollution advertising campaign.

For more information on the South West Ohio Storm Water Collaborative and the illicit discharge & non-point source pollution advertising campaign, please visit www.saveohiowater.org.

**3.12b Activity: News Releases on Illicit Discharges - Clean Sweep of the Great Miami River
Date: 10/2/2006**

A media release was prepared and distributed concerning Clean Sweep of the Great Miami River. The article highlighted stream clean-ups as a simple best management practice (BMP) to improve water quality in urban and suburban settings. Stream clean-ups are an excellent method to allow local citizens a chance to see and experience their rivers and streams, while at the same time providing citizens with the opportunity to understand how the impairment of water quality in their community is caused by illicit discharges and illegal dumping. This information was published in the October edition of the Butler Soil and Water Conservation District newsletter.

3.13 Monitor BMP's

**3.13a Activity: Monitor BMP's
Date: 4/7/2006 - 4/6/2007**

The Butler County Storm Water District is currently designing a bioretention facility to be installed on the Butler County Engineer's Office property located at 1921 Fairgrove Avenue in Hamilton, Ohio. The design of the bioretention area will allow for the collection and treatment of storm water runoff from existing paved areas. A sampling station will be set up to collect runoff as it enters the BMP and a second sampling station will be installed to collect effluent from the bioretention underdrain system. Data will be collected during each rain event over the next few years to track the performance of the unit. In addition to providing pollutant removal, the bioretention facility will add aesthetic appeal to a currently bare area. The bioretention facility is the first of several best management practices which will be installed and monitored at this site. Installation of the bioretention facility is expected to occur in April 2007.

3.14 Document the Decision Process

**3.14a Activity: Phase II Application & Database Information System (PADIS)
Date: 4/7/2006 - 4/6/2007**

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

Minimum Control Measure #4
CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

Create an ordinance or other regulation requiring erosion and sediment controls on disturbed sites equal to or greater than one acre that includes sanctions to help ensure compliance, in accordance with 3.2.4.1.1 of Ohio's General Permit.

4.1 Construction Control Ordinance

4.1a Activity: Construction Control Ordinance

Date: 3/12/2007 - 3/12/2007

The Butler County Subdivision regulations were revised in March of 2007 to include sediment and erosion control requirements.

4.2 Runoff Control BMP's

4.2a Activity: Runoff Control BMP's

Date: 4/7/2006 - 4/6/2007

The Butler County subdivision regulations currently include provisions for peak runoff control. The regulations are being reviewed to include more stringent requirements. The BMP plan will be consistent with the ODNR Rain Water and Land Development Manual and the ODOT Location and Design Manual.

4.3 Erosion control BMP's

4.3a Activity: Erosion Control BMP's

Date: 3/12/2007

Erosion and Sediment Control Regulations: Article VII were adopted as part of the of the Butler County Subdivision regulations on March 12, 2007. The effective date for the changes is April 12, 2007. For more information, visit: <http://www.butlerswcd.org/Urban/ESC.htm>

4.4 Sediment Control BMP's

4.4a Activity: Sediment Control BMP's

Date: 3/12/2007

Erosion and Sediment Control Regulations: Article VII were adopted as part of the of the Butler County Subdivision regulations on March 12, 2007. The effective date for the changes is April 12, 2007. For more information, visit: <http://www.butlerswcd.org/Urban/ESC.htm>

4.5 Site Plan Review and Inspection Process

4.5a Activity: Site Plan Review and Inspection Process

Date: 4/7/2006 - 4/6/2008

Site Plans are currently being reviewed for drainage and runoff. A mechanism is in place with the County Building Department to have the County Engineers Office and the Storm Water District to review any permit application for commercial development. As new regulations are implemented under the Butler County Subdivision regulations, the site plan review and inspection process will be updated as part of the building permit process.

4.6 Document the Decision Process

4.6a Activity: Phase II Application & Database Information System (PADIS)

Date: 4/7/2006 - 4/6/2007

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

Minimum Control Measure #5

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

Develop, implement, and enforce a program to address storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre, in accordance with 3.2.5.1.1 of the Ohio General Permit.

5.1 Post construction Ordinance with Riparian Corridor (RC) and Buffer Zone (BZ)

5.1a Activity: Post Construction Ordinance with Riparian Corridor (RC) and Buffer Zone (BZ)

Date: 4/7/2006 - 4/6/2008

County flood regulations currently require RC and BZ on all first order channels within FEMA defined floodplains. (Butler County Flood Damage Prevention Regulations 5.2-11 as adopted 06/10/2002). Revisions are being made to require RC and BZ on all blue line streams, second order or greater, as defined within the USGS Quadrangle.

5.2 Long Term RC and BZ Stability Plan

5.2a Activity: Long Term RC and BZ Stability Plan

Date: 4/7/2003 - 4/6/2008

Long term RC and BZ stability will be implemented and enforced within five years. Home Owner Associations (HOA), Property Owner Associations, Township Parks maintain Buffer Zones. A Flood Permit is required from the County to allow any maintenance or work occurring in these areas. County flood regulations require RC and BZ on all blue line streams. (Butler County Flood Damage Prevention Regulations 5.2-11 as adopted 06/10/2002).

5.3 Update Zoning Ordinances

5.3a Activity: Update Zoning Ordinances

Date: 4/21/2006

Butler County zoning ordinance was updated on April 21, 2006 to address farmland preservation, open space requirements, and planned conservation development districts.

5.4 Long Term Long Term Stability of Zoning Ordinances

5.4a Activity: Long Term Stability of Zoning Ordinances

Date: 4/7/2006 - 4/6/2007

Long Term Stability of Zoning Ordinances is based upon the requirement in the Ohio Revised Code for changes and modification of zoning code. Zoning ordinances will always be in effect and enforced through each entities respective zoning board.

5.5 Document the Decision Process

5.5a Activity: Phase II Application & Database Information System (PADIS)

Date: 4/7/2006 - 4/6/2007

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

Minimum Control Measure #6

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Develop and implement an operation and maintenance program that includes a training component to prevent/reduce pollutant runoff from municipal operations, in accordance with 3.2.6.1.1 of Ohio's General Permit.

6.1a Activity: Train Government Employees - BCDES Administrative Center

Date: 4/7/2006 - 4/6/2007

A Pollution Prevention (P2) program has been implemented for the three floors of administrative and office space utilized by BCDES. P2 efforts focus on solid waste reduction, recycling awareness and energy efficiency. A work force of over 50 employees participates in the program. BCDES' "P2 Team" meets about twice per year to discuss the effectiveness of the program and potential areas for program expansion.

6.1b Activity: Train Government Employees - LeSourdsville Regional Water Reclamation Facility

Date: 4/7/2006 - 4/6/2007

A P2 program focused on solid waste reduction, recycling awareness and energy efficiency has been implemented for this facility. Over 80 employees located at LeSourdsville participate in the program. BCDES' "P2 Team" meets about twice per year to discuss the effectiveness of the program and potential areas for program expansion.

A Storm Water Pollution Prevention Plan (SWPPP) has been developed and implemented for LeSourdsville per a requirement of the facility's general industrial storm water discharge permit. The SWPPP requires regular site monitoring, inspections, and employee training. The Plan also requires the identification of storm water pollutant sources, and the implementation of best management practices (BMPs) for the control of said sources. BCDES' Regulatory Compliance Team, which meets twice per month, ensures that all requirements related to storm water management are met.

A Spill Prevention Control and Countermeasure (SPCC) Plan has also been developed and implemented for this facility. Monthly inspections and annual training (emergency response) are also required by the Plan. BCDES' Regulatory Compliance Team, which meets twice per month, ensures that all requirements related to spill prevention and control are met.

6.2 Maintenance Schedule

6.2a Activity: Maintenance Schedule

Date: 4/7/2004 - 4/6/2008

The Storm Water District has compiled existing maintenance plan information for fleet vehicles and operation/construction equipment in the Butler County Engineers Office. This plan describes the number and types of vehicles, the recommended maintenance checklists, and record keeping practices. The plan will be expanded to include participating government maintenance facilities and it will be updated annually as additional BMPs are implemented.

6.3 Inspection Plan for BMP's

6.3a Activity: Inspection Plan for BMP's

Date: 4/7/2004 - 4/6/2008

The Butler County Engineers Office coordinates and plans inspections of all drainage structures within the District on an annual basis. Facilities and structures have maintenance performed as necessary based upon inspection results. A report is issued annually to the County commissioners on all inspection and maintenance activities.

6.4 Illegal Dumping and Control Program

6.4a Activity: Illegal Dumping and Control Program

Date: 4/7/2006 - 4/6/2007

An Illegal Dumping and Control Program has been drafted to include radio advertising, billboard advertising, clean-up events, recycling events, and anti-dumping signage posted at local stream crossings. Program activities are reviewed annually and additional elements will be added as needed.

6.4b Activity: P.R.I.D.E. Program

Date: 4/7/2006 - 4/6/2007

PRIDE stands for "Providing Responsibilities for Inmates through Duties for the Environment". Led by the littercrew supervisor, inmates from the Resolutions medium security prison collect litter along public rights-of-ways and in parks and, sometimes, assist in the removal of waste from illegal dumpsites.

• PRIDE Crew "common litter" collected in 2006 (in pounds):

1st Qtr 24,740

2nd Qtr 10,502

3rd Qtr No Data

4th Qtr 681 bags of litter

• PRIDE Crew "other materials" collected in 2006 (in pounds):

Scrap metal 1,370

Cans 1,163

Tires 65 tires

Wood 1,147

• PRIDE Crew miles traveled in 2006:

1st Qtr 113.2

2nd Qtr 63.78

3rd Qtr No Data

4th Qtr 32

6.4c Activity: Computer Recycling Event

Date: 3/1/2006 - 9/30/2006

Computer Recycling events are sponsored by Butler County's Solid Waste Management District. The 2006 events held at the former Butler County Jail resulted in the collection of 35 tons of computer equipment.

6.4d Activity: Household Hazardous Waste Program

Date: 6/1/2006 - 9/30/2006

Household Hazardous Waste Recycling Events are sponsored by Butler County's Solid Waste Management District. The 2006 events resulted in 108 tons of household hazardous waste collected for safe processing, disposal, or recycling.

6.4e Activity: Appliance & Electronics Collection at Miami University Hamilton Campus

Date: 6/24/2006

Household Appliance Collection Day is sponsored by Butler County's Solid Waste Management District. The June event held at the Miami University Hamilton Campus resulted in the collection of 38.61 tons of freon containing appliances, 12.8 tons of non-freon appliances, and 14 tons of televisions and computers.

6.4f Activity: Cleanup Event - Clean Sweep of the Great Miami River

Date: 7/8/2006

Butler County agencies participated in a volunteer stream cleanup in Butler and Hamilton Counties. Approximately 400 participants collected 10.24 tons of litter at six sites along the Great Miami River in Butler (6.13 tons collected) and Hamilton (4.11 tons collected) Counties. The event was coordinated in conjunction with the Clean Sweep of the Great Miami River.

6.4g Activity: Appliance, Electronics, & Tire Collection at Ross High School

Date: 10/21/2006

Household Appliance Collection Day is sponsored by Butler County's Solid Waste Management District. The October event held at the Ross Township High School resulted in the collection of 39.7 tons of freon containing appliances, 24.2 tons of non-freon appliances, and 23.5 tons of televisions and computers and 61.7 tons of tires.

6.5 Document the decision process

6.5a Activity: Phase II Application & Database Information System (PADIS)

Date: 4/7/2006 - 4/6/2007

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

Butler County Storm Water District Additional Bonus Activities

B1

Activity Title: Watershed Signage

Date: 2006

Responsible Party: Butler County Storm Water District

The Butler County Storm Water District is involved with public awareness and education of the watersheds throughout Butler County. This is accomplished in part by coordinating stream crossing sign installation with public awareness and education programs. In the year 2006, Butler County Storm Water District was responsible for installing and replacing stream crossing signage at 19 locations.

B2

Activity Title: Butler County Water Festival

Activity Description: Classroom Coordinator.

Date: 10/13/2006

Responsible Party: Butler County Storm Water District

The Butler County Water Festival was held October 13, 2006 at Miami University Hamilton. The "Hands on Day of Discovery" was attended by over 1,000 fourth, fifth and sixth graders, and over 100 presenters and volunteers from across Butler County. As classroom coordinators, two representatives from the Butler County Storm Water District guided approximately 60 children through classroom presentations. Children learned about various activities such as flooding, storm water, rain gauges and the importance of monitoring the quantity of rainfall. The Butler County Storm Water District also supported the festival financially with a cash donation of \$2000.

B3

Activity Title: Great Miami River Festival

Activity Description: Great Miami River Festival Committee

Date: 2006 - Monthly Meetings

Responsible Party: Butler County Storm Water District

The Butler County Storm Water District is a major sponsor and a participating member of the Great Miami River Festival Committee. Great Miami River Days features historical and recreational events while conservation and recreation organizations participate with hands-on displays to help citizens understand the value of the river – both as a natural resource and an economic-development tool. It is estimated that between 5,000 and 10,000 people attended last year's event. Since October of 2003 a member of the Butler County Storm Water District has participated in all monthly meetings. Other groups participating in the Festival Planning committee include Friends of the Great Miami; Miami Conservancy District; Hamilton SWCD; St. Clair Township, Butler County; Butler SWCD, Butler County Storm Water District; Butler County Department of Environmental Services; Land Conservancy of Hamilton County. The event is used to promote watershed education and recreational activities associated with the Great Miami River. A portion of the proceeds from Great Miami River Days will be donated to the Great Miami River Recreation Trail project, which will ultimately connect existing trails in Montgomery, Greene, Clark, Warren and Clermont Counties with Butler County. To find out more about River Days, visit <http://www.greatmiamiriverdays.org/>

B4

Activity Title: Mill Creek Watershed Council

Activity Description: Quarterly Council Meetings

Date: 2006 - Quarterly Meetings

Responsible Party: Butler County Storm Water District

A representative from the Butler County Storm Water District attended quarterly meetings of the Mill Creek Watershed Council. The purpose of the Mill Creek Watershed Council is to maintain and enhance the asset-value of the Mill Creek by providing resources to the communities and the region to realize lasting benefits. The Mill Creek Watershed Council is a publicly funded, non-profit corporation

representing all 37 political jurisdictions in the Mill Creek watershed. The Council acts as a forum for making watershed-based decisions by convening and coordinating meetings and projects related to the improvement of the Mill Creek. Through these forums, the Council invites public input on watershed-related issues. The full council meets quarterly at locations throughout the watershed and creates a quarterly newsletter, Voice of the Mill Creek, that is mailed to approximately 1400 addresses throughout the watershed. Please visit the following website for additional information:
<http://www.millcreekwatershed.org/home.html>

B5

Activity Title: Mill Creek Watershed Council Executive Committee

Activity Description: Executive Committee Meetings

Date: 2006 Monthly Meetings

Responsible Party: Butler County Storm Water District

A representative from the Butler County Storm Water District attended monthly meetings of the Mill Creek Watershed Council Executive Committee. The Mill Creek Watershed Council's Executive Committee is comprised of the three council officers, chairs of the standing committees and five members at large. This group coordinates activities of the standing committees and provides oversight of council activities. The Executive Committee slate of candidates includes Bob Lentz of the Butler County Storm Water District.

B6

Activity Title: Local restoration and habitat improvement projects

Activity Description: Stream Stabilization projects

Date: 04/07/2006 – 04/06/2007

Responsible Party: Butler County Department of Environmental Services

Butler County Department of Environmental Services has continued involvement in local restoration and habitat improvement projects, including post-implementation water quality monitoring activities. Such projects include:

Beckett Ridge Stream Stabilization project (FY-2001 319 project): Restoration and enhancement of 1000-foot stretch of highly entrenched and unstable headwater stream within the Mill Creek Watershed; involved stabilization of severely-eroding stream banks using bioengineering technologies and geo-grid faced slopes, and installation of 8 in-stream flow/grade control structures including Newbury riffles, J-hook weirs and rock cross vanes.

Upper Mill Creek Basin Constructed Wetlands and Stream Restoration project (FY-2002 319 & Clean Ohio project): BCDES assisted with project funding, planning, design and coordination.

West Chester Township Stream Restoration, Wetlands Improvement and Habitat Reconstruction project (FY-2005 319 & Clean Ohio project): BCDES assisted with grant application process, as well as project funding and planning. Final site selection, engineering and design, and construction will occur in 2006-2007.

B7

Activity Title: Local restoration and habitat improvement projects

Activity Description: Five Star Restoration Grant - Wetland Extended Detention Basin Project

Date: 04/07/2006 – 04/06/2007

Responsible Party: Multiple Local Partners

Butler County restored 420 linear feet of riparian corridor in a rapidly developing suburban watershed, replacing the existing barren and concrete-lined stormwater detention facility with a fully functioning 1.1-acre wetland to treat stormwater pollutants and provide habitat. The project will consist of two key phases. First, the existing detention basin was transformed and properly restored to a riparian wetland, principally to provide habitat and treat upland runoff before entering the Upper Mill Creek. Second, a monitoring program was enacted by the partners to evaluate the efficiency of the wetland in its assimilation of pollutants following storm events. Serving as a natural method to treat non-point source runoff, the project will also provide a local example of the type of palustrine environment that once existed in the Mill Creek Watershed before urban and suburban land uses dominated the landscape.

Project partners include the Butler SWCD, Butler County Stormwater District, Beckett Ridge HOA, Mill Creek Watershed Council, Ohio Department of Natural Resources, and Miami (OH) University's Institute of Environmental Sciences (IES)

B9

Activity Title: Southwest Ohio Sediment and Erosion Control Field Day

Activity Description: Construction and Post Construction BMP workshop

Date: 6/14/2006

Responsible Party: Butler County Soil & Water Conservation District

This event was sponsored by Butler County Storm Water District, Butler Soil and Water Conservation District, Hamilton Soil and Water Conservation District, Warren Soil and Water Conservation District, Miami Conservancy District and Warren County Career Center. Nearly 150 developers, home builders, engineers, contractors, and construction site inspectors attended. The format of the day included a plenary session with several guest speakers, concurrent sessions, and live outdoor demonstrations. This year's Field Day featured expert speakers addressing topics such as homebuilder enforcement information, water quality structures, and a guide to plan reviews, as well as an outside tour and vendors highlighting innovative sediment, erosion, and runoff controls.

B10

Activity Title: Three Valley Conservation Trust

Activity Description: Watershed Action Plan Advisory Board

Date: 2006 – Monthly

Responsible Party: Butler County Storm Water District

Representatives from the Butler County Storm Water District participate on the Watershed Action Plan Advisory Board for the Three Valley Conservation Trust. The mission of the Three Valley Conservation Trust works is to conserve the natural environment and cultural heritage in Four Mile-Seven Mile, Indian and Twin Creek valleys throughout Butler, Preble, parts of Darke and Montgomery counties.

B11

Activity Title: Water Management Association of Ohio

Activity Description: Ohio Storm Water Task Force

Date: 2006 – Quarterly

Responsible Party: Butler County Storm Water District

A representative from the Butler County Storm Water District attended Ohio Storm Water Taskforce Committee Meetings. The Ohio Storm Water Task Force is a grassroots organization made up of a wide variety of stakeholders throughout the state. Membership includes township, municipal and county officials, representatives from development organizations, state government, environmental groups, consultants and other interested persons. The group's mission is to reduce the negative impact of storm water on society and natural resources by promoting its effective management through education, leadership, watershed-based coordination, and technical assistance throughout the state of Ohio.

B11

Activity Title: Greater Cincinnati Rain Garden Alliance

Activity Description: Steering committee and Technical Committee

Date: 2006 Meetings

Responsible Party: Butler County Storm Water District

The Greater Cincinnati Rain Garden Alliance is an initiative launched by the Mill Creek Watershed Council of Communities to promote Rain Gardens and green design in the region. The Alliance will be a resource for information and technical assistance regarding rain gardens. We promote rain gardens and other natural systems as a way to help manage storm water concerns and to beautify our landscapes. The Rain Garden Alliance is a collaboration between local governments, organizations, interested citizens, and Master Gardeners.

B11

Activity Title: Identifying Soil Characteristics that affect Onsite Wastewater Treatment

Activity Description: Sanitarian Soils Training

Date: October 19, 2006

Responsible Party: Butler County Storm Water District

A workshop was offered by the Soil Inventory Board for sanitarians working in household sewage programs at local health departments. The Butler Soil and Water Conservation District hosted the workshop. The regional workshop accommodated 12 participants to allow for hands-on training "in the pits" with soil scientists. Understanding basic soil characteristics, reading a soil map, and identifying horizons in a soil profile.

Miami Conservancy District's 2006 Phase II Stormwater Activities for Collaborating Communities

In order to comply with Phase II Storm Water regulations, the Miami Conservancy District completed the attached list of activities in the areas of education, public involvement, and outfall identification.

Since the Butler County Storm Water District is a partner in the storm water compliance collaborative within the Great Miami River Watershed, these activities are included in the Annual Report as compliance activities.

Minimum Control Measure #1

Public Education & Outreach on Stormwater Impacts

1.3 Hold training opportunities for technical audiences &/or facilitate the attendance of key professionals at regional training opportunities

Activity Title: Better Site Development Workshop

Activity Description: On June 27th and 28th, Miami Conservancy District co-sponsored a two-day workshop titled, By the Numbers: Calculations & Concepts of Better Site Development. This workshop offered technical instruction on innovative approaches to stormwater design. The Ohio Environmental Education Fund of the Ohio Environmental Protection Agency funded the workshop.

Start Date: 6/27/2006

End Date: 6/28/2006

Result Statement: Thirty-five people attended the Better Site Development Workshop. Attendees included site designers and inspectors from both the private and public sectors. The survey results indicate that the workshop was successful in that it met the needs of the attendees.

Activity Title: Illicit Discharge Workshop

Activity Description: In December, Miami Conservancy District staff in partnership with Ohio Environmental Protection Agency staff hosted a workshop on Illicit Discharge, Detection and Elimination.

Start Date: 12/8/2006

End Date: 12/8/2006

Result Statement: Fifty-six jurisdictional employees responsible for detecting and eliminating illicit discharges to their municipal storm sewer system attended the workshop. Guest speakers included Chris Cotton of the Ohio EPA, Harry Stark of Cuyahoga County Health District and Donna Winchester of the City of Dayton. Participants received a CD that included an illicit discharge detection manual and a database for cataloguing a community's outfalls.

1.4 Coordinate a tour of stormwater BMPs for practitioners

Activity Title: BMP Tour

Activity Description: Miami Conservancy District coordinated a tour of Best Management Practices on September 7, 2006. Featured during the tour were rain gardens, pervious paving systems and discussions regarding their design and maintenance. Stops included Colerain Township's Heritage Park and Kentucky Sanitation District #1's Public Service Park in Ft. Wright, Kentucky.

Start Date: 9/7/2006

End Date: 9/7/2006

Result Statement: Thirty-eight people attended the Best Management Tour.

Minimum Control Measure #2
Public Involvement and Participation

2.1 Stream Team volunteer monitors collect data and report on stream health during field season

Activity Title: Stream Team

Activity Description: The Miami Valley Stream Team is a volunteer water quality monitoring program. Stream Team trainings were held to train volunteers how to monitor the health of our rivers and streams.

Start Date: 1/24/2006

End Date: 1/24/2007

Result Statement: Miami Conservancy District trained 75 volunteers in 2006 to collect data about the chemical, biological and physical condition of their local streams.

2.2 Great Miami River Watershed Network meets to strategize and share resources

Activity Title: Great Miami River Watershed Network

Activity Description: Miami Conservancy District hosted three meetings of the Great Miami River Watershed Network in 2006. Formal discussion topics included Source Water Protection and Sanitary Sewer Planning, Confined Animal Feeding Operations, Stormwater Program Compliance, Watershed Planning, working with Planning and Zoning Boards and Water Emergencies.

Start Date: 1/24/2006

End Date: 1/24/2007

Result Statement: Four hundred individuals receive notice of the meetings and roughly 100 attend at least one time annually.

2.4 Support existing water festivals for children and the general public

Activity Title: Children's Water Festival

Activity Description: Miami Conservancy District supported the 2006 Children's Water Festival held at the University of Dayton by serving on the planning committee and recruiting presenters, giving a presentation, providing a volunteer and giving a monetary donation.

Start Date: 5/10/2006

End Date: 5/10/2006

Result Statement: Miami Conservancy District presented to approximately 100 children on using your five senses to determine surface water quality. MCD also supported the festival financially with a cash donation of \$1000 and a staff leadership role valued at approximately \$1600. This person recruited and coordinated over 30 volunteers and education programs.

Activity Title: Butler County WaterFest

Activity Description: Miami Conservancy District supported the Butler County WaterFest through a monetary donation and provided four 30-minute presentations.

Start Date: 10/14/2006

End Date: 10/14/2006

Result Statement: Miami Conservancy District presented to approximately 100 children on groundwater and it's interaction with surface water. MCD also supported the festival financially with a cash donation of \$1000.

Minimum Control Measure #3
Illicit Discharge Detection and Elimination

3.1 Become familiar with storm sewer system

Activity Title: Outfall Identification

Activity Description: Outfall identification included the following: gathering existing storm sewer maps and other data on known outfall locations from municipalities, field locating the outfalls and establishing coordinates using GPS receivers, gathering pertinent information about each outfall including digital photograph, description and receiving stream, and entering data into the Phase II Application and Database Information System (PADIS).

Start Date: 1/24/2006

End Date: 1/24/2007

Result Statement: In 2006, Miami Conservancy District located outfalls in the City of Vandalia and along the Stillwater River and Holes Creek.

BONUS ACTIVITIES:

Activity Title: Great Miami River Days

Activity Description: Miami Conservancy District staff participated in planning and organizing events at Great Miami River Days. MCD also supported the festival with a monetary donation.

Start Date: 9/8/2006

End Date: 9/9/2006

Result Statement: Miami Conservancy District staff organized six water-related education events for children at the Great Miami River Days in Hamilton, Ohio. MCD also supported the festival financially with a cash donation of \$500.

Activity Title: Honey Creek Watershed Festival

Activity Description: Miami Conservancy District supported the Honey Creek Watershed Festival with a monetary donation and display.

Start Date: 4/8/2006

End Date: 4/8/2006

Result Statement: Miami Conservancy District donated \$500 to the Honey Creek Watershed Festival and participated in the festival by having a display.

MCM No.	Minimum Control Measure	BMP No.	BMP's	Measurable Goals	Year 1 (2003)	Responsibility	Year 2 (2004)	Responsibility	Year 3 (2005)	Responsibility	Year 4 (2006)	Responsibility	Year 5 (2007)	Responsibility	
4	Construction Site Storm Water Runoff Control	4.1.1	Construction Control Ordinance	Enact Construction Control Ordinance, including runoff, erosion, and sediment control plans, and implement within five years.	Develop Draft Construction Control Ordinance with sanctions	District	Meet with local jurisdictions and implement Ordinance	District Local	Implement Ordinance	District Local	Enforce Ordinance	District Local	Enforce Ordinance and review program	District Local	
		*4.1.1.1	Runoff Control BMP's	Implement Runoff Control BMP Plan and enforce within 3 years	-		-	District	Implement and enforce BMP Plan	District	Enforce BMP Plan	District	Enforce BMP Plan	District	
		*4.1.1.2	Erosion Control BMP's	Implement Erosion Control BMP Plan and enforce within 4 years	-		-	District	Draft BMP Plan	District	Implement and enforce BMP Plan	District	Enforce BMP Plan	District	
		*4.1.1.3	Sediment Control BMP's	Implement Sediment Control BMP Plan and enforce within 4 years	-		-	District	Draft BMP Plan	District	Implement and enforce BMP Plan	District	Enforce BMP Plan	District	
		4.1.2	Site Plan Review and Inspection Process	Develop Site Plan Review and Inspection Process and enforce within three years	Develop Site Plan Review and Inspection Process Plan	District	Develop Site Plan Review and Inspection checklist and manual	District	Enforce Site Plan Review and Inspection Plan	District	Enforce Site Plan Review and Inspection Plan	District	Enforce Site Plan Review and Inspection Plan and review program	District	
		4.2.1	Document the Decision Process	Document Decision Process	Prepare documentation guidelines	District	Yearly documentation	District	Yearly documentation	District	Yearly documentation	District	Yearly documentation	District	
5	Post Construction Storm Water Management	*5.1.1	Post construction Ordinance with Riparian Corridor (RC) and Buffer Zone (BZ)	Enact Post Construction Ordinance with Riparian Corridor (RC) and Buffer Zone (BZ) within five years	Develop Draft Post Construction Ordinance with Riparian Corridor (RC) and Buffer Zone (BZ)	District County	Solicit comments from public and communities adopt ordinance	District	Implement and enforce RC and BZ ordinance	District County	Enforce RC and BZ ordinance	District County	Enforce RC and BZ ordinance and review program	District County	
		5.1.1.1	Long Term RC and BZ Stability Plan	Develop a Plan to ensure long term RC and BZ stability	Develop Draft of Long Term Stability Plan of RC and BZ	District County	Solicit comments from public and communities adopt Plan	District Local	Implement Long Term Stability Plan	District County	Implement Long Term Stability Plan	District County	Implement Long Term Stability Plan	District County	
		*5.1.2	Update Zoning Ordinances	Develop Draft of Updated Zoning Ordinances within five years	-		-		District	Obtain copies of existing Zoning Ordinances	District	Draft an update of Zoning Regulations	District County	Implement new Zoning Ordinances	District County
		5.1.2.1	Long Term Stability of Zoning Ordinances	Develop a Plan for Long Term Stability of Zoning Ordinances within five years	-		-		District County	Develop a Draft Plan for Long Term Stability of Zoning Ordinances	District County	Implement Long Term Stability Plan	District County	Implement Long Term Stability Plan	District County
		5.2.1	Document the Decision Process	Document Decision Process	Prepare documentation guidelines	District	Yearly documentation	District	Yearly documentation	District	Yearly documentation	District	Yearly documentation	District	
6	Pollution Prevention / Good Housekeeping	6.1.1	Train Government Employees	Establish Plan for training Government Employees and train 25% of them beginning year 2	Develop Training materials and Plan	District County Local	Produce training materials and hold training sessions for 25% of government maintenance employees	District County Local	Produce training materials and hold training sessions for 50% of government maintenance employees	District County Local	Produce training materials and hold training sessions for 75% of government maintenance employees	District County Local	Produce training materials and hold training sessions for 100% of government maintenance employees	District County Local	
		*6.1.1.1	Maintenance Schedule	Develop Maintenance Plan and Schedule within 4 years	-		Develop Maintenance Plan	District County	Coordinate with local entities to develop schedule	District County	Implement Maintenance Plan and Schedule	District County	Implement Maintenance Plan and Schedule	District County	
		6.1.1.2	Inspection Plan for BMP's	Develop Inspection Plan for BMP's and inspect half of BMP's each year, beginning year 2	Develop Inspection Plan and schedule	District County	Coordinate with local entities to develop Plan and schedule inspection of 50% of BMP's	District County	Coordinate with local entities to develop Plan and schedule inspection of 50% of BMP's	District County	Coordinate with local entities to develop Plan and schedule inspection of 50% of BMP's	District County	Coordinate with local entities to develop Plan and schedule inspection of 50% of BMP's	District County	
		6.1.2	Illegal Dumping and Control Program	Develop Plan for Illegal Dumping and Control Program within five years	-		-		District County	Develop draft of Illegal Dumping and Control Program	District County	Implement Illegal Dumping and Control Program and incorporate Butler County Hazardous waste collection	District County	Continue Illegal Dumping and Control Program and incorporate Butler County Hazardous waste collection	District County
		6.2.1	Document the Decision Process	Document Decision Process	Prepare documentation guidelines	District	Yearly documentation	District	Yearly documentation	District	Yearly documentation	District	Yearly documentation	District	