

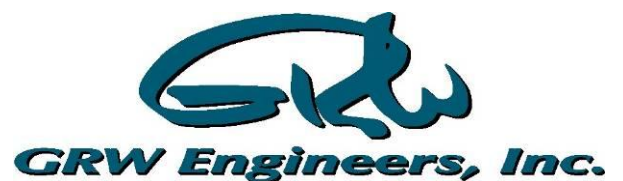
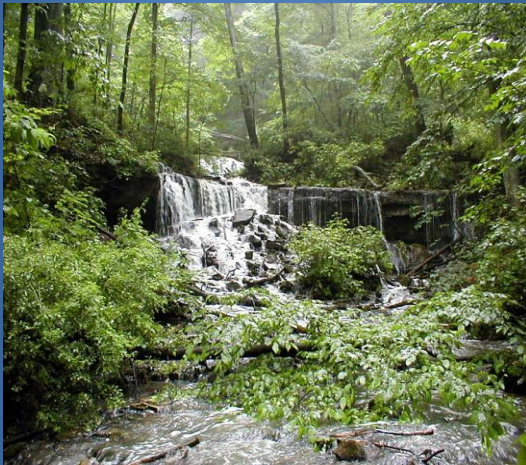


# **Rule 13 Stormwater Quality Management Plan**

## **Part C: Program Implementation**

**Muncie, Yorktown, Ivy Tech  
& Delaware County, Indiana**

October 2010



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**Rule 13 Stormwater Quality Management Plan**  
**Part C: Program Implementation**  
**Muncie, Yorktown, Ivy Tech & Delaware County, IN**  
**October 2010**

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**Rule 13 Stormwater Quality Management Plan**  
**Part C: Program Implementation**  
**Muncie, Yorktown, Ivy Tech – Muncie**  
**& Delaware County, IN**  
**October 2010**

**SECTION 1 –Introduction**

**1.1 Purpose**

The purpose of this Storm Water Quality Management Plan (SWQMP) is to describe the programs, practices and responsibilities adopted by The Partnership of the Muncie Sanitary District, the Town of Yorktown, Ivy Tech – Muncie and Delaware County, hereafter referred to as “The Partnership,” to implement the Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit No. INR040056 under Delaware County in accordance with 327 IAC 15-13. Each entity of the Partnership was previously permitted under the following numbers:

INR040085 under Muncie  
INR040083 under Yorktown  
INR040056 under Delaware County and Ivy Tech Muncie.

The SWQMP describes the activities that will be performed to comply with the NPDES permit conditions, provides measurable goals for key activities, and outlines staffing and funding responsibilities for the permittee. The SWQMP will apply to the 5-year duration of the current NPDES permit. Annual modifications will be provided as necessary with the required annual reports to address changes in proposed program elements or conditions in the permit area.

**1.2 Authorization**

This SWQMP is authorized by new stormwater requirements resulting from the United States Environmental Protection Agency (EPA) regulation entitled “Nation Pollutant Discharge Elimination System (NPDES) – Regulations for Revision of the Water Pollution Control Program Addressing Storm Water Discharges” (Federal Register, Volume 64, Number 235, pages 68722 – 68852) on December 8, 1999 as required by section 402(p) of the Clean Water Act (CWA).

The program is administered by the Indiana Department of Environmental Management with the adoption of 327 IAC 15-5 for Storm Water Run-off Associated with Construction Activity, 327 IAC 15-6 Storm Water Run-off Associated with Industrial

Activity, and 327 IAC 15-13 for Storm Water Run-off Associated with Municipal Separate Storm Sewer System (MS4) Conveyances.

### 1.3 Area of Coverage

The area of coverage as defined in the NPDES Permit is the service area of the Muncie Sanitary District, which includes the most of the corporate boundary of the City of Muncie, the corporate boundary of the Town of Yorktown, the properties owned and managed by Ivy Tech - Muncie, and the entirety of Delaware County excluding incorporated areas not included in The Partnership. A description and map of the NPDES coverage area boundary can be found in Section 3.5 and Figure 3-1. The permit coverage area will be adjusted with Annual Reports as necessary.

### 1.4 Period of Performance

This SWQMP applies to the 5-year effective period of the NPDES permit, or from November 3, 2003 to November 2, 2008. The SWQMP refers to Permit Years when specifying when various activities are scheduled to occur. Permit Years are defined as follows:

**Table 1.1 - Initial Permit 2003 – 2008 Coverage**

<b>Permit Year</b>	<b>Start</b>	<b>End</b>
Permit Year 1	November 3, 2003	November 2, 2004
Permit Year 2	November 3, 2004	November 2, 2005
Permit Year 3	November 3, 2005	November 2, 2006
Permit Year 4	November 3, 2006	November 2, 2007
Permit Year 5	November 3, 2007	November 2, 2008

The renewed permit will cover from September 4, 2008 to September 3, 2013.

Submittal dates for this permit are:

**Table 1.2 – Current Permit Coverage**

<b>Item</b>	<b>Date Submitted</b>
Part A Notice of Intent	September 4, 2008
Part B Baseline Characterization and Report	October 15, 2010
Part C Program Implementation	October 15, 2010
Annual Report 2010	October 15, 2010
Annual Report 2012	October 15, 2012

## **SECTION 2 – Legal Authority**

### **2.1 Introduction and Rationale**

This section addresses the requirement in 327 IAC 15-13-6 that the MS4 have legal authority to develop and implement the SWQMP within its permit area. The objective is to provide documentation that the Partnership currently has adequate legal authority to conduct all necessary activities required by the Partnership's permit.

### **2.2 Existing Legal Authority**

The Partnership operates its stormwater system through a Partnership operating under authority of Indiana Codes 36-9-25 for the Muncie Sanitary District, 36-9-23 for Yorktown and 8-1.5-5 for Delaware County. Acting under their individual authorities, the entities have been under varying Interlocal Agreements since 2001 and are currently updating a 2008 version that will be passed in 2010.

### **2.3 Additional Required Legal Authority**

If review of current resolutions of the Partnership identifies deficiencies in the ability to implement the SWQMP programs, a plan for addressing those deficiencies will be developed.

### **2.4 Measurable Goals**

Existing legal authority will be documented by the MS4 Operator and reviewed by legal counsel. The SWQMP will also be reviewed by counsel and a plan developed to revise or create additional legal mechanisms if necessary. The MS4 Operator will keep up-to-date records on all related legal documentation.

## **SECTION 3 – Storm Water Quality Management Plan**

### **3.1 Existing Total Maximum Daily Load**

There is no Current Total Maximum Daily load report for any of the watersheds in the Partnership.

### **3.2 Initial Evaluation of Storm Water Program**

This section addresses the requirement in 327 IAC 15-13-8(a)(1) that the MS4 provide an initial evaluation of the storm water program, which includes information on all known structural and nonstructural BMPs utilized. An evaluation of all known structural and nonstructural BMPs utilized in the MS4 area can be found in Appendix C of the Partnership's Part B: Baseline Characterization and Report submittal.

The Part B analysis from 2004 for the Muncie Sanitary District and the Town of Yorktown revealed the dominant land uses within the watersheds. The land uses from 2003 to 2010 have not changed substantially relative to water quality impairment risk. Therefore, the land use analysis was not updated for the 2010 update.

Residential and commercial developments dominate the MS4 service area. Agricultural uses dominate the land uses of the watersheds. The principal contaminants to be expected are sedimentation from construction sites and e-coli from animals. Other urban contaminants are also to be expected from automobiles, commercial establishments, and industrial sites. The Partnership's stormwater program targets these sites and sources.

### **3.3 Detailed Program Description for Each MCM**

A detailed program description for each of the 6 minimum control measures given in 327 IAC 15-13-12 thru 327 IAC 15-13-17 can be found in Sections 6-11 of this document.

### **3.4 Timetable for Program Implementation**

The current schedule for program implementation follows the compliance schedule set forth in 327 IAC 15-13-11 and Section 5.2 of this document.

### **3.5 Schedule For On-going Receiving Water Characterization**

The Partnership plans to utilize the bi-annual biological (fish and macroinvertebrates) surveys from its Bureau of Water Quality to provide an on-going characterization of their receiving waters. The Partnership will continue to collect water quality data from outside sources as it becomes available, on each of the receiving waters and submit to the department with the corresponding annual report. The Muncie Sanitary District – Bureau of Water Quality 2009 Macroinvertebrate and Mussel Population & Fish Community

Reports can be found at the end of this report in Appendix D. Older reports can be located on the Bureau's website: [www.munciesanitary.org](http://www.munciesanitary.org).

### **3.6 Description of MS4 Boundary**

The MS4 boundary is the service area of the Muncie Sanitary District, which includes the most of the corporate boundary of the City of Muncie, the corporate boundary of the Town of Yorktown, the properties owned and managed by Ivy Tech - Muncie, and the entirety of Delaware County excluding incorporated areas not included in The Partnership.

Figure 3-1 at the end of this section shows in more detail the existing MS4 boundary. Included in the MS4 boundary and this program is the municipally owned Wastewater Treatment Plants for the Muncie Sanitary District and the Town of Yorktown.

### **3.7 Estimate of Linear Feet of MS4**

The Muncie Sanitary District has 100% of its storm sewer system and outfalls mapped in GIS and AutoCAD. The Town of Yorktown has 100% of its storm sewer system and outfalls mapped in GIS. Delaware County has 100% of its outfalls mapped in GIS and approximately 95% of its storm sewer system mapped. The County is diligently working to gather 100% of the information, however, some of the surveyor's maps are on linen from the late 1800's and determining the age of developments or ownership has been difficult. Due to the nature of the drainage systems in the county that do not fall under the jurisdiction of the County Surveyor or INDOT, identification has proven to be difficult. The MS4 does not want to take responsibility for systems that are not under their control. Once identifying which systems do fall under the jurisdiction of the County Surveyor and private, the county mapping will be complete.

Muncie has approximately 617,800 ft of storm sewers and approximately 389,700 ft of ditches within the MS4 boundary. The precise footage is unavailable, but it is continually updated by the Muncie Sanitary District and maps are available at the Engineering Department.

The current mapping for Yorktown was lost in a flood and therefore an estimate of linear footage of MS4 conveyance is unknown. The precise footage is not immediately available, but maps are available at the Town.

### **3.8 Summary of Allowed Structural BMP Types in New Development and Redevelopment**

The Partnership will use the Indiana Stormwater Quality Manual to evaluate structural BMPs to be utilized in new development and redevelopment areas. The program will monitor the performance of the BMPs installed.

### **3.9 Structural BMP Selection Criteria and Performance Standards**

The Partnership will use the Indiana Stormwater Quality Manual to evaluate structural BMPs to be utilized in new development and redevelopment areas. The program will monitor the performance of the BMPs installed. The Partnership will evaluate the effectiveness of the allowable BMPs annually and make recommendations for modifications.

### 3.10 Stormwater Budget

The proposed stormwater budget for the activities associated with the Partnership’s Stormwater Quality Management Plan is divided by percentage based on impervious surfaces and can be found in Table 3.1 below. Ivy Tech contributes in like kind.

**Table 3.1 - Partnership MS4 Budget**

	County	MSD	Yorktown
Percentage	23%	69%	8%

### 3.11 Measurable Goals

The Partnership’s stormwater program has developed measurable goals in compliance with Indiana Rule 13 requirements. Educational programs are an essential component of successful nonstructural Best Management Practices. Many water quality impairments result due to carelessness or ignorance. It is hoped that by educating people of the impacts of personal behavior that individuals will behave responsibly and adapt new methods or use alternate materials to reduce water quality impairments. Measurable goals in all six minimum control measures focus on education. Educating and involving people--both municipal employees and general citizens—should lead to accelerated implementation of the stormwater program and lead to improved stormwater quality.

Measurable goals in the Illicit Discharge Detection and Elimination program are more specific to locating, identifying, and taking corrective action to prevent water quality impairments. The removal of contaminants will improve water quality by preventing materials from entering the stormwater collection system. Accurate system maps improve knowledge of the piping network for staff. Prohibiting discharges provides a local regulatory enforcement mechanism. Providing convenient programs for recycling and household hazardous waste should prevent water quality impairing material from entering the stormwater system.

Construction sites present a significant source of contaminants that could create water quality impairments. Here the measurable goals focus on education, project tracking, site inspection, and program management. Specific structural best management practices will prevent sedimentation. Effective program management will lead to a better working relationship with construction site operators and lead to greater compliance.

A primary guideline for post construction controls is to prevent the new development from creating water quality effects significantly different from the preconstruction site. Once construction site controls are built, they must be maintained. The post construction measurable goals focus on making sure structural best management practices are properly maintained and staff members are properly trained. Limitations on development to protect sensitive environmental areas and riparian zones may be appropriate methods to reduce water quality impairments from occurring. Planning controls that maintain open spaces and minimize soil and vegetative disturbance provide similar environmental benefits.

Education, training, and maintenance measurable goals in the municipal operations pollution prevention and good housekeeping target behaving responsibly on water quality issues. The activities should reduce the contaminant loading on public property like streets, parks, and building sites. When others notice the practice of municipal employees, they may begin to appreciate the stormwater program goals with a better understanding.

All the measurable goals for each Minimum Control Measure (MCM) can be found in greater detail Sections 6–11 of this document. The measurable goals are given for each year of the current NPDES general permit.

### **3.12 Certification Forms**

Certification forms for the MCMs listed in 327 IAC 15-13 can be found in Appendix A of this document. All certification forms were submitted to IDEM under the previous permitted numbers, No. INR040085 under Muncie, Permit No. INR040083 under Yorktown and Permit No. INR040056 under Delaware County, and can be found on file at IDEM.

### **3.13 Programmatic Indicators**

A list of programmatic indicators segregated by MCM can be found in Section 4 of this document.

## **SECTION 4 – Programmatic Indicators**

### **4.1 Introduction and Rationale**

This section addresses the requirement in 327 IAC 15-13-8 that the MS4 must identify programmatic indicators grouped by corresponding MCM. Updated data for each of these indicators is submitted in each annual report.

### **4.2 MCM 1 – Public Education and Outreach**

The following items are programmatic indicators for MCM 1 – Public Education and Outreach:

- Number or percentage of citizens, segregated by type of constituent as referenced in section 12(a) of 327 IAC 15-13, that have an awareness of storm water quality issues.

### **4.3 MCM 2 – Public Involvement and Participation**

The following items are programmatic indicators for MCM 2 – Public Involvement and Participation:

- Number and description of meetings, training sessions, and events conducted to involve citizen constituents in the storm water program.
- Number or percentage of citizen constituents that participate in storm water quality improvement programs
- Number and location of storm drains cast with anti-pollution messages

### **4.4 MCM 3 – Illicit Discharge Detection and Elimination**

The following items are programmatic indicators for MCM 3 – Illicit Discharge Detection and Elimination:

- Estimated or actual linear feet or percentage of MS4 mapped and indicated on an MS4 area map
- Number and location of MS4 area outfalls mapped
- Number and location of MS4 area outfalls screened for illicit discharges
- Number and location of illicit discharges detected
- Number and location of illicit discharges eliminated
- Number of and estimated or actual amount of material, segregated by type, collected from Household Hazardous Waste (HHW) collection in the MS4 area
- Number and location of constituent drop-off centers for automotive fluid recycling
- Number or percentage of constituents that participate in the HHW collections

#### **4.5 MCM 4 – Construction Site Storm Water Run-off Control**

The following items are programmatic indicators for MCM 4 – Construction Site Storm Water Run-off Control:

- Number of construction sites obtaining an MS4 entity-issued storm water run-off permit in the MS4 area
- Number of construction sites inspected
- Number and type of enforcement actions taken against construction site operators
- Number of, and associated construction site name and location, for public information requests received
- Number, type, and location of structural BMPs installed
- Number, type, and location of structural BMPs inspected
- Number, type, and location of structural BMPs maintained or improved to function properly
- Type of nonstructural BMPs utilized

#### **4.6 MCM 5 – Post Construction Storm Water Run-off Control**

The following items are programmatic indicators for MCM 5 – Post Construction Storm Water Run-off Control:

- Estimated or actual acreage or square footage of open space preserved and mapped in the MS4 area, if applicable
- Estimated or actual acreage or square footage of pervious and impervious surfaces mapped in the MS4 area, if applicable
- Number and location of new retail gasoline outlets or municipal, state, federal, or institutional refueling areas, or outlets or refueling areas that replaced existing tank systems and/or that have installed storm water BMPs

#### **4.7 MCM 6 – Municipal Operations Pollution Prevention and Good Housekeeping**

The following items are programmatic indicators for MCM 6 – Municipal Operations Pollution Prevention and Good Housekeeping:

- Number and location of MS4 entity facilities that have containment for accidental releases of stored polluting materials
- Estimated or actual acreage or square footage, amount and location where pesticides and fertilizers are applied by a regulated MS4 entity to places where storm water can be exposed within the MS4 area
- Estimated or actual linear feet or percentage and location of unvegetated swales and ditches that have an appropriately sized vegetated filter strip
- Estimated or actual linear feet or percentage and location of MS4 conveyances cleaned or repaired

- Estimated or actual linear feet or percentage and location of roadside shoulders and ditches stabilized, if applicable
- Number and location of storm water outfall areas remediated from scouring conditions, if applicable
- Number and location of deicing salt and sand storage areas covered or otherwise improved to minimize storm water exposure
- Estimated or actual amount, in tons, of salt and sand used for snow and ice control
- Estimated or actual amount of material by weight collected from catch basin, trash rack, or other structural BMP cleaning
- Estimated or actual amount of material by weight collected from street sweeping, if utilized
- Number or percentage and location of canine parks sited at least one hundred fifty feet away from a surface water body

#### **4.8 Reporting**

The Partnership will submit an annual report of its stormwater program in accordance with 327 IAC 15-13.

# SECTION 5 – Compliance Schedule

## 5.1 Introduction and Rationale

This section addresses the requirement in 327 IAC 15-13-11 that the MS4 operator must comply with the schedule set forth in this section for the implementation of this rule.

## 5.2 Initial Compliance Permit Schedule

The following compliance schedule was followed in the implementation of the Partnership’s Stormwater Quality Management Plan:

**Table 5.1 – Compliance Schedule Implementation**

<b>Rule Requirement</b>	<b>Compliance Deadline (from initial NOI letter receivership date)</b>	<b>Date Achieved</b>
Storm Water Quality Management Plan	Components throughout term of permit	01/05
Part A: Initial Application submitted	With NOI Letter	11/03
Part B: Baseline Characterization and Report submitted	180 days	07/04
Part C: Program Implementation submitted	1 year	01/05
Public Education and Outreach MCM implementation	Throughout term of permit	On Going
Public education and outreach program development certification submitted	1 year	MN: 04/05 YK: 10/04 CO: 04/05
Public Involvement/Participation MCM implementation	Throughout term of permit	On Going
Public involvement and participation program development certification submitted	1 year	MN: 04/05 YK: 10/04 CO: 04/05
Illicit Discharge Detection/Elimination MCM implementation	Throughout term of permit	On Going
Illicit discharge plan and regulatory mechanism certification submitted	1 year	MN: 04/05 YK: 10/04 CO: 04/05
25% of storm water outfalls systems mapped	Each year after 1 year	2009
All known storm water outfalls systems, with pipe diameters 12 inches or greater or open ditches with 2 feet or larger bottom	5 years	MN: 2009 YK: 2007 CO: 2009

<b>Rule Requirement</b>	<b>Compliance Deadline (from initial NOI letter receivership date)</b>	<b>Date Achieved</b>
width, mapped		
Construction Site Run-Off Control MCM implementation	Throughout term of permit	On Going
Construction site program plan and regulatory mechanism certification submitted	1 year	MN: 12/06 YK: 10/04 CO: 12/06
Postconstruction Run-off Control MCM implementation	Throughout term of permit	On Going
Operational and maintenance plan certification submitted	2 years	MN: 12/06 YK: 10/04 CO: 12/06
Postconstruction program plan and regulatory mechanism certification submitted	2 years	YK: 10/04 MN: 12/06 CO: 12/06
Municipal operations pollution prevention and good housekeeping MCM implementation	Throughout term of permit	On Going
Operations pollution prevention program development certification submitted	1 year	MN: 04/05 YK: 10/04 CO: 04/05

### 5.3 Current Compliance Permit Schedule

The following compliance schedule will be followed in the implementation of the Partnership's Stormwater Quality Management Plan:

**Table 5.2 – Compliance Permit Schedule**

<b>Item</b>	<b>Date Submitted</b>
Part A Notice of Intent	September 8, 2008
Part B Baseline Characterization and Report	October 15, 2010
Part C Program Implementation	October 15, 2010
Annual Report 2010	October 15, 2010
Annual Report 2012	October 15, 2012

## SECTION 6 – Public Education and Outreach

### 6.1 Introduction and Rationale

This section describes the public education and outreach activities of the Partnership in response to 327 IAC 15-13-12. The rationale for the program is to inform the general public of the importance of storm water quality issues, and to influence behavior in a way that benefits regional water quality. Activities selected take advantage of existing programs of Muncie and the surrounding communities to target specific water quality problems and specific audiences within the area.

### 6.2 Informational Program for Constituents

The following activities will be part of the public education and outreach program.

- a) **MS4 Coordinator.** The Partnership has chosen to employ a full time coordinator to oversee, implement, and document the Public Education and Outreach program. A full time Educator was hired in 2009 and a full time Stormwater Specialist in 2007. The Coordinator, Educator and Stormwater Specialist's job descriptions will be reviewed and adjusted as needed to comply with permit regulations, the budget, and components of the SWQMP.
- b) **Printed Materials.** The Partnership will work with other MS4 entities in the Delaware County area to develop, produce or distribute printed materials (e.g., flyers, promotional items) for specific topics related to storm water quality. The partnership utilizes local media outlets whenever possible to promote its programs. The MS4 entities will evaluate areas of concern periodically throughout the term of the permit and develop or modify printed materials as necessary. The Partnership will work in cooperation with Ball State University and the Town of Daleville to broaden exposure of printed materials and present a unified message.
- c) **Newsletter.** The Partnership prepares a quarterly employee newsletter to the Muncie Sanitary District and County to present stormwater pollution prevention information.
- d) **Watershed Management Plans.** The Partnership was instrumental in the development from 2001-2004, of Watershed Management Plans for three of the sub watersheds within the area of coverage. The Partnership will continue to assist in implementation and encourage development of additional Watershed Management Plans in cooperation with other local MS4s and organizations.
- e) **Community Events.** The Partnership will continue to use major community events as opportunities for education and outreach to youth and adults. Booths will be staffed by local volunteers, staff of the Partnership and/or other local

MS4s and organizations, who will hand out informational materials and answer questions. The following are just some of the events the Partnership participates in:

- White River & Mississinewa River Clean up Event
- Camp Prairie Creek
  - An annual weeklong camp for school aged children
- Household Hazardous Waste Curbside Pick-up
- Delaware County Fair, Garden Fair, Living Fair

- f) **Community Organizations.** The staff of the Partnership will continue to be active in other organizations in the area that promote inter-agency cooperation and have outreach and education functions (e.g., White River Watershed Project, Indiana Water Environment Association, etc.).
- g) **School Programs.** The Partnership will continue its current grade school, secondary and post-secondary classroom educational programs and will work to expand the educational opportunities as possible (e.g., Recycling, forestry, and watershed education). The Partnership will coordinate with other MS4s and organizations to best utilize existing local educational resources.
- h) **Media.** The Partnership will continue to maintain and update multiple websites to provide information to the public on storm water issues, water quality issues, educational opportunities, construction program, illicit discharge reporting and links to other related websites. The Partnership also uses local television to run educational videos and televise the board meetings for the community.
- i) **Educator Education.** The Partnership will work with Minnetrista Cultural Center, Ball State University and local school corporations to utilize existing Indiana Department of Natural Resources teacher education programs such as Project WET, HoosierRiverwatch, and GoFishIN.
- j) **Construction, Industrial and Public Employee Program.** The Partnership will conduct education and outreach activities targeting construction industry organizations (developers, contractors, engineers), permitted industries and public employees on their respective programs described in the SWQMP.

### 6.3 Initial Assessment of Constituents

An initial assessment of area constituents was conducted for the original permit and does not apply to this permit renewal.

### 6.4 Target Outreach or Reduction Goal Percentages

All outreach and education activities have similar priorities and all will be conducted each permit year unless otherwise stated. Measurable goals are defined in the following table.

**Table 6.1 – Public Education and Outreach Achievements under Initial Permit**

<b>Permit Year</b>	<b>Measurable Goal/Milestone</b>
Permit Year 1	<ul style="list-style-type: none"> <li>● Complete and submit Part B: Baseline Characterization and Report as required by 327 IAC 15-13-7.</li> <li>● Complete and submit Part C: Program Implementation as required by 327 IAC 15-13-8.</li> </ul>
Permit Year 2	<ul style="list-style-type: none"> <li>● Educate local government officials</li> <li>● Conduct initial assessment of constituents knowledge as they relate to storm water quality</li> <li>● Make educational materials available</li> <li>● Address stormwater issues at a minimum of one public meeting</li> <li>● Staff to attend at least one educational training session</li> <li>● Document and publish accomplishments in annual report</li> </ul>
Permit Year 3	<ul style="list-style-type: none"> <li>● Make educational materials available</li> <li>● Address stormwater issues at a minimum of one public meeting</li> <li>● Staff to attend at least one educational training session</li> <li>● Document and publish accomplishments in annual report</li> </ul>
Permit Year 4	<ul style="list-style-type: none"> <li>● Make educational materials available</li> <li>● Address stormwater issues at a minimum of one public meeting</li> <li>● Staff to attend at least one educational training session</li> <li>● Document and publish accomplishments in annual report</li> </ul>
Permit Year 5	<ul style="list-style-type: none"> <li>● Make educational materials available</li> <li>● Address stormwater issues at a minimum of one public meeting</li> <li>● Staff to attend at least one educational training session</li> <li>● Document and publish accomplishments in annual report</li> <li>● Review and update SWQMP Education and Outreach Program permit submittal</li> </ul>

The Partnership will continue to pursue similar goals for this ongoing permit.

# SECTION 7 – Public Involvement and Participation

## 7.1 Introduction and Rationale

This section describes the public involvement and participation activities of the Partnership in response to 327 IAC 15-13-13. The rationale for the program is to allow for sufficient opportunities for interested constituents within the MS4 area to participate in the storm water management program development and implementation. Activities selected take advantage of existing programs of Partnership communities to target specific water quality problems and specific audiences within the area.

## 7.2 Public Participation Program

The following activities will be part of the public participation and involvement program.

- a) **MS4 Coordinator.** The Partnership has chosen to employ a full time coordinator to oversee, implement, and document the Public Education and Outreach program. A full time Educator was hired in 2009 and a full time Stormwater Specialist in 2007. The Coordinator, Educator and Stormwater Specialist’s job descriptions will be reviewed and adjusted as needed to comply with permit regulations, the budget, and components of the SWQMP.
- b) **Community Events.** The Partnership will continue to use major community events as opportunities for education and outreach to youth and adults. Booths will be staffed by local volunteers, staff of the Partnership and/or other local MS4s and organizations, who will hand out informational materials and answer questions. The following are just some of the events the Partnership participates in:
  - White River & Mississenewa River Clean up Event
  - Camp Prairie Creek
    - An annual weeklong camp for school aged children
  - Household Hazardous Waste Curbside Pick-up
  - Delaware County Fair, Garden Fair, Living Fair
- c) **Public Meetings.** The Partnership will continue to advertise its regularly scheduled meetings in accordance with open door meeting laws. Prior to adopting key components of the storm water management program, the Partnership will allow community leaders, stakeholders, technical experts and the general public to present the issues and proposed solutions and ask for comment and discussion.
- d) **Citizens “Hotline”.** The Partnership website provides opportunities for citizens to become involved, such as illicit discharge reporting, citizen input, volunteer monitoring, etc. A telephone “hotline” exists along with procedures for follow-up for all inquiries.

- e) **School Programs.** The Partnership will continue its current grade school, secondary and post-secondary classroom educational programs and will work to expand the participation and involvement opportunities as possible. The Partnership will coordinate with other MS4's and organizations to best utilize existing local educational resources.
- f) **Community Clean-ups.** The Partnership will continue to work with local organizations and citizens groups to perform neighborhood and river clean-up programs.
- g) **Stakeholder Meetings.** The Partnership has been part of the opportunity for citizens to participate in various stakeholder groups concerning water quality (e.g., watershed stakeholder groups, citizens advisory committee, etc.)
- h) **Educator Education.** The Partnership will work with Minnetrista Cultural Center, Ball State University and local school corporations to utilize existing Indiana Department of Natural Resources teacher education programs such as Project WET, HoosierRiverwatch, and GoFishIN, etc.
- i) **Media.** The Partnership will continue to maintain and update multiple websites to provide information to the public on storm water issues, water quality issues, educational opportunities, construction program, illicit discharge reporting and links to other related websites. The Partnership also uses local television to run educational videos and televise the board meetings for the community.
- j) **District Forester.** The City of Muncie employs a District Forester to manage reforestation programs.
- k) **Construction, Industry and Public Employee Programs.** The Partnership will encourage the participation of the construction industry, local industrial, and the public employees in the development and implementation of the storm water management plan.

### 7.3 Initial Assessment of Constituents

An initial assessment of area constituents was conducted for the original permit and does not apply to this permit renewal.

### 7.4 Public Involvement and Reduction Goal Percentages and Timetables

All participation and involvement activities have similar priorities and all will be conducted each permit year unless otherwise stated. Measurable goals are defined in the following table.

**Table 7.1 – Public Involvement and Participation Achievements under Initial Permit**

<b>Permit Year</b>	<b>Measurable Goal/Milestone</b>
Permit Year 1	<ul style="list-style-type: none"> <li>• Complete and submit Part B: Baseline Characterization and Report as required by 327 IAC 15-13-7.</li> <li>• Complete and submit Part C: Program Implementation as required by 327 IAC 15-13-8.</li> </ul>
Permit Year 2	<ul style="list-style-type: none"> <li>• Prepare community questionnaire to identify interested participants in the stormwater program</li> <li>• Conduct initial assessment of constituents to identify interested individuals for participation in the stormwater program</li> <li>• Accept public input on stormwater program issues</li> <li>• Publicize dates and times for meetings where stormwater related issues are discussed</li> <li>• Address stormwater issues at a minimum of one public meeting</li> <li>• Staff to attend at least one educational training session</li> <li>• Document and publish accomplishments in annual report</li> </ul>
Permit Year 3	<ul style="list-style-type: none"> <li>• Accept public input on stormwater program issues</li> <li>• Publicize dates and times for meetings where stormwater related issues are discussed</li> <li>• Address stormwater issues at a minimum of one public meeting</li> <li>• Staff to attend at least one educational training session</li> <li>• Document and publish accomplishments in annual report</li> </ul>
Permit Year 4	<ul style="list-style-type: none"> <li>• Accept public input on stormwater program issues</li> <li>• Publicize dates and times for meetings where stormwater related issues are discussed</li> <li>• Address stormwater issues at a minimum of one public meeting</li> <li>• Staff to attend at least one educational training session</li> <li>• Document and publish accomplishments in annual report</li> </ul>
Permit Year 5	<ul style="list-style-type: none"> <li>• Accept public input on stormwater program issues</li> <li>• Publicize dates and times for meetings where stormwater related issues are discussed</li> <li>• Address stormwater issues at a minimum of one public meeting</li> <li>• Staff to attend at least one educational training session</li> <li>• Document and publish accomplishments in annual report</li> <li>• Review and update SWQMP Public Involvement and Participation Program permit submittal</li> </ul>

The Partnership will continue to pursue similar goals for this ongoing permit.

# **SECTION 8 – Illicit Discharge Detection and Elimination**

## **8.1 Introduction and Rationale**

This section describes the illicit discharge detection and elimination activities of the Partnership in response to 327 IAC 15-13-14. The rationale for the program is the commitment to develop and implement a strategy to detect and eliminate illicit discharges to the MS4 conveyance system. The strategy includes the development of a storm sewer system and conveyance map. Activities selected take advantage of existing programs of the Partnership and surrounding communities, target specific water quality problems, and target specific audiences within the area.

## **8.2 Storm Sewer Map**

The Partnership will develop a storm sewer system map showing the location of all outfalls and MS4 conveyances within the MS4 area under the MS4 operator's control. A system map will be completed at a minimum of the rule-required rate of 25% per year with 100% system. The identification of system conveyance and outfall locations has been documented via Global Positioning System (GPS) utilizing a mapping-grade accuracy of a minimum of five (5) meters and will include metadata fully compliant with FGDC standards. The Partnership will document all located conveyances and outfalls on its GIS mapping system.

The Muncie Sanitary District has 100% of its storm sewer system and outfalls mapped in GIS and AutoCAD. The Town of Yorktown has 100% of its storm sewer system and outfalls mapped in GIS. Delaware County has 100% of its outfalls mapped in GIS and approximately 95% of its storm sewer system mapped. The County is diligently working to gather 100% of the information.

## **8.3 Local Regulatory Mechanism to Prohibit Illicit Discharges**

The Partnership has local regulatory mechanisms prohibiting illicit connections to the storm sewer system; 2006-11 for the Muncie Sanitary District, 470 dated 2006 for the Town of Yorktown and 2006-34 for Delaware County.

A copy of all these ordinances can be found on file with the Muncie Sanitary District, Town or County.

## **8.4 Detect, Address, and Eliminate Illicit Discharges**

As outfalls are located the Partnership will perform dry weather screening. Field personnel may use a field testing kit or other appropriate methods to analyze for pollutants of concern and other parameters, such as pH, conductivity, or nitrogen-ammonia, used to identify possible pollutant sources. All screening data will be

documented within the GIS storm system map. The Muncie Sanitary District Bureau of Water Quality Management has staff dedicated to this activity.

The active industrial NPDES permit holders within the jurisdiction have been mapped and tabulated in the Part B submittal. This data will be kept current and up to date on a regular basis.

The Partnership will host a telephone hotline and web-reporting tool. Legitimate reports of illicit discharges and illegal dumping will be tracked, investigated, and enforced if necessary.

**8.5 Education Program for Public Employees, Businesses, and the General Public about Illicit Discharge Hazards**

The Partnership plans to use brochures to educate public employees, businesses and the general public about illicit discharge hazards. The Partnership periodically produces training videos for municipal employees.

**8.6 Recycling Program for Commonly Dumped Wastes**

The Partnership in Partnership with East Central Recycling sponsors a Household Hazardous Waste Disposal Program. Free citizen drop-off is open Monday – Saturday. The Partnership also distributes educational materials on the program. The current program will be continued. Curbside recycling programs also exist in the MS4 area.

**8.7 Outreach and Reduction Goal Percentages and Timetables**

All illicit discharge detection and elimination activities have similar priorities and all will be conducted each permit year unless otherwise stated. Measurable goals are defined in the following table.

**Table 8.1 - Illicit Discharge Detection and Elimination Achievements under Initial Permit**

<b>Permit Year</b>	<b>Measurable Goal/Milestone</b>
Permit Year 1	<ul style="list-style-type: none"> <li>• Complete and submit Part B: Baseline Characterization and Report as required by 327 IAC 15-13-7.</li> <li>• Complete and submit Part C: Program Implementation as required by 327 IAC 15-13-8.</li> <li>• Develop and adopt a local regulatory mechanism prohibiting illicit connections to the storm sewer system</li> </ul>
Permit Year 2	<ul style="list-style-type: none"> <li>• Map 25% of storm sewer system</li> <li>• Develop policies, procedures and documentation tools for illicit discharge inspections, enforcement and tracking</li> <li>• Perform dry weather screenings to detect illicit discharges and document the number and location of outfalls screened and the number of illicit discharges detected and eliminated</li> </ul>

	<ul style="list-style-type: none"> <li>• Promote household hazardous waste recycling</li> <li>• Require storm drain markings for new development</li> <li>• Make educational materials available</li> <li>• Staff to attend at least one educational training session</li> <li>• Document and publish accomplishments in annual report</li> </ul>
Permit Year 3	<ul style="list-style-type: none"> <li>• Map 25% of storm sewer system</li> <li>• Perform dry weather screenings to detect illicit discharges and document the number and location of outfalls screened and the number of illicit discharges detected and eliminated</li> <li>• Promote household hazardous waste recycling</li> <li>• Require storm drain markings for new development</li> <li>• Make educational materials available</li> <li>• Staff to attend at least one educational training session</li> <li>• Document and publish accomplishments in annual report</li> </ul>
Permit Year 4	<ul style="list-style-type: none"> <li>• Map 25% of storm sewer system</li> <li>• Perform dry weather screenings to detect illicit discharges and document the number and location of outfalls screened and the number of illicit discharges detected and eliminated</li> <li>• Promote household hazardous waste recycling</li> <li>• Require storm drain markings for new development</li> <li>• Make educational materials available</li> <li>• Staff to attend at least one educational training session</li> <li>• Document and publish accomplishments in annual report</li> </ul>
Permit Year 5	<ul style="list-style-type: none"> <li>• Map 25% of storm sewer system</li> <li>• Perform dry weather screenings to detect illicit discharges and document the number and location of outfalls screened and the number of illicit discharges detected and eliminated</li> <li>• Promote household hazardous waste recycling</li> <li>• Require storm drain markings for new development</li> <li>• Make educational materials available</li> <li>• Staff to attend at least one educational training session</li> <li>• Document and publish accomplishments in annual report</li> <li>• Review and update SWQMP Illicit Discharge Detection and Elimination permit submittal</li> </ul>

The Partnership will continue to pursue similar goals for this ongoing permit.

# **SECTION 9 – Construction Site Storm Water Run-off Control**

## **9.1 Introduction and Rationale**

This section describes the construction site stormwater run-off control activities of the Partnership in response to 327 IAC 15-13-15. The rationale for the program is the commitment to develop and implement a strategy to develop, implement, manage, and enforce an erosion and sediment control program for construction activities that disturb one (1) or more acres of land within the MS4 area. The strategy includes the development of an ordinance that controls polluted run-off from construction sites, and development of procedures for plan review, site inspection and enforcement of control measures. Activities selected take advantage of existing programs, and target specific water quality problems and target audiences within the area.

## **9.2 Local Regulatory Mechanism That Controls polluted Run-off from Construction Sites**

The Partnership entities have existing stormwater and erosion control regulatory mechanisms and will continue to develop and adopt new controls for polluted run-off from construction sites in the MS4 area as needed. A plan duplicating Indiana's Rule 5 is in place.

## **9.3 Requirements to Control Construction Site Sediment, Erosion, and Other Wastes**

The Partnership will develop a program duplicating the existing Rule 5 plan review and approval process. The same submittal forms that have been developed by the Indiana Department of Natural Resources and used for the past several years will be used for the Muncie program. The plan, forms, and procedure and checklists to be used for plan review are included in Appendix C.

## **9.4 Procedures for Plan Review, Site Inspection (Including Prioritization of Sites) and Enforcement of Control Measures**

The Partnership will develop a program duplicating the existing Rule 5 plan review and approval process. Plan review will be done by a Stormwater Specialist. Site inspections will be done by the Partnership/Muncie Engineering Department. Monthly reports of construction site Notice of Intent sites will be submitted to the Indiana Department of Environmental Management. The forms and procedure to be used for plan review are included in Appendix B. The forms to be used for site inspection are included in Appendix C.

Priority construction sites will receive increased scrutiny during plan review, inspection, and enforcement of the Partnership's program to control construction site stormwater

run-off. Construction sites will be considered priority sites if they contain any of the following elements.

- Steep Slopes
- Highly Erodible Soils
- Sensitive Areas
- Mass Land Stripping/Grading Activities

**9.5 Annual Training for MS4 Personnel**

The Partnership will participate in annual training of staff members associated with the program.

**9.6 Procedures for Receipt and Consideration of Public Inquires, Concerns, and Information**

The Partnership will set up a record keeping system to allow for public review of records associated with erosion control permitted sites within the MS4 jurisdiction where the Partnership has conducted the review and received the Notice of Intent from the construction site operator.

**9.7 Outreach, Compliance, and Implementation Goals and Timetables**

The Partnership will continue to work with local developers, engineers, and builders to communicate the goals and procedures of the program. Compliance has been shown to improve as the local building community learns about the program. Measurable goals are defined in the following table.

**Table 9.1 – Construction Site Stormwater Run-off Control Achievements under Initial Permit**

<b>Permit Year</b>	<b>Measurable Goal/Milestone</b>
Permit Year 1	<ul style="list-style-type: none"> <li>• Complete and submit Part B: Baseline Characterization and Report as required by 327 IAC 15-13-7.</li> <li>• Complete and submit Part C: Program Implementation as required by 327 IAC 15-13-8.</li> <li>• Develop a local regulatory mechanism that controls polluted run-off from construction sites in the MS4 area</li> </ul>
Permit Year 2	<ul style="list-style-type: none"> <li>• Implement a regulatory mechanism that controls polluted run-off from construction sites in the MS4 area</li> <li>• Submit monthly construction site project summary</li> <li>• Reference the latest version of the Indiana Stormwater Quality Manual as the technical manual of reference for the Partnership’s sediment control program</li> <li>• Review all new development plans for compliance with grading and erosion control regulations, subdivision ordinance and</li> </ul>

	<p>technical guidance.</p> <ul style="list-style-type: none"> <li>• Train plan review and inspection staff on erosion and sediment control</li> <li>• Incorporate erosion and sediment control complaints into existing sewer maintenance complaint system. Track complaint type, date, inspection date and action taken</li> <li>• Develop and implement an ongoing erosion and sediment control inspection program, assigning responsibilities, establishing policies, and developing procedures</li> <li>• Develop policies and procedures for the enforcement program</li> <li>• Document and publish accomplishments in annual report</li> </ul>
Permit Year 3	<ul style="list-style-type: none"> <li>• Submit monthly construction site project summary</li> <li>• Reference the latest version of the Indiana Stormwater Quality Manual as the technical manual of reference for the Partnership's sediment control program</li> <li>• Review all new development plans for compliance with grading and erosion control regulations, subdivision ordinance and technical guidance.</li> <li>• Train plan review and inspection staff on erosion and sediment control</li> <li>• Track erosion and sediment control complaint type, date, complaint, inspection date and action taken</li> <li>• Revise if necessary and implement an ongoing erosion and sediment control inspection program, assigning responsibilities, establishing policies, and developing procedures</li> <li>• Revise and implement policies and procedures for the enforcement program, if necessary</li> <li>• Document and publish accomplishments in annual report</li> </ul>
Permit Year 4	<ul style="list-style-type: none"> <li>• Submit monthly construction site project summary</li> <li>• Reference the latest version of the Indiana Stormwater Quality Manual as the technical manual of reference for the Partnership's sediment control program</li> <li>• Review all new development plans for compliance with grading and erosion control regulations, subdivision ordinance and technical guidance.</li> <li>• Train plan review and inspection staff on erosion and sediment control</li> <li>• Track erosion and sediment control complaint type, date, complaint, inspection date and action taken</li> <li>• Revise if necessary and implement an ongoing erosion and sediment control inspection program, assigning responsibilities, establishing policies, and developing procedures</li> <li>• Revise and implement policies and procedures for the enforcement program, if necessary</li> <li>• Document and publish accomplishments in annual report</li> </ul>

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| <p>Permit Year 5</p> <ul style="list-style-type: none"><li>• Submit monthly construction site project summary</li><li>• Reference the latest version of the Indiana Stormwater Quality Manual as the technical manual of reference for the Partnership's sediment control program</li><li>• Review all new development plans for compliance with grading and erosion control regulations, subdivision ordinance and technical guidance.</li><li>• Train plan review and inspection staff on erosion and sediment control</li><li>• Track erosion and sediment control complaint type, date, complaint, inspection date and action taken</li><li>• Revise if necessary and implement an ongoing erosion and sediment control inspection program, assigning responsibilities, establishing policies, and developing procedures</li><li>• Revise and implement policies and procedures for the enforcement program, if necessary</li><li>• Document and publish accomplishments in annual report</li><li>• Review and update SWQMP Construction Site Stormwater Run-off Control permit submittal</li></ul> |
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The Partnership will continue to pursue similar goals for this ongoing permit.

# **SECTION 10 – Post Construction Storm Water Run-off Control**

## **10.1 Introduction and Rationale**

This section describes the potential post construction stormwater run-off control activities of the Partnership in response to 327 IAC 15-13-16. The program outlined in this section is in draft form and will be finalized within 730 days of the submission of the Notice of Intent. The rationale for the program is the commitment to develop, implement, manage, and enforce a program to address discharges of post-construction stormwater runoff from new development and redevelopment areas that disturb one or more acres of land or disturbances of less than one acre of land that are part of a larger common plan of development or sale if the larger common plan will ultimately disturb one or more acres of land within the MS4 area.

## **10.2 Local Regulatory Mechanism that Requires the Implementation of Planning Procedures to Promote Improved Water Quality**

The Partnership worked with the Delaware Muncie Metropolitan Plan Commission to develop a local regulatory mechanism that meets the requirements of this section within 730 days of the submission of its Notice of Intent, which was November 2003. The Partnership implemented planning procedures that promote improved water quality. The planning procedures included, where appropriate, the following items:

- Post-construction requirements of 327 IAC 15-5-6.5(a)(8).
- Buffer strip and riparian zone preservation
- Filter strip creation
- Minimization of land disturbances and surface imperviousness
- Maximization of open space
- Directing community growth away from sensitive areas and towards areas that can support it without compromising water quality

Delaware County and the Muncie Sanitary District adopted these procedures in December 2006 and Yorktown adopted them in October 2004.

While both Delaware County and Muncie Drainage Ordinances comply with these regulations and the regulations passed for Construction Site Erosion Control address post-construction issues, they are currently under review, public comment and are expected to be updated in 2011 with even further stormwater friendly requirements.

## **10.3 Use of Any Storage, Infiltration, Filtering, and/or Vegetative Practice to Reduce the Impact of Pollutants on Storm Water Run-off**

Where appropriate and to the extent of the MS4 operator’s authority, the plan will include the following items:

- Prohibit using infiltration practices in well head protection areas
- Require an appropriately-sized vegetated filter strip width along unvegetated swales/ditches
- Prohibit discharges directly to sinkholes or fractured bedrock, without appropriate treatment to meet Indiana ground water quality standards
- Require any discharge from a storm water practice that is a Class V injection well to meet Indiana ground water quality standards
- Require appropriate BMPs to reduce metals and hydrocarbons are installed at new retail gasoline outlets or municipal/institutional refueling areas
- Regulate the rate of storm water flow through the MS4 Conveyances
- Require annual training for MS4 personnel responsible for implementing this MCM
- Identifies and schedules implementation of a written O&M plan for structural BMPs

#### 10.4 Goals for Reduction Percentages and Timetables

All post construction stormwater run-off control activities have similar priorities and all will be conducted each permit year unless otherwise stated. Measurable goals are defined in the following table.

**Table 10.1 – Post Construction Stormwater Run-off Control Achievements under Initial Permit**

Permit Year	Measurable Goal/Milestone
Permit Year 1	<ul style="list-style-type: none"> <li>• Complete and submit Part B: Baseline Characterization and Report as required by 327 IAC 15-13-7.</li> <li>• Complete and submit Part C: Program Implementation as required by 327 IAC 15-13-8.</li> </ul>
Permit Year 2	<ul style="list-style-type: none"> <li>• Adopt and a local regulatory mechanism that addresses post construction run-off from new developments and redevelopment sites in the MS4 area</li> <li>• Create a program to develop and address discharges of post construction stormwater run-off from new development and redevelopment areas</li> <li>• Reference the latest version of the Indiana Stormwater Quality Manual as the technical manual of reference for the Partnership’s sediment control program</li> <li>• Train plan review and inspection staff on erosion and sediment control</li> <li>• Document and publish accomplishments in annual report</li> <li>• Submit Certification Form for Post Construction Stormwater Run-</li> </ul>

off Control	
Permit Year 3	<ul style="list-style-type: none"> <li>● Implement a program to develop and address discharges of post construction stormwater run-off from new development and redevelopment areas</li> <li>● Reference the latest version of the Indiana Stormwater Quality Manual as the technical manual of reference for the Partnership's sediment control program</li> <li>● Train plan review and inspection staff on erosion and sediment control</li> <li>● Use storage, infiltration, filtering, or vegetative practices to reduce the impact of pollutants in stormwater run-off on receiving waters</li> <li>● Document and publish accomplishments in annual report</li> </ul>
Permit Year 4	<ul style="list-style-type: none"> <li>● Reference the latest version of the Indiana Stormwater Quality Manual as the technical manual of reference for the Partnership's sediment control program</li> <li>● Train plan review and inspection staff on erosion and sediment control</li> <li>● Use storage, infiltration, filtering, or vegetative practices to reduce the impact of pollutants in stormwater run-off on receiving waters</li> <li>● Document and publish accomplishments in annual report</li> </ul>
Permit Year 5	<ul style="list-style-type: none"> <li>● Reference the latest version of the Indiana Stormwater Quality Manual as the technical manual of reference for the Partnership's sediment control program</li> <li>● Train plan review and inspection staff on erosion and sediment control</li> <li>● Use storage, infiltration, filtering, or vegetative practices to reduce the impact of pollutants in stormwater run-off on receiving waters</li> <li>● Document and publish accomplishments in annual report</li> <li>● Review and update SWQMP Post Construction Stormwater Run-off Control permit submittal</li> </ul>

The Partnership will continue to pursue similar goals for this ongoing permit.

# **SECTION 11 – Municipal Operations Pollution Prevention and Good Housekeeping**

## **11.1 Introduction and Rationale**

This section describes the municipal operations pollution prevention activities of the Partnership in response to 327 IAC 15-13-17. The rationale for the program is the commitment to develop and implement a program to prevent or reduce pollutant run-off from municipal operations within the MS4 area. Activities selected take advantage of existing programs, and target specific water quality problems within the area.

## **11.2 Program to Ensure that Municipal, State or Federal Operations are Performed to Minimize Storm Water Contamination**

To the extent of their authority, the Partnership and the MS4 operator will develop and implement a program to ensure that existing municipal operations are performed in ways that will reduce contamination of storm water discharges. The program will include the following:

- Address written documentation of maintenance activities, maintenance schedules, and long-term inspection procedures for BMPs to reduce floatables and other pollutants discharges from the storm sewer system
- Address controls for reducing or eliminating the discharge of pollutants from operational areas, including roads, parking lots, maintenance and storage yards, and waste transfer stations
- Requires a minimum distance of 150 feet for canine parks to be sited away from a surface water body
- Address written procedures for the proper disposal of waste removed from MS4 conveyances and operational areas
- Address written documentation to ensure that new flood management projects assess their impacts on water quality and examine existing projects for incorporation of additional water quality protection devices or practices
- Address documentation for MS4 area personnel to attend annual training regarding this MCM
- Address municipal owned construction sites to insure good housekeeping practices

## **11.3 Goals for Reduction Percentages and Timetables**

All municipal operations pollution prevention and good housekeeping activities have similar priorities and all will be conducted each permit year unless otherwise stated. Measurable goals are defined in the following table.

**Table 11.1 – Municipal Operations Pollution Prevention & Good Housekeeping Achievements under Initial Permit**

<b>Permit Year</b>	<b>Measurable Goal/Milestone</b>
Permit Year 1	<ul style="list-style-type: none"> <li>• Complete and submit Part B: Baseline Characterization and Report as required by 327 IAC 15-13-7.</li> <li>• Complete and submit Part C: Program Implementation as required by 327 IAC 15-13-8.</li> </ul>
Permit Year 2	<ul style="list-style-type: none"> <li>• Train appropriate maintenance and operations staff on erosion and sediment control measure installation and maintenance practices, and document training</li> <li>• Train appropriate maintenance and operations staff on storm water pollution prevention and good housekeeping practices for municipal operations, and document training</li> <li>• Perform sweeping of roadways and priority areas and develop a log of sweeping activities</li> <li>• Clean catch basins</li> <li>• Examine current municipal operations to determine where additional pollution prevention activities, policies, training or structural measures are needed</li> <li>• Document and publish accomplishments in annual report</li> </ul>
Permit Year 3	<ul style="list-style-type: none"> <li>• Train appropriate maintenance and operations staff on erosion and sediment control measure installation and maintenance practices, and document training</li> <li>• Train appropriate maintenance and operations staff on storm water pollution prevention and good housekeeping practices for municipal operations, and document training</li> <li>• Perform sweeping of roadways and priority areas and develop a log of sweeping activities</li> <li>• Clean catch basins</li> <li>• Examine current municipal operations to determine where additional pollution prevention activities, policies, training or structural measures are needed</li> <li>• Document and publish accomplishments in annual report</li> </ul>
Permit Year 4	<ul style="list-style-type: none"> <li>• Train appropriate maintenance and operations staff on erosion and sediment control measure installation and maintenance practices, and document training</li> <li>• Train appropriate maintenance and operations staff on storm water pollution prevention and good housekeeping practices for municipal operations, and document training</li> <li>• Perform sweeping of roadways and priority areas and develop a log of sweeping activities</li> <li>• Clean catch basins</li> <li>• Examine current municipal operations to determine where</li> </ul>

	<p>additional pollution prevention activities, policies, training or structural measures are needed</p> <ul style="list-style-type: none"> <li>• Document and publish accomplishments in annual report</li> </ul>
Permit Year 5	<ul style="list-style-type: none"> <li>• Train appropriate maintenance and operations staff on erosion and sediment control measure installation and maintenance practices, and document training</li> <li>• Train appropriate maintenance and operations staff on storm water pollution prevention and good housekeeping practices for municipal operations, and document training</li> <li>• Perform sweeping of roadways and priority areas and develop a log of sweeping activities</li> <li>• Clean catch basins</li> <li>• Examine current municipal operations to determine where additional pollution prevention activities, policies, training or structural measures are needed</li> <li>• Document and publish accomplishments in annual report</li> <li>• Review and update SWQMP Municipal Operation Pollution Prevention and Good Housekeeping permit submittal</li> </ul>

The Partnership will continue to pursue similar goals for this ongoing permit.

# **SECTION 12 – Reporting**

## **12.1 Introduction and Rationale**

This section describes the reporting activities of the Partnership in response to 327 IAC 15-13-18. The rationale for the program is the commitment to develop reporting requirements for annual and monthly reporting.

## **12.2 Annual Report**

The Partnership will submit an annual report to the department, certified by the MS4 operator and containing the following items:

- Progress towards development, implementation, and enforcement of all MCMs, including updated programmatic indicator data
- Summary of complaints received and follow-up investigation results related to storm water quality issues
- Updated measurable goals
- Storm water BMPs installed or initiated
- Follow-up or additional water quality characterization
- Updated active industrial facilities list
- Implementation problems encountered, including BMP changes due to ineffectiveness or infeasibility
- Funding sources and expenditures
- Changes to MS4 area boundaries, including land areas added to the MS4 area via annexation and other similar means
- Identified storm water quality improvement projects
- Updated receiving water information

## **12.3 Monthly Construction Site Project Summary**

This section has been removed at the request of IDEM.