

Stormwater Quality Management Plan for **Howard County, Indiana**

Part C: Program Implementation Report (Permit Term: November 2013 – October 2018)



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Section Two: Minimum Control Measures

MCM 1: Public Education and Outreach:

Program Description

The public education and outreach program draws from many existing activities related to water quality education and provides new activities not currently offered in the community. These activities reach a variety of audiences through Howard County government offices, Howard County Extension and Conservation offices as well as local volunteer groups, primarily the Wildcat Guardians. Tools for providing education include all types of media (newspaper articles, brochures, flyers, radio, website) and displays and presentations at festivals, fairs, field days, classes, and camps. Additionally, business and industry within the community have educational opportunities through the Solid Waste District and their own Environmental Management Systems (ISO 14001) programs.

BMP 1: Provide public education to target audiences

Target Audience: general public, all audiences

Measurable Goals:

1. Develop a logo for the Stormwater District.
2. Develop educational materials for use with target audiences. For example, contractors and builders are targeted for Rule 5 permitting and sediment and erosion control education. (Residents, homeowners, contractors and builders, students)
3. Provide education presentations for school classrooms and organization meetings (garden clubs, etc). Provide displays for community events (fair, Earth Day, Home Show, etc.).

BMP 2: Provide public outreach – advertise stormwater protection through public media.

Target Audience: general public, all audiences

Measurable Goals:

1. Explore different avenues of media for reaching mass audiences. Media would include (newspapers, radio, billboards, website, and television)

BMP 3: Develop and maintain website for stormwater program.

Target Audience: general public, all audiences

Measurable Goals:

1. Track unique visitors to website.

MCM 2: Public Participation and Involvement

Program Description

The public participation and involvement program strengthens existing partnerships with citizen groups, churches, and schools. The Stormwater District will continue to provide opportunities for involvement in maintaining stormwater conveyances and preventing stormwater pollution. The District will also invite participation in identifying information needs and educational events to promote stormwater pollution prevention. The District will actively build a base of volunteers for participation events and assist the Wildcat Guardians by recruiting volunteers for cleanup events.

BMP 1: Provide opportunities for public participation and involvement.

Target Audience: general public, all audiences

Measurable Goal:

1. Hold an annual meeting of the stakeholders.
2. Process stormwater complaints.
3. Provide opportunities for stream walks, water quality monitoring, and cleanups.

BMP 2: Support Howard County Recycling District activities.

Target Audience: general public, all audiences

Measurable Goal:

1. Coordinate with Howard County Recycling District for household hazardous waste disposal and other recycling activities.

MCM 3: Illicit Discharge Detection and Elimination

Program Description

The purpose of this program is to locate and eliminate illicit discharges to the county MS4 conveyance system. The Howard County Illicit Discharge Ordinance (No. 2010 BCCO-12) prohibits illicit discharge into MS4 conveyances and establishes appropriate enforcement procedures and actions.

In year one of the permit cycle the task is to map the stormwater conveyance system and locate all outfalls to the receiving waters. In the remaining years of the permit, the task is to conduct dry weather screening and investigate outfall discharges for 25% of the NOI receiving waters each year. The Howard County MS4 also conducts water quality sampling of such discharges to assess violations of water quality standards and prioritize investigations. Investigations proceed upstream of outfalls with dry weather flow in violation of a water quality standard with the objective of locating the source and stopping the discharge.

Education about illicit discharges will be provided to targeted audiences as part of public education and outreach activities.

BMP 1: Maintain the map of the stormwater conveyance system.

Target Audience: stormwater board, general public, all audiences

Measurable Goals:

1. Create a GIS based map identifying NOI receiving waters and stormwater conveyances within the Howard County MS4 area.
2. Determine the miles of conveyances in the MS4 area.

BMP 2: Conduct outfall reconnaissance inventory.

Target Audience: stormwater board, general public, all audiences

Measurable Goals:

1. Walk the NOI receiving waters and locate all outfalls in permit year one. Conduct dry weather screening for flowing outfalls on 25% of NOI receiving waters in permit years two through five.
2. Number of outfalls inspected.

BMP 3: Enforce the Illicit Discharge Ordinance.

Target Audience: general public, all audiences

Measurable Goals: 1. Enforce the Howard County Illicit Discharge Ordinance 2010 BCCO-12.

MCM 4: Construction Site Runoff Control

Program Description

The purpose of this MCM is to support Indiana's "Rule 5" (327 IAC 15-5) which regulates stormwater runoff at construction sites with greater than one (1) acre of land disturbance. The Howard County Ordinance (Storm Water Management in New Development and Redevelopment, No. 2010 BCCO-13) provides standards to regulate the quantity and quality of storm water runoff when land use changes from open or agricultural to a use that may result in increased imperviousness.

Regulation of construction site runoff controls is done through a permitting system managed by the Howard County MS4 staff. Permit requirements are specified in the Howard County Ordinance (No. 2010 BCCO-13). The Howard County MS4 staff manage all permit applications in Howard County, assign plan reviews, notify applicants in case of deficiencies, issue permits, and conducts enforcement actions for violations of the Ordinance. Plan reviews and construction site inspections are conducted by the Howard County SWCD.

BMP 1: Administer Rule 5 for stormwater runoff controls associated with construction activity.

Target Audience: contractors, builders, developers, homeowners

Measurable Goal:

1. Review the construction plans for Rule 5 compliance and issue permits.
2. Conduct site inspections during construction and conduct enforcement actions when necessary.

MCM 5: Post-Construction Site Runoff Control

Program Description

The purpose of this program is to support Indiana's "Rule 5" (327 IAC 15-5) which regulates post-construction stormwater runoff at construction sites with greater than one (1) acre of land disturbance. The Howard County Ordinance (Storm Water Management in New Development and Redevelopment, No. 2010 BCCO-13) provides standards to regulate the quantity and quality of storm water runoff when land use changes from open or agricultural to a use that may result in increased imperviousness.

Regulation of post-construction site runoff controls is done through a permitting system managed by the Howard County MS4 staff. Post-construction runoff control requirements are specified in the Howard County Ordinance (No. 2010 BCCO-13). The Howard County MS4 staff manage all permit applications in Howard County, assign post-construction plan reviews, notify applicants in case of deficiencies, issue permits, and conducts enforcement actions for violations of the Ordinance. Post-construction plan reviews are conducted by a licensed Professional Engineer on contract with the Howard County MS4.

The Howard County MS4 will create a database of post-construction runoff controls using GIS. These practices will be inspected annually for compliance with the Howard County Ordinance (No. 2010 BCCO-13).

BMP 1: Administer Rule 5 and Rule 13 requirements associated with post-construction stormwater runoff controls.

Target Audience: Contractors, builders, developers, homeowners

Measurable Goals:

1. Review construction plans for compliance with post-construction stormwater runoff controls.
2. Inspect post-construction runoff controls annually.

MCM 6: Municipal Operations Pollution Prevention and Good Housekeeping

Program Description

The purpose of this program is to ensure that stormwater pollution prevention practices are implemented at nine (9) county-owned facilities. This program sets an example for the community in water quality protection. The program addresses both facilities and stormwater conveyances. Each county-owned facility is assessed for stormwater pollution and a Stormwater Pollution Prevention Plan (SWPPP) to address any shortfalls is produced. Employee training to support the plan is provided. MS4 stormwater conveyances must also be maintained to prevent pollution. Potential problems include deteriorating outfalls, collapsed and eroding structures, illicit discharges, and any other conveyance issue that could be associated with stormwater pollution.

BMP 1: Control pollutant runoff from municipal facilities.

Target Audience: county employees

Measurable Goals:

1. Assess each county-owned facility for stormwater pollution potential.
2. Develop a SWPPP to address stormwater pollution issues at each facility. Post SWPPP at each facility.
3. Provide training for each facility to educate employees about potential for stormwater pollution and procedures for prevention.
4. Conduct regular site inspections to ensure good housekeeping.

BMP 2: Maintain stormwater conveyances.

Target Audience: county employees

Measurable Goals: 1. Clean MS4 conveyances and structures as needed.