



# STORMWATER QUALITY MANAGEMENT

# PLAN

**2022**

Muncie Sanitary District, Delaware County, Town of Yorktown, and  
Ivy Tech- Yorktown

## Purpose of Report

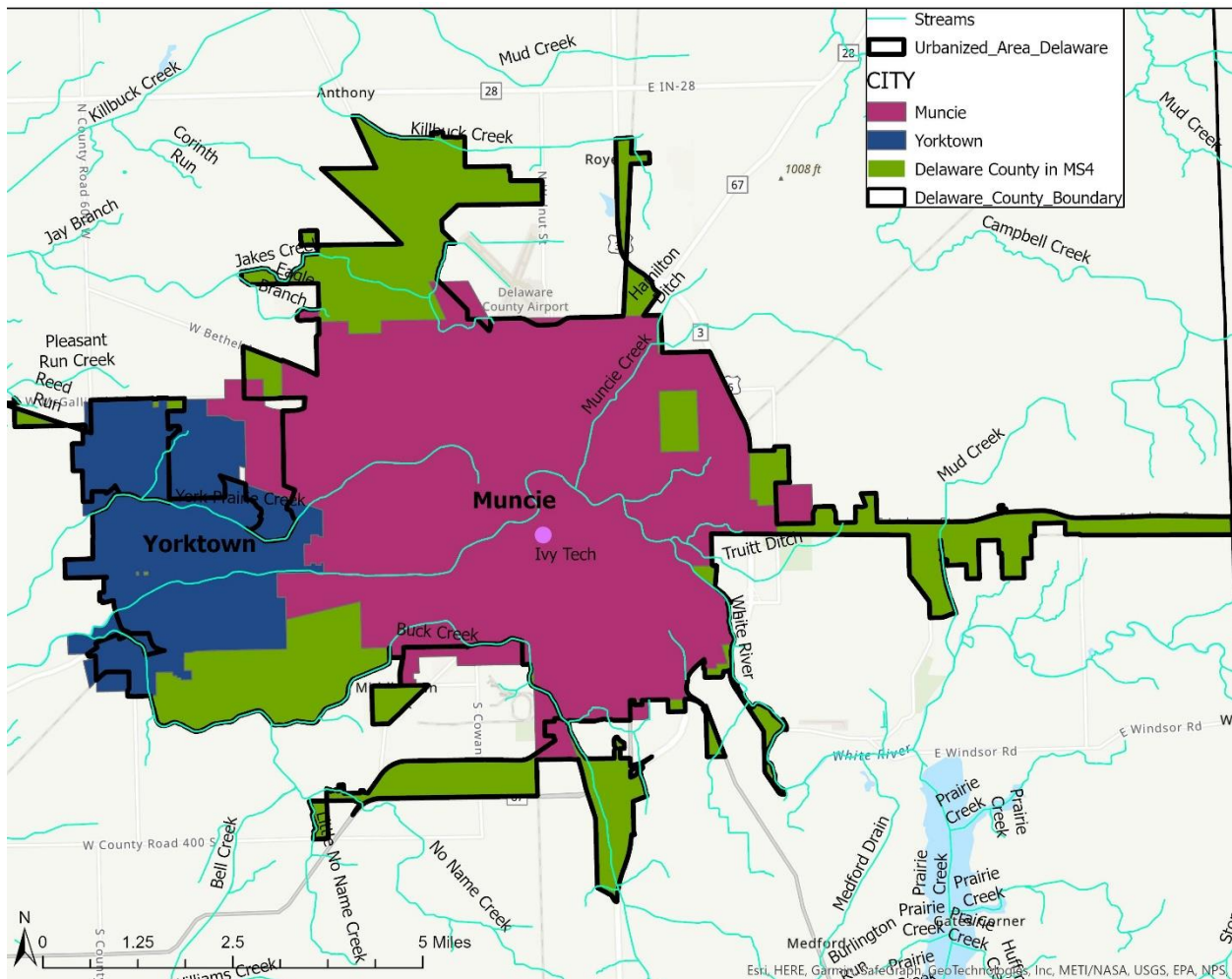
This report is a required submittal in accordance with Indiana's new Stormwater General Permit, formerly 327 IAC 15-13-7, and must be "developed, implemented, and maintained to include provisions that will reduce the discharge of pollutants from the MS4 to protect water quality, human health and biotic community".

Through the Indiana Department of Environmental Management (IDEM), the Muncie Sanitary District (MSD), the Town of Yorktown, Ivy Tech Muncie and Delaware County, Indiana are permitted jointly to discharge stormwater from their municipal separate storm sewer systems (MS4) under the Stormwater General Permit.

## Jurisdictional boundaries of the MS4

The area of coverage as defined in the Stormwater General Permit is the urbanized area of the Muncie Sanitary District, which includes 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 Delaware County.

**Figure 1. Jurisdictional boundaries of the MS4.**



**Receiving waters of the MS4**

**Table 1. Storm sewer discharges are permitted into the following HUC-12 watersheds and receiving waters:**

HUC-12 Subwatershed		Receiving Waters	
51202010109	Mud Cr- White River	32 Ditch	Killbuck Cr
51202010110	Truitt Ditch- White River	Bell Cr	Lennox Ditch
51202010111	Hamilton Ditch- White River	Buck Cr	Little No Name Cr
51202010203	No Name Cr- Bell Cr	Eagle Branch Cr	Mud Cr
51202010204	Macedonia Cr- Buck Cr	Fuson Ditch	No Name Cr
51202010301	Mud Cr- Killbuck Cr	Greenfarm Ditch	Truitt Ditch
51202010302	Jake's Creek	Hamilton Ditch	Unnamed Trib to YPC
51202010303	Thurston- Killbuck Cr	Holt Ditch	York Prairie Cr
51202010305	York Prairie Cr- White River	Jake's Cr	West Fork White River

**Identification of MS4 entity responsible for each Minimum Control Measures (MCM)**

All MCMs will be reviewed, evaluated, and revised annually as needed. All staff overseeing MCMs will be trained annually. All MCMs will report to IDEM annually.

- **MCM 1&2: Public Education, Outreach, Participation, and Involvement**

This is primarily covered by the Stormwater Educator, Jason Donati, with participation and funding from all co-permitted entities.

Jason Donati  
300 N. High St.  
Muncie, IN 47305  
(765)747-4771

- **MCM 3: Illicit Discharge Detection and Elimination**

This is primarily covered by the MS4 Coordinator, Laura Bowley, with participation and funding contributed from all co-permitted entities.

Laura Bowley  
5150 W. Kilgore Ave.  
Muncie, IN 47304  
(765) 747-4896

- **MCM 4 & 5: Construction and Post- Construction Stormwater Run-off**

This is primarily covered by the Stormwater Inspector, Courtney Pruitt, with participation and funding from all co-permitted entities.

Courtney Pruitt  
5150 W. Kilgore Ave.  
Muncie, IN 47304

(765) 747-4896

- **MCM 6: Municipal Operations Pollution Prevention and Good Housekeeping**

This is primarily coordinated by the stormwater staff, with participation and funding contributed from all co-permitted entities.

Laura Bowley	Courtney Pruitt	Jason Donati
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**Identified target constituents and three community-wide water quality issues**

Target constituents for this MS4 have been identified as schools, homeowner’s associations, commercial and industrial facilities, and construction contractors and crews.

Three community-wide stormwater quality issues have been identified: 1. Construction- tracking, 2. Residential- grass-clippings/yard waste prohibiting drainage of stormwater and polluting streams in neighborhoods, and 3. Commercial and Industrial- overflowing waste dumpsters and grass clippings prohibiting drainage of stormwater. Contact will be made with the target constituents, information and materials will be distributed, meetings and events will be coordinated and attended, and issues will be addressed on an ongoing basis.

**Detailed program description and goals for each Minimum Control Measure**

All MCMs are currently implemented and ongoing. Each Minimum Control Measure will be assessed annually, with goals, standard operating procedures, and ordinances updated, as necessary.

- **MCM 1&2: Public Education, Outreach, Participation, and Involvement**

Community education and outreach events are scheduled throughout the year. One of the largest events is an annual, week-long, youth environmental education camp for children in grades 1-8, called Cam Prairie Creek. The Muncie Sanitary District is also a sponsor of the annual White River Cleanup that cleans over 15 miles of river, and averages over 500 community volunteers.

The goal for MCM 1 & 2 is to annually identify three local stormwater quality issues to focus on, conduct a minimum of two community events to address these issues, and distribute as much stormwater educational material as possible. The more specific goal is to educate constituents about how their actions can impact stormwater quality and give them tools to change their behavior and protect our waterways. These goals will be accomplished through public outreach, annual cleanups, providing educational opportunities at community events, participation in neighborhood meetings, and distribution of materials. These efforts and opportunities will be promoted through the MSD website, social media, newsletters, and other communication platforms. The Stormwater Educator will also add all reports, ordinances, information, and events to the website and update, as necessary. Participation in school career days, field days, after school programs, science fairs, host facility field trips, and in-person classroom lessons occur throughout the year.

One of the biggest priorities of the Stormwater Educator is to raise awareness of stormwater issues. Raising awareness among the public about how their actions can impact stormwater quality has the potential to bring about large-scale positive changes, and a community-wide domino effect. The belief is that getting into schools and working with teachers on an ongoing basis will not only bring important information into a multitude of households but will inspire change in future generations as well.

- **MCM 3: Illicit Discharge Detection and Elimination (IDDE)**

The IDDE program includes mapping of all known conveyances and stormwater outfalls, storm drain casting and stenciling, dry weather screening for illicit discharges, illicit discharge tracking and elimination, response to all reports of illicit discharges/spills, and to provide household hazardous waste/auto fluid/medical/e-waste drop offs. Implementation of all components is on-going.

Goals for MCM 3 include casting/stenciling all storm drains, private and public, with “Dump No Waste, Drains to River,” mapping of all stormwater conveyances and outfalls, an attempt to screen 20% of all outfalls for illicit discharge (with 100% of outfalls screened within each permit cycle), timely response to reports of illicit discharges/spills, and Providing access to household hazardous waste/auto fluid/pharmaceutical and e-waste drop-offs to all constituents.

Removal of illicit discharges is critical to improving water quality. directly and immediately improves. Illicit discharges negatively affect recreation, drinking water standards, safety, aquatic and terrestrial wildlife, and aesthetics of our waterways.

- **MCM 4 & 5: Construction and Post-Construction Site Stormwater Run-off**

The Construction and Post-Construction Stormwater Run-off Control program includes online guidance and forms for SWPPP submittal, plan reviews, pre-construction meetings, inspection of construction sites including enforcement, when necessary, review of post-construction BMPs (Best Management Practices), inspection of post-construction BMPs. The Stormwater Educator also holds an annual Contractor Workshop to educate the construction community, maintains a web page containing pertinent educational information on construction/post-construction stormwater topics, responds to construction-related stormwater complaints, inspects all MS4-owned facilities, and documents all components.

The goals for these MCMs include reviewing all plans within 10 business days of receipt, inspecting all construction sites monthly (with high priority sites receiving more frequent inspections), and handling violations and enforcement when necessary, and to review 20% of post-construction project BMPs annually. The Stormwater Inspector also holds an annual Contractor Workshop, maintains the Stormwater Construction webpage, handles stormwater complaints in a pertinent and timely manner, provides stormwater education and documents all components.

A strong Construction and Post-Construction Site Stormwater Run-off program primarily eliminates loads of high sediment in our waterways, but also reduces trash and contaminants that bind to the sediments. High volume runoff that can occur on construction sites can degrade the physical features of our waterways as well. All of these factors

threaten the habitat, diversity and abundance of aquatic and terrestrial organisms associated with our waterways.

- **MCM 6: Municipal Operations Pollution Prevention and Good Housekeeping**  
The Municipal Operations Pollution Prevention and Good Housekeeping program includes documentation of MS4 conveyance system maintenance, and creation of and ensuring compliance to MS4 facility SWPPPs, SPCCs (Spill Prevention Control and Countermeasures) as necessary, and Operation and Maintenance Manuals including a Spill Response Plan. MCM 6 includes providing stormwater training for all MS4 employees, training for stormwater staff, documentation, and inspection of MS4 owned potential stormwater problem areas, and locations of pesticides and fertilizers application, salt, and sand storage areas for snow and ice control, and dog parks.

MS4 employee training is held annually with an online component available to new employees (part-time/seasonal employees must have training within 30 days, and full-time employees within 60 days. Training for stormwater staff occurs throughout the year but is at least 12 hours of training with 8 hours pertaining to the MCM which they are responsible for administering, with additional responsibilities on-going and as needed throughout the year.

Education of MS4 employees helps MS4s reduce or eliminate their contribution to stormwater pollution, ensuring that employees know what to do in to prevent issues and react if to issues if necessary.

## **Updates**