

Pollution Prevention and Good Housekeeping Begins in Your Backyard

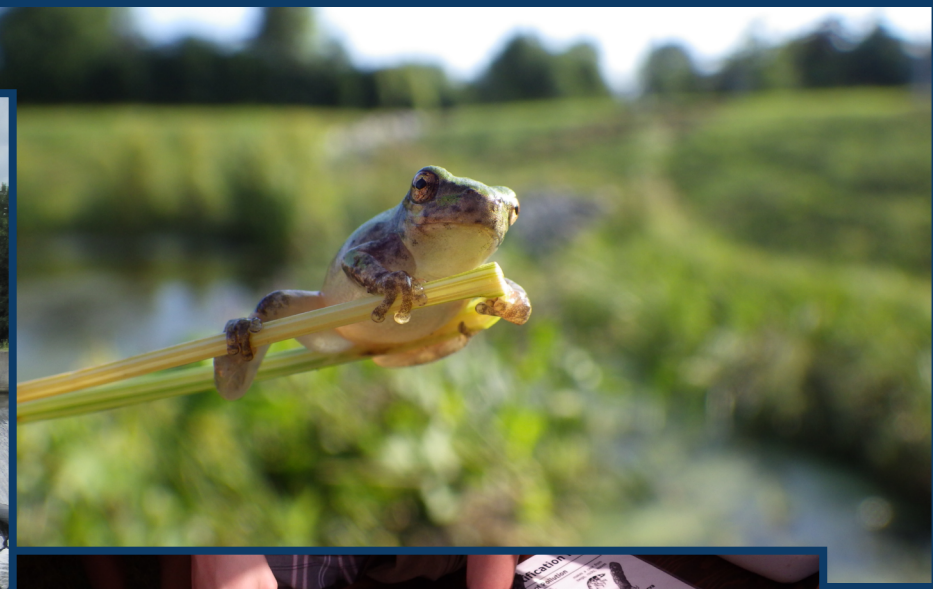


Flood Control and Annual MCM 6 Program Assessments

MS4 General Permit Section 4.7

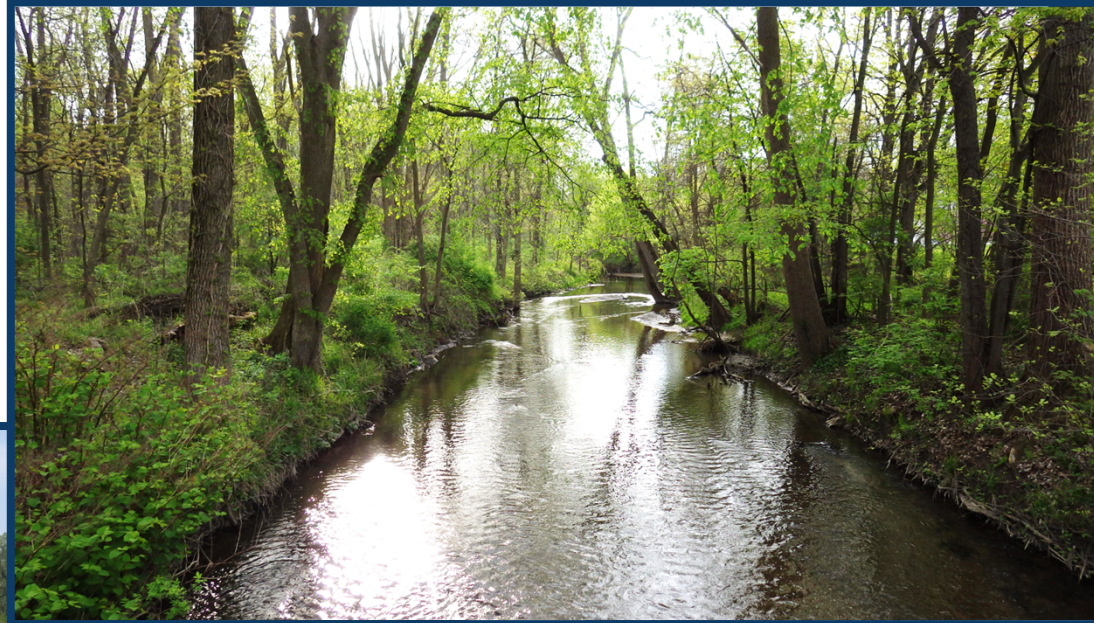


Why We Are Here: Clean Water for All



What is Your Backyard?

- Your Community (Immediate & Watershed)
- Waterbodies & Waterways
- Public Sidewalks & Streets
- Public Stormwater Infrastructure
- MS4 Owned Facilities



Flood Control Structures: Structural

MS4 GP Section 4.7(k)

Definition: a structure(s) used to control flooding including but not limited to impoundments and infiltration measures (within the floodplain).

Rule of Thumb: Slow it Down, Spread it Out, Soak it In

Structural Examples:

- Dams
- Dikes, Levees, Etc. (not part of the MS4 General Permit)
- Diversion Canals & Flood Gates
- Two-Stage Ditches
- Wetlands (natural or constructed)
- **Forested Floodplains & Watersheds**
- **Native Vegetation**

Documentation:

- Permits from the USACOE, IDEM, & IDNR
- Hydrologic Studies



Flood Control Structures: Non-Structural

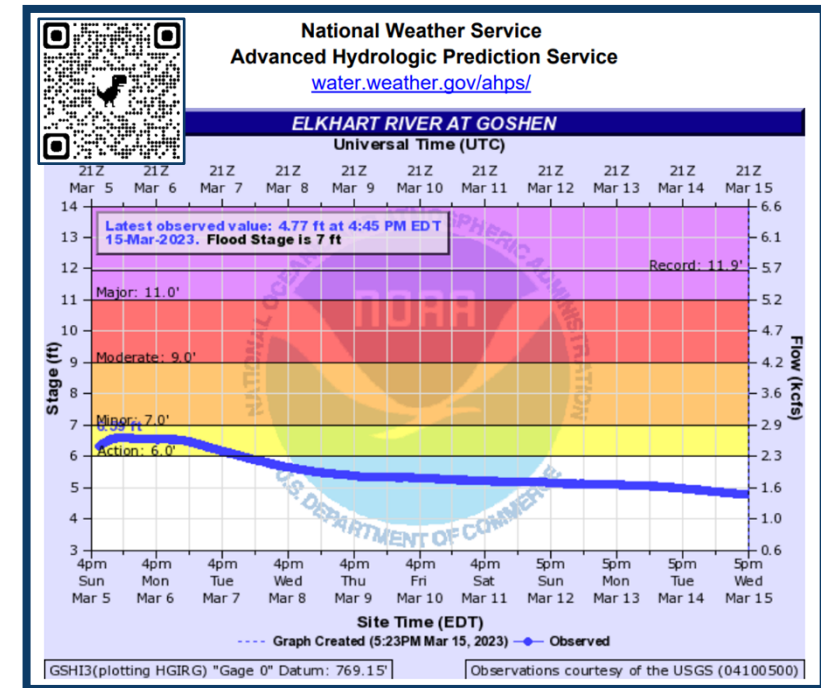
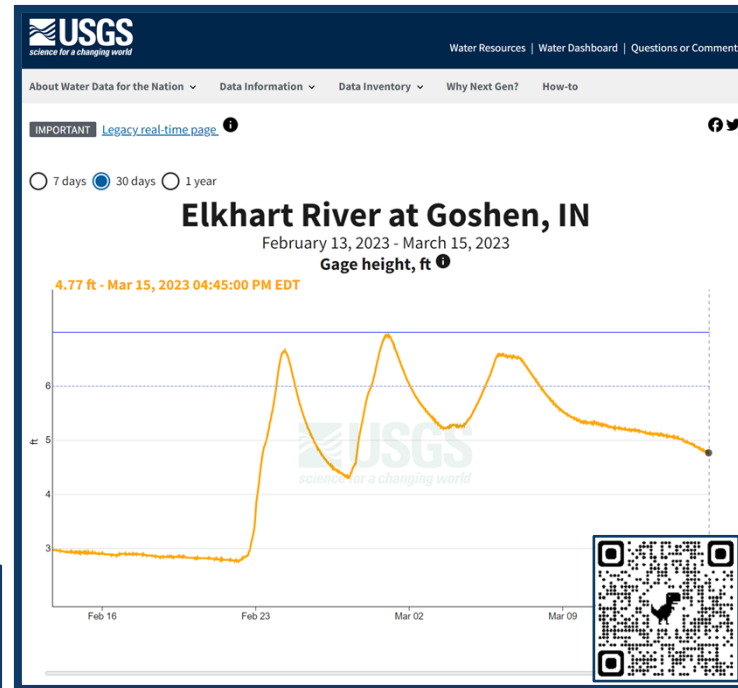
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Definition: a structure(s) used to control flooding including but not limited to impoundments and infiltration measures (within the floodplain).

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Non-Structural Examples:

- Floodplain Management (resilience plan)
- Watershed Management
 - Partnership with the local SWCD, NRCS, & FSA offices to install conservation practices, etc.
 - Partnerships with local watershed groups to encourage land use changes
- Property Buyouts
- Flood Forecasting
 - Monitoring Precipitation
 - Water Levels
 - CoCoRaHS



Flood Control Structures: Evaluate & Modify

MS4 GP Section 4.7(l)

Evaluate & Modify:

- Slow it Down, Spread it Out, Soak it In
- Plant native plants with deep roots
- Plant Trees
- Use of real-time sensors/smart technology to control the release of stormwater
- Don't "starve" a waterway of water for extended periods of time.



Annual Review and Assessment of Good Housekeeping Program

MS4 GP Section 4.7(i)

Questions to Ask:

- 1) How do you feel your program is going?
- 2) Did you successfully implement all of your program goals for the past year?
 - 1) If yes, what has gone well?
 - 2) If no, what can be improved or changed?
- 3) Have quarterly facility inspections been completed?
 - a) Have corrective actions been taken in a timely manner to address issues identified during facility inspections?
 - b) Are there reoccurring issues that need to be addressed differently?



Questions to Ask:

- 4) Do facility SWPPP's need to be updated?
- 5) Develop and implement a plan and schedule to address program deficiencies, improvements, and modifications to the program.
- 6) Is sufficient documentation of operations being collected to meet the requirements of the Annual Report document?
- 7) What information needs to be provided to public officials, department heads, employees, and the public?



Annual Review and Assessment of Good Housekeeping Program

MS4 GP Section 4.7(i)

Questions to Ask:

- 8) Do MS4 owned and operated facilities have the equipment and materials needed to properly store materials, chemicals, etc. and to clean up any spills or leaks?
 - a) If not determine who will be purchasing the items and where they will be stored or installed.
- 9) Are employees applying pesticides properly licensed and trained with the Office of Indiana State Chemist?



Questions to Ask:

- 10) Are in the field employees properly managing their work areas to prevent stormwater from coming into contact with pollutants (e.g., sediment, sand from crack sealing, concrete and concrete slurry/washout, grass clippings, etc.)?
- 11) Has sufficient training been provided to employees?
 - a) If yes, what has gone well?
 - b) If no, what can be improved or changed?

Annual Review and Assessment of Good Housekeeping Program

MS4 GP Section 4.7(i)

Questions to Ask:

- 12) Are storage areas being properly maintained?
 - a) Dumpsters
 - b) Sand, Gravel, Asphalt, Mulch, etc.
 - c) Salt, Brine, etc.
 - d) Fuel Tanks
 - e) Equipment/Vehicle Leaking




Questions to Ask:

- 13) Are stormwater treatment units and catch basins receiving proper maintenance?
- 14) Are streets being swept often enough?
- 15) Other questions that apply to your MS4.

ANNUAL REPORTING

MS4 GP Section 4.7(n)

- April 1, 2023, used the old Annual Report Form
- January 1, 2024, there will be a new annual report form to fill out and submit
- MSGP Section 4.7(n)(1) – Status of measurable goals, program requirements, compliance schedules, and timetables. If objectives are not being met for a specific element, explain the implementation problems encountered, and changes made to resolve problems identified.



Rule 13 - MS4 ANNUAL REPORT
 State Form 51278 (R6 / 7-12)
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

For questions regarding this form, contact:
 IDEM Office of Water Quality , Storm Water Program
 MS4 Coordinator
 100 North Senate Avenue, Room 1255
 MC 65-42
 Indianapolis, IN 46204-2251
 Telephone: (317) 234-1601 or
 (800) 451-6027, ext. 41601 (within Indiana)
 Web Access: <http://www.IN.gov/idem/4900>

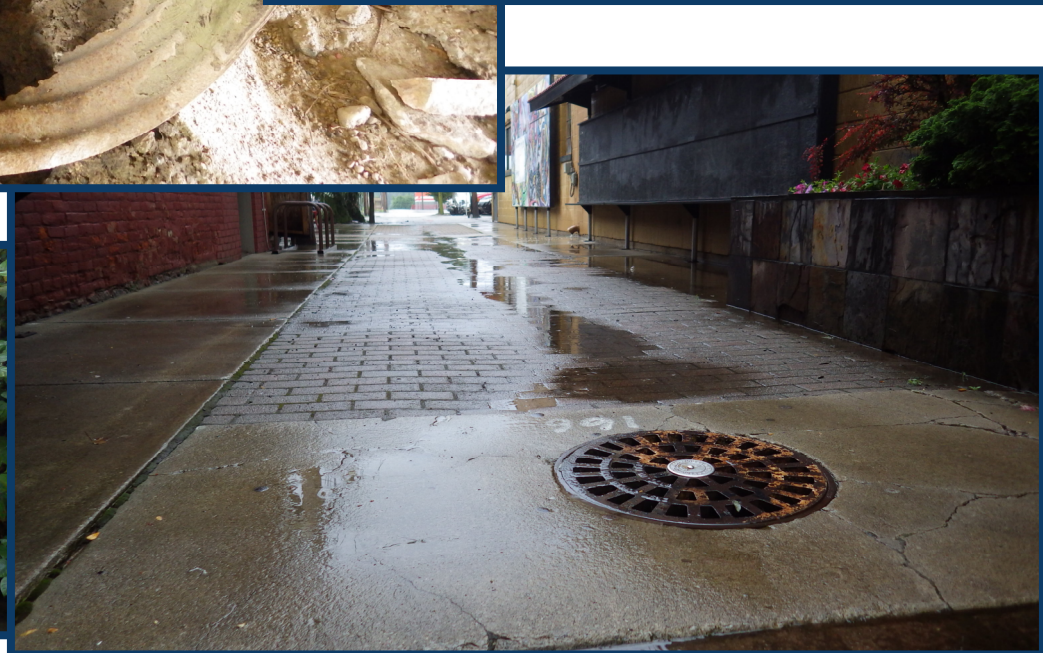
NOTE:

- Annual reports must be submitted to the Indiana Department of Environmental Management. **Failure to submit the annual report is considered noncompliance with your permit.**
- For the **first five** (5)-year permit term, this completed form must be submitted by 1 year from the SWQMP – Part C submittal date and, thereafter, 1 year from the previous report (i.e., in years two (2) through five (5) of permit coverage).
- In the **second and subsequent** five (5)-year permit terms, this completed form must be submitted in years two (2) and four (4) of permit coverage.
- **Please type or print in ink.**
- Please answer all questions thoroughly and return the form by the due date.
- Return this form and any required attachments to the IDEM Storm Water Program, MS4 Coordinator at the address listed in the box on the upper-right.

Five Year Permit Term	Reporting Year
<input checked="" type="checkbox"/> 1st Permit Term <input type="checkbox"/> Second and subsequent five (5) Year Permit Terms	<p>Permit Year <u>2022</u></p> <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 MS4s in their first permit term must submit reports annually. MS4s that are in subsequent permit terms must submit in years 2 and 4 of the permit term.

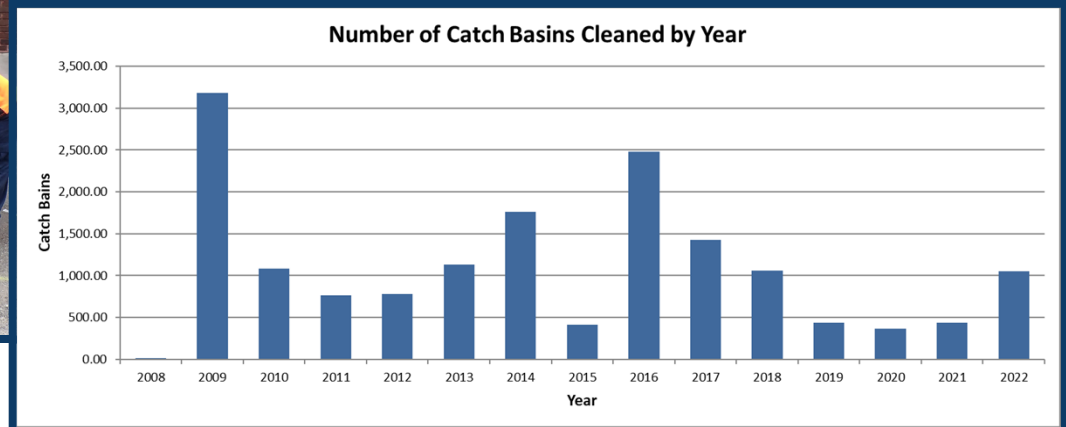
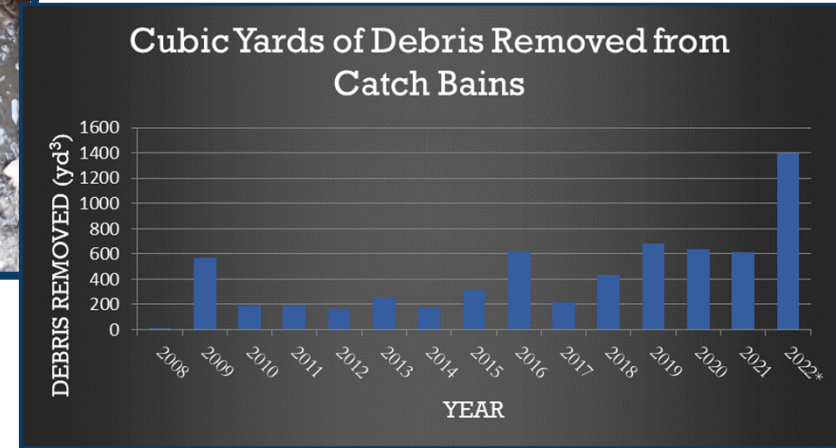
ANNUAL REPORTING – OUTFALLS & CONVEYANCES REPAIRED

- **MSGP Section 4.7(n)(2) – Number and location of stormwater outfalls and conveyance systems that have been repaired.**
- **‘Conveyance’ is defined as “any structural process for transferring stormwater between at least two (2) points. The term includes pipes, ditches, swales, curbs, gutters, catch basins, channels, storm drains, and roadways.**



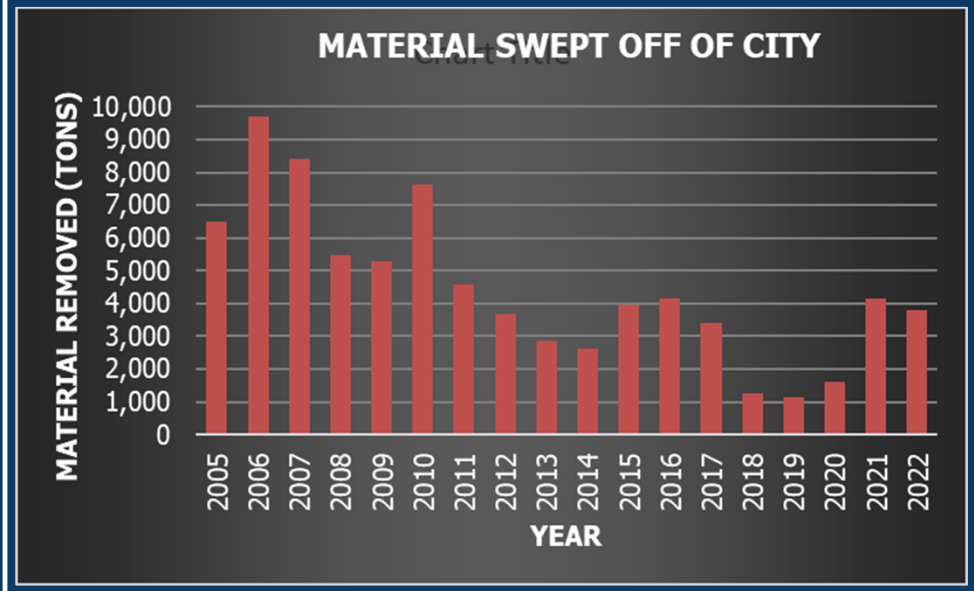
ANNUAL REPORTING – STORM SEWER CLEANING

- **MSGP Section 4.7(n)(3) – Estimated amount of material collected from stormwater drainage system cleaning including the disposal methods utilized.**



ANNUAL REPORTING – STREET SWEEPING

- **MSGP Section 4.7(n)(4) –** Estimated amount of material collected from street sweeping, if applicable, including the disposal methods utilized.



ANNUAL REPORTING – DE-ICING MATERIAL STORAGE

- **MSGP Section 4.7(n)(5) – Number and location of de-icing salt and sand storage areas and methods used to minimize stormwater exposure.**



THANK YOU & QUESTIONS



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Goshen 
Stormwater

