



Stormwater Manual & City County Code Revisions

Question and Answer Sessions

May 2022

Agenda



- **Background**
- **City County Code Revisions Overview**
- **Stormwater Manual Revisions Overview**
- **Stormwater Manual Revisions of Note**
- **Questions**



Background

- **Requirement of the USEPA Administrative Order on Consent (2017)**
 - Construction, post-construction, and illicit discharge program oversight improvements
- **The City of Indianapolis municipal separate storm sewer system (MS4) is regulated by the Indiana Department of Environmental Management through a stormwater permit**



Background

- **City County Code Changes effective April 6, 2022**
- **Stormwater Design and Construction Specifications Manual effective May 12, 2022**
- **Documents can be found on <https://www.indy.gov/activity/public-works-specifications-and-manuals>**

City County Code Overview



- **Construction Program**

- Enhances requirements for erosion and sediment control during construction as required by the City stormwater permit
- Improves enforcement of drainage permits
- Clarifies when drainage permits are required

City County Code Overview



- **Post-Construction BMP Improvements**
 - Post-Construction Best Management Practices (BMPs)
 - Examples: Ponds, bioswales, hydrodynamic separators
 - Adds water quantity BMP inspection requirements
 - Currently water quality BMPs only
 - Adds owner inspection and maintenance self-certification program

City County Code Overview



- **Illicit Discharge Elimination**

- Illicit discharges - discharges not allowed by the City stormwater permit
- Improves enforcement capabilities
 - Disallows such discharges to waterways and storm sewers
 - Adds definition for allowable discharges to align with City stormwater permit

Stormwater Manual Overview



- **Technical Clarifications and Reorganization**
- **Align with Industry Standards**
- **References to INDOT (details, tables, etc.)**
- **Incorporate 2011 Memo of Clarification**
- **Last comprehensive standards update 2011**
- **Last minor standards update 2019**

Stormwater Manual Overview



- **Construction oversight**

- Increase stormwater inspections on private developments from initial land disturbance until permit closeout (currently only during stormwater infrastructure installation)
 - Improve erosion and sediment control oversight
 - Improve permit closeout, including digital submittal

Stormwater Manual Overview



- **Post-Construction Improvements**

- Best Management Practices (BMPs)

- Examples: Ponds, bioswales, hydrodynamic separators

- Eliminates catch basin inserts as BMPs

- Poor performance and high maintenance

- Adds water quantity inspection requirements

- Currently water quality only



SW Manual Revisions of Note



- **Redevelopment**
 - Definition revised to include alteration of existing development that currently does not meet standards
- ***Current***
 - *When properties redevelop they are subject to the same standards applied to a new development project.*

SW Manual Revisions of Note



- ***Update***

- *Three (3) scenarios that accommodate specific variances currently issued, generally focused on detention requirements*

- 1. Regional Center = match existing*

- 2. Alterations less than 0.5 half acre = match existing*

- 3. Alterations greater than 0.5 acres = mitigate 2X disturbed area, current standard*

SW Manual Revisions of Note



- **Chapter 200 – Hydrology**

- Limitations on the use of rational method and where hydrographs are required
- Rainfall references NOAA Atlas 14
- NRCS method is baseline for hydrographs, other methods must be approved prior to use

SW Manual Revisions of Note



- **Section 301.02 Downstream Analysis**
 - Required unless existing downstream conveyance will not accept runoff
 - Minimum requirement – First downstream conveyance (pipe, channel, pond)
 - Difficult to strictly define limits. Ultimately the engineer must determine what is appropriate and address this in the drainage report

SW Manual Revisions of Note



- **Section 302 Detention**

- Negligible change to release rates
- Modified Rational Method not allowed. All detention must be designed by routing runoff hydrographs with modeling software
- Design components (beyond hydraulic calcs) from Chapters 400 and 500 were moved to Chapter 300

IDEM CSGP



- **IDEM Construction Stormwater General Permit (formerly Rule 5)**
- **Effective December 18, 2021**
- **Not yet fully incorporated into the Manual**
- **Will incorporate by end of 2023**
- **Projects subject to CSGP must comply with CSGP now**

Questions

