



# Ordinance 12-2019

## *Littleton Storm Drainage Ordinance* Revision

Public Hearing Presentation

April 16, 2019

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# Policy Question

Does City Council support adoption of Ordinance 12-2019, revising the Littleton Storm Drainage Ordinance Title 7, Chapter 7, and Chapter 8?

# Outline

- Reasons for update to storm drainage ordinance
- MS4 Permit requirements
- Table of changes to the code
- Summary of changes to storm design criteria manual
- Q&A

# Why update Title 7, Chapter 7?

- ✓ State MS4 permit requirements
- ✓ Update and clean up language
- ✓ Better organize content; consistency
- ✓ Strengthen code and requirements
- ✓ Better protect community from flooding and poor surface water quality
- ✓ Consistency with other metro area and surrounding jurisdictions



# What is the “MS4 permit”?

- MS4= Municipal Separate Storm Sewer System= a system of stormwater conveyances such as pipes, inlets, ditches, etc., owned by the city
- Mandated by Federal Law (Clean Water Act), regulated by State of Colorado (CDPHE/WQCD)
- Permit was issued in 2016, given a grace period to implement certain requirements
- Regulatory Mechanism changes are due **July 1**

# MS4 Permit requirements

The MS4 Permit requires certain programs aimed to protect/improve water quality:

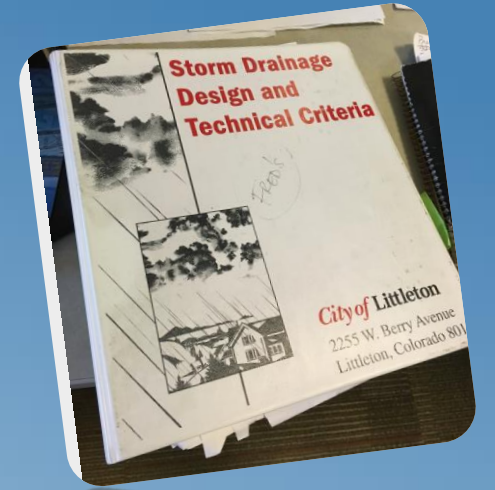
1. Public Participation
2. Public Outreach/Education
- **3. Illicit Discharge Detention and Elimination**
- **4. During-construction stormwater controls**
- **5. Post-construction water quality measures at developments**
6. Municipal Operations/good housekeeping

# “Regulatory Mechanism”

In Littleton, this consists of:

1. Storm drainage ordinance (Title 7, Chapter 7)
2. Storm Drainage Design and Criteria Manual (first edition 1986, last update was in 2012)

\*Some regulatory items are more appropriate in the ordinance, and others in the design criteria manual





# Title 7, Chapter 7 Changes

	Proposed Change	Reason
1	Add sections for: -Definitions -Abbreviations -Purpose, Objective and Scope	Consistency with other titles and chapters, add clarity for terms used in sections, add and clarify statement of purpose of the chapter. Definitions are same as the state MS4 permit definitions.
2	Delete 7-7-6	Not applicable to this section, belongs in 10-6 (floodplain)
3	Delete 7-7-7	Not appropriate for ordinance, best to have technical design content in storm design criteria manual
4	Delete 7-7-8	Outdated language, applicable content moved to other sections for clarity and to consolidate all facility maintenance language to one section
5	Modify 7-7-10	Reworded and added more robust language about requirement for maintenance and notification of any changes to facilities



# Title 7, Chapter 7 Changes

6	Delete 7-7-11	Most of the language is now obsolete because the city performs routine inspections of facilities and does not rely upon property owners to self-report inspections. However, city can still require a self-report and that language moved to the new section.
7	Modify 7-7-12	Revised language to be more robust and enforceable and meet MS4 permit requirements for site access to enforce this chapter. Clearly outline city's enforcement procedure and steps, as required by MS4 permit.
8	Change 7-7-13 to 7-7-8 and modify language	Reorganization of sections to match order of items in new 7-7-7 (Authority of Director), add MS4 permit to clarify prohibition of illicit discharges and required permit language for types of allowable discharges, process for potential discharge evaluations, and responsibility and notice. Added language for illicit connections and potential illicit discharge activities for consistency with surrounding jurisdictions and to be more robust.
9	Add 7-7-13	Provide a mechanism for appeals to decisions of Director
10	Add 7-7-14	Provide severability language

# Title 7, Chapter 8 Changes

- Changes to Chapter 7 cross-references only
- More updates may come at a later time

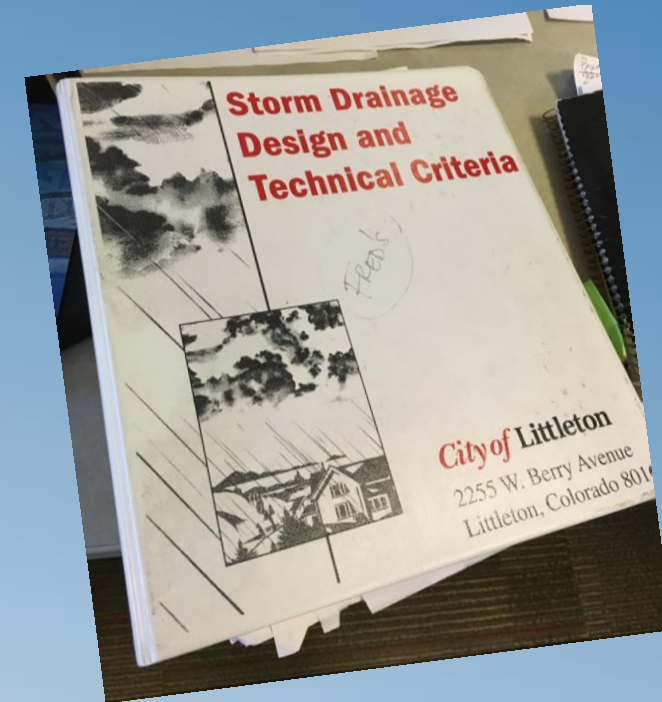


# The other part of the regulatory mechanism...

Updates to the city's drainage design criteria manual

Planned 2019 revisions to chapters that are associated with stormwater quality:

- **3 (Policy)**
- **13 (temporary construction)**
- **14 (detention)**
- **15 (permanent water quality)**
- Minor changes to other chapters where updates needed



# Criteria manual changes

- Include detailed design requirements from MS4 permit
- Consistency with UDFCD updates and criteria in surrounding jurisdictions
- Changes to better address the city's development patterns
- **More robust and clear triggers that require detention and/or permanent water quality**
  - 10,000 SF of CUMULATIVE impervious area on a site = detention and permanent water quality
  - 5000 SF of disturbance = grading permit and stormwater management plans

# Staff Recommendation

To adopt the proposed changes to the Littleton Storm Drainage Ordinance in order to:

- Better protect stormwater quality in the city's creeks, lakes, and the South Platte River
- Remain in compliance with the MS4 permit

# Action Requested

Does city council support adoption of Ordinance 12-2019, revising the Littleton Storm Drainage Ordinance, Title 7, Chapter 7 and parts of Chapter 8?

Questions?



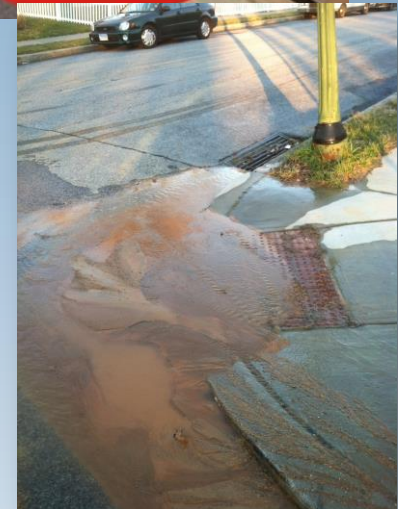
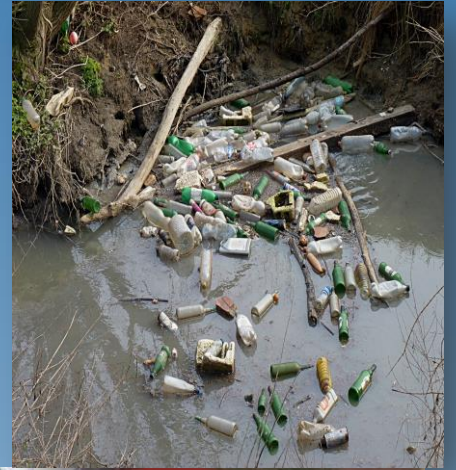
# Illicit Discharge Detention and Elimination

Illicit discharges = illegal dumping to the storm drainage system.

Examples: motor oil, excessive dirt, leaves, carpet cleaning wastewater, commercial car wash water, garbage

Changes needed to the ordinance include:

- Update list of allowable discharges (those not considered illicit by the state)
- Stronger enforcement language for violations
- Legal access to properties to inspect and enforce



# Construction temporary stormwater BMPs (erosion and sediment control)

Examples: silt fence, inlet curb socks, straw logs

Changes needed to the ordinance include:

- Clearer requirements for installation and maintenance
- Stronger enforcement language for violations
- Legal access to construction sites to inspect and enforce violations, and perform work if needed





# Permanent water quality control measures

Constructed as part of a new development or a re-development to treat storm water runoff

Examples: ponds, raingardens, underground vaults, permeable pavements

- Changes needed to the ordinance include:
  - Clearer requirements for installation, and ongoing maintenance by private owners
  - Stronger enforcement language for violations for alterations or failure to maintain
  - Legal access to private property to inspect and enforce violations, and perform maintenance work if needed



# What is “storm drainage” or “stormwater”?

- **Stormwater** = Rain water and snow melt that enters the storm sewer and leads to the creeks and rivers > untreated
- As opposed to...

*Potable water* from tap (delivered by Denver Water Department)

*Wastewater* that goes down interior drains and into sanitary sewer pipes to treatment plant) > treated



# Stormwater Runoff

