# 2021-2026 Stormwater Capital Plan and 20-year Plan Strategy

Clark County Council Work Session

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October 7, 2020 9:00 AM



# Local Framework and Regulatory Requirements

#### **Primary Policy and Goals**

#### Policy:

Meet Phase I MunicipalStormwater Permit requirements

#### Goals:

- Protect and enhance streams and wetlands
- Minimize stormwater impacts to receiving waters
- Maximize public benefits of county-owned lands

### Regulatory Requirements

#### Phase 1 Municipal Stormwater Permit:

- Structural stormwater controls prevent
   or reduce impacts to waters of state
- Stormwater Management Planning
- Maintenance and Operations

#### Underground Injection Control Program:

County must address any drywells that pose a threat to groundwater

#### **Growth Management Act:**

Capital Facilities Plan includes stormwater

# 20-year Plan Strategy





#### Overview

#### **Team**

- Seven county staff Clean Water, Design, Operations, Community Planning
- ➤ Two Clean Water Commissioners public input; professional expertise

#### **Principles (six-year principles plus...)**

- Support sound asset management
- Identify leveraging and collaborative opportunities
- Achieve measurable water quality improvements and protection
- Address deficiencies in drainage systems to reduce flooding

#### 6-year vs. 20-year

- > 20-year = long-term, proactive, planning and prioritization; the "menu"
- > Six-year = short-term needs and requirements; the "meal"



## Strategies and Considerations

#### **Strategic Investment**

maximize positive impacts by investing in the most effective projects and programs

#### **Sustainability**

focus on holistic watershed health rather than "projects of opportunity"

#### **Adaptability**

develop a broad range of projects and programs that can adapt to changing needs and regulatory environment

#### **Leveraging and Partnerships**

continue and expand internal and external partnerships to leverage stormwater dollars for the greatest benefit

#### Population Growth/Climate/Environmental Justice

- incorporate long-term projections into project prioritization
- address state objectives to assist overburdened communities



## 20-year Project Types

#### Same as current six-year plan

- ➤ Capital Repairs >\$25,000
- Water Quality and Hydrology Retrofits
- Underground Injection Control (UIC)
- Stream Stabilization, Habitat, and Fish Barrier Removal
- Reforestation
- Property Acquisition for Stormwater Benefit
- Sweeping Program

#### **Need for New Programs**

- ➤ Repair of Aging Infrastructure
- Conveyance System Inspection and Repair
- Drainage Improvements/Flood Reduction
- Enhanced Sweeping



# Opportunities/Needs

# **Conveyance System Inspection and Maintenance**

- ➤ 400 miles of stormwater pipe dating to 1952
- ➤ No current inspection program

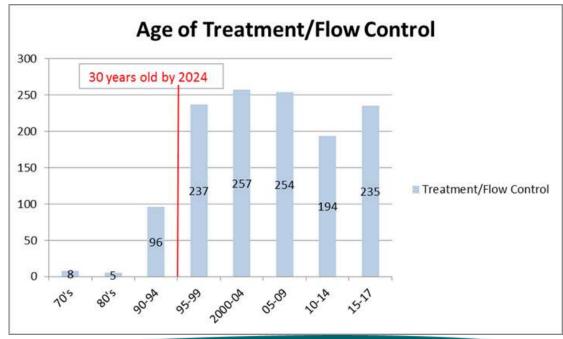
▶ \$750,000 in emergency repairs during 2019-2020

#### Need:

- ➤ Invest in pipe inspection
- > Prioritize proactive repairs
- Include in 20-year and 6year capital plans

#### **Repair of Aging Infrastructure**

- ➤ Within 20 years over 800 treatment and flow control facilities will be at least 30 years old
- ➤ High-cost repairs or replacement will increase





## **Next Steps**

#### Six-year Plan

- Incorporate Feedback from Clark County Council
- Adoption on November 3, 2020

#### 20-year Plan

- Incorporate Feedback from Clark County Council
- Re-convene planning team in 2021
  - Program development, prioritization, project matrix
- Council adoption Q3 2021



20-year Stormwater Capital Opportunities Summary			
DESCRIPTION	NEED/OPPORTUNITY	FUNDING	
ASSET MANAGEMENT			
CAPITAL REPAIRS >\$25,000/TREATMENT & FLOW CONTROL REPLACEMENT			
Repair required by Permit	Twelve (12) repairs not currently programmed	Within current revenues	
Repair required by Permit when fail, or systematically replace	850 Treatment and Flow Control facilities aged 30-60 years by 2040	No funding identified	
CONVEYANCE SYSTEM INSPECT AND REPAIR			
400 miles existing piped stormwater conveyance Aged to 1952	Current complaint or emergency only	Current budget \$50,000/year	
No existing inspection or replacement	Inspection/Repair Program needed - \$750,000 capital investment	Fund balance held for initial capital outlay	
	- 2-3 FTE staff investment	No funding identified for repair/replace	
RETROFIT PROJECTS			
WATER QUALITY and HYDROLOGY			
Add or enhance water quality or flow control practices in areas lacking or underserved	At least fifty (50) identified not currently programmed	Exceeds projected revenues	
LARGE-SCALE CIP LEVERAGING			
Apply Clean Water dollars to expand/enhance treatment or flow control for major CIP road projects	At least four (4+) current potential; high-dollar projects	No funding identified	



20-year Stormwater Capital Opportunities Summary			
DESCRIPTION	NEED/OPPORTUNITY	FUNDING	
UNDERGROUND INJECTION CONTROL (UIC)			
Retrofit or Decommission required under UIC regulations for all High-Threat drywells	Sixteen to eighteen (16-18) wells not currently programmed	Within current revenues	
DRAINAGE/FLOODING IMPROVEMENTS			
Install drainage infrastructure to alleviate flooding in areas that have no existing infrastructure	Nine (9) identified issues; high dollar projects	No funding identified	
STREAM HABITAT RESTORATION			
Improve stream habitat and function	Three (3) priority projects not currently programmed; 9 additional identified	Grant-dependent; match within current revenues	
REFORESTATION			
Enhance county properties with native vegetation for stormwater and environmental benefit	Current target to plant an average of six (6) acres annually	Within current revenues	
PROPERTY ACQUISITION FOR STORMWATER BENEFIT			
Leverage Clean Water funds to assist Legacy Lands purchase properties from Conservation Areas Acquisition Plan	Opportunities identified through current and 20-year acquisition plans	Within current revenues	
STREET SWEEPING			
Utilize Clean Water funds to provide arterial sweeping Provide enhanced sweeping program to maximize	Clean Water currently funds ~75% of annual arterial sweeping	Within current revenues	
water quality benefit and reduce other maintenance costs	Enhanced sweeping program -\$250,000 per sweeper capital outlay -1 FTE staff investment per sweeper	No funding identified	



# Thank You!

# **Comments and Questions**

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