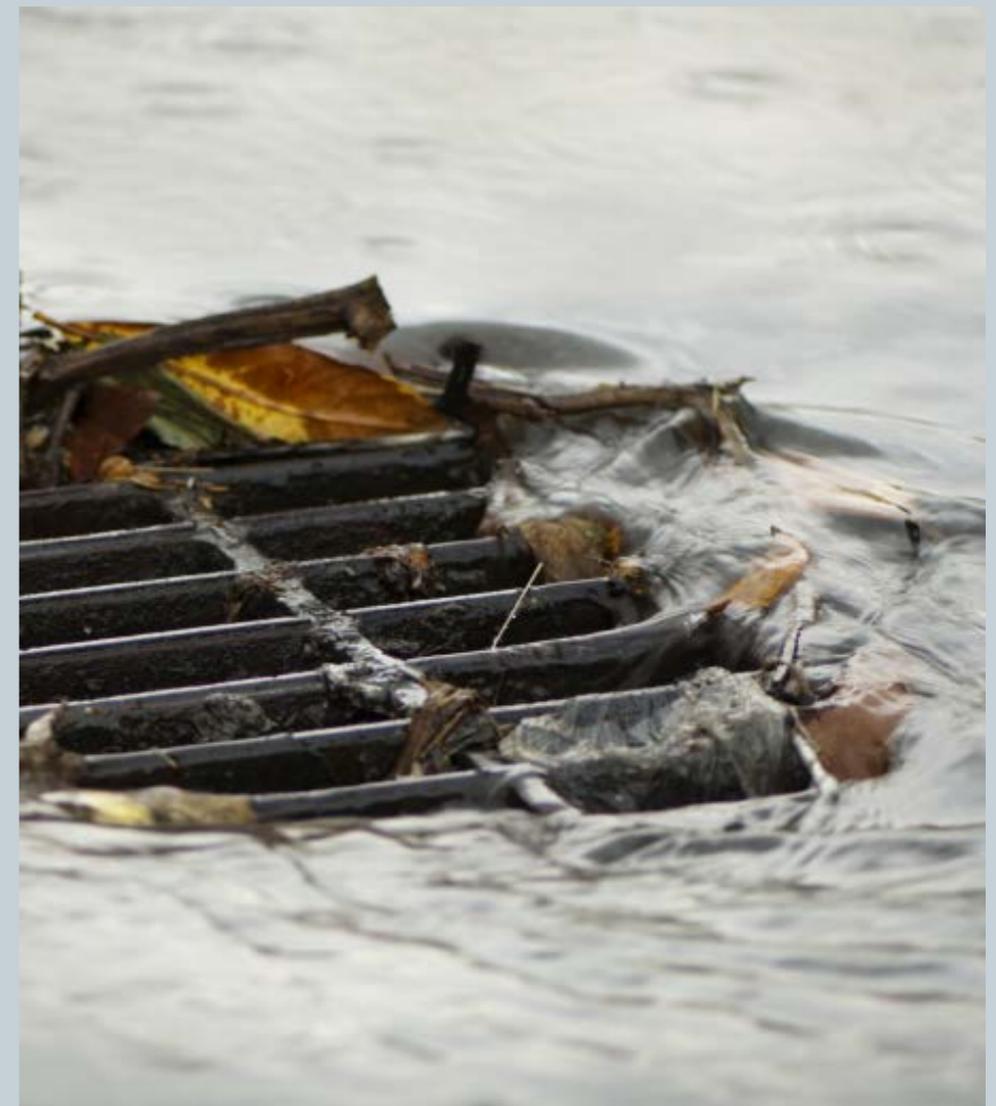


# Clark County Clean Water Commission 2015

**CLEAN WATER COMMISSION**  
**1300 FRANKLIN ST. 6<sup>TH</sup> FLOOR**  
**Public Service Center**  
**1<sup>st</sup> Wednesday every other month**  
**6:30 - 8:30 P.M.**  
**Meetings are open to the public**



# What is stormwater?



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**Stormwater runoff:** Water from rain or melting snow that “runs off” across the land instead of seeping into the ground. This runoff usually flows into the nearest stream, creek, river, or lake. The runoff is not treated unless it goes through a facility with built in treatment features.

## **Fact: Stormwater is the #1 threat to water quality in urban areas**

- **Impervious surfaces increase amount of stormwater runoff**
- **Runoff causes erosion of bare dirt increasing sediment to waterways**
- **Pollution in runoff from cars, yards, household, and pet waste impacts water quality**



# Stormwater example ...



3



2015

**Increased impervious surfaces (roads, houses, buildings, sidewalks, etc.) limits where the stormwater runoff can soak into the ground**

# Why does it matter, why should we care?



4

**Clark County is home to eight major watersheds feeding into the Columbia River**

- **Reducing pollution protects water quality**
- **Managing stormwater runoff reduces volumes that could erode river channels**
- **Protecting our quality of life for recreational uses such as swimming and fishing**
- **Protecting wildlife habitat for the diverse species that live in and near our rivers**



# Who regulates stormwater?



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## Primary Regulatory Authority

State of WA  
Dept. of Ecology

WA Water Pollution Control Law  
RCW Chapter 90.48

United States  
Env. Protection Agency

Federal Water Pollution Control Act  
USC Title 33, Section 1251

## Primary CC Authority

BOCC

County  
Manager

CC Code 13.26A, 40.386 – plus  
other related planning codes

## Primary Responsible County Departments

Environmental  
Services

Clark County  
Departments

Public Works  
Community Development  
Community Planning  
Prosecuting Attorney

## Stakeholders

Technical Advisory  
Stakeholder Advisory  
Development Engineering  
Advisory Board

Other  
municipal  
NPDES  
permittees

General  
Public

# Environmental Services programs:



6

- **Inventory and Mapping**
- **Stormwater Capital Construction**
- **Maintenance and Operations**
- **Assessment and Monitoring**
- **Technical Assistance and Enforcement**
- **Education and Outreach**
- **Fee Administration**

Identifies and maps the location of all stormwater features in GIS



# Environmental Services programs:



7

**Builds new facilities to manage runoff for quantity and quality or retrofits old facilities**

- **Inventory and Mapping**
- **Stormwater Capital Construction**
- **Maintenance and Operations**
- **Assessment and Monitoring**
- **Technical Assistance and Enforcement**
- **Education and Outreach**
- **Fee Administration**



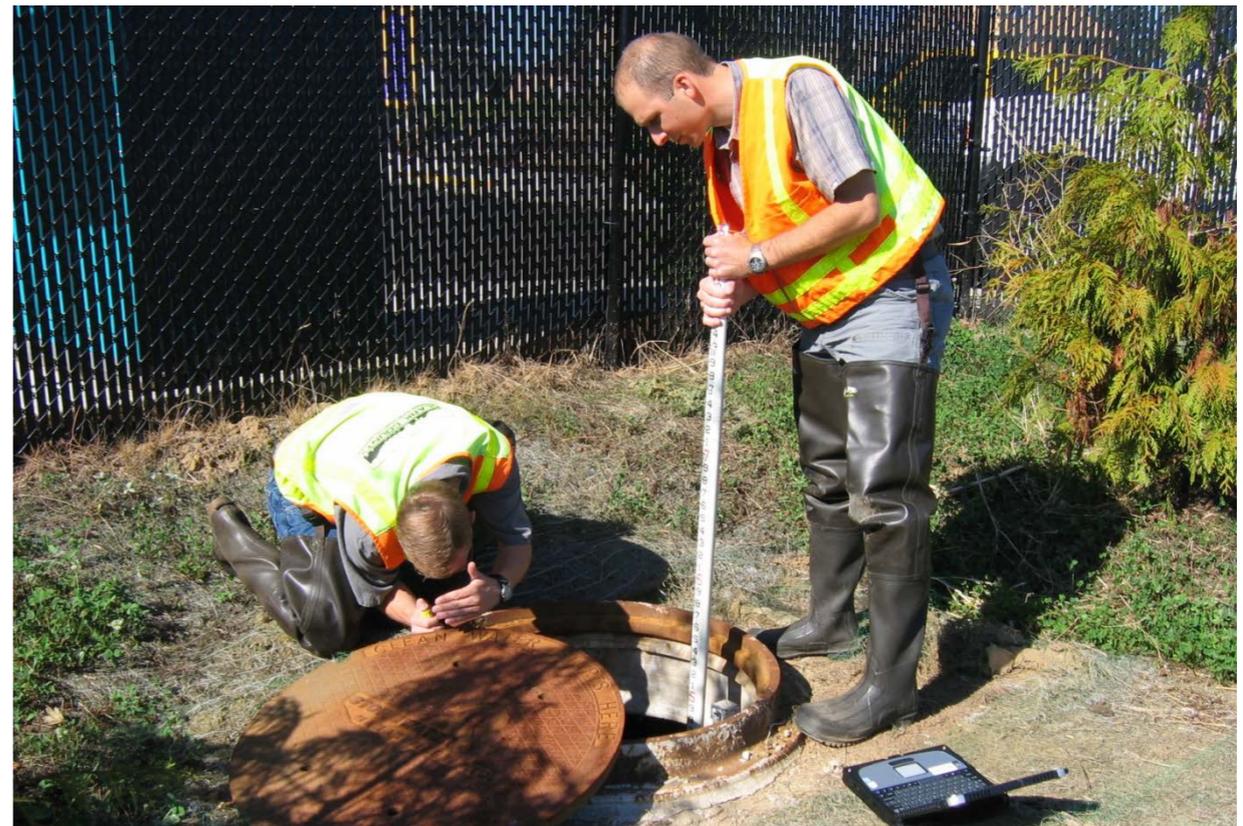
# Environmental Services programs:



8

**County staff inspect, repair and maintain county owned facilities as well as inspect private facilities and work with owners for on-going maintenance.**

- **Inventory and Mapping**
- **Stormwater Capital Construction**
- **Maintenance and Operations**
- **Assessment and Monitoring**
- **Technical Assistance and Enforcement**
- **Education and Outreach**
- **Fee Administration**



**Clark County stormwater system: over 1,000 county owned facilities, including 450 detention/retention ponds; 400 miles of stormwater pipes; 11,000+ catch basins; 2000+ drywells**

# Environmental Services programs:



9

- **Inventory and Mapping**
- **Stormwater Capital Construction**
- **Maintenance and Operations**
- **Assessment and Monitoring**
- **Technical Assistance and Enforcement**
- **Education and Outreach**
- **Fee Administration**

**Historical data collection for stream health monitoring. Current monitoring for the Whipple Creek Watershed-scale Stormwater Planning project, stormwater characterization, and illegal discharges.**



# Environmental Services programs:



10

- Inventory and Mapping
- Stormwater Capital Construction
- Maintenance and Operations
- Assessment and Monitoring
- **Technical Assistance and Enforcement**
- Education and Outreach
- Fee Administration



**County staff visit businesses to validate Best Management Practices that minimize source pollution to storm drains. Homeowner associations also receive information to maintain facilities. When pollution events occur, enforcement may be necessary beyond education.**

# Environmental Services programs:



11

- Inventory and Mapping
- Stormwater Capital Construction
- Maintenance and Operations
- Assessment and Monitoring
- Technical Assistance and Enforcement
- Education and Outreach
- Fee Administration



Per the permit requirements, staff provide information and materials to raise awareness of stormwater issues as well as affect behavior to reduce pollution. Outreach efforts includes general public, businesses, citizens, homeowner's associations, and partner agencies.

# Environmental Services programs:



12

- **Inventory and Mapping**
- **Stormwater Capital Construction**
- **Maintenance and Operations**
- **Assessment and Monitoring**
- **Technical Assistance and Enforcement**
- **Education and Outreach**
- **Fee Administration**

## Examples of Educational Messaging:

- **Canines for Clean Water** – pick up pet waste
- **Business source control** – don't dump or wash materials down storm drains, repair dumpsters
- **Lawn care** – reduce chemical use and sweep (don't rinse down a drain)
- **Green Neighbors** – information that applies to residential homes
- **Schools** – Student watershed monitoring network partnership with the City of Vancouver
- **Spill Kit Program** – provide information on how to clean up spills to prevent pollution
- **Small Acreage Program** – large lot properties can manage manure and other runoff risks

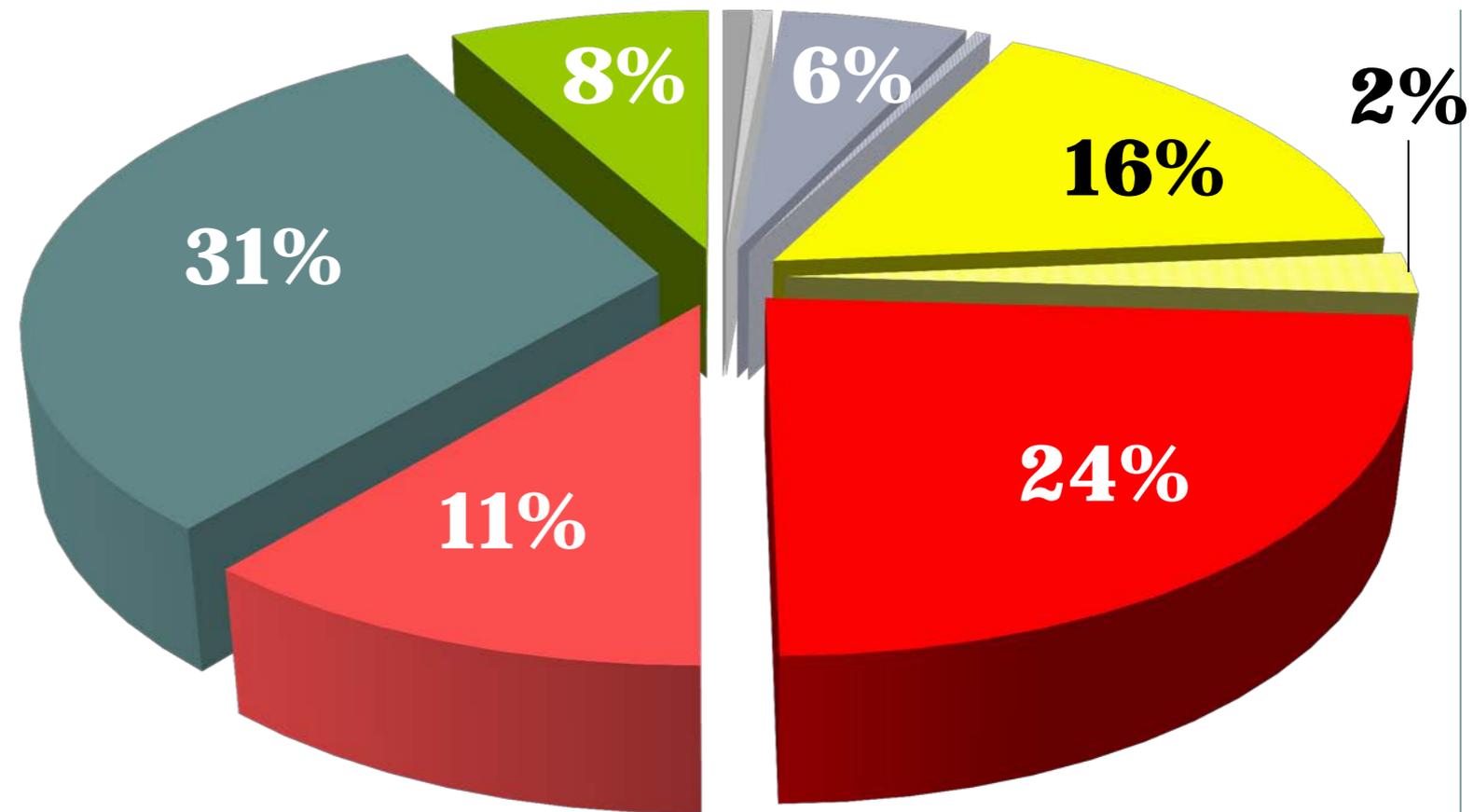
# Environmental Services programs:



13

- **Inventory and Mapping**
- **Stormwater Capital Construction**
- **Maintenance and Operations**
- **Assessment and Monitoring**
- **Technical Assistance and Enforcement**
- **Education and Outreach**
- **Fee Administration**

- **Urban WSDOT**
- **Urban Multi Family**
- **Urban Business**
- **Urban County Roads**
- **Urban SF Residential**
- **Rural WSDOT**
- **Rural Multi Family**
- **Rural Business**
- **Rural County Roads**
- **Rural SF Residential**



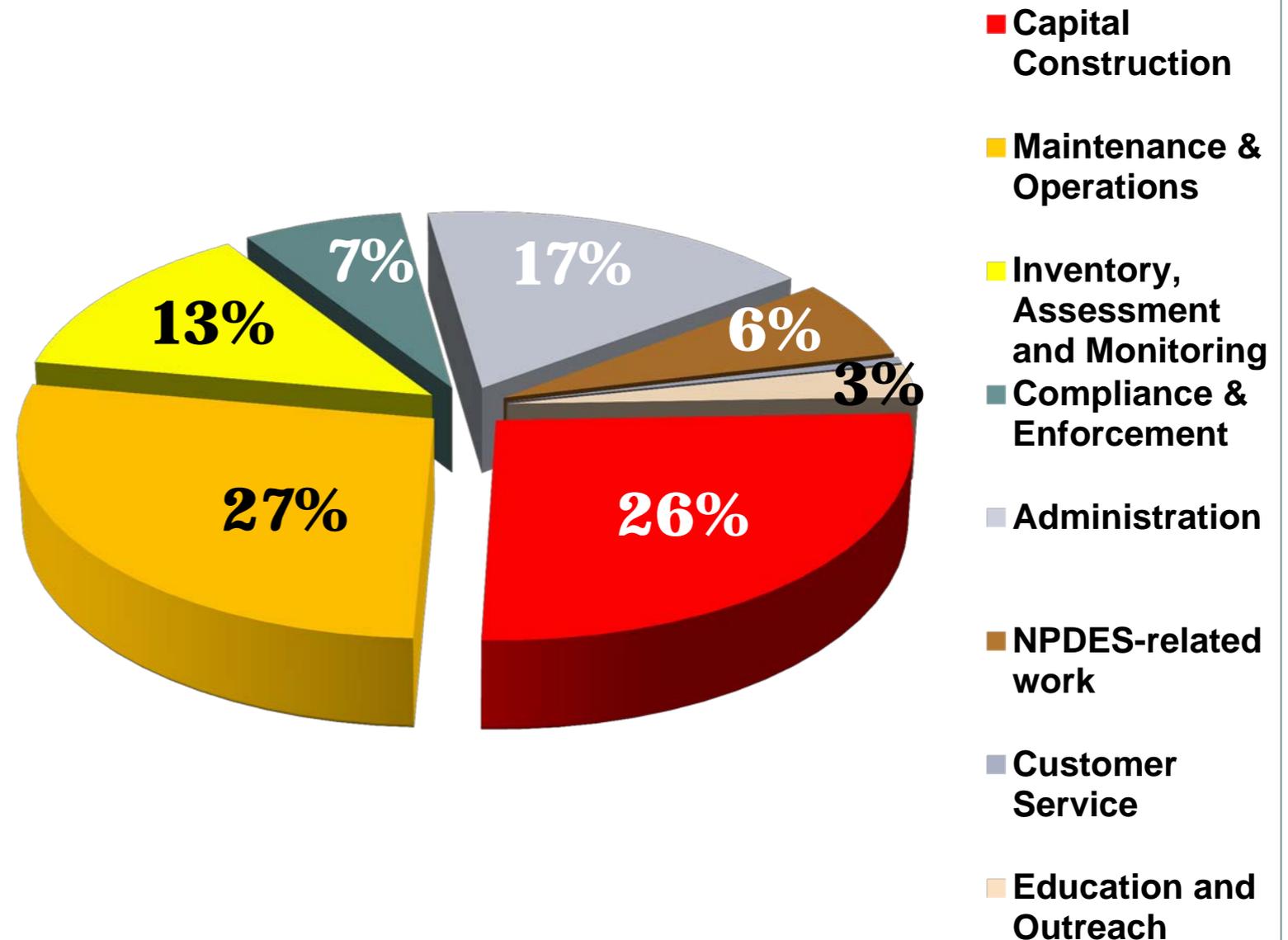
Where the monies come from - DES manages the Clean Water Fee program for properties with impact to stormwater runoff



# Environmental Services programs:

14

- Inventory and Mapping
- Stormwater Capital Construction
- Maintenance and Operations
- Assessment and Monitoring
- Technical Assistance and Enforcement
- Education and Outreach
- Fee Administration



Where the monies go to manage the program – DES utilizes approximately \$13,430,000 for the 2015/2016 budget cycle

# What are the changes for 2016?



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## **Updates to the Clark County Stormwater Manual and related municipal code:**

- **New stormwater manual replaces 2009 version with 4 Books – Administration, BMP Design, Source Control and Maintenance/Operations**
- **Updated codes – edits to CCC 13.26A Water Quality and repeal of CCC 40.385 Stormwater and Erosion Control – Replace with 40.386**
- **Updates include the requirement to use Low Impact Development where feasible, including bioretention, rain gardens, infiltration, etc.**

*The goal of LID is to mimic the natural landscape – let stormwater infiltrate into the ground as close to the source as possible and minimize pollution of that runoff.*

# Do you need more information?



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## Contact the Clean Water Division at:

1300 Franklin St.  
Vancouver, WA 98666-9810  
(360) 397-2121  
[www.clark.wa.gov/  
stormwater](http://www.clark.wa.gov/stormwater)

**Don Benton**  
Director

**Dean Boening**  
Clean Water Division Manager

