

Paying for Stormwater Management:

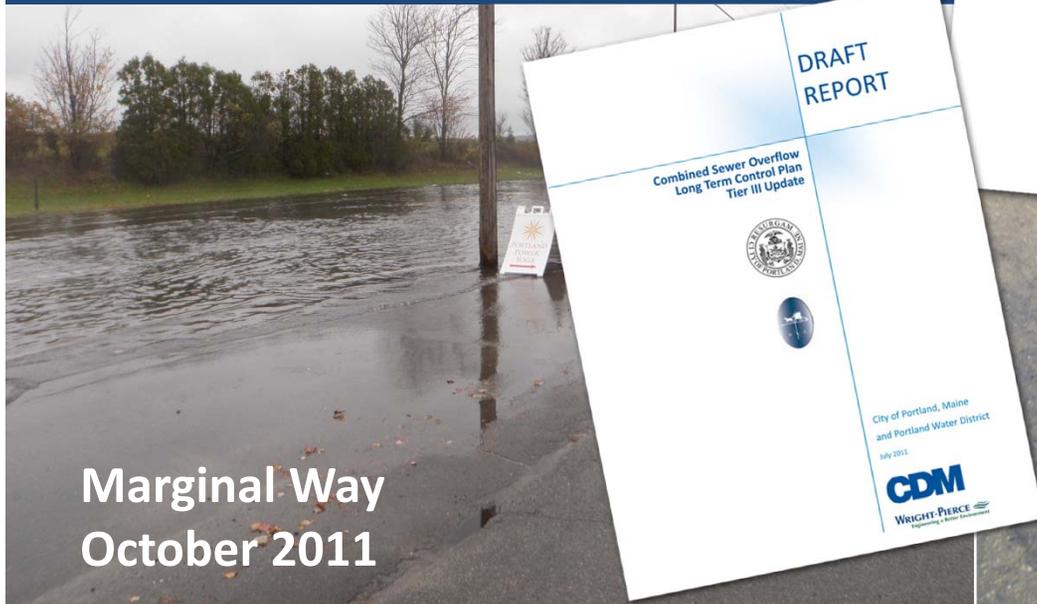


Stormwater Service
Charge Proposal
OCTOBER 9, 2014



Clean Water – Clean Growth

- **Healthier Environment** – We are reducing polluted runoff and sewer spills into Casco Bay, for a healthy environment.
- **A Fair Billing System** – The current sewer charge will change to include a stormwater service charge that is more fair to residents and businesses
- **An Accountable Investment** – The stormwater service charge funds will only support stormwater system improvements and maintenance.



Marginal Way
October 2011



Munjoy Street Sewer
Collapse February 2012

Portland's Wastewater System



Wastewater Facts

94 miles of sewage pipe



141 miles of stormwater pipe

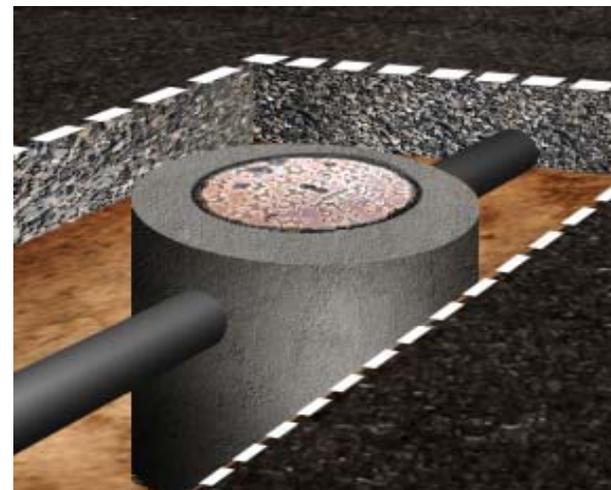


119 miles of combined pipe



Nearly 15,000 additional structures move sewage and stormwater through the system.

- Portland's sewer system dates back to 1870
- East End Treatment Plant opened in 1979
- In 1983 City establishes dedicated Sewer Charges
- During wet weather, raw sewage can overflow into Casco Bay making swimmers sick and contaminate seafood.
- There is currently no treatment system for polluted stormwater runoff from the land.



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Our Obligations

Clean Water Act

- National Pollutant Discharge Elimination System (NPDES).
 - EPA Combined Sewer Overflow Control Policy
 - EPA Sanitary Sewer Collection System and Dry Weather Overflow Policy
- Maine Pollution Discharge Elimination System (MEPDES)
 - Municipal Separated Storm Sewer Systems
 - Residual Designation Authority (Long Creek)

Maine Law

- Maine DEP, Chapter 570, Combined Sewer Overflow Abatement rules
- Combined Sewer Overflow Long Term Control Plan
- Urban Impaired Streams (4 in Portland)
- Provision for waiver where local program addresses stormwater

Challenges Overcome



- 1991 – City of Portland and Portland Water District enter into Consent agreement with Maine DEP to address overflows
- Since then over 100 projects completed
- 11 of 43 overflows completely eliminated
- Since 1993, reduced overflow volumes by 42%
- Separated over 20 miles of pipe.
- Cost \$100 Million

Where Will Future Investments be Made?

- Cost est. \$170,000,000
- 15 Million Gallons of storage to reduce combined sewer overflows
- Improvements at sewer treatment plant to improve performance
- New stormwater and sewage collection lines to reduce back-ups
- Stormwater system improvements



How Do We Pay Now?

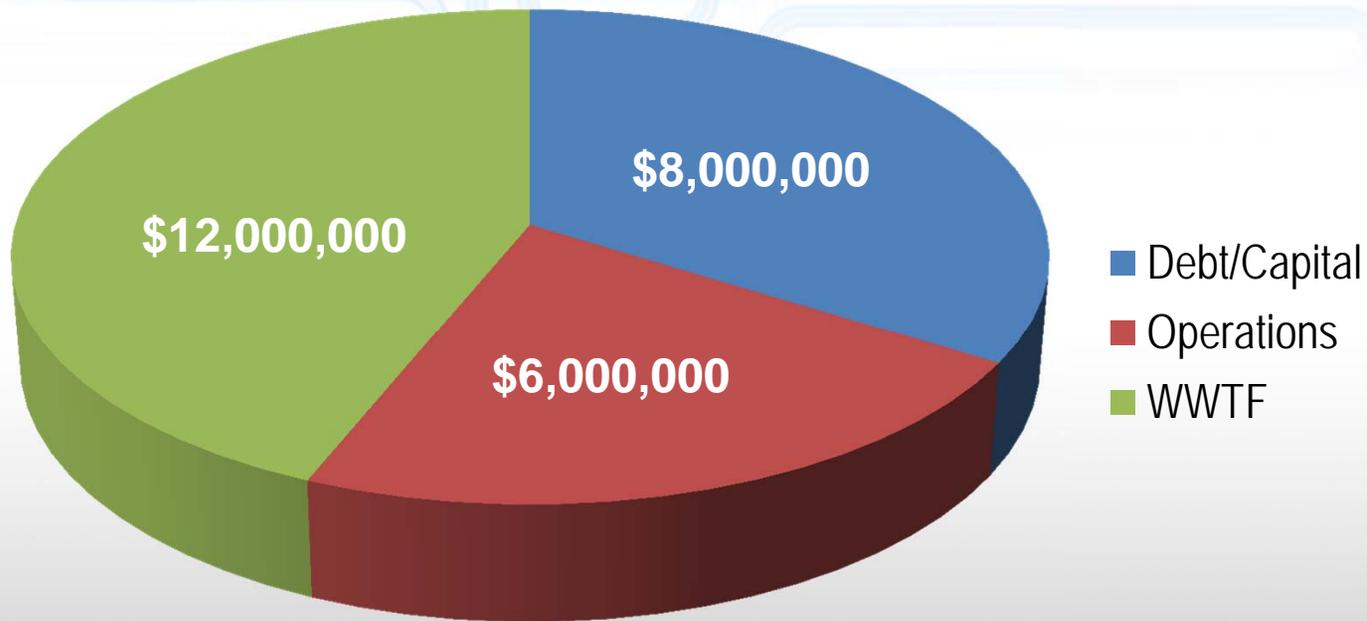
- The sewer charge (wastewater) charge is currently paying for sewer and stormwater management.
- The sewer charge is based on water use and does not account for stormwater runoff.
- Paying for clean water is currently the sole responsibility of water users.

The current wastewater fee pays for wastewater, CSO and stormwater management

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What Do Service Charges Pay For?

Projected Sewer Revenue Needs: \$26,000,000 in 2016



This is currently paid for through the sewer charges:
\$48.50 per average single family residential home per month
5 HCF or 3740 gallons



CURRENT SYSTEM

Apartment

Sewage = 6MGY
Runoff = 3MGY

Industry

Sewage = 20MGY
Runoff = 10MGY

House

Sewage = 0.07 MGY
Runoff = 0.04 MGY

Government

Sewage = 0.1 MGY
Runoff = 1 MGY

Parking Lot

Sewage = 0.0 MGY
Runoff = 3 MGY

Combined
(Stormwater
& Sewage)

Stormwater

Stormwater
Outfall

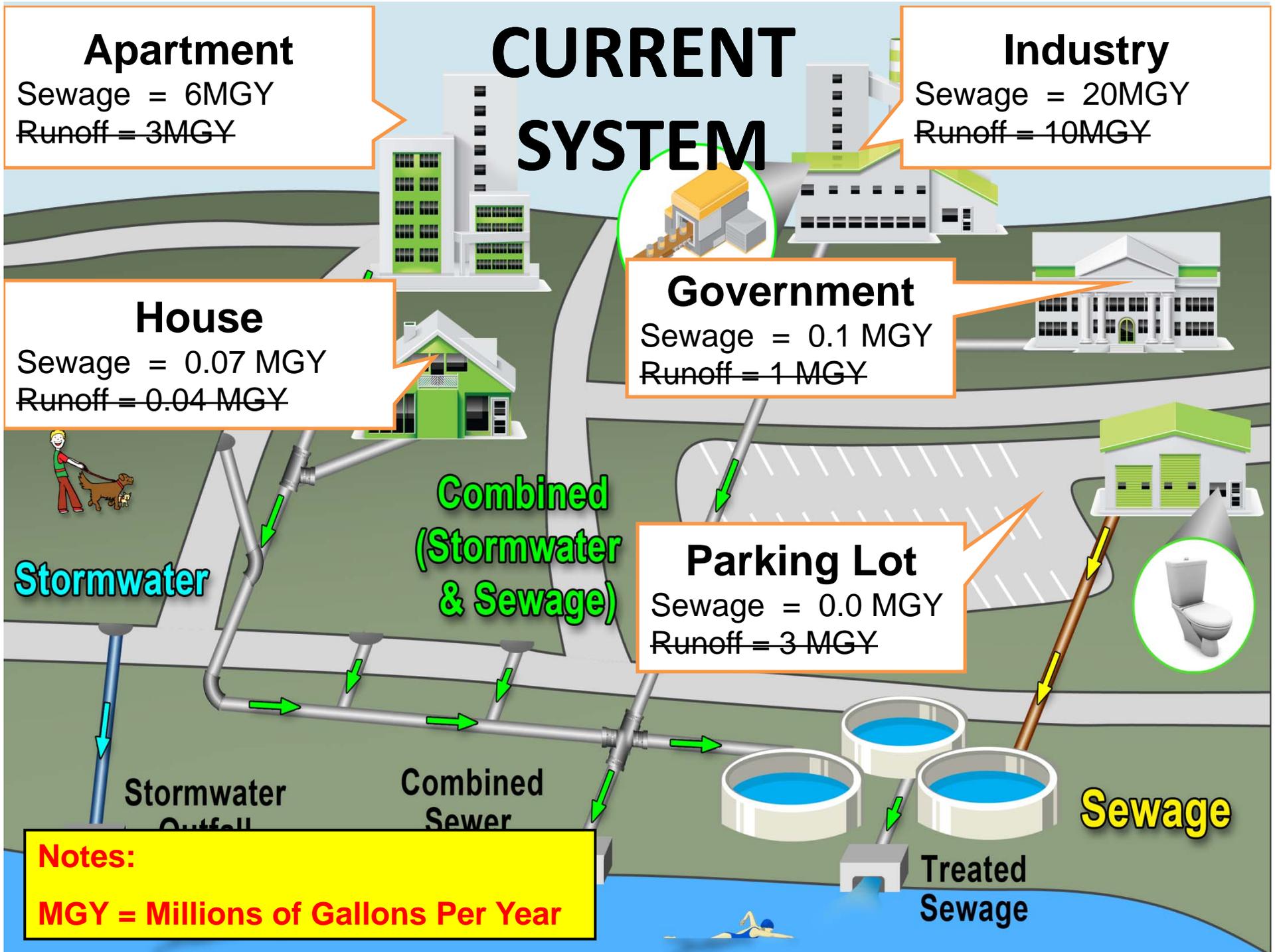
Combined
Sewer

Sewage

Treated
Sewage

Notes:

MGY = Millions of Gallons Per Year



Why Have a Stormwater Service Charge?

- Stormwater carries pollution into Casco Bay and other important water resources.
- Stormwater management is regulated, complex and expensive.
- Stormwater runoff is related to impervious surface area and not to water use
- The current system for paying for stormwater management isn't fair or equitable

~From Council Resolution July 1, 2010

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Recommendations of Task Force

1. Create a funding system that separates existing charges into two parts:
 - Stormwater charge based on impervious area (roofs, driveways, paved areas, etc.)
 - Sewer charge based on water use
2. Split the Combined Sewer costs between both charges

Portland City Council

Business Representative/Property Manager

- East Brown Cow Property Management
- JB Brown and Sons
- Lathrop Property Management

Neighborhood Representation

- West End Association
- Residents (2)

Tax-exempt Property Owners

- Mercy Hospital
- University of Southern Maine

Advocacy Representative

- Casco Bay Estuary Partnership
- Casco Baykeeper

Portland Water District

- General Manager or designee

Industrial Wastewater Discharge

Permit Holder

- Oakhurst Dairy

How A Stormwater Service Charge Works

Runoff Generated
from Impervious
Surfaces =
Stormwater Service
Charge



Sewage Generated
from Water Used =
Sewer Charge



Impervious Surfaces include rooftops,
patios, driveways, parking lots, or other
compacted areas.



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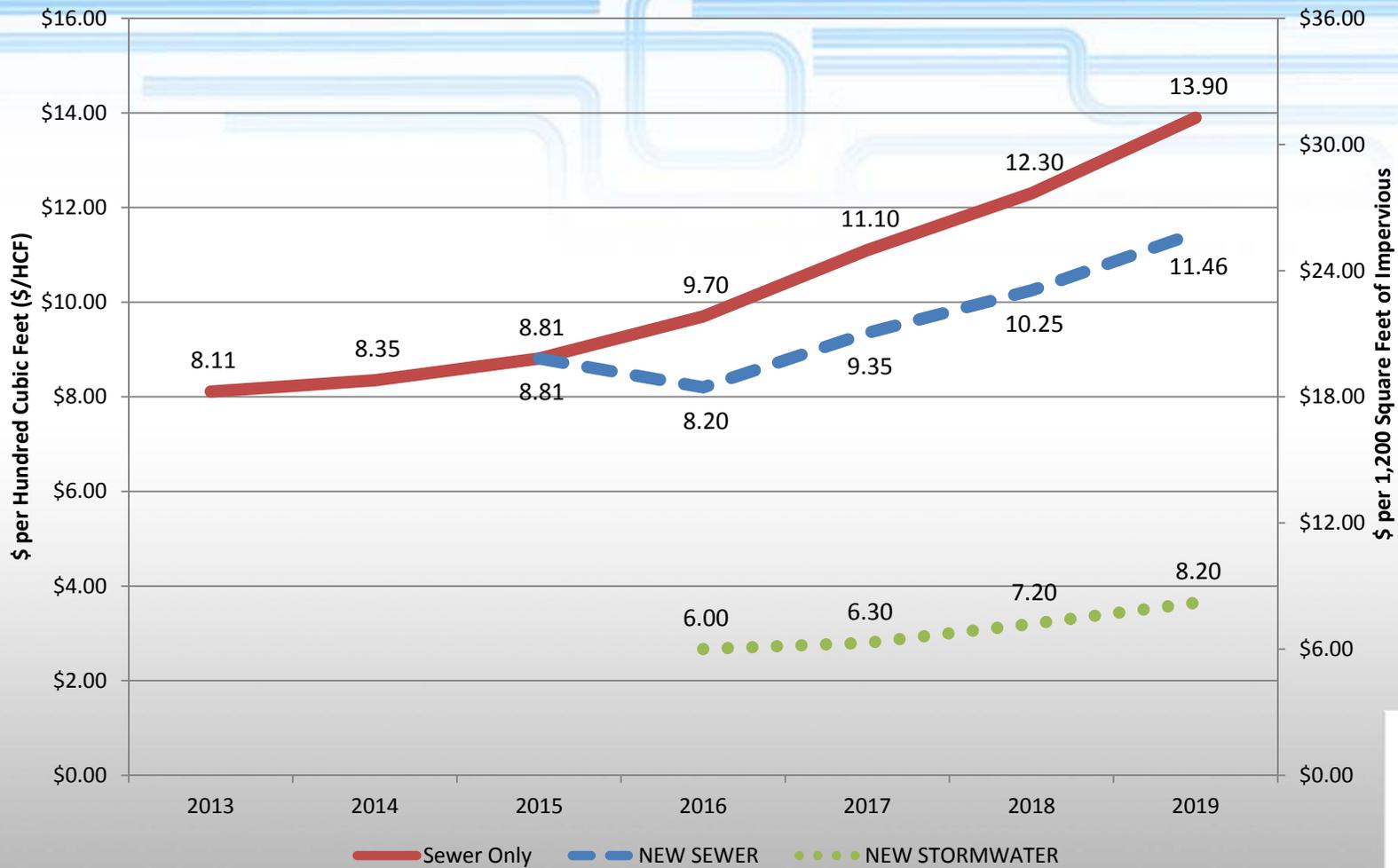
How is Impervious Area Calculated?



- Each property is evaluated to determine amounts of Impervious Area (IA)
- Billing Unit based on the average house = 2,200 Square Feet IA
- Each Stormwater Billing Unit = IA rounded to nearest 1,200 SF

All non-residential properties are billed by number of Billing Units or part thereof

Projected Service Charges



Proposed Stormwater Service Charge

400-1799 sf IA
\$6.00
per month

1800 - 2999 sf IA
\$12.00
per month

3000 – 4199 sf IA
\$18.00 per month



Note: 1st year service charge shown here as an example. Larger properties pay more in increments of 1,200 sf base unit.

www.cleangrowthcleanwater.com/calculator

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How Will Bill Change with Two Charges?

Projected monthly bill through phase-in period for AVERAGE residential property

	2014	2015	2016	2016	2017	2018	2019
	Actual	Actual	Prop (Jul)	Prop (Jan)	Est.	Est.	Est.
Monthly Bills With Stormwater Service Charge							
Monthly Sewer Bill	41.75	44.05	48.50	41.00	46.75	51.25	57.30
Monthly Stormwater Bill				12.00	12.60	14.40	16.40
Total Monthly Sewer and Stormwater Bills	41.75	44.05	48.50	53.00	59.35	65.65	73.70
Monthly Wastewater Bill WITHOUT Stormwater Service Charge	41.75	44.05	48.50	48.50	55.50	61.50	69.50

Notes:

- For most residential properties, the new funding system will see no change in monthly costs.
- Some properties may see an increase or decrease depending on impervious area and overall water use.

www.cleangrowthcleanwater.com/calculator



How to Save Money?



1. Automatic savings on your water and sewer bill.
2. Savings by reducing your pavement footprint.
3. Credits for residents and business to save.



Raingarden-Dead River Properties

Stormwater Charge Credits



- 1. Residential Credit Program**
 - Designed for Low Admin Burden
 - Relatively simple for homeowners to navigate
- 2. Commercial Credit Program**
 - Mirrors existing and past development standards
 - 100% credit available

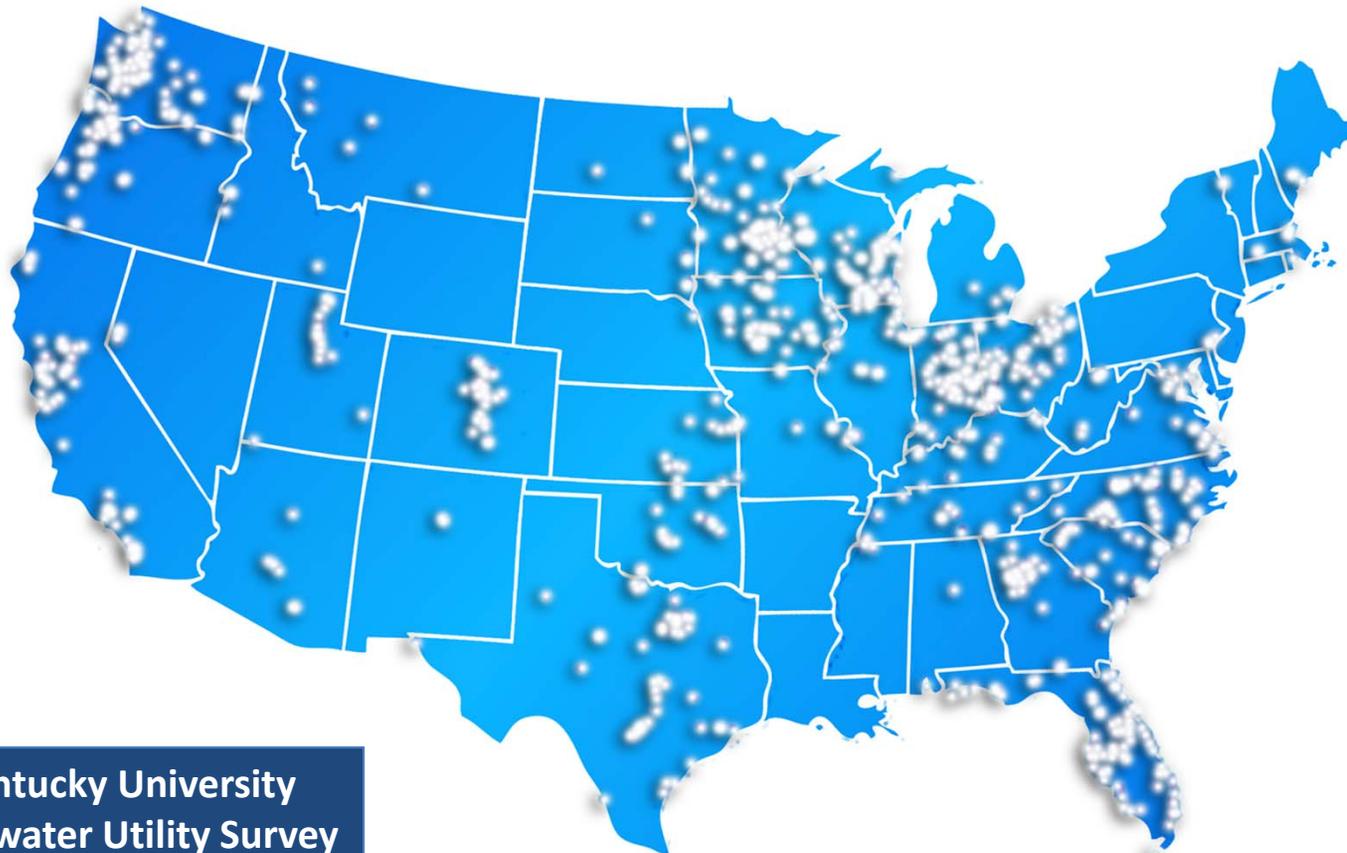


Raingarden-Dead River Properties

Stormwater Charges Are Not Uncommon

This is NOT a novel concept or novel rate.

Over 1000 municipal entities are already doing this.



Western Kentucky University
2010 Stormwater Utility Survey

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How Is Portland Working to Reduce Program Costs?

- Advocacy in Washington
- Targeted capital improvements and system upgrades
- Streamlining permit programs and prioritization based on “best bang for the buck”

What is the Timeline?

- **Fall 2014.** Final presentation of the proposed Stormwater Service Charge and public feedback
- **January 2015.** The Portland City Council will vote on the proposed stormwater service charge and ordinance.
- **Building Season 2015.** Residents and Businesses will have the opportunity to improve their property and apply for credits.
- **Fall 2015.** Residents and Businesses will receive sample bills in the mail and have an opportunity to review their bill with city staff.
- **January 2016.** Billing will begin for the new stormwater service charge.

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