

Green Infrastructure Incentives

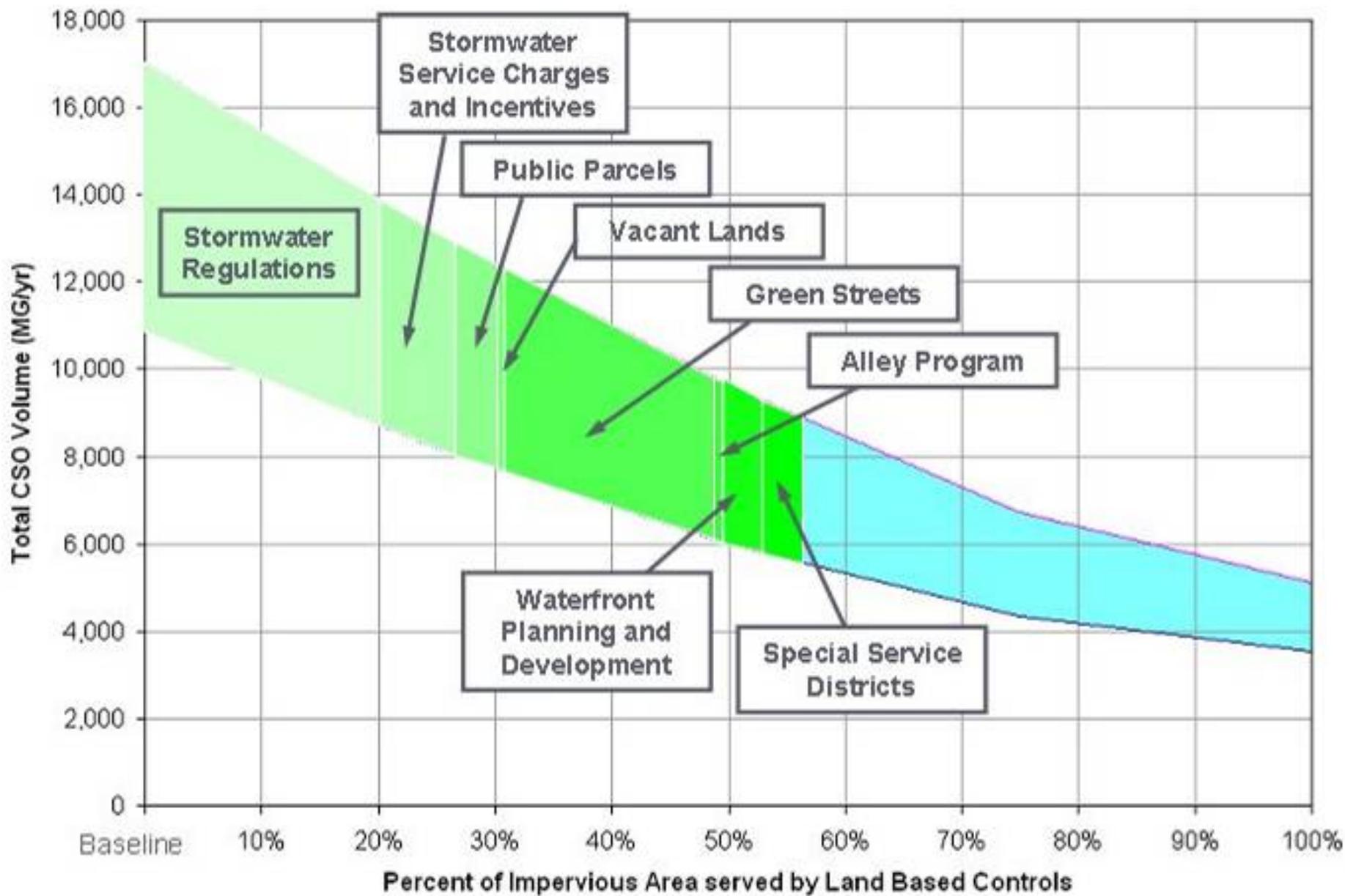


Abby Hall

EPA Headquarters

Office of Policy, Economics and Innovation





Types of Incentives

- ❑ Fee Discount
- ❑ Development Incentives
- ❑ Rebates & Installation Financing
- ❑ Stormwater Regulation
- ❑ Awards & Recognition Programs



Fee-based Incentives



Portland, OR

- Up to 100% discount off on-site fee, or 35% of total stormwater charge
- Single-family home discount based on roof runoff management
- Commercial, industrial, multi-family home discount based on runoff managed from roof *and* paved areas
- Partial credit for tree planting, ecoroofs and less than 1000 sq ft imperviousness

Portland, OR

- ❑ Single-family: checklist
- ❑ Commercial, etc: Square feet of impervious area drains to facility
- ❑ Simple application and agreement

REGISTRATION FORM

Commercial, Industrial, Institutional and Multi-Family Residential Ratepayers

Utility Account Information

Utility Account Number: (at top right corner of your bill) - - -

Ratepayer Name: _____

Site Address: _____

Mailing Address: _____

City/State/Zip: _____

Email Address: _____ Telephone Number: _____

Impervious Areas - buildings and paved areas such as parking, storage, drives and walkways

1. Building Footprints: _____ square feet
2. Paved Areas*: _____ square feet *Include pervious pavement. Exclude compacted soil and gravel.

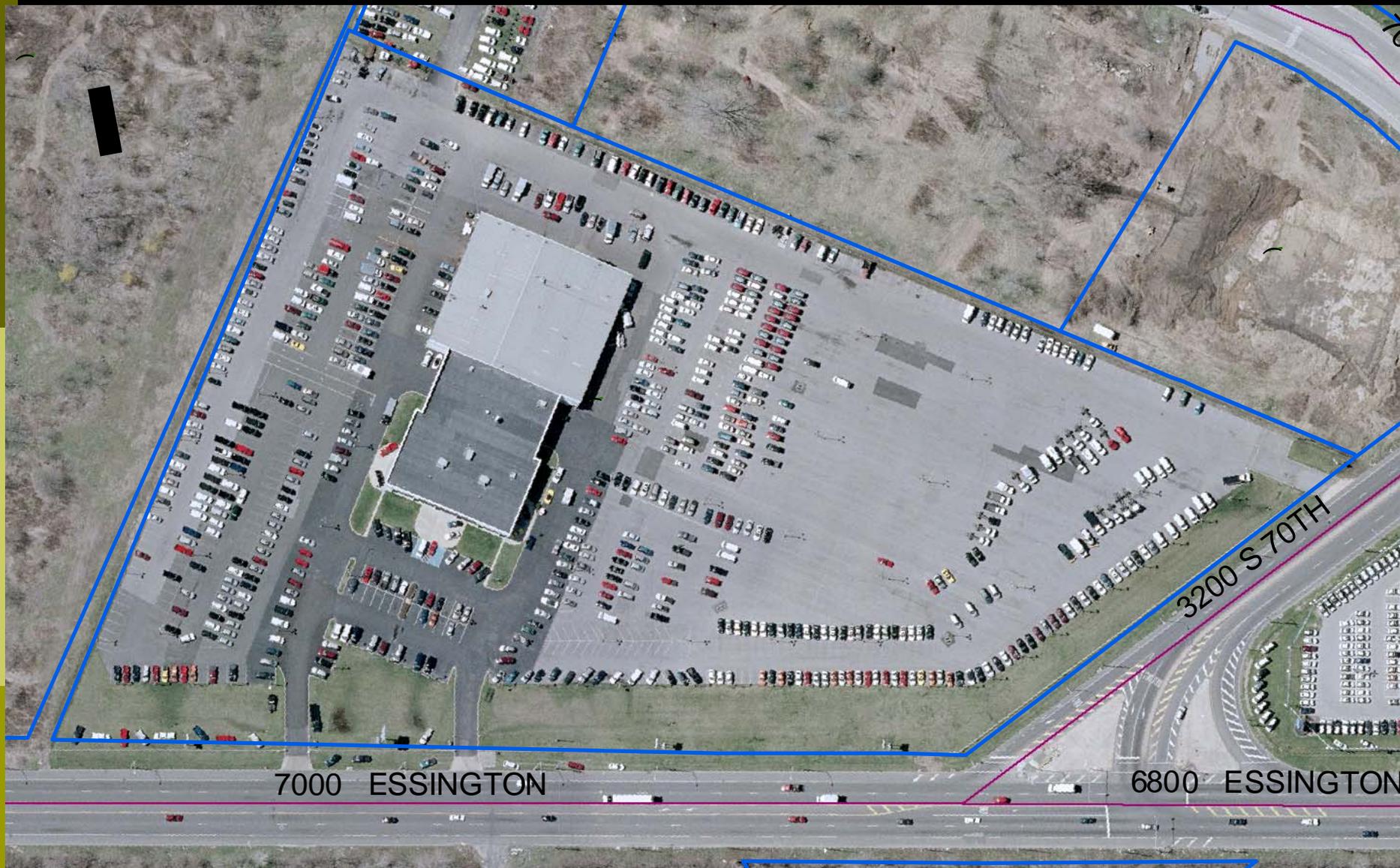
Private On-Site Stormwater Management Facilities (more than one may apply)

Stormwater Management Facility	Square Feet of Impervious area drainage flowing to facility	Facility Size (sq. ft.)
<i>Example: My parking lot drains to Drywells</i>	<i>Enter on line 21</i>	
<i>Example: My roof drains to Soakage Trench and I live in SE Portland</i>	<i>Enter on line 15</i>	480
3. Direct off-site release to street, stream, city facility, sewer, ditch or neighboring property involving no other management techniques.		
4. Private outfall release off-site to river or slough		
5. Off-site release to city sanitary sewer system via Discharge Permit		
6. Ecoroof		
7. Contained Planter		
8. Pervious Pavement or pavers		
9. Downspout Disconnection to infiltrating Area (lawn / garden)		
10. Vegetated Swale or Infiltration Basin (vegetated depression)		
11. Grassy Swale (grassy depression on-site, not a street ditch)		
12. Vegetated Filter		
13. Infiltration or Flow-Through Planter		
14. Sand Filter		
15. East side Soakage Trench		
16. West side Soakage Trench		
17. Stormwater Management Pond and Wetland		
18. Detention Tank or Vault		
19. Manufactured Pollution Reduction Facility		
20. Oil-Water Separator, Sedimentation Manhole or Pollution Control Device		
21. Drywell		
22. Approved Source Controls		
23. Approved Rainwater Re-Use System		

Philadelphia, PA

- 50% discount for residents and businesses
- Decrease directly connected impervious areas
 - Rain gardens, porous asphalt and sidewalks, swales, green roofs.





Gross Area = 600,000 sq ft
Imperv Area = 500,000 sq ft

Existing Charge = \$ 400
New Charge = \$ 2500



Gross Area = 24,000
Imperv Area = 24,000

Existing Charge = \$ 4700
New Charge = \$ 120

Minneapolis, MN

- Up to 50% credit for practices that address **stormwater quality**

Wet ponds	Manufactured underground filters	Rain gardens
Dry ponds	Vegetated swales	Infiltration trenches
Underground storage	Sand filters	Soak away pits
Wet or dry swales	Filter strips	Pervious pavers
	Green roof	Dry wells

- 50% or 100% credit for practices that address **stormwater quantity**
 - 10-year (50%) or 100-year rain event (100%)

Toledo, OH

- ❑ Credits available only for non-residential property owners
- ❑ Maximum credit of 50%
- ❑ Credit awarded for impervious area managed by practices that reduce runoff and pollution
- ❑ Different credit amounts for each practice
 - 10% credit for brownfield reuse
 - 30% credit for forested buffer or swale

Other Fee-based Incentives

- ❑ Chesapeake, VA
- ❑ Denver, CO
- ❑ Sandy, OR
- ❑ Henry County, GA
- ❑ Marysville, WA



Types of Incentives

- ❑ Fee Discount
- ❑ Development Incentives
- ❑ Rebates & Installation Financing
- ❑ Stormwater Regulation
- ❑ Awards & Recognition Programs



Development Incentives

- Chicago
 - Green Permit Program
- Philadelphia
 - Green Roof Tax Credit
 - Unofficial expedited permitting
- Portland
 - Floor Area Ratio Bonus



Types of Incentives

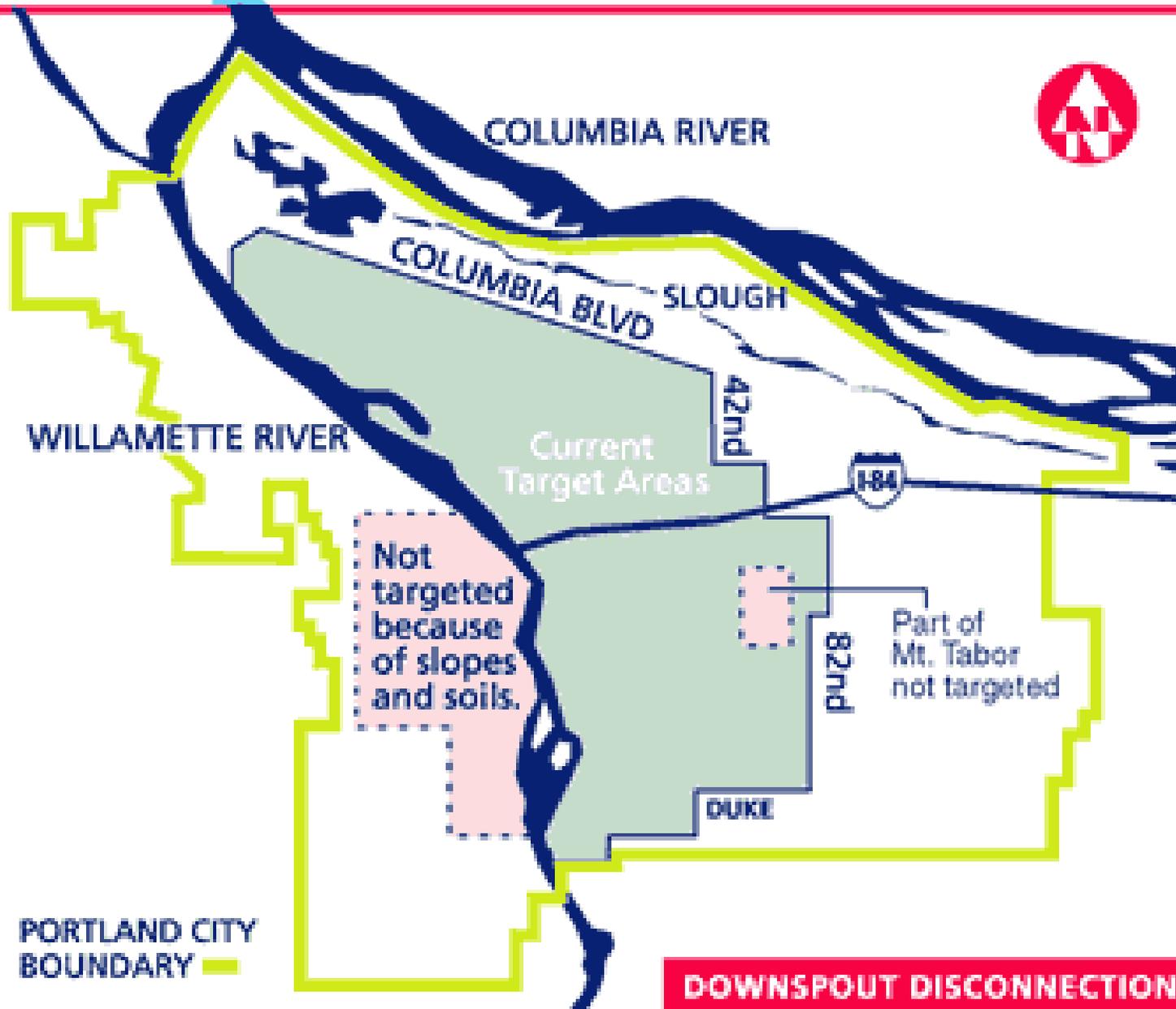
- ❑ Fee Discount
- ❑ Development Incentives
- ❑ Rebates & Installation Financing
- ❑ Stormwater Regulation
- ❑ Awards & Recognition Programs



Rebates & Installation Financing

- Downspout disconnection
 - Portland
 - 60,000 downspouts
 - 1.5 billion gallons annually out of CSS
 - Seattle
 - Rainwise Incentive Program





DOWNSPOUT DISCONNECTION

Rebates & Installation Financing

- Austin: Rebate for rain barrel and irrigation
- DC: River Smart Homes, \$1200
- Montgomery County, MD: RainScapes Rewards, \$1200 homes, \$5000 commercial & multi-family
- Chicago: Green Roof Grants, \$5000
- Portland: Community Watershed Stewardship Grants
- Minneapolis: \$2000 residential, \$30,000 commercial/government
- Santa Monica: Landscaping grants

Types of Incentives

- ❑ Fee Discount
- ❑ Development Incentives
- ❑ Rebates & Installation Financing
- ❑ Stormwater Regulation
- ❑ Awards & Recognition Programs



Stormwater Regulation

▣ Philadelphia's Stormwater Requirement

Requirement	New Development	Redevelopment
Water Quality	Comply	Comply
Channel Protection	Comply	May be Exempt
Flood Control	Comply	May be Exempt
Nonstructural Site Design	Comply	Comply

▣ San Jose

Incentive Framework

Goal of Incentive	Mechanism for Fee Reduction	Process for Implementation
Reduce Imperviousness	<ul style="list-style-type: none"> •Percent fee reduction •Per-square-foot credit 	<ul style="list-style-type: none"> •Percent reduction in imperviousness •Square feet of pervious surfaces
On-site Management	<ul style="list-style-type: none"> •Percent fee reduction •Quantity/Quality credits (performance-based) 	<ul style="list-style-type: none"> •List of practices with various credits •Total area (square feet) managed
Volume Reduction	<ul style="list-style-type: none"> •Percent fee reduction •Performance-based quantity reduction 	<ul style="list-style-type: none"> •Percent reduction in imperviousness •Performance-based •Total area (square feet) managed •Practices based on pre-assigned performance values
Use of Specific Practices	<ul style="list-style-type: none"> •Percent fee reduction •One time credit 	List of practices with various credits

Types of Incentives

- ❑ Fee Discount
- ❑ Development Incentives
- ❑ Rebates & Installation Financing
- ❑ Stormwater Regulation
- ❑ Awards & Recognition Programs



Awards and Recognition Programs



- Chicago
 - Mayor Daley's GreenWorks Awards
- Portland
 - BEST (Businesses for an Environmentally Sustainable Tomorrow)
 - Eco-logical Business Program
- Philadelphia
 - Stormwater BMP Recognition Program
- King County, WA
 - Businesses for Clean Water
 - Greening In Place Awards

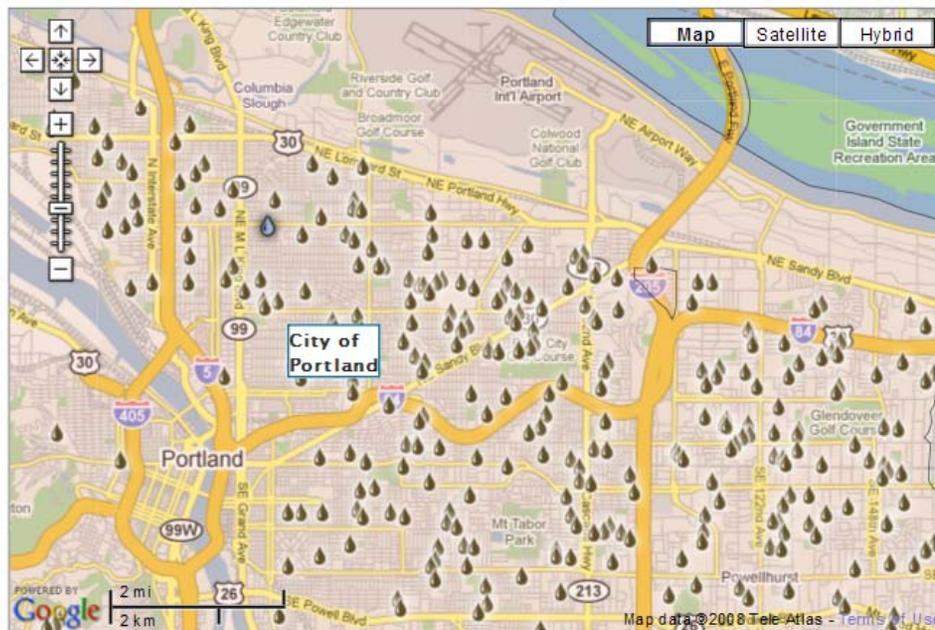
Stormwater Management

Portlanders Take Action!

Many Portland property owners have already taken action to create a more sustainable city. Use the map below to explore what others in our community have already done and get ideas about what you can do to go green and earn green in return.

Don't see your actions on the map? Log in above, add your actions, and the map will be updated automatically.

Region: ▼



Current Property

2138 NE 10TH AVE, Portland, Oregon 97212

Find another Property:

[Go](#)

Most Popular Solutions in Portland



Eco-roof

[Learn More](#)



Trees

[Learn More](#)



Infiltration Planter

[Learn More](#)



Rain Garden

[Learn More](#)

Abby Hall
hall.abby@epa.gov
202- 566-2086



<http://picasaweb.google.com/buildgreeninfrastructure>