COBBS CREEK RESTORATION

FLOODPLAIN WETLANDS AND GREEN STORMWATER
INFRASTRUCTURE
IMPROVEMENTS

Philadelphia Water Department

New England Water Environment Association Watershed Management/Stormwater Committee Conference October 16, 2014

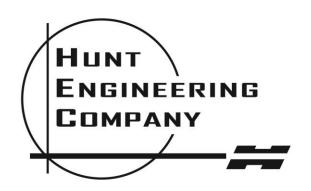






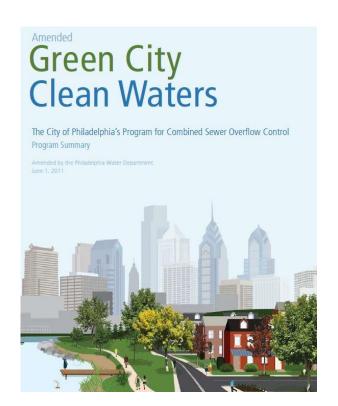








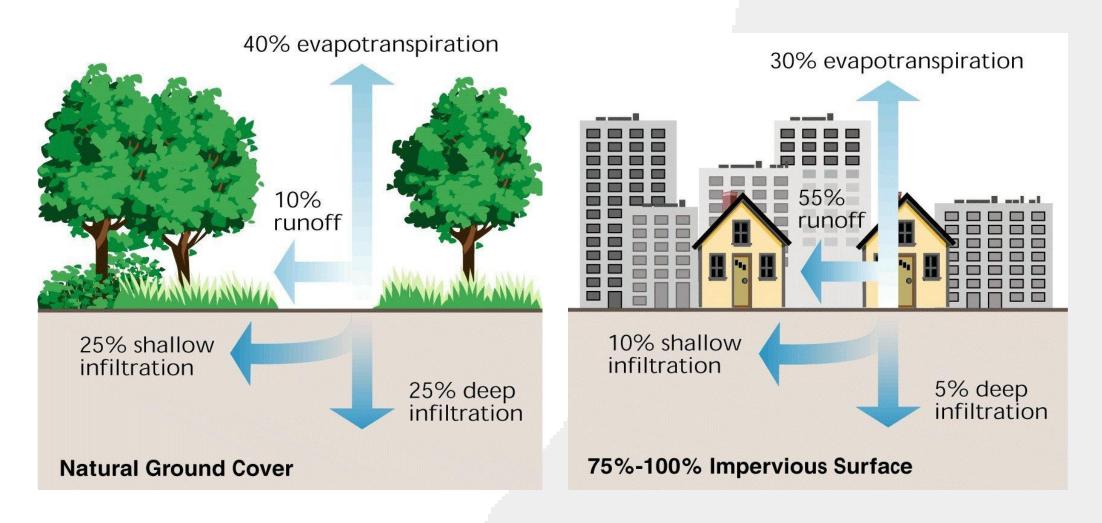








Impervious Cover



50% infiltration vs. 15% infiltration



Living Streamside Townhouses/RowHomes Guide to Designing your Property and Protecting our Watershed

BACKYARD BUFFER PROGRAM

This guide is intended to help you learn how to protect our streams and rivers with a well thought-out design and a list of projects that you may implement on your property.













Events

Residents

Clean Stormwater Tips

Automobile Maintenance

Backyard Stream Buffer

Lawn & Garden Care

Pet Waste

Winter Ice Removal

Green Home Projects

Container Gardens

Depave Your Yard

Downspout Planters

Dry Well

Green Roofs

Porous Paving

Rain Barrel Workshops

Rain Gardens

Trees

Wildflower Meadow

Rain Check

Sign Un

Rain Check

Rain Check is a Philadelphia Water Department program that helps residents manage stormwater and beautify their homes.



Start Managing Stormwater



About Rain Check

1. Sign up for a free stormwater property assessment.

A specially trained assessor will evaluate the outside of your home to see what stormwater tools could work on your property.

Choose a stormwater tool that works for your home.

Rain Check participants can choose from four stormwater tools plus one yard tree. Based on the assessor's recommendations, you choose what you want on your property.

Install your tool at a fraction of the total cost.

The Philadelphia Water Department will help pay for the cost of installing your tool. Learn more about the tools and approximate costs on the Stormwater Tools page.





Tool	Approximate Total Cost	PWD Pays	Participant pays the remainder
Downspout Planters	About \$975.00	\$875.00	
Rain Gardens	About \$17/sq. ft.	\$16 / sq. ft. or \$2,000 (whichever is lower)	
De-paving	About \$10/sq. ft.	\$8/ sq. ft. or \$2,000 (whichever is lower)	
Porous-paving (including the removal of existing surface)	About \$30/sq. ft.	\$15/ sq. ft. or \$2,000 (whichever is lower)	
Yard Tree	About \$150	\$100	

Source: Philadelphia Water Department







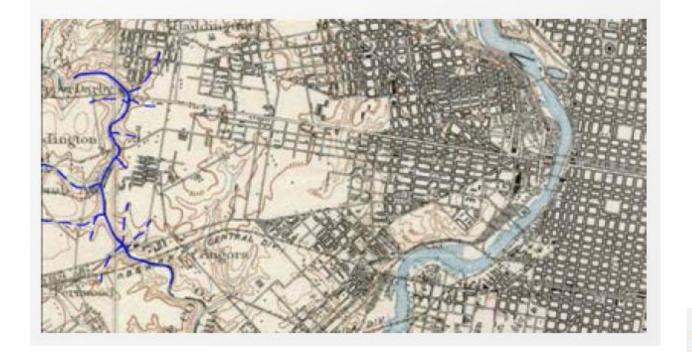








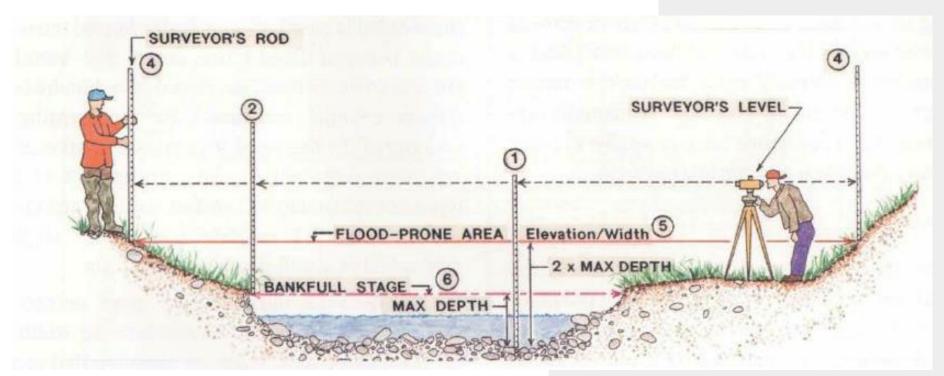
1890-1910 USGS Map



2005 PASDA Aerial Photo



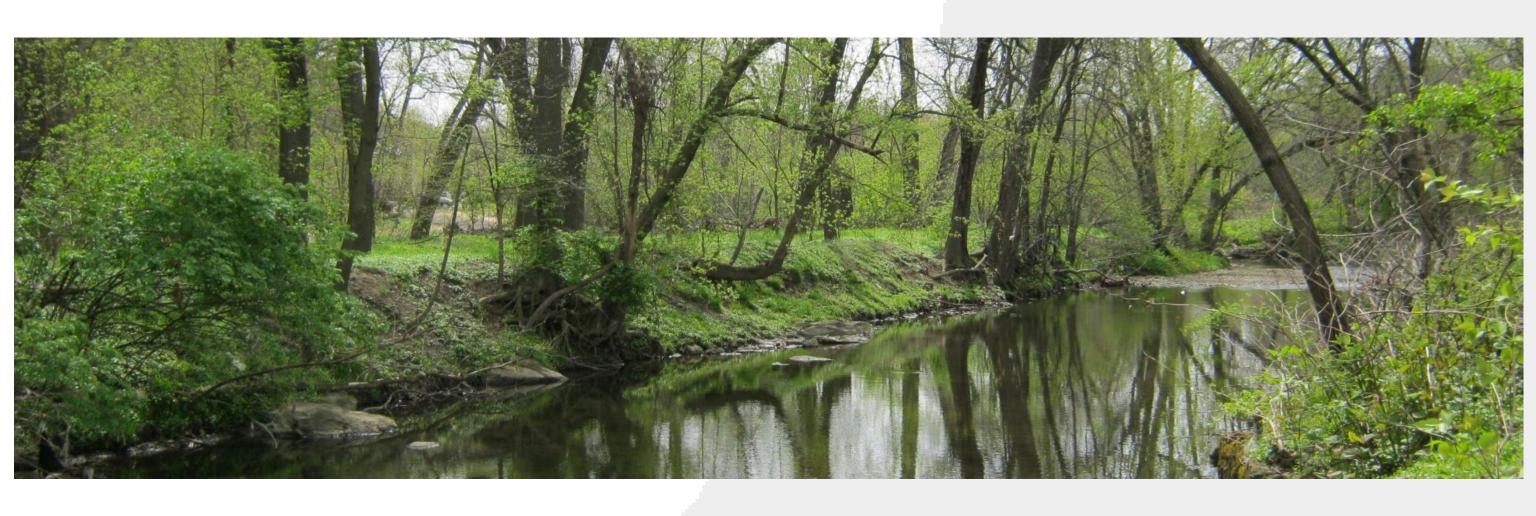
Natural Stream Channel Design



Source: Natural Resources Conservation Service, Engineering Field Handbook



Source: Philadelphia Water Department

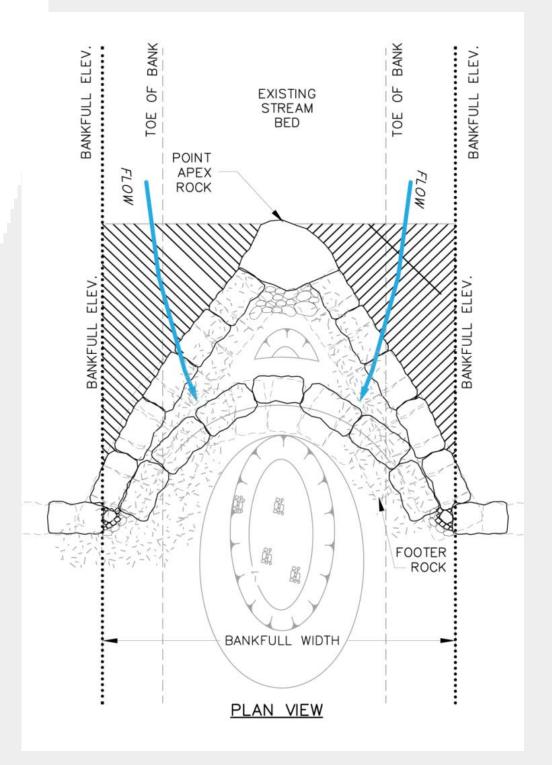


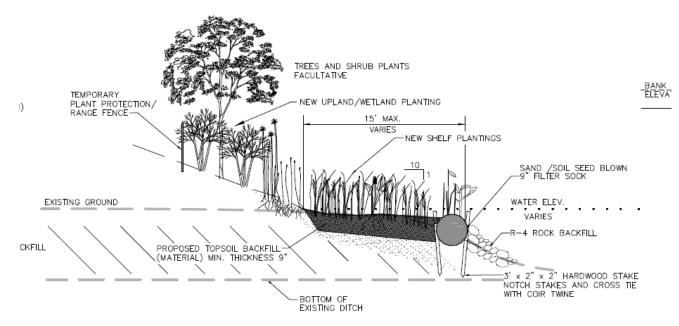












FILTER SOCK TOE/VEGETATED BANKFULL /SLIDE DITCH/ CHANNEL BACKFILL

TIE ENDS OF LOGS
TOGETHER SECURELY WITH
COIR TWINE AND STAKE
THROUGH EACH LOG

2'-0" (TYP.)

11 STAKES PER LOG FACING TIDAL
CHANNEL; SPACE EQUALLY, TIE COIR
TWINE TAUT TO STAKE PAIRS OPPOSITE
EACH OTHER

COIR TWINE (TYP.)

NEW PLANTING AREA

CHANNEL

20' x 12"

COIR FIBER LOG

A'-0" (TYP.)

NEW PLANTING AREA

NOTE:
STAKES 1 1/2' TO 2' IN GROUND





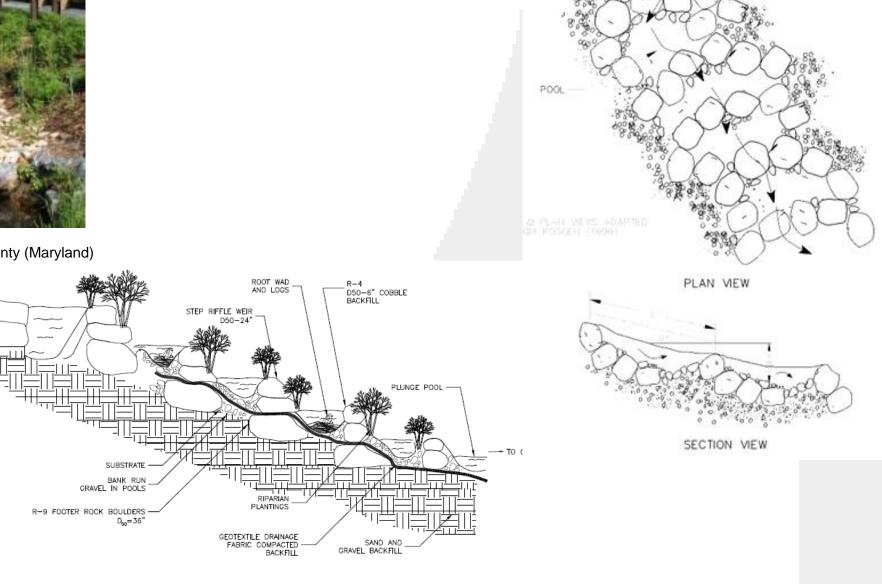








Source: My Green Montgomery, Montgomery County (Maryland)
Department of Environmental Protection











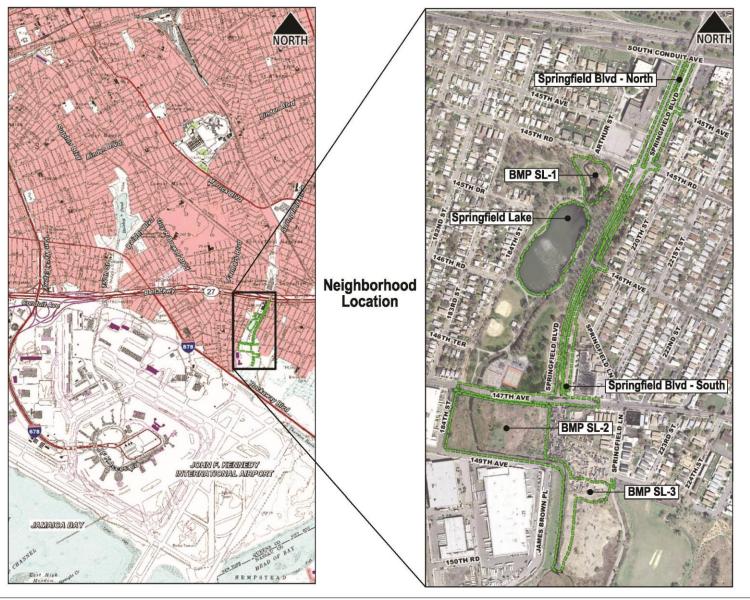








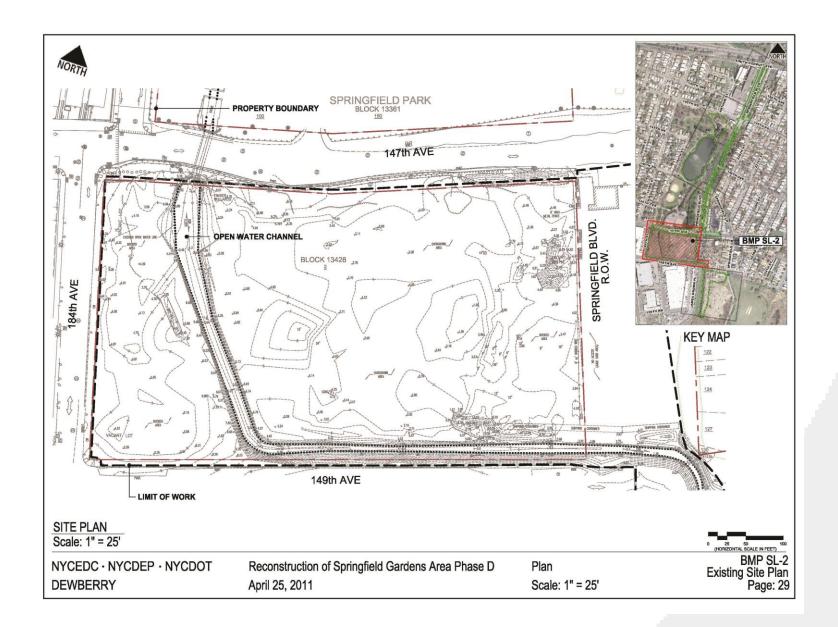






NYCEDC · NYCDEP · NYCDOT DEWBERRY

Reconstruction of Springfield Gardens Area Phase D April 25, 2011 Location Map Scale: N.T.S. Neighborhood Identification Map Page: 3









Source: Site Works

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