



## *Water Pages eNewsletter*

### [Haddonfield Memorial High School Drainage Improvement Project]



The Rutgers Cooperative Extension (RCE) Water Resources Program collaborated with the Camden County Soil Conservation District (CCSCD) to implement green infrastructure practices with funding from the New Jersey Department of Environmental Protection (NJDEP) in the Cooper River Watershed. RCE Water Resources Program staff prepared engineering drawings for a drainage improvement

project at Haddonfield Memorial High School. The engineering design called for the installation of two (2) bioretention systems, or rain gardens, to capture, treat, and infiltrate runoff from the parking lot adjacent to the athletic stadium. Two (2) retaining wall systems were also included to provide more favorable topography for the rain gardens. The parking lot was previously producing runoff that ultimately discharged over a steep slope full of weedy brush then into a stormwater catch basin. The rain gardens will eliminate this drainage and problem while providing a more aesthetically pleasing landscape feature.

Construction is currently underway with W.J. Gross, Inc. General Contracting. The CCSCD will work with the high school students to install native plants in early October. These rain gardens will remove approximately 215,600 gallons of stormwater annually!



## [Lincoln Middle School gets an Outdoor Classroom!]



The Passaic Valley Sewerage Commission (PVSC) has partnered with the RCE Water Resources Program to pilot an outreach and technical assistance program to identify and address water quality issues in the PVSC service area. This collaboration has provided guidance and direction to the 48 municipalities in the PVSC service area regarding the benefits and opportunities of implementing green infrastructure practices.

Many of these projects showcase the positive impact rain gardens and rainwater harvesting systems can have on local flooding issues and combined sewer overflow (CSO) events.

Lincoln Middle School in Kearny, NJ was selected as a site for an educational green infrastructure demonstration project. The school demonstration projects benefit the community at-large by reducing flooding and pollution in waterways, but also serve as a hands-on educational experience for the students and the school community.

Sponsored by PVSC, an interior courtyard at Lincoln Middle School was redesigned and rebuilt as a fully functional green infrastructure demonstration and outdoor classroom area. Dedicated on Monday, September 21, 2015, the project included a rain garden designed to intercept runoff from the surrounding impervious pavement surfaces. A multitude of seasonally attractive native plants and trees were planted in the courtyard to provide pollinator habitat and food source. The school science curriculum will be engaged and enhanced by the

addition of handicap accessible raised garden beds, a greenhouse and water harvesting system, and classroom seating built out of trees removed from the Passaic River.

The RCE Water Resources Program looks forward to upcoming and future school demonstration projects in collaboration with PVSC!



## [St. Gregory Episcopal Church gets a Rain Garden!]



The RCE Water Resources Program, RCE of Morris County, and the New Jersey Department of Environmental Protection (NJDEP) has partnered with St. Gregory Episcopal Church in Parsippany, New Jersey to help them be part of the "green" movement. St Gregory's Church sits on over five acres of land bordering the Troy Brook, part of the Troy Brook Watershed

and the larger Whippany River Watershed. St Gregory's was recommended for implementation because the property, a former farm, provides a natural conduit for water to flow from the road and adjacent properties directly into the Troy Brook.

This innovative project was designed to reduce the impact of stormwater runoff from the church's driveway and parking lot. Stormwater runoff is considered one of the main sources of water pollution. Through a combination of drains, rain gardens, and porous asphalt, the stormwater runoff will be managed to minimize the volume of water that reaches the brook.





The project was funded by a grant from NJDEP, through the Federal 319 (h) Clean Water Act funds, and designed by the RCE Water Resources Program. We would like to thank Reverend Susan for becoming a leader in the Troy Brook Watershed!

## [October Build-a-Rain Barrel Workshop for the City of Newark Residents]

# Build-a-Rain Barrel Workshop

**Tuesday, October 13, 2015**

**Monday, October 19, 2015**

**Tuesday, October 27,  
2015\* (rain date)**

**6PM—8PM**

**Greater Newark Conservancy**

**32 Prince Street**

**Newark, NJ 07103**

Registration (\$15 per barrel) is open for all Newark Residents. To register, please visit:

<http://goo.gl/forms/8mH4aclhkY>

A rain barrel is placed under a gutter's downspout next to a house to collect rainwater from the roof.

The barrel holds about 50 gallons of water which can be used to water your lawn, flowers, shrubs, and trees.

The fee for this workshop is \$15, which includes the barrel and all the materials.

Rainwater harvesting can help save money on your water bill and reduce flooding in local rivers and streams.

Participants will be shown step by step how to build their own rain barrel and learn how to install it at home.

This workshop is part of a research project conducted by Rutgers Cooperative Extension to determine whether rain barrels encourage adoption of other environmental best management practices by residents. Participation is voluntary. For further information contact Rosana Da Silva, [rdasilva@envsci.rutgers.edu](mailto:rdasilva@envsci.rutgers.edu) or 848-932-6714. This program is sponsored by a NJDEP 319(h) grant. Program partners include:



To register for a workshop, please [click here](#). For further information, please contact Rosana Da Silva at [rdasilva@envsci.rutgers.edu](mailto:rdasilva@envsci.rutgers.edu) or call (848) 932-6471.

Don't forget to visit our website at: [water.rutgers.edu](http://water.rutgers.edu)

Like us on Facebook 

Follow us on  twitter

[Forward this email](#)



This email was sent to rdasilva@envsci.rutgers.edu by [water@envsci.rutgers.edu](mailto:water@envsci.rutgers.edu) | [Update Profile/Email Address](#) | Rapid removal with [SafeUnsubscribe™](#) | [About our service provider](#).



Rutgers Cooperative Extension Water Resources Program | 14 College Farm Road | New Brunswick | NJ | 08901