

# RUTGERS

New Jersey Agricultural  
Experiment Station



December 2019

## WATER PAGES eNEWSLETTER

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**Wishing You Happy Holidays and  
a Wonderful New Year!**



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**Congratulations to the Bridgewater-Raritan High School  
Green Infra Team, recipients of the  
2019 Governor's Environmental Excellence Award in  
Student-led Environmental Education!**



## Bridgewater-Raritan Green Infrastructure

*Team Members - Amogh,  
Ritika, Pravar, Sujay, Aneesh*





**Use of specific native plants in the garden that are adequately adapted to the environment**



**BRMS 2018**



Founded a Green Infrastructure Club which promotes the knowledge of green practices and expands the usage of these techniques

Built rain gardens at our high school and middle school



**BRHS 2019**



Implemented green infrastructure which removes pollutants from stormwater runoff in our school

Partnered with Rutgers and Raritan Headwaters




Special Thanks to: Dr. Chris Obropta, Dr. Kristi McDonald, Dr. Hollie DiMuro, and Dr. Chris Perez

LOCW-CORNELL 993 CHW



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**Congratulations!** The Sussex County Municipal Utilities Authority - Wallkill River Watershed Management Group have been awarded a 2019 Governor's Environmental Excellence Award in the category of Environmental Education for the McKeown Elementary School Stormwater Summer Camp.





## Watershed Tools for Local Leaders

### Addressing Stormwater Pollution & Harmful Algal Blooms in Your Municipality

**Presenters:**

Victor Poretti, Section Chief, NJDEP Bureau of Freshwater and Biological Monitoring  
Chris Obropta, Ph.D., Rutgers University, Water Resources Program  
Bill Kibler, Director of Policy, Raritan Headwaters Association

**Thursday, January 9**

**3 - 5 pm**

**Randolph Township  
Free Public Library**

**28 Calais Rd., Randolph Twp.**



Negative effects on our water quality, due to increased precipitation, is a serious concern in NJ. This free seminar will provide practical tools to understand and address stormwater runoff, improve water quality and prevent HABs. Topics will include an update on recent HABs in the region, new stormwater regs, green infrastructure/impervious cover reduction plans for your municipality, and funding sources for stormwater projects.

**Seminars are free, donations are appreciated.**

**To register: [www.raritanheadwaters.org/municipal-tools/](http://www.raritanheadwaters.org/municipal-tools/)  
or 908-234-1852 ext 322, [kmacdonald@raritanheadwaters.org](mailto:kmacdonald@raritanheadwaters.org)**





## **Struggling with localized flooding or unhealthy waterways?**

### **Come to the Green Infrastructure Planning and Implementation Workshop**

This workshop will help municipalities understand how to use green infrastructure planning to address stormwater issues in the community.

**Tuesday, January 14, 2020**

6 - 8 pm

Mountain Lakes Borough Hall

Downstairs Conference Room

400 Boulevard, Mountain Lakes, NJ 07046

**Register:** <https://forms.gle/zoLjGmZrWj3yVau16>





## Green Infrastructure Planning and Implementation Workshop

The Rutgers Cooperative Extension Water Resources Program has completed green infrastructure plans for over 150 municipalities in New Jersey. This course will help you understand how to use your plan to address stormwater problems in your community. If a plan is not already available for your municipality, we will share with you how to develop one. If you are part of the Sustainable Jersey program, there are 35 points available for green infrastructure planning and another 45 points available for green infrastructure implementation that will be discussed at this workshop.

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### Agenda

- 6:00 pm Welcome by Sustainable Jersey
- 6:15 pm What is a green infrastructure plan
- 6:45 pm How to develop a plan
- 7:15 pm How to set realistic green infrastructure targets for your community
- 7:30 pm How to use a green infrastructure plan
- 7:45 pm How to implement green infrastructure projects to achieve your goal
- 8:00 pm Wrap up and adjourn



## Green Infrastructure Training is Back!



Starting on Friday, January 17, 2020, the highly successful Green Infrastructure Champions Program will be offered in partnership with Duke Farms in Hillsborough, New Jersey. We piloted this program last winter into the spring, and 37 people were certified as Green Infrastructure Champions. The pilot program was made possible by support from New Jersey Sea Grant Consortium, The Geraldine R. Dodge Foundation, and Jersey Water Works. This year we will add Duke Farms as a partner.

Green Infrastructure Champions will be key players in implementing green infrastructure as a

stormwater management approach town by town. Green Infrastructure Champions will be able to:

- Enhance their knowledge through green infrastructure workshops, seminars, and personal research
- Engage community leaders to adopt green infrastructure as a stormwater management solution by updating ordinances and municipal master plans
- Encourage local non-governmental organizations (NGOs) and schools to incorporate green infrastructure in their existing landscaping
- Secure funding for green infrastructure
- Publicize implementation of green infrastructure through social media channels

The RCE Water Resources Program will dedicate resources to support the Green Infrastructure Champions in their efforts to advocate for green infrastructure and implement demonstration projects.

For additional details about the Green Infrastructure Champions Program as well as the topics discussed at each session, please visit us at:

**The RCE Water Resources Program**

(<http://water.rutgers.edu/Projects/GreenInfrastructureChampions/GIC.html>).

The 2020 Green Infrastructure Champions Program will be held at Duke Farms, Hillsborough, New Jersey, on Fridays from 10AM to 12NOON starting January 17, 2020. **Register here!** (<https://www.eventbrite.com/e/green-infrastructure-champions-tickets-78185331431>)

Contact **Marian Glenn** ([marian.glenn@shu.edu](mailto:marian.glenn@shu.edu)) or **Sara Mellor** ([saramellor@envsci.rutgers.edu](mailto:saramellor@envsci.rutgers.edu)) for more information.

All 10 classes are available for a single fee of \$150, or you can purchase individual workshops for \$20 each. A minimum of five (5) workshops are required for a certification.

## Municipal Action Teams' Green Infrastructure Initiative Updates

**Camden SMART** (Stormwater Management and Resource Training) met on December 11th. Camden County Municipal Utilities Authority (CCMUA) presented on the Long-Term Control Plan which details the goal of reducing CSO events by 85% in a 30-year plan. CCMUA is looking at an approach of plant and pump station upgrades along with a 10% reduction in Directly Connected Impervious Area (DCIA) using green infrastructure. The group heavily discussed how Camden SMART's existing green infrastructure program can be expanded to reach this target and how the public can be educated about the plan. An early

Municipal action teams have been formed to foster collaboration and collective action that helps the municipality speak with a common voice and achieve a common goal while advocating for green infrastructure. Updates on the various municipal action teams across the state are



concept of what the Harrison Avenue green street design could look like was shared with the group who gave feedback that will be used to improve the design. The next monthly meeting is planned for Wednesday, January 8th at 2PM at Camden County Municipal Utilities Authority.

**Gloucester City Green Team** met on December 11th. The group discussed that an estimate was received for the Gloucester City High School project for installation in the spring or summer. Issues with flooding in the city were talked about looking at how sea level rise and upstream flows are contributing to worse flooding and how these issues could be dealt with either through infrastructure changes like raising roads or by trying to reduce upstream flows by reducing the amount of impervious cover generating runoff from upstream areas. The next monthly meeting is scheduled for Wednesday, January 12th at 1PM at the Gloucester City Municipal Building.

**Jersey City START** (Stormwater Treatment and Resiliency Team) met on December 12th at 10AM at the JCMUA. Members discussed the progress on several green infrastructure projects that are in the planning phase at this time and will be completed in 2020: McGovern Park rain garden, Lafayette Park rain garden, Bayside Park rain garden, and the MLK Boulevard enhanced tree pits. They also discussed community feedback gathered during the community outreach events held throughout the fall to discuss the CSO Long Term Control Plan with members of the public. The next meeting will be on January 9th at 10AM at the JCMUA.

**Newark DIG** (Doing Infrastructure Green) met in Newark City Hall at 11AM on November 26th. DIG partners received a presentation by an engineer from HDR, Inc. on the selection of alternatives for Newark's CSO (Combined Sewer Overflow) LTCP (Long Term Control Plan). Discussed were regional alternatives and the need for site specific locations for each alternative as requested by DIG partners. Rutgers Cooperative Extension Water Resources Program is in the design phase of a street greening and stormwater management project on Bergen Street and Springfield Avenue. For additional information and upcoming public meetings about the LTCP and combined sewer overflow (CSO) issues, visit the webpages of Newark Stormwater Solutions and Newark DIG. Newark DIG meetings are held at 11AM on the fourth Tuesday of every month in Newark City Hall.

**Paterson SMART** (Stormwater Management and Resource Training) met at 10AM on December 11th in Paterson City Hall. The group received a presentation on the status of the CSO Long Term Control Plan from the city consultant, PS&S. The group also discussed the ongoing plan to submit

listed in this newsletter.

Technical assistance provided to these municipal action teams by the RCE Water Resources Program is funded in part by the Surdna Foundation, the Passaic Valley Sewerage Commission with support from the New Jersey Department of Environmental Protection (NJDEP), and our local partners.

Camden SMART

Gloucester City Green Team

Harrison TIDE

Jersey City START

Newark DIG

Paterson SMART

Perth Amboy SWIM

Trenton Green Infrastructure Partners

an application for the city to become a Community Rating System (CRS) community. The concepts for a green street demonstration project on Fair Street were presented to the group by the RCE Water Resources Program. The next meeting in January will be announced by email.

**Perth Amboy SWIM** (Stormwater Infrastructure Management) did not meet in December. There will be a CSO Supplemental Team meeting on December 18th at 6PM, at the Perth Amboy Fire Department. The next SWIM meeting will be in January and announced via email.

**Trenton Green Infrastructure Partners** (GIP) did not meet in December. The next meeting will be in January.



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**Rutgers Cooperative Extension Water Resources Program**  
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www.water.rutgers.edu

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