

MAY 2021  
2ND QUARTER



**EXECUTIVE DIRECTOR**

**Charlene DeSha**

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865-386-6917

**WEBSITE**

www.tnstormwater.org

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# TNSA Times

Tennessee Stormwater Association  
Quarterly Newsletter

## A Message From the TNSA President

PAGE 1

### 'Together Again'

What can I say? We have been isolated, told to stay away, forced to stay apart....I am so excited to SAY we are going to be 'Together Again' for this year's TNSA Annual Conference! We are offering a full day with Illicit Discharge training and education. The conference will be held at Montgomery Bell State Park, October 18 – 21, 2021. This year's keynote speaker is Dr. David Withers – the only State Heritage Zoologist!!! It's going to be in person, so book your room fast. You don't want to miss this opportunity to see everyone and spend time together. I have missed each of your smiling faces and can't wait to see you all.

I know this last year has been a struggle for most. I honestly feel like I was meant to walk through this difficult year to appreciate the simple things in life like time with my family, friends, and less distractions of the world. Many of us got to spend that extra time we would have spent at a ballgame or work function just hanging out on the deck or patio. We learned that all of the hubbub and noise wasn't always a good thing. I hope each of us can find one thing that we are truly grateful for over the last year. I know that I can.

Personally and professionally speaking, I am truly grateful for Charlene our Executive Director. I am grateful for her friendship over the last 6 years. I am grateful for her hard work and ability to take this organization that is so amazing and transform it into something truly incredible. The best part of this organization is the 'People'. I count so many of you as true friends that I could count on to rob a bank or drive the getaway car. Maybe the saying is something about burying a body. You get the picture. You are all people I can count on in a time of need. I am grateful for all of those friendships.

TNSA has managed to keep us all connected with TNSA talks, regional zoom meetings, and a virtual conference. I managed to get lots of educational credit and connect with our membership each month. I encourage you all to continue to reach out and connect on these platforms with us. I am optimistic that this year is going to be an amazing year for our organization.

I am greatly honored to be the TNSA President for this year!

Respectfully,

**Sheila Huffmire Rutherford County. Assistant County Engineer. TNSA President 2021**

## SPONSORSHIP AND EXHIBITOR OPPORTUNITIES

You are invited to sponsor the 2021 Tennessee Stormwater Association Annual Conference. Join us as we explore challenges and discover solutions to the ever-changing world of stormwater management in Tennessee.

### Dinner Sponsor \$1,500

- 1 Available

### Breakfast/Lunch Sponsor \$1,000

### General Sponsor \$750

### Exhibitor \$500

- Only 7 spots available

## REGISTER TODAY! 2021 TNSA ANNUAL CONFERENCE "TOGETHER AGAIN"



**MONTGOMERY BELL STATE PARK**

**OCTOBER 19-21, 2021**

**Make your Inn Reservation before Sept. 2**

<https://www.tnstormwater.org/tnsa-conference>

### Conference Registration

### Early Bird (ends Sept 17)

TNSA Member \$230  
Non-TNSA Member \$280  
1-Day \$150

IDDE Pre-Conference  
Workshop

Monday, October 18  
9am-4pm

Includes 6 PDH and Lunch  
TNSA Members: \$100  
Non-Members: \$125

Contact

Charlene DeSha

Charlene@tnstormwater.org

Phone: 865-386-6917

## Upcoming Regional Meetings

Regional meetings are held each quarter. You do not have to be a TNSA member to attend a meeting. Region meetings are a great way to keep updated within your area and the state. Meet like-minded professionals, network, learn about statewide events and new ideas within the stormwater community.

Two meetings will be held on Zoom in June, one for each time zone.

**NOTE: All in-person region meetings will resume in September.**

♦ **Central Time Zone: Tuesday, June 1, 10:00 am CST**

♦ **Eastern Time Zone: Friday, June 4, 10:00 am EST**

Email Charlene DeSha if you would like to be added to a specific region email list.

### **LOOKING FOR NEW CHAIRS**

North East Region  
Middle Region  
East Region

## Committee Updates

**Communication:** Goal is to work on communication within and outside of the organization

**Chair: Aaron Rogge, CDM Smith**

The Communication Committee has set up a shared spreadsheet to track and grow important relationships with organizations and individuals in the greater stormwater community. The goal is to grow our network of educational and professional resources throughout the state and identify potential distribution for our legislative messaging.

Contact Aaron Rogge for suggestions or for access to the list.

This year's legislative video is in production and should debut before this year's conference.

**Public Outreach:** Creates Education Resources

**Chair: Tom Lawrence, Thomas Lawrence Engineering**

The TNSA Public Education and Outreach Committee has continued to move forward, completing several important milestones, such as:

- Expanding the existing TNSA database of storm water educational materials.
- Assisting with technical review of the TENS I the turtle activity book.
- Working with the TENS I artist to develop a list of colors and fonts to ensure that TNSA created materials all share a common look.
- Issuing a survey of the TNSA membership to identify the types of public education assistance that MS4s could use from TNSA.
- Reviewing the existing MS4 permit to identify storm water outreach requirements.
- Assisting with Statewide nutrient pollution reduction education efforts.
- Determining how TNSA and the PEO committee can help with preventing illegal dumping.

**SCM:** Standardizes Device Evaluation and Develops Toolkit

**Chair: Jacob Dorman, Contech**

The BMP Committee has reorganized itself as the Stormwater Control Measures (SCM) Committee in order to better serve TNSA members. Our mission is to provide standardized SCM guidance to TNSA members. We intend to do so by building resources for a toolkit representative of all permanent post-construction (non-proprietary and proprietary) SCMs. The Committee recently sent out a membership survey to assist in identifying priority issues to be addressed moving forward.

**Education:** Manages and Creates Educational Training and Resources

**Chair: Tim Gangaware, UT Water Resources Research Center**

Thank you to all of the TNSA Talk speakers so far this year. TNSA Talks are free to attend on Zoom and TNSA Members receive a PDH certificate. Registration is required for each talk. If you are interested in speaking at a talk, email Charlene DeSha. Several past TNSA Talks have been recorded and posted on the TNSA website:

<https://www.tnstormwater.org/tnsatalks>.

The Committee is working on in-person education opportunities for 2021 as soon as it's safe for everyone to meet in person including the Stormwater Basics for MS4's.

## Committee Updates Continued...

**Policy:** Works with TDEC to share and update members on state and EPA regulations and policies;

**Chair: David Mason, CDM Smith (updated)**

The TNSA policy committee, along with partners at the TN Municipal League and ACEC, came together to address SB 0113, a bill that would require municipalities to abate the stormwater fees owed by a property owner until such fees equal the construction costs of stormwater ponds on-site. The bill has been sent to the Tennessee Advisory Commission on Intergovernmental Relations (TACIR) for further study and could re-emerge next year based on recommendations from this commission. TNSA will remain engaged in the education process of representatives regarding the potential impacts of this bill on local government funding.

At a hearing of the TN Board of Water Quality, Oil & Gas on April 20th, the Board approved modifications to Chapter 0400-40-10, which implements post-construction stormwater standards by rule and directs TDEC to incorporate the standards into the NPDES MS4 permits. Next steps in the process include internal TDEC legal review, a stop at the Attorney General's office, and filing with the Secretary of State. Once filed, the rules will become effective 90 days later. This process will take several months. Implementation of the post-construction standards will be required within 24 months of the effective date of the MS4 permit.

### **UTC Team Receives Honorable Mention At EPA Campus RainWorks Challenge**

The U.S. Environmental Protection Agency recognized UTC with an Honorable Mention in its ninth annual Campus RainWorks Challenge, a national competition that engages college students in the design of on-campus green infrastructure solutions to address stormwater pollution. This year's winning projects showcased the environmental, health, economic, and social benefits of green infrastructure.

The project is called Operation C.L.E.A.N., Capacity enhancement with Landscape modification using an Ecological approach for Absorption and Natural recharge around the Engineering, Mathematics, and Computer Science (EMCS) building on campus. Features of Operation CLEAN green infrastructure (GI) includes interventions such as downspout disconnections, permeable pavement, underground cisterns, and retention areas integrated with real time sensor enabled operations

"Congratulations to University of Tennessee at Chattanooga's student team for receiving an Honorable Mention in EPA's national Campus RainWorks Challenge competition," said EPA Acting Region 4 Administrator John Blevins. "The team is being recognized for its innovative green infrastructure approaches in the Demonstration Project category."

For more information visit <https://www.epa.gov/green-infrastructure/2020-campus-rainworks-challenge-honorable-mention-demonstration-project-1>

## Upcoming Conferences

Municipal Wet Weather Stormwater Conference June 7-9, 2021 Huntsville, AL  
 KY/TN Water Professionals Conference August 15-18, 2021 Chattanooga  
 TN Engineers Conference September 12-14, 2021 Franklin  
 Tennessee Municipal League Conference September 18-21, 2021 Chattanooga  
 Tennessee Floodplain Management Conference October 12-14, 2021 Knoxville  
 Tennessee Environmental Conference October 25-27, 2021 Kingsport  
 TCAPWA/SWANA Annual Conference November 1-3, 2021 Memphis  
 Tennessee American Society of Landscape Architects Conference  
 November 19-22, 2021, Nashville

## Community-enabled Lifecycle Analysis of Stormwater Infrastructure Costs (CLASIC)



### Purpose of CLASIC

The CLASIC tool is a screening tool utilizing a lifecycle cost framework to support stormwater infrastructure decisions on extent and combinations of green, hybrid green-gray and gray infrastructure practices. Users can create scenarios of stormwater control measures including climate and land use projections to assess lifecycle costs, performance, and co-benefits associated with those scenarios.

**CLASIC Functions** CLASIC is a screening tool and is not intended for optimization of design. The scope of CLASIC is shown below.

#### CLASIC will enable users to

- Assess scenarios of stormwater infrastructure via functional unit analysis for robust decision making based on preferences to evaluate:
  - Regulatory compliance
  - Runoff volume reduction
  - Water quality
  - Social and environmental benefits
  - Lifecycle cost
- Couple financial decision with holistic consideration of benefits (primary and secondary)
- Conduct analysis from neighborhood to watershed scale

#### Analyses not included in CLASIC

- Site specific design of stormwater infrastructure
- Comparison of spatial distribution of infrastructure within sub-unit or subcatchment
- Algorithms for optimization of design

### CLASIC Tool Components

There are three main components to the CLASIC tool outputs: life cycle costs (LCC), Co-benefits and performance.

**Life Cycle Cost** – The LCC is structured to provide feasibility level municipal budget estimates over time for a variety of SCM construction and maintenance costs.

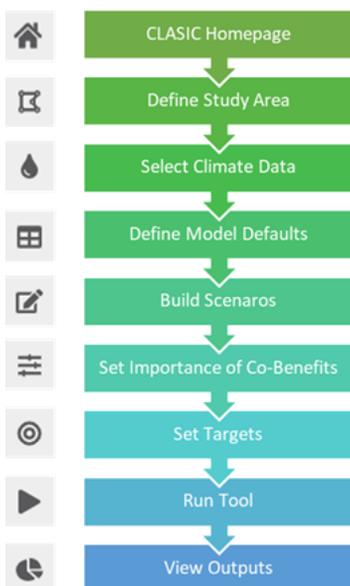
**Performance** – Performance of scenarios will be estimated in terms of hydrology (e.g. peak runoff and volume reduction) and pollutant load reduction.

**Co-Benefits** - The co-benefits analysis will be informed via multi-criteria decision analysis (MCDA) output. The MCDA provides quantitative output to compare co-benefits across scenarios of technology selection.

These three components of outputs are intended to work in tandem to inform decisions on scenarios. When a user views outputs, the user will have the option to create new scenarios based on knowledge gained from the previous scenario outputs.

### CLASIC Tool Steps

After you register for an account and/or login, icons will appear on the left to guide you through the steps of the CLASIC tool. Click on



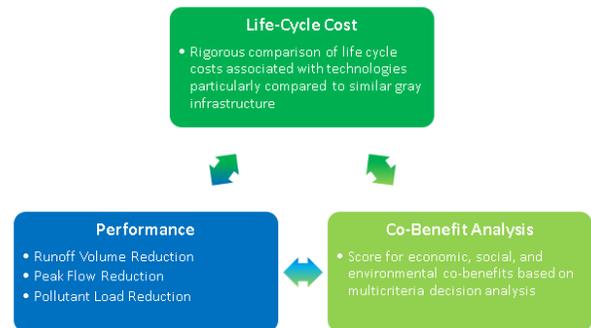
the Select Area icon on the left panel to get started.

### Guidance for Quick Runs

- The duration of precipitation data impacts CLASIC processing time. To decrease processing time, select a duration of precipitation data less than 10 years.
- Including a large number of subunits in your project selection area and/or adding a large number of technologies to a scenario can result in a long processing time. To decrease processing time, consider creating project areas with less than 10 subunits and/or scenarios that include less than 5 added stormwater technologies.
- When a project is created as a single subunit, the precipitation duration and number of technologies may be increased while still maintaining shorter processing times.

The creation of this tool was funded by the U.S. Environmental Protection Agency's (EPA) Office of Research and Development (ORD) through the grant opportunity "National Priorities: Life Cycle Costs of Water Infrastructure Alternatives" (EPA Grant Number: R836173). Additional information about the project is available through the EPA.

Link: [https://cfpub.epa.gov/ncer\\_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/10616/report/0](https://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/10616/report/0)



## TDEC Updates

On April 20, 2021, the TDEC Water Quality, Oil, and Gas Board met and approved the amended rules associated with stormwater permitting in Tennessee. It will be several months before the Rules become final. Once the Rules are final TDEC will then be able to begin the public notice process of reissuing or issuing Tennessee's Municipal Separate Storm Sewer System permits.

Here is the link to the board approved rule Chapter 5, Individual NPDES permits: [https://www.tn.gov/content/dam/tn/environment/boards/documents/board-of-water-quality,-oil-and-gas/2021-meetings/april/wqog\\_0400-40-05\\_finalized-approved-signed-copy\\_apr-20-2021.pdf](https://www.tn.gov/content/dam/tn/environment/boards/documents/board-of-water-quality,-oil-and-gas/2021-meetings/april/wqog_0400-40-05_finalized-approved-signed-copy_apr-20-2021.pdf)

Here is the link to the board approved rule Chapter 10, amending general NPDES permits: [https://www.tn.gov/content/dam/tn/environment/boards/documents/board-of-water-quality,-oil-and-gas/2021-meetings/april/wqog\\_0400-40-10\\_finalized-approved-signed-copy\\_apr-20-2021.pdf](https://www.tn.gov/content/dam/tn/environment/boards/documents/board-of-water-quality,-oil-and-gas/2021-meetings/april/wqog_0400-40-10_finalized-approved-signed-copy_apr-20-2021.pdf)

On May 11, 2021, the TDEC Division of Water Resources announced the notice of a proposed permit action and public hearing of its draft 2021 General NPDES Permit for Storm Water Discharges Associated with Construction Activity (Permit Number TN100000).

Here is the link to the proposed permit and the information related to the public hearing: <https://www.tn.gov/environment/ppo-public-participation/ppo-public-participation/ppo-water.html>

On May 12, 2021, the U.S. Environmental Protection Agency (EPA) announced the publication of its proposed 2022 Construction General Permit (CGP) in the Federal Register. EPA renews this permit every five years. The CGP regulates stormwater discharges from construction activities (including, but not limited to: clearing, grading, excavating, and stockpiling) that disturb one or more acres, or smaller sites that are part of a larger common plan of development or sale that disturb one or more acres. The proposed permit and fact sheet can be viewed at <https://www.epa.gov/npdes/proposed-2022-construction-general-permit-cgp-and-related-documents>.

The EPA's proposed CGP will be open for public comment for 60 days thru July 12, 2021. EPA encourages you to review the proposed permit and to submit comments through the Federal eRulemaking Portal at <http://www.regulations.gov> for the docket identification assigned to this permit, Docket ID No. EPA-HQ-OW-2021-0169. To assist you with your review, you may find it useful to consult the table summarizing the proposed changes to the CGP in the Proposed 2022 CGP Fact Sheet on pages 12 thru 14, as well as the discussion on pages 15 thru 19. The summary table also lists out the areas where EPA is requesting specific comment from the public (see pages 13 and 14). There is also a similar discussion in the Federal Register notice at pages 18 thru 29 of the pre-publication document.

The EPA will host at least one webcast during the week of June 14, 2021 that will provide an overview of the proposed 2022 CGP and an opportunity for participants to ask questions. The EPA will announce details of all webcasts and post webcast recordings at <https://www.epa.gov/npdes/stormwater-discharges-construction-activities>.

**Ann Morbitt** | Integrated Water Resources Consultant:  
Tennessee Department of Environment & Conservation Division of Water Resources  
711 R.S. Gass Blvd., Nashville, TN 37216 (615) 687-7119



### TNSA RESOURCES

**Webinars and Job Openings are listed on the TNSA Website**

**Link: <https://www.tnstormwater.org/webinars>**

**Link: <https://www.tnstormwater.org/job-openings>**

**Link: <https://www.tnstormwater.org/tnsatalks>**

**TNSA Stormwater Videos: Tennessee Stormwater Association You Tube Channel**

**TNSA Members have access to the Tresorit File Sharing program.**

**Please let Charlene DeSha know if you would like access.**

**Access links were sent to members in January.**

The Tennessee Stormwater Association is Tennessee's premier membership organization for stormwater professionals. TNSA's mission is to assist members with their local efforts to comply with State and Federal clean water laws; including stormwater regulations through EPA and TDEC (Tennessee Department of Environment and Conservation). TNSA's goal is to protect and improve the quality of the waters of Tennessee through the exchange of information and knowledge regarding design, construction, maintenance,



## Big Splashes at Waterways Save Water Drink Wine

Glasses clinked at Save Water Drink Wine in recognition of volunteers, partners, and businesses awarded for their activism and stewardship of local waterways.

Chattanooga non – profit, Waterways celebrated their inspirational work and people who make a difference last weekend at a gathering at Crabtree Farms. The organization’s annual event , Save Water, Drink Wine, introduced a Big Splash Award acknowledging area water champions for bringing awareness and stewardship to local watersheds. Waterways Executive Director, Mary Beth Sutton presented the accolades and handblown glass dotted cups created by local artists Prentice Hicks and Maryon Wright from Wauhatchie Glassworks. Attendees snacked on delights from Fud Vybez, Lupis, and Conga Latin Food and charcuterie from Pruetts Market and cheered with wines provided by Athens Distributing and Empire. Distributing and local beers from Wanderliger, Naked River, Odd Story, and Chattanooga Brewing.

Mary Beth explained the reason for the awards, “While many people only hear the bad things that corporations and others do, we decided to celebrate the GOOD things! Around our region are so many corporations and community citizens who do good work for our environment, for our waterways, that go unnoticed, so we decided to recognize them with our first ever Big Splash awards for area water champions. “

The inaugural awardees are as follows:

### Volunteer Water Champions

Local water rat and member of TN Valley Canoe Club and South Chickamauga Creek Greenway Alliance, Jim Ledbetter received one of two prestigious “Volunteer Water Champion” awards. Jim is one of those folks who is always willing to help out and provides so much guidance in protecting our creeks and rivers. He is always on the water, is amazing at white water canoeing and simply loves our rivers and streams. As a longtime member of the South Chickamauga Creek Greenway Alliance, he coordinated the removal of a huge debris jam/ snag on South Chickamauga Creek which was severely eroding the streambank around the edges and also helped create the blueway paddling trails. He has also volunteered with our Gear Closet and our outdoor classroom projects as well as the Bonnaroo Cleanup!

Fellow volunteer Corinne Giagnorio, an ignition switch when it comes to getting kids and communities to participate in their environments, took home the other Big Splash award in the category. Corinne quietly goes about protecting her environment in everything she does. Not only does she assist us with our education programs, she started the Thrasher Elementary Environmental Club and the Signal Mountain Stewards environmental group. She recently helped lead the Weed Wrangle at a park on Signal Mountain. She is distressed by folks who litter and so will always join us for creek clean ups and has been to nearly every Bonnaroo Clean up we have had. She is a true environmental champion!

### Citizen Water Champion

Major General Bill Raines is a commercial realtor by trade, but we like to think of him as our tree hugger in training. Our unlikely partnership came about because of our green infrastructure grant, lots of education from landscape architect, Joe Sawyer, and also the Skyuka Hall students! The Stormwater wetlands Bill installed at Four Squares were designed in part by students at Skyuka Hall, which was located in Four Squares at that time. Those students also monitored the amazing numbers of species that rapidly colonized those wetlands. He was amazed! At the grand opening of the wetland, Bill provided monarch and fritillary butterflies for the kids to release. Bill also was one of the geniuses behind our My Tennessee Award program to reward homeowners for protecting our waterways by what they do in their yards. He continues to help through volunteer work as well!

### Corporate Water Champion

#### Barge Design Solutions

The leadership of Barge Design, Joe Sawyer and Matt Stovall, are some of those folks who will help others in whatever way they can. It’s in their DNA. Joe was the one to teach Bill Raines the most about Green infrastructure. Barge has also designed many of the Riverwalk and greenway sections, bringing people to nature and ensuring they are accessible for all people. Barge has also adopted a section of Mountain Creek and are actively stewarding their segment. They are making an impact both through their paid work and through their volunteer work to make an incredibly positive impact on our waterways and in helping reconnect people with nature.

Waterways works with communities across the Southeastern US to bring awareness and stewardship to their watershed. Originated in St. Lucia in 2004, the organization has since evolved from a small student environmental group to an international organization focused on watershed health and restoration. Waterways will be expanding the Big Splash awards in 2022 to include a People’s Choice award! Sign up for their email list via the website, learn how to nominate a water champion and get involved in your Waterways. [www.mywaterways.org](http://www.mywaterways.org)

Contact: Mary Beth H. Sutton , Executive Director 423-413-0471 [marybeth@mywaterways.org](mailto:marybeth@mywaterways.org)

## **TENNESSEE RIVER BASIN NETWORK UPDATES**

### **2021 CELEBRATION AWARDS CALL FOR NOMINATIONS**

**PURPOSE:** Multiple partners are working together to host and facilitate the Seventh annual Tennessee River Basin Network meeting in August 2021. We are focused on bringing partners together to continue to reach our collective vision of a Tennessee River Basin where aquatic and human life thrive. We continue the tradition of linking the Network meeting with the 2021 Tennessee River Basin Celebration Awards Banquet. This celebration will recognize successes and efforts of dedicated advocates for the Tennessee River, such as non-profit organizations, community groups, and watershed partners. An award of \$5,000 will be given to each recipient.

**AWARD CATEGORIES:** Communication/Outreach & Science/Management -

Submit nomination form with accompanying documents electronically to

Gillian Bee: [gbee@trbnetwork.org](mailto:gbee@trbnetwork.org) Nomination Deadline: June 4,

Questions? Contact Gillian Bee (970-342-6034) Link for more information and nomination form: <https://www.trbnetwork.org/annual-awards>



### **TENNESSEE SHADE YOUR STREAM GRANT**

The Tennessee River Basin Network is seeking proposals for educational riparian restoration projects in Tennessee that focus on live staking. Live staking is a cost effective, and landowner friendly practice, which reintroduces plant life directly into streambanks.

Non-point source pollution poses many threats to aquatic and human life across the Tennessee River Basin.

Shade Your Stream is a riparian education concept that uses an extremely cost-effective method to restore riparian buffers through soft-touch restoration techniques, also known as livestaking. More detailed information about the Shade Your Stream program and how it is has been implemented in North Carolina and Georgia can be found at [www.shadeyourstream.org](http://www.shadeyourstream.org).

Total Funding: \$42,000 | Awards between \$5,000 - \$10,000 (higher amounts may be considered with justification).

Visit the TRBN for more information: <https://www.trbnetwork.org/>

## **8th Annual Nashville Urban Runoff!**

### **Call for WQ Booths & Sponsorships!**

Join us August 7, 2021, at Shelby Park for the 8th Anniversary of the Nashville's Urban Runoff 5K! Nashville's Metro Water Services, TDEC and the Tennessee Stormwater Association have teamed up together once again to host the Urban Runoff 5K and Water Quality Festival!

Dogs on leashes and strollers welcome! We'll have a fun and educational Water Quality Festival with a bouncy house and a photo booth for the whole family to enjoy from 6:30-10:30.

For more information about the race, please visit our Facebook Page or our TNSA 5K webpage. Thank you to all our Sponsors over the last 7 years!

If you are interested in Sponsorship Opportunities or participating in our Water Quality Festival, please contact Jennifer Watson ([jennifer.watson@gallatin-tn.gov](mailto:jennifer.watson@gallatin-tn.gov)) or Charlene DeSha ([Charlene@tnstormwater.org](mailto:Charlene@tnstormwater.org))



## **TENNESSEE STORMWATER ASSOCIATION**



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**We're on the web!**  
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