



## **Sumter Stormwater Solutions**

### **Meeting Agenda**

Tuesday, October 29, 2013  
10:00 AM – 12:00 PM  
North Hope Center  
904 North Main St  
Sumter, SC 29150

*Purpose of Meeting:* Continuing Development of Stormwater Education Plan and Decision-Making for Sumter Stormwater Solutions

*Meeting Facilitators:* Mary Caflisch & Jolie Brown, Clemson Carolina Clear

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10:00 – 10:05	Welcome & Meeting Purpose	Mary Caflisch & Jolie Brown
10:05 – 10:20	Outreach Activity Updates	Mary Caflisch & Jolie Brown
10:20 – 10:30	Statewide Carolina Clear Updates	Mary Caflisch
10:30 – 10:45	Shorescaping Project Update	Mary Caflisch & Jolie Brown
10:45 – 11:00	Stormwater Utility Credit Workshop Discussion	All present
11:00 – 11:55	Stormwater Education Plan Development for 2013-2014	All present
11:55 – 12:00	Wrap-up	Mary Caflisch & Jolie Brown

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## **Attendance:**

Mary Cafilisch	Carolina Clear
Jolie Brown	Carolina Clear
Teige Elliot	City of Sumter
Alfred Conyers	Sumter County
John Merkel	Sumter County
Dan Geddings	Sumter County
Geoff Smith	URS

## **Minutes:**

The meeting began with a review of recent and upcoming activities, as well as ongoing projects.

### ***Recent Activities***

- Turkey Creek Planning meeting – Aug. 6, URS.
- Rain Barrel Workshop – Aug. 15, Sumter Co. Public Works. 14 participants, 13 barrels made.
- River Sweep Cleanup – Sept. 21, Berry Street
- Storm Drain Marking
  - Sept. 11, Tudor Place Subdivision, 1 volunteer
  - Sept. 18, The Arbors Subdivision, St. Francis Xavier High School, 10 volunteers. (A second marking was scheduled for Oct. 23, but this was canceled and will be rescheduled).
- Carolina Yards Display at Sumter County Fair – Sept. 24-29
- Enviroscape presentation at Shaw Air Force Base Youth Center – Oct. 22
- Carolina Yards Display at Shaw AFB Energy Fair – Oct. 24. Jolie reported that this was a successful event as there are many retirees who regularly visit the Shaw AFB Exchange. The attendees were eager to learn about the Carolina Yards program, and were also interested in rain barrel workshops and litter pickups.

### ***Upcoming Activities***

- Rain Garden Workday and Shoreline Planting – December 4, Patriot Park
- Rain Barrel Art Contest for Schools – January-April, 2014
  - Announced early so teachers can plan to incorporate it into their spring lesson plans.
- St. Francis Xavier High School plans to continue marking storm drains once a month. They will complete The Arbors neighborhood in November and begin Stillwater neighborhood next. Pat McDaniel at the Clemson Extension office is interested in marking streets in Lakewood neighborhood, also.

### ***Carolina Clear Statewide Updates***

Mary Cafilisch presented updates on the on telephone survey instrument, media and online watershed management and protection courses in development.

The telephone survey for the Sumter area ran from September through October 24<sup>th</sup>. Carolina Clear worked with Clemson's Sociology department to develop a set of questions, using the questions that we submitted to them last fall. The survey was presented to a 100 citizen pilot group, and a few changes were made based on the results of the pilot survey. A media release was sent out two weeks ago. Calls are now starting in the other consortium areas throughout the state. The 2013

survey responses will be compared with the responses from the 2009 phone survey, as well as with the responses collected in other regions of the state.

Mass Media: Carolina Clear has a new commercial for the Carolina Yards program. It is currently airing on Time Warner Cable through the end of October. The commercial is a marketing piece rather than an informational piece, designed to sell the Carolina Yards concept and direct people to the many resources available on the Carolina Yards website.

Carolina Clear is developing several online water resource courses. These include Stormwater BMP Certification, Master Pond Manager Certification, Landscaper/Contractor Certification, and Watershed Management. These courses are expected to be ready for the public by winter 2015.

### ***Shorescaping Project Update***

Progress is being made on the shorescaping project planned for Patriot Park. Because of the species chosen, the majority of this project will be completed in the spring of 2014, which is the proper time for seed germination. However, we will plant some perennial shrubs at the water's edge in December. This will be done in conjunction with the rain garden work day already scheduled for December 4<sup>th</sup>. Species planted will be buttonbush (*Cephalanthus occidentalis*) and Virginia sweetspire (*Itea virginica*). Some of these will also be planted in the lower end of the rain garden to replace the ferns that did not survive the first winter. Dan Geddings recommended purchasing at least 1-gallon sized plants so that they can withstand browsing by deer, which is a common problem in the park.

As agreed upon at the last meeting, the main phase of the shorescaping project will include tilling the site to remove rills and gullies, spreading topsoil, seeding with a native grass and wildflower mix, then covering the site with a biodegradable erosion control blanket. In August, Jolie Brown presented a proposal to the Sumter Soil and Water Conservation District, and they agreed to provide a tiller for the day. Sumter County will supply the topsoil, which will be spread at a 3-6 inch depth. Carolina Clear will purchase the seed and erosion control blanket. A trencher will be needed to install the erosion control blanket. Sumter County does not have a trencher, but said that one could be rented for the day. The seed mix to be planted includes two grasses: big blue stem (*Adropogon gerardii*) and Indian wood oats (*Chasmanthium latifolium*), two reeds: common bur reed (*Sparganium eurycarpum*) and common rush (*Juncus effuses*), and four perennial flowers: swamp milkweed (*Asclepias incarnata*), swamp rose mallow (*Hibiscus moscheutos*), black-eyed Susan (*Rudbeckia hirta*), and blue flag iris (*Iris versicolor*). Dan pointed out that we need to be sure that whoever will be maintaining the site understands that this area should not be mowed (except possibly once at the end of the season). Mary or Jolie will speak to Steve Hostetler with the Sumter County Parks Department. Signage will also be used to inform park visitors about the plants in this project.

### ***Stormwater Utility Credit Workshop Discussion***

The Stormwater Utility Credit Workshop was delayed from earlier this summer to give the City of Sumter time to prepare its own credit system to present at the workshop. However, that credit system needs more time to be developed. Commercial properties will be receiving their tax bill from Sumter County in the next two weeks, and the first week of December is deadline to file. This does not give us enough time to organize a workshop in time for the attendees to implement what they have learned this year. The group decide to wait until March to hold the workshop. This

is the time of year when businesses do their budget planning, and would also most likely coincide with the City and County's certificates of coverage for new NPDES MS4 stormwater permit.

A shortened version of the utility credit presentations should also be given to County and City Council. Council members need to be able to explain the utility credit system to constituents. For this year, the Chamber of commerce has already sent out information to businesses on the utility credit application process.

### ***Year 6 Education Plan of Work Discussion***

Mary presented a rough draft of the education plan for 2012-2014 for the group to consider and add to as needed. Geoff Smith reminded the group that the new MS4 permit is coming out soon. After that is issued, the group will need to review the new permit requirements and make sure the Education Plan adequately meets those requirements. Because the plan is a living document, it can be updated at any point as needed. Below are the new activities that were added or discussed. The draft plan has been updated, and a copy is included at the end of these minutes.

#### ***General public activities***

Sumter County is planning to build a new dog park, which will most likely be located at Patriot Park, although the location has not been definitely decided on. This will be a good opportunity for public outreach on pet waste. The group had previously discussed installing pet waste stations at Patriot Park. Even if the dog park is built elsewhere, we still plan to install the stations at Patriot Park. A Dog Day event similar to the one held at Dillon Park last year will accompany the installation. There has been some negative public feedback about the dog park recently. People have been complaining about the County spending money on dogs instead of people. Jolie offered to write an article about the dog park, presenting it in a positive light.

Jolie has identified a spot in Dillon Park that may make a good rain garden. A site visit was planned for Dec. 4 to evaluate the site. If the site is suitable, we will plan a rain garden demonstration/installation for the fall.

Sumter County already distributes brochures on illicit discharge and illegal dumping during inspections. It was suggested that these brochures also be given to Deputy Horton with the Sumter County Sheriff Department to distribute when responding to littering and illegal dumping violations. We will also start bringing them to distribute during cleanups. When we are doing a cleanup near a neighborhood, people who live nearby often stop to ask who we are and what we are doing. These brochures would be a great way to educate them. A summer cleanup will be added to the list of scheduled cleanups, for a total of three per year.

Shaw Air Force Base Energy Fair and Woofstock will be added to the list of annual events to attend. Mutt Strut was October 26<sup>th</sup>, so we just missed it, but it will be added for the following year.

#### ***Youth Activities***

Currently, Cherryvale Earth Day is the only school Earth Day festival listed. This will be changed to include other school Earth Day events. Jolie reminded the group about the teacher award program that was agreed upon at a previous meeting. This will be discussed further at the January SSS meeting. We will add a student stormwater video contest. Middle and high school students will be asked to submit 30-60 second clips talking about preventing water pollution. We discussed broadcasting the winning video statewide or at least on the local cable station. Mary will discuss media options with Katie Giacalone. This is planned for the Fall Semester of 2014.

#### ***Activities for Elected and Appointed Officials***

Presentations on the stormwater utility credit process, new NPDES MS4 stormwater permit and the Turkey Creek Watershed Management Plan will be given to city and county councilmembers.

### *Professional Audience Activities*

In conjunction with the rain garden installation at Dillon Park, a technical workshop will be given. Rain gardens are a good example of a practice that can earn stormwater utility credits for a site. A technical presentation will also be given on the new MS4 permit.

### *Activities for Businesses*

To reach business audiences, a brochure will be created on illicit discharge specifically intended for businesses such as equipment washing, mobile car washes, carpet cleaning and dry cleaners. The brochure will stress the environmental reasons for disposing of liquids properly. The legal aspect will be included but not the primary focus, simply letting businesses know that the City and County have the ability to take action.

A presentation for landscapers will be given, probably in conjunction with the rain garden workshop. We discussed starting a green business program. This could be coordinated with the Chamber of Commerce "Image Awards." Shaw AFB, Continental Tire, and Sumter Transport STC are potential partners. This could be possibly be promoted through the Better Business Bureau.

### ***Turkey Creek Watershed Management Plan Update – Geoff Smith***

Geoff Smith reported that a draft of the Turkey Creek Watershed Management Plan will be completed by October 30 and distributed to those interested in reviewing it. The draft needs to be reviewed by November 1. The watershed management plan focuses on four priority projects. These projects are intended to address 60% out of the 89% reduction required for fecal bacteria in Turkey Creek. The remaining 30% reduction will be achieved with future green infrastructure projects over the next 5-10 years. The projects are:

1. The first project will be a combination of constructed wetlands, stream relocation, and/or infiltration trenches along Turkey Creek itself.
2. A complex of BMPs will be installed north of CSX line. This is expected to provide 40% of the required bacteria removal.
3. A constructed wetland/bioretenion area will be installed on a Sumter County-owned parcel on Fulton Street. This location could also be developed as park or an education facility.
4. A retrofit will be completed for the outlet structure of a pond in the lower part of the county near Snake Branch.

Within the City of Sumter, tree planter boxes and catch basin filters will be utilized where possible. The portion of the watershed within the incorporated city is small. This leaves limited opportunity for increasing treatment. As these projects go forward, Sumter Stormwater Solutions will stay involved to incorporate education about the projects when appropriate.

With no further business, the meeting concluded at 12:00 pm.

ADAPTIVE Stormwater Education Plan		Year 6 (2013-2014) Sumter Stormwater Solutions			Living Document (last updated 11/8/2013)	
Lead Service Provider	Activity	Target Geography/ Land Use	Participation by other Service Providers	Location and Date Delivered	Assessment Type	
<b>General Public</b>						
Clemson Extension	Stormwater awareness television commercial	Sumter County	Carolina Clear	Fall 2013 & Spring 2014		
Clemson University	Water quality segments on <i>Making It Grow</i> television show.	Statewide	Carolina Clear			
Clemson University	Water quality segments on <i>Your Day</i> radio program	Statewide	Carolina Clear		Telephone/ web survey	
Sumter County, City of Sumter	Radio commercials featuring stormwater messages on Miller Communication Stations	Sumter County	Carolina Clear			
Clemson Extension	Water Quality articles written for <i>The State</i> newspaper	Sumter County				
Clemson Extension	Water Quality article written for <i>the "Keeping Sumter Beautiful"</i> column in the <i>Sumter Item</i> newspaper	Sumter County				
Carolina Clear	Bi-monthly column on stormwater in the Lakeside Magazine	Sumter County		Every two months		
Carolina Clear	Sumter Stormwater Solutions website	Sumter County		Ongoing	Number of page views	
Carolina Clear	Midlands Stormwater Consortiums Facebook page	Midlands		Ongoing	feedback on page	
Santee Riverkeeper	Santee Riverkeeper Facebook page	Statewide		Ongoing	feedback on page	
Carolina Clear	<i>H2Ownership</i> fact sheets on HGIC website (six factsheets total)	Statewide		Online		
Carolina Clear	Take Action E-Newsletter	Sumter County		Monthly, email		
Carolina Clear	Pet waste posters and post cards distributed at veterinarian offices	Sumter County				
Carolina Clear	Pet waste doggie bandanas distributed through Petco to promote picking up pet waste	Sumter County	Petco			
Sumter County	Illicit discharge and illegal dumping brochures distributed during inspections, violations, cleanups and events	Sumter County	Sumter Sheriff's Dept.	Ongoing		
Carolina Clear, Sumter County, City of Sumter	Storm drain marking volunteer program with accompanying door hanger	Sumter County	volunteer groups	Ongoing	drains marked	
Sumter County	Storm drain marking by Sumter County and City of Sumter Staff	Sumter County	Carolina Clear	Ongoing	drains marked	
Sumter County Parks	Pet Waste Stations installed at Patriot Park	Sumter County	Carolina Clear, Conservation District			

Lead Service Provider	Activity	Target Geography/ Land Use	Participation by other Service Providers	Location and Date Delivered	Assessment Type
<b>General Public</b>					
Carolina Clear	Displays at Sustainable Sumter Earth Day Celebration	Sumter County	City of Sumter, Sumter County, Master Gardeners	April 2014, Swan Lake	
Carolina Clear	Displays at Iris Festival	Sumter County	Sumter Master Gardeners	May 2014, Swan Lake	
Carolina Clear	Displays at Sumter County Fair	Sumter County	Master Gardeners	September 2014, Sumter Fair Grounds	
Carolina Clear	Display at Shaw Energy Fair	Sumter County	Shaw Air Force Base	Fall 2014, Shaw AFB	
Carolina Clear	Earth Day stream cleanup	Sumter County	Sumter County, City of Sumter	Spring 2014	lbs. trash collected
Carolina Clear	Summer stream cleanup with kayaks	Sumter County		Summer 2014	lbs. trash collected
Carolina Clear	River Sweep stream cleanup	City of Sumter	Sumter County, City of Sumter	September 2014	lbs. trash collected
City of Sumter	Sumter neighborhood cleanups	City of Sumter	City of Sumter		lbs. trash collected

<b>Youth / K-12 / Teachers</b>					
Carolina Clear Conservation District	Water quality presentations for schools	Sumter County			
Carolina Clear, Boy Scouts of America	Soil & Water Conservation merit badge at Boy Scout Hornaday Award Weekend	Statewide		March 2014, Sumter Fairgrounds	
Carolina Clear	School Earth Day festivals	Sumter County		April 2014	
SCDNR	SC Envirothon competition	Statewide	Central Carolina Tech, Carolina Clear	Spring 2014, Sandhills REC	Team scores
Carolina Clear	Watershed interactive whiteboard lessons	Sumter County		Ongoing	Teacher survey
Carolina Clear	Environmental Teacher of the Year Award	Sumter County	Sumter County Schools	Spring 2014, Sandhills REC	
Carolina Clear	Rain barrel art contest for schools	Sumter County	Sumter County Schools	Jan.-April 2014	Teacher survey
Carolina Clear	Student stormwater video contest	Sumter County	Sumter County Schools	Fall 2014	Student survey

Lead Service Provider	Activity	Target Geography/ Land Use	Participation by other Service Providers	Location and Date Delivered	Assessment Type
<b>Elected and Appointed Officials and High-Level Staff</b>					
Sumter County, City of Sumter	Presentations on stormwater program for county and city councils, administration and department heads	Sumter County			
City of Sumter	Presentation on utility rate study to Sumter City Council	Sumter County	URS		
Sumter County, City of Sumter	Presentation on new NPDES MS4 stormwater permit	Sumter County	Carolina Clear	Winter 2014	
Sumter County, City of Sumter	Presentation on stormwater water utility credit program for county and city council members	Sumter County	Carolina Clear	Winter 2014	

<b>Professionals: Contractors, Engineers, Developers, Landscape Architects</b>					
Clemson University	CEPSCI (Certified Erosion Prevention and Sediment Control Inspector) course	Midlands			Exam
Clemson University	CSPR (Certified Stormwater Plan Reviewer) course	Midlands			Exam
Carolina Clear, Sumter County	Erosion control and shoring demonstration at Patriot Park	Sumter	Conservation District	Spring 2014	
Sumter County, City of Sumter	Presentations on stormwater utility credit program and BMP design for engineers	Sumter County	Carolina Clear		
Sumter County, City of Sumter	Presentation on new NPDES MS4 stormwater permit	Sumter County	Carolina Clear	Winter 2014	
City of Sumter	Construction site stabilization factsheet and technical workshop	Sumter County	Carolina Clear		
Carolina Clear	Low Impact Development presentations (LID)	Sumter County			
Carolina Clear	Promote examples of LID in the Sumter area	Sumter County			
Carolina Clear	Rain garden installation and professional workshop	Sumter County	Sumter County	Fall 2014	



Lead Service Provider	Activity	Target Geography/ Land Use	Participation by other Service Providers	Location and Date Delivered	Assessment Type
<b>Homeowners &amp; Homeowner Associations</b>					
Sumter City-County Planning	"Sumter Connectivity & Greenways Master Plan for Shotpouch Creek" presentations	Sumter County			
Clemson Extension	Master Gardener training class, including Carolina Yards presentation	Sumter County	Sumter Master Gardeners	Jan.-May 2014, extension office	Exam
Master Gardeners	Rain Garden volunteer workdays	Sumter County	Carolina Clear		
Carolina Clear	Backyard Landscaping Series featuring Carolina Yards and Neighborhoods program	Sumter County	City of Sumter, Clemson Extension	February 2014	
Carolina Clear	Rain barrel workshops	Sumter County	Sumter County		Survey

<b>Commercial Citizens</b>					
Sumter County, City of Sumter	Stormwater presentation for Leadership Sumter class	Sumter County		Spring 2014	
Carolina Clear	Grease disposal handouts distributed to food vendors at Sumter County Fair	Sumter County		Sept. 2014, Sumter Fairgrounds	
Carolina Clear	Illicit discharge brochure for high risk business types	Sumter County			
Carolina Clear	Pollution prevention presentations for automotive repair classes	Sumter County	Central Carolina Tech		
Carolina Clear	Outreach materials for restaurants on Fat, Oil and Grease management	Sumter County			
Carolina Clear	Outreach materials for commercial car washes	Sumter County			
Sumter County, City of Sumter	Presentations on stormwater utility credit program to businesses and industry	Sumter County	Carolina Clear		
Carolina Clear	Rain garden workshop presentation for landscapers				
Carolina Clear	Develop strategy for Green Business program	Sumter County			