

# Annual Report

Watershed Stewardship Program  
2017-2018

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During the  
2017-2018 reporting year,  
18,996 community members participated  
in the Watershed Stewardship Program.

Volunteer Programs:  
2,226 participants,  
774 training hours,  
5,202 volunteer service hours

Community Programs:  
1,869 participants, 108 hours

School Programs:  
14,901 students, 388 instruction hours

*This report summarizes Cobb County Water System's program to educate the community about issues impacting local water quality, to foster good habits and responsible behaviors, and to promote an ethic of respect for and a connection to our natural resources.*

Cobb County's Watershed Stewardship Program is part of Cobb County Government's effort to educate residents of the county on various issues related to improving the quality of life for ourselves and future generations. The activities and events facilitated by the Watershed Stewardship Program are designed to fulfill Cobb County Water System's education requirements as outlined by the Metro North Georgia Water Planning District and the Georgia Environmental Protection Division.

## Vision

We envision all Cobb County residents becoming ecologically literate, understanding their role in water quality and environmental health.

## Mission

Cobb County's Watershed Stewardship Program promotes respect for our environment by educating the community about the connection between behavior and water quality.

## Message From Watershed Stewardship Program (WSP) Staff

Community outreach and pollution prevention education are the core focus of the WSP. Outreach is the basis for all the programs we develop and facilitate. Educating by engaging community members to be active stewards of our water resources while promoting healthy ecological habits will remain a top priority for this staff. Since 2001, when we launched the WSP, we have utilized a variety of platforms to engage Cobb's residents and visitors. In reflecting on the 2017-18 reporting year, our approach for conducting outreach has taken a shift in two ways: expanding the use of technology to empower community members as Community Scientists, and focusing on more effective ways to achieve the high standards set by professional associations that will sustain us as a recognized program of excellence.

While our local efforts continue to develop, as in most professional fields, opportunities come paired with challenges. With national and state cuts on environmental and educational programming, the field of environmental education is undeniably more wide-reaching than ever. Concern for environmental health and increasing ecological awareness remains in the forefront of our work. We look to the coming year as one that will inspire colleagues, educators, and program facilitators who champion environmental health and quality. We recognize this time as an opportunity to strengthen our programs and intensify how we motivate our constituents, participants, and community leaders.

Some of our program highlights from the past year that promoted such awareness here in Cobb County include: the implementation of our new GIS Collector App for our Storm Drain Marking and Frog Monitoring programs; the continuation of our partnerships with National Park Service and Chattahoochee Parks Conservancy that provides Title 1 youth with the Every Kid in A Park program; and our partnership with Keep Cobb Beautiful to facilitate household hazardous waste amnesty and pharmaceutical take back events. The WSP, and our environmental education partners, provide opportunities for all to get involved and learn more about the connection between ourselves and the environment in which we live through a variety of ongoing stewardship projects. Our home, the community where we live, is a source of biological, cultural, and historical diversity and provides for our basic needs. Join us at a stewardship event so we can grow together as an environmentally healthy community.

-The Cobb County Watershed Stewardship Program

# SUMMARY OF ACTIVITY BY WATERSHED

	Water Quality Monitoring	Waterway Clean-ups	Storm Drain Marking	Privet Pulls	Community Education	School Outreach
<b>Chattahoochee</b>	•	•			•	•
Buttermilk						•
Mud	•		•		•	•
Mulberry	•					
Nickajack	•	•		•		•
Noses	•	•	•			•
Olley	•	•	•		•	•
Poplar	•					•
Powder Springs					•	•
Rottenwood	•	•			•	•
Sewell Mill	•	•	•	•	•	•
Sope	•	•	•		•	•
Sweetwater			•			•
Ward	•	•	•			•
Willeo	•	•			•	•
<b>Etowah</b>	•	•			•	
Allatoona	•	•	•		•	•
Butler	•	•			•	•
Noonday	•	•	•		•	•
Proctor	•	•				•
Rubes	•	•		•	•	•

# COMMUNITY PROGRAM ACCOMPLISHMENTS

Cobb County Watershed Stewardship offers free ecology workshops throughout the year including providing the training and tools needed to be a monitoring volunteer.

During the 2017-2018 reporting year, the value of Cobb's volunteer watershed stewards is estimated at \$130,830. *Based on the 2017 estimated value of volunteer time for Georgia (\$25.15 published by Independent Sector).*

## Volunteer Opportunities

### Adopt-A-Stream Chemical Monitoring

*246 volunteers trained, 328 monitoring events, 1,325 service hours*

Chemical monitoring consists of collecting water samples and testing for pH, levels of dissolved oxygen, temperature, and conductivity. These chemical tests gather information about the aquatic habitat and its ability to sustain life. Participants are required to attend a certification workshop and adopt their site for monthly monitoring.

### Adopt-A-Stream Macroinvertebrate Monitoring

*22 volunteers trained, 12 monitoring events, 496 service hours*

Participants monitor the population and diversity of benthic macroinvertebrates, aquatic insects, and mollusks that act as bioindicators of water quality. Studying the diversity of organisms at a site gives a general picture of water quality. Individuals interested in macroinvertebrate monitoring are required to attend a certification workshop, adopt their waterway site, and commit to monitoring once per quarter.

### Adopt-A-Stream Bacteria Monitoring

*129 volunteers trained, 138 monitoring events, 225 service hours*

Volunteers learn how to monitor *E. coli* levels in their streams. *E. coli* is an indicator organism that is often used to assess the water quality. Monitoring levels of *E. coli* can help identify possible sources of pollution. This workshop focuses on proper collection of a water sample, processing samples for incubation, and interpretation of results. Volunteers must attend a certification workshop and adopt their site for monthly monitoring.

### Adopt-A-Stream Watershed & Visual Monitoring

*78 volunteers trained, 3 monitoring events, 190 service hours*

This is two workshops in one! We start with "Getting to Know Your Watershed," which includes mapping your watershed, learning how human activity can impact a watershed, identifying sources of pollution, and discussing how to address non-point source pollution. Next, we assess the physical health of your stream and its habitats using the Adopt-A-Stream protocol for Visual Stream Assessment.

### Frog and Toad Monitoring

*14 volunteers trained, 34 monitoring events, 34 service hours*

Cobb County residents are learning to identify frog and toad vocalizations and recording their observations to collect data on local amphibian populations. Once trained and a monitoring route is registered, participants take a walk and complete a frog call survey.

### Waterway Clean-ups

*1,431 volunteer participants, 89 events\*, 1,966 service hours*

Cobb County asks residents to help clean local waters and raise awareness about waterway health. Scout groups, church groups, schools, and homeowner associations across the county are provided with gloves, bags, and planning assistance throughout the year to encourage trash removal efforts. \*Calculation includes GA AAS's volunteer reporting of cleanup activities during monitoring events. 66 small collection events were recorded via this mechanism.





## Storm Drain Marking

*84 volunteer participants, 16 events, 181 service hours, 415 drains marked*

Rain water runs off the landscape from roads, driveways, lawns, rooftops, and parking lots and carries pollution into our water. In addition, any litter on roads will wash into streams through the storm drain system. To emphasize the connection between runoff and water pollution, volunteers are helping mark storm drains around Cobb County. Participants are provided with marking kits including aluminum markers, adhesive, gloves, garbage bags, and education materials.

## Watershed Stewardship Fair - March 28, 2018

*90 volunteer participants*

The Watershed Stewardship Fair is a data sharing event that showcases volunteer projects. Volunteer groups are invited to create a display and share their initiatives during the event. Participants are given a chance to tour the Water Quality Laboratory. Watershed Stewardship Awards were presented for the Garden Volunteer of the Year, New Volunteer of the Year, and Excellence in Data Collection.

## Wildlife and Rain Garden

*70 volunteer participants, 36 events, 131 service hours*

Community volunteers continue to assist with site maintenance including new plant installations, pruning, seed propagation, weeding, labeling, and leading tours. Participants include local master gardeners, community members seeking service hours, and those interested in gaining practical gardening experience. Weekly project days, currently every Thursday morning from 9-11, provide a consistent opportunity for those interested in helping. Participants also learn about stormwater pollution prevention and stewardship practices.

## Privet Pulls

*57 participants, 3 events, 114 service hours*

The removal of invasive Asian privet has become a popular stewardship project, especially with older students seeking community service hours. Volunteers seeking to organize a project are asked to complete a project proposal, identifying the site location and vegetative waste disposal plan. WSP assists by providing tools and logistical support. In addition, we are working with GA Native Plant Society and Cobb County Parks to help recruit volunteers for ongoing privet removal efforts at Heritage Park along Nickajack Creek.

## Watershed Internships and Mentorships

*5 volunteer participants, 540 service hours*

WSP hosted 4 student interns during the summer of 2017. Two were full-time and paid through our Experiencing Cobb County Hands On (ECCHO) program, and two were part time volunteers. We also hosted a college student volunteer intern over the fall and winter months. Duties included assisting with community outreach programs, prepping for service projects, and shadowing field staff with routine duties. In addition, we hosted one high school student intern this year. The student, a senior from Kennesaw Mountain High School, interned during the spring 2018 semester. We also have three students working with us over the summer of 2018. One student has started her project, working in our Wildlife and Rain Garden.



## Chattahoochee Volunteer Challenge

*77 participants, 6 events, 154 service hours\**

We partnered with National Park Service to incentivize service project participation. 3 registered groups competed to receive a free ranger-led rafting trip. Osborne High School logged the most service hours this year. We plan to continue offering the *Chattahoochee Challenge* in the 2018-2019 school year. \*This data is reflected in each of the volunteer service programs so numbers are not included again in our summary calculations.

# Summary of Volunteer Activities by Watershed

## Stewardship Projects - Chattahoochee

WATERSHED	GROUP	# SITES	YEAR INITIATED	ACTIVITY TYPE
Mud Creek	Morica Bellotto & Kevin Ranke	1	2017	SD
Mud Creek	Lovinggood Middle School	1	2018	SD
Mud Creek	Ranke	1	2018	SD
Mud Creek	Dew Place	1	2017	CH
Mud Creek	The Awesomes	1	2018	AN
Mulberry Creek	Friends of Mulberry Creek	1	2003	CH, BAC
Nickajack Creek	Keep Smyrna Beautiful	9	2010	CH, BAC
Nickajack Creek	SG5	1	2011	CH
Nickajack Creek	Chattahoochee Challenge	2	2014	PP, CL
Nickajack Creek	Griffin Middle School	1	2017	CL
Nickajack Creek	Birney16	1	2017	CH
Noses Creek	McEachern High AP Environmental Science	1	2007	CL
Noses Creek	Daydreamers	1	2015	CH, CL, BAC
Noses Creek	Kahle	1	2018	SD
Noses Creek	Nancy Payne	1	2017	BAC
Olley Creek	Donna-n-Camen	1	2012	CH
Olley Creek	WSP Rivers Alive/Stewardship Mob	3	2014	CL, SD
Olley Creek	Olley Creek Volunteers	1	2017	CL
Olley Creek	Full Media	1	2017	CL
Olley Creek	Eric Budd	1	2017	CL
Olley Creek	Osborne High School	1	2017	CL
Poplar Creek	Keep Smyrna Beautiful	2	2012	CH
Poplar Creek	Anne Ledbeter	1	2012	CH, MAC, BAC, AN
Rottenwood Creek	Sierra Club Centennial Group	3	2004	CH, MAC, BAC, CL
Rottenwood Creek	Water Quality Laboratory	1	2009	CL, BEA
Rottenwood Creek	Fielding Lewis Chapter of DAR	1	2018	SD
Rottenwood Creek	Keep Smyrna Beautiful	1	2017	CL
Rottenwood Creek	Rosco Peters	1	2017	CH
Sewell Mill Creek	Dodgen Middle School	9	2002	MAC
Sewell Mill Creek	Walton HS AP Environmental Science Class	1	2006	CH
Sewell Mill Creek	Rotary Club of East Cobb	1	2010	SD
Sewell Mill Creek	Pope High School	3	2013	CH, CL, SD
Sewell Mill Creek	Family Frog Walk	1	2017	AN
Sewell Mill Creek	Stewardship Mob	1	2018	PP
Sewell Mill Creek	East Cobb	1	2017	CH, BAC, CL
Sope Creek	Walton High School Environmental Club	1	1995	CH
Sope Creek	Friends of Gable Creek	1	2009	CH, CL
Sope Creek	Salty	1	2012	CH
Sope Creek	Sedalia Park Elementary School	1	2012	CH, CL
Sope Creek	Girl Scout Troop 13442	1	2017	SD

## Stewardship Projects - Chattahoochee continued

Sweetwater Creek	Kennesaw Mountain High School	1	2017	SD
Trib of Chattahoochee	Crooked Branch	1	2011	CH, BAC
Trib of Chattahoochee	ERM Atlanta	1	2015	CH, CL
Ward Creek	Westside Elementary	1	2017	CL
Ward Creek	Keep Smyrna Beautiful	1	2017	CH
Ward Creek	Cobb Progressives Earth First	1	2017	CH, BAC, CL
Ward Creek	KMHS Research and Internship	3	2017	CH, CL, SD
Willeo Creek	Willeo Watershed Alliance of Loch Highland	1	2001	CH, BAC
Willeo Creek	Tritt River Kids	1	2004	CH, CL
Willeo Creek	Bishop Lake	6	2008	CH, BAC
Willeo Creek	Village North Highlands Subdivision	1	2012	CH, BAC
Willeo Creek	Chase Stewart	1	2018	CL

## Stewardship Projects - Etowah

WATERSHED	GROUP	# SITES	YEAR INITIATED	ACTIVITY TYPE
Allatoona Creek	Kahle	1	2010	CH, CL, SD, AN
Allatoona Creek	Richard's Creek	1	2014	CH, CL
Allatoona Creek (Lake)	Ford Elementary School	1	2014	CL
Allatoona Creek	John Keiler	1	2015	CH
Allatoona Creek	Stewardship Mob	1	2016	SD
Allatoona Creek	American States Utility Services, Inc.	1	2017	SD
Allatoona Creek	Dominion Christian School	1	2017	CH, MAC
Butler Creek	Butler Creek Kennesaw	1	2009	CH, BAC, VS, CL
Lake Acworth	George Aycock	2	2017	CH
Lake Acworth	Cobb Progressives Earth First	1	2017	CH, BAC, CL, AN
Noonday Creek	Family Frog Walk	1	2017	AN
Noonday Creek	Stewardship Mob	2	2017	SD
Noonday Creek	JJ Daniell Middle School Junior National Honor Society	1	2018	SD
Noonday Creek	Vарner	1	2017	CH
Noonday Creek	Cobb Progressives Earth First	1	2017	CH, BAC, CL, AN
Proctor Creek	North Cobb High School Environmental Club	1	2008	CL
Proctor Creek	Cobb Progressives Earth First	1	2017	CH, BAC, CL
Rubes Creek	McCleskey Middle School	1	2006	CH, MAC, BAC, CL
Rubes Creek	David Zandstra	1	2008	CH, BAC
Rubes Creek	Lassiter High School	1	2010	CH, BAC, CL
Rubes Creek	Mabry Middle School	1	2011	CL
Rubes Creek	Stewardship Mob	1	2012	PP
Rubes Creek	Rocky Mount Elementary School	1	2017	CL

### Activity Type Key

CH Adopt-A-Stream Chemical Monitoring	BAC Adopt-A-Stream Bacteria Monitoring	AN Anuran Monitoring	CL Cleanup
MAC Adopt-A-Stream Macroinvertebrate Monitoring	VS Adopt-A-Stream Visual Monitoring	SD Storm Drain Marking	PP Privet Pull
	BEA Beautification Project	PSA Video Contest	

# Community Ecology Programs

## Rain Barrel Make & Takes

71 participants

Urban runoff causes bank erosion, siltation, and water quality impairment. It is one of the hardest sources of stream pollution to control. In this free workshop, participants build their own rain water harvesting barrel (donated by Coca-Cola Bottling) using power tools and provided supplies. The collected water can be used to irrigate ornamental plants, shrubs, and trees while preventing non-point source pollution and saving potable water.

## Household Hazardous Waste (HHW) Reduction and Medication Disposal

2,679 participants\*  
HHW from 750 households  
Medication from 191 households

Several efforts are implemented to educate Cobb County residents on hazards in the home including disposal events. Organized in partnership with Keep Cobb Beautiful (KCB), Cobb County's HHW Amnesty Day was held on June 24, 2017. Approximately 60,000 lbs of HHW were collected from residential customers through this program. In addition, KCB and WSP facilitated one pharmaceutical disposal event, held on April 28, 2018. Education focused on the importance of removing expired and unused medications from the home and the problems associated with flushing these products into the sewer system. \*KCB also hosted Community Recycling Events where residents were provided fall and spring opportunities to recycle textiles, scrap metal, polystyrene and electronics (for a fee), and participate in document shredding. Collection totals include approximately 1,600 pounds of textile, 80,500+ pounds of appliances, scrap metals, and electronics, 360 cubic feet of polystyrene, and 58,500 pounds of shredded paper.

## Library Programs

248 participants

During June and July of 2017, the Watershed Stewardship Program partnered with Cobb County's Library System for their summer reading program. As the theme was "Build a Better World," WSP staff presented our fairy house building program, focusing on habitats, local wildlife and ecology, at 8 local libraries. 2018 programming is scheduled around the theme of "Libraries Rock" where we will be focusing on nature music using our Mockingbird Learning program.

## Chattahoochee River Float Trips

36 participants

Watershed Stewardship Program, in partnership with National Park Service staff from Chattahoochee River National Recreation Area (CRNRA), continued to offer our Chattahoochee Challenge floating from Powers Island to Paces Mill. In addition, WSP staff continues to assist CRNRA upon request with public floats throughout the year.

## Family Programs

193 participants

Staff continued to offer Creek Stomping, Fairy House Building, and Frog Walks for kids and families. 12 events were conducted during the reporting year. As participation remains strong for all three programs, WSP has scheduled additional programming in all three areas for the coming year, including continuing to host our annual fall pumpkin fairy house building workshop in early November.



### Professional Presentations and Partnerships

180 participants

WSP staff routinely provide expertise and support at conferences, professional development meetings, and seminars. In the 2017-2018 reporting year, we presented at several events including the Metro North Georgia Water Planning District Education TCC and NPDES Trainings with AGC Georgia. Educator-focused event numbers are noted on page 12, under professional development for educators.

### Pet Waste Education Initiatives

1,000+ recipients

WSP continues to support volunteer *E. coli* testing, distribute pet waste education materials during storm drain marking projects, implement our *Pick It Up Pals Pledge Program* to increase pet owner awareness of the pollution problems associated with pet waste, and provide Cobb's P.A.R.K.S. department with *Pick It Up Waste Stations*, including educational signage and replacement bags. Staff explicitly discusses proper pet owner stewardship during our *What Is A Watershed?* school outreach programs. In addition, staff worked with local school clubs to facilitate Pledge Signing events at 2 schools this year. Pet Waste Education materials were also provided to the Homeless Pet Foundation and a local real estate team working on pet adoptions.

### Senior Programs

67 participants

WSP continues to develop programs for local seniors at both private as well as county facilities. The sessions are focused on water and nature and have included topics on pollinators, birds, frogs, and gardening. Stewardship components are imbedded in the content. Depending on the audience and weather, some session content is facilitated outdoors.

### Invited Speaker Presentations and Tabling Events

79 participants

In addition to facilitating public programs, WSP staff continues to accept invitations to speak to community clubs on various topics. This year we received requests for talks on watersheds and water quality, seasonal gardening, butterflies, and frogs from local nature, garden clubs, and scout groups. Also, we setup displays and spoke to community members at events at several locations including local parks, recreation centers, schools, churches, and the North Georgia State Fair.

### Wildlife & Rain Garden Programming/Tours

54 participants

While the demonstration gardens at Cobb's Water Quality Lab are always open for visitors, we do organize and facilitate guided tours and programs with age appropriate content developed for PreK-Senior adult audiences. We had a group setup a geocache at the site and have had visitors via this effort.



# SCHOOL OUTREACH ACCOMPLISHMENTS

Program staff visited local schools routinely, offering free water-related education programs to K-12 students in Cobb County, Marietta City, and private schools. In the 2017-2018 school year, our programs reached 14,901 students at 96 schools, serving 553 classrooms, and providing 388 instructional hours. We estimate the cost of this service at \$14,748.

## Ecoregions of Georgia

667 participants

Georgia ranks sixth in the nation for overall species diversity, particularly due to our five distinctive ecoregions! Learn the characteristics and natural history facts about each ecoregion by exploring how geographical topography contributes to biological diversity.

## What is a Watershed?

1,217 participants

We all live in a watershed - upstream and downstream. During this interactive session, students use a watershed model to demonstrate the impacts of pollution on streams and lakes while learning about local water quality issues. This hands-on program reveals how everyday activities affect our drinking water and wildlife while encouraging discussion about watershed protection and pollution prevention.

## Erosion & The Hydrologic Cycle

514 participants

Erosion and Weathering - what's the difference? Students visit lab stations to study the causes and effects of erosion, weathering, and sediment deposition while discovering how these forces change the landscape and aquatic habitats. Using a wetland model, students decide how to mitigate the consequences of human impacts and how natural systems are beneficial to the hydrologic cycle.

## Ecosystems & Adaptations

559 participants

Explore ecosystems by looking at living and nonliving factors affecting interdependency, determine plant and animal adaptations and limitations, follow energy as it moves through food chains and food webs, and conclude how human impacts on the watershed can make a difference. In this 60 minute program, we look at skulls to determine the *-vore* type of certain animals, look at slides of various ecosystems and adaptations, investigate the decomposer box, and apply knowledge with a live corn snake!

## Campus Explorer

242 participants

Nature is everywhere - offering the perfect setting and basis for instruction! Let us guide your class on an engaging and inquiry-based interpretive walk on your campus. Students use their senses to explore, apply scientific processes, and journal observations.

## Adopt-A-Stream Water Chemistry Study

773 participants

Learn to collect water samples and perform water quality experiments including dissolved oxygen, pH, temperature, and conductivity. This hands-on chemistry activity incorporates the scientific method. Data collected from monitoring groups will be entered into the Georgia Adopt-A-Stream statewide database.

## Macroinvertebrate Lab

794 participants

Macroinvertebrates (stream bugs) are excellent indicators of water quality. Learn to identify and categorize aquatic insects by pollution tolerance levels to determine stream health. Introduce your students to these fascinating water bugs before taking a water monitoring field trip to a local pond or stream. Data collected from monitoring groups will be entered into the Georgia Adopt-A-Stream statewide database.

## Bacteria Monitoring Lab

89 participants

This program explores different diseases present in the U.S. and in other countries and their impact on environmental health. Students will have the opportunity to practice laboratory procedures by monitoring their local environment for *E. coli* and determining what levels exceed a healthy baseline.

### Visual Stream Survey

261 participants

A healthy stream is a busy and constantly changing place. Learn how to assess a stream by examining different factors, such as stream bank, stream vegetation, stream channel, and substrate type to better understand how your stream is functioning.

### Investigating Urban Streams and Ponds

231 participants

Join us at a stream, pond or wetland to conduct a study about water quality and habitat. Activities may include water quality testing, sampling for aquatic insects, and investigating physical characteristics of the waterway. The group is responsible for its own transportation to the site. This program can be done at a schoolyard stream or pond, or at a local park.

### River to River

1,482 participants

Where does our drinking water come from? What happens to our water after we use it? Explore how a drinking water and wastewater treatment facility function.

### Snakes of Georgia & Their Adaptations

134 participants

Some people fear them, some are attracted to them, but almost nobody is indifferent toward snakes. How have snakes adapted to survive in their environment? Which species in Georgia are venomous and how can you tell? Most importantly, how do they benefit our ecosystem? This lab includes the use of live specimens.

### Monarchs & Butterfly Life Cycle

374 participants

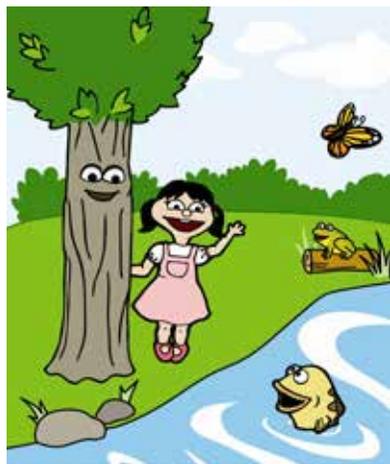
This program explores how a butterfly grows from a tiny egg into an adult, features the amazing annual migration of the Monarch from Canada to Mexico, and discusses habitat needs and conservation efforts to address human impact.

### Non-point Source Pollution & Stewardship

69 participants

Offered in preparation for a stewardship activity, students participate in a discussion about non-point source pollution typical of local neighborhoods. They are provided training on the purpose of and how to safely engage in stewardship practices such as rain gardening, storm drain marking, rain water harvesting, and waterway cleanups.





### Brooke & Branch Puppet Show

6,740 participants

Brooke is a little girl who goes on a big adventure! Join her as she learns about water quality and biodiversity from the friends she meets along the way. This program emphasizes ecological concepts and vocabulary in a fun and engaging way while demonstrating how we can help the environment.

### Every Kid In A Park

684 participants

With funding from The National Parks Foundation and in partnership with Chattahoochee River National Recreation Area (CRNRA), six Title-One schools from Cobb County participated in water quality and stewardship education. Students received multiple lessons (wildlife, decomposers, food web, pond study, water safety and paddling rafts on Sibley Pond, and nature journaling) at the Sope Creek Unit. The grant covered the transportation costs to bus students to the park for a day of lessons. We are working on funding for the 2018-2019 school year and anticipate serving another 500+ students.

### Homeschool Science Series

80 participants\*

WSP continues offering programming for local homeschool students. Free to participants, students learn about local stream ecology and wildlife. Sessions include both classroom and field experiences. \*This data is reflected in family programs on page 8, not school outreach calculations.

### Traveling Treasure Trunk

18 participating schools

A collection of water and nature resources including books, field guides, games, music, and videos. The trunk is loaned to K-5 classrooms for three week periods.

### Other Shared Resources

19 participating schools

Our program loans educational resources to teachers for use in their classroom, including water testing kits, nets, curriculum activities, preserved insect specimens, the Our Shared Forest Science Night Kit, and Enviroscape tabletop models.

### Children’s Water Festival

450 participants

On May 1st, seventy-one 4th graders from Labelle Elementary, along with students from four other schools, were invited to attend this annual event. It was held in partnership with other local governments, Metro N. GA Water Planning District (MNGWPD), Georgia Association of Water Professionals, and the National Park Service (NPS) at the Chattahoochee River National Recreation Area. Participants attended several hands-on water education sessions including topics on local wildlife and conservation, watersheds and pollution prevention, water source and distribution, FOG, and utility trucks with equipment demonstrations. NPS staff also provided *Every Kid In A Park* passes to each student, allowing their families to visit federal property for free through the summer of 2018.

### Green Schools

35 schools, 651 classrooms

Cobb’s Green School Initiative continues to draw interest and provide encouragement for teachers to integrate environmental education activities into their classrooms. Those that participate, complete, and log five EE activities are recognized as Green Classrooms. When five teachers in a school participate, the school is recognized as a Green School. In 2017-2018, 26 schools achieved Gold Status (15 or more Green Classrooms) and the teachers logged over 7,000 EE hours.



### Professional Development for Educators

188 participants

Staff continues to facilitate education opportunities for teachers. WSP staff also helped organize the Annual Outdoor Learning Symposium on October 20, 2017 and presented at the Environmental Education Alliance (EEA) Conference on March 2-4, 2018 and at the National Science Teachers Association (NSTA) Conference on March 17, 2018.

Trainings included:

- Life Is A River
- Adopt-A-Stream for Teachers
- Outdoor Learning Symposium
- Cobb County Science Preservice Workshops
- Project WET
- Monarchs In The Classroom
- EEA Conference
- NSTA Conference

# UPDATE ON RESOURCE DEVELOPMENT

## Septic Tank Education

Organized in conjunction with MNGWPD's septic-focused campaign during Pollution Prevention/Septic Smart Week, the third week of September, Cobb County Water System, in partnership with the MNGWPD, hosted a Pump Out Party on September 30, 2017 in the Wyndham Lakes Subdivision.

## Fats, Oil and Grease (FOG) Education

WSP continues developing FOG resources to support the Grease Management Program. This year, staff requested a post card mailer to inform neighborhoods when a sanitary sewer overflow or a sanitary sewer blockage has occurred.



## Wildlife and Rain Garden Demonstration Site

WSP continues developing the garden as an educational resource by installing new plantings, creating informational displays, designing interpretive programs, and recruiting volunteers to assist with our educational efforts. Ongoing relations with Cobb County Master Gardeners remain strong with volunteers continuing to assist with site maintenance.

## Newsletter, [www.cobbstreams.org](http://www.cobbstreams.org), and social media

Four issues of the quarterly newsletter, *The Thalweg*, were published this year. Approximately 2,000 paper and more than 5,300 electronic issues were distributed per edition to our local contacts. The Watershed Stewardship website provides education and promotional information to the community and averages approximately 350 hits per month. Our social media efforts now include the use of Eventbrite, Blogger, YouTube, Facebook, Pinterest, and LinkedIn. We are exploring how to effectively utilize Nextdoor Neighbor as well.

## Watershed Profiles and Signage

The watershed profile project, creating narratives that provide history, statistics, and points of interest for the major watersheds in Cobb County, has developed into a GIS Story Mapping effort. We continue to develop content to enable the creation of individual fact sheets in the future. Our signage program in cooperation with Cobb County DOT, installs watershed and stream name signage at Adopt-A-Stream locations across the county, remains a priority. Volunteer groups are recognized on blades at each monitoring location.

## T-shirt Design Contest with Kennesaw State University

Since 2002, WSP has partnered with local graphic design professors to incorporate a real-world project for students into their course curriculum. Our staff and volunteers become clients of the class with the students creating designs to be voted on for production on our annual volunteer t-shirt. This opportunity has developed into a portfolio assignment that senior level students incorporate into their final semester, with a client meeting and a culminating critique where each design is presented for comment and the selection of finalist designs. The inspirational quote selected to be incorporated into the design this year was from poet Mary Oliver, ***Pay Attention. Be Astonished. Tell About It.*** This year, fifteen students participated in the client meeting and all submitted designs for consideration at our design critique in March. Three selected final designs were voted on by the volunteers in March and April. The winning design was selected in April and will be printed on our 2018-2019 volunteer t-shirt. This partnership provides WSP staff with a new audience to educate about water quality and pollution prevention, engages our social media followers in our decision-making, offers participants an opportunity to work with a client, showcase their work to a broad audience and the potential to see the production and distribution of their original artwork, and gets our volunteers excited to participate in upcoming service projects and earn their new t-shirt.

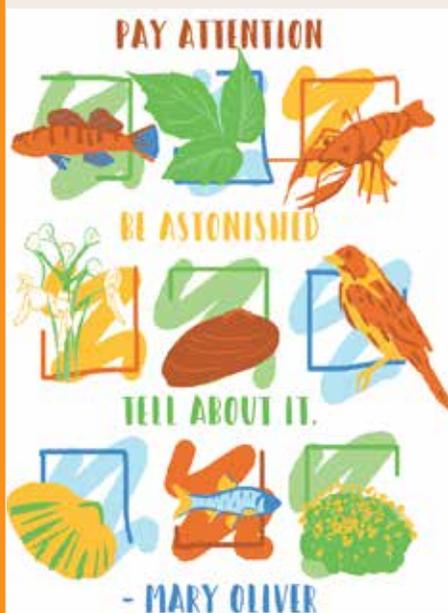


Image: The winning 2018 design.

# COMMUNITY CONNECTIONS

As active practitioners in Georgia's environmental education community, the Watershed Stewardship Program partners with many organizations and staff serves on numerous boards and committees. These activities enrich local program offerings and ensure Cobb County remains engaged with other water and environmental professionals.

## Boards, Committees, Leadership Roles

- Environmental Education Alliance of Georgia: Advisory Council Chair
- Georgia Association of Water Professionals: Public Education Committee Chair
- Georgia No Child Left Inside Coalition: Member
- Metro North Georgia Water Planning District: Education Technical Coordinating Committee
- Monarchs Across Georgia: Steering Committee Member
- Rivers Alive: Advisory Board, Education and Messaging Committee
- Council of Outdoor Learning: Steering Committee
- Georgia Adopt-A-Stream: Coordinator, Technical Advisor, Conference Planning Committee
- Southeast Environmental Education Alliance: Secretary, Vice President
- Our Shared Forest Committee: Co-Chair
- Chattahoochee Parks Conservancy: Education Committee Chair

## Partnerships

- Georgia EPD Outreach Unit
- National Park Service
- Georgia Association of Water Professionals
- Environmental Education Alliance of Georgia
- Metro North Georgia Water Planning District
- Cobb County DOT
- Cobb County School System
- Cobb County P.A.R.K.S.
- Keep Cobb Beautiful
- Keep Marietta Beautiful
- Keep Smyrna Beautiful
- Cobb County Master Gardeners
- Coca-Cola Bottling Company
- Vickery Hardware
- Emory University
- Kennesaw State University
- Sierra Club Cobb Centennial Group
- State Botanical Gardens of Georgia
- RBC (Royal Bank of Canada)
- Georgia Southern University
- City of Atlanta
- City of Marietta - Marietta Water
- City of Roswell
- City of Smyrna - Keep Smyrna Beautiful
- Cherokee County
- DeKalb County
- Fulton County
- Gwinnett County
- Marietta City Schools
- UGA Cooperative Extension

## Program History

### 2018

- Cobb County Water System (CCWS) awarded Comprehensive Education Program of Excellence from GAWP.
- WSP Volunteers (Tritt Elementary) receive Rivers Alive Clean-up Award.
- WSP recognizes Eddie Richards as Garden Volunteer of the Year.
- WSP recognizes Rosco Peters as New Volunteer of the Year.
- WSP recognizes Richard and Nancy Cole for Excellence in Data Collection.

### 2017

- Cobb County Water System (CCWS) awarded Comprehensive Education Program of Excellence from GAWP.
- WSP receives Watershed Award from EPD.
- WSP Volunteer (Anne Ledbetter) receives Red Flag Award.
- WSP Volunteers (ERM Atlanta) receives Nymph Award.
- WSP Volunteers (Ford Elementary) receive Rivers Alive Clean-up Award.
- WSP recognizes Keep Smyrna Beautiful as Group of the Year.
- WSP recognizes Keheley Elementary as School of the Year.
- WSP recognizes Anne Ledbetter with a Stewardship In Action Award.

### 2016

- WSP staff recognized by Cobb County Board of Commissioners for Excellence in Customer Service.
- WSP Volunteer (Norm Fagge) receives Excellence in Data Collection Award.
- WSP Volunteers (Pope High School) receive Rivers Alive Clean-up Award.
- WSP recognizes Norm Fagge as Volunteer of the Year.
- WSP recognizes GA AAS as Partner of the Year.
- WSP recognizes Sedalia Park as School of the Year.
- WSP recognizes Simon Locke with a Stewardship In Action Award.

### 2015

- Watershed Stewardship Program (WSP) staff receives New Trainer of the Year Award from EPD.
- WSP Volunteers (Fairfax Consulting Services) receives Excellence in Data Collection Award.
- WSP recognizes Fairfax Consulting Services as Monitoring Group of the Year.
- WSP recognizes Chattahoochee River National Recreation Area as Partner of the Year.
- WSP recognizes Daughters of the American Revolution Fielding Lewis Chapter as the Stewards of the Year.

**2014**

- CCWS receives 2014 Best Direct Media Award for *The Thalweg* from GAWP.
- WSP receives Watershed Award from EPD.
- WSP staff receives New Trainer of the Year Award from EPD.
- WSP receives Rivers Alive Club Award from EPD.
- WSP Volunteer (Ina Allison) receives Excellence in Data Collection Award.
- WSP recognizes Ina Allison as Volunteer of the Year.
- WSP recognizes Kennesaw State University School of Art and Design as Partner of the Year.
- WSP recognizes Pope High as School of the Year.

**2013**

- WSP in partnership with KCB receives a \$2000 grant for our Cigarette Litter Prevention.
- WSP Volunteer (Morning Washburn) receives AAS in Action Award.
- WSP Volunteer Group (Sierra Club Centennial Group) receives Extraordinary Volunteer Watershed Effort Award.
- WSP recognizes Simon Locke as Volunteer of the Year.
- WSP recognizes David Zanstra and Ric & Sharon Donato as Monitoring Group of the Year.
- WSP recognizes Lassiter High as School of the Year.

**2012**

- CCWS receives 2012 Innovative Initiative Program Award for *Eco-Logical...Tips to Reduce Your Footprint* from GAWP.
- WSP Volunteer (Eric Lee) receives Excellence in Data Collection Award.
- WSP Volunteer (Cheryl Ashley-Serafine – Nicholson Elementary School) receives Adopt-A-Stream in Action Award.
- WSP recognizes Carla Loosier as Community Organizer of the Year.
- WSP recognizes Eric Lee as AAS Volunteer of the Year.
- WSP recognizes Nicholson Elementary as School of the Year.
- WSP recognizes Diane Powell as Rain and Wildlife Garden Volunteer of the Year.
- WSP staff serves as President of Environmental Education Alliance of Georgia (EEA).

**2011**

- WSP staff is expanded to include additional part-time Program Assistants to perform the Brooke and Branch Puppet Show.
- WSP receives Watershed Award from GA Environmental Protection Division (EPD).
- WSP Volunteer (Connie Ghosh - McCleskey Middle School) receives Red Flag Award.
- WSP recognizes Amy Boggs as Community Organizer of the Year.
- WSP recognizes Pam Subalusky AAS Volunteer of the Year.
- WSP recognizes Tritt Elementary as School of the Year.
- WSP staff serves as President of EEA.
- WSP staff receives Volunteer Service Award from EEA.
- WSP receives \$5000 grant from Royal Bank of Canada for the Demonstration Rain Garden.

**2010**

- WSP receives Adopt-A-Stream in Action Award from EPD for the Brooke & Branch Puppet Show.
- WSP staff receives Georgia Project WET 2009 Facilitator of the Year.
- WSP recognizes The Donnelly Family as Storm Drain Markers of the Year.
- WSP recognizes Ric and Sharon Donato as Anuran Monitors of the Year.
- WSP recognizes Terri Tornroos as AAS Volunteer of the Year.
- WSP recognizes Walton High as School of the Year.

**2009**

- WSP staff recognized by Cobb County Board of Commissioners for Excellence in Customer Service.
- WSP Volunteers (Tim Phillips and Stacey Haire) receives Excellence in Data Collection Award.
- WSP staff receives 2008 Monarch Across GA Service Award.
- WSP recognizes Girl Scout Troop 21 as Storm Drain Markers of the Year.
- WSP recognizes Connie Ghosh as Anuran Monitor of the Year.
- WSP recognizes Tim Phillips and Stacey Haire as AAS Volunteers of the Year.

**2008**

- WSP receives Watershed Award from EPD.
- WSP Volunteer (Didi Johnson) receives Outstanding Outreach and Partnership Award.
- WSP staff receives Teaching Conservation Facilitator of the Year from GA Conservancy.
- WSP staff recognized by Rivers Alive for Most Cleanups Attended.
- WSP recognizes Didi Johnson as AAS Volunteer of the Year.

**2007**

- WSP staff is expanded to include a part-time Program Assistant.
- Cobb Adopt-A-Stream Program (AAS) changes name to Watershed Stewardship Program.
- AAS receives Adopt-A-Stream in Action Award, for Our Color Your Watershed Mural Grant Program from EPD.
- AAS Volunteer (Judy Cox - Dodgen Middle School) receives & Outstanding Outreach Award.
- WSP recognizes Judy Cox as AAS Volunteer of the Year.

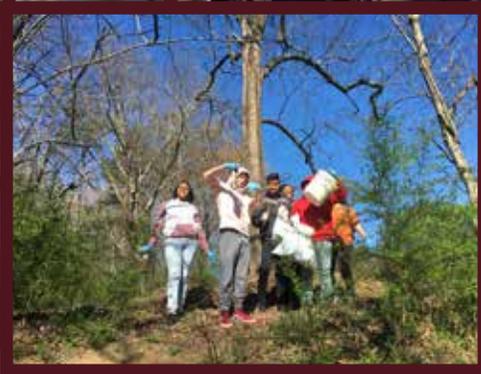
**2006-2001**

- Demonstration Rain Garden is certified as a Back Yard Wildlife Habitat, a Monarch Waystation, and a Pollinator Garden.
- AAS staff is expanded to two full-time employees.
- AAS receives Rivers Alive: Outstanding Large Cleanup Award.
- Demonstration Rain Garden is installed.
- AAS receives Watershed Award from EPD.
- AAS Volunteer (Greg Linton) receives Excellence in Data Collection Award.
- AAS receives Outstanding Outreach and Partnership Award from EPD.
- Cobb County Water System (CCWS) receives Public Education Award from GA Assoc. of Water Professionals (GAWP) - 2002 & 2006.
- Cobb Adopt-A-Stream (AAS) Program Coordinator is hired and program is launched.

# REFLECTIONS



Waterway cleanups continue to be a favorite community service project. Participants are provided with gloves, bags, litter sticks and are given a free volunteer t-shirt to thank them for their efforts. All data is shared with the *Rivers Alive* program.



Students attending our *Every Kid In A Park* program at Sibley Pond, in partnership with National Park Service, learn about local wildlife and ecology.





Interns in action...sampling streams, leading youth programs, touring wastewater treatment plants.



We continue to facilitate our stewardship mobs throughout the school year, organizing afterschool projects to encourage students to participate in community service.



Three groups were recognized locally this year at our Watershed Stewardship Fair. In addition, *Rivers Alive* awarded Tritt Elementary their *Adopt-A-Stream* cleanup award.



We continue to facilitate workshops and setup education displays.



# THANK YOU

The Watershed Stewardship Program would like to thank our volunteers and supporters:

April Adams	Jermaine Duncan	Kristine Hwang	Viktoria Mihan	Chris Skelton
Jo Adang	Joy & Zander Dyson	Petty Ingalsbee	Amanda Miller	Sarah Skinner
Valerie Agramonte	Jeremy Eaves	Ashanti Jacobs	Charlie Monroe	Jamie Slafkosky
Umana Ahmed	Eric Eberly	Jonathan Jenkins	Heather Moody	Dawn Smith
Ina Allison	Sharry Echavez	Myles Jenkins	Lois and Nancy Morrison	Dennis Smith
Kyrston Archie	Elizabeth & Maria Ehme	John Jennings	Alex Muzzillo	Jayvion Smith
Lisa Ashby & Family	Jake Ehrie	Eric Johnson	Tamera Neal	Kevin Smith
Cheryl Ashley-Serafine	Christine Einertson	Brooke Jones	Jessica Neely	Roberta Smith
Lilly Atkins	Joan Ellars	Judy Jones	Connie Nelson	Sharon Smith
George Aycock	Eric Encinas	Lauren Jones	Steve Nestor	Emily Steeves
Seirisse Baker	Alyson Epp	Arden Kahle	Travis Neumuller	Kevin Stephens
Delon Barfuss	Katey Evans	Jeremy Kahle	JoAnne Newman	Beth, Chase & Larry Stewart
Jenny Bartee	Norm Fagge	Nikeya Kaiser	Frank Newton	Jamie Stones
Rick Bauer	Dolly Fehd	Rebecca Kapala	Kathy Nguyen	Pam Subalusky
Judy Beard	Erin Feichtner	Jeremy Kears	Sondra Nierenberg	Adam Sukenick
Melinda Becker	Jenn & Gemma Fletcher	Cora Keeber	Lance Norris	Jeff Thies
Steve Bell	Jimmy Flynn	John Keiler	Dave and Diane Ochala	Dave Thomas
Morica Bellotto	Aida Ford	Judy Kelley	Zack Orr	Jennifer Thomas
Chloe Black	Cynthia Foster	Jessica King	Michael O'Shield	Marjorie Thomas
Becky and Jerry Blades	Jesslyn Frater	Kathy Klenk	Luke Owen	Susie Throop
Bill Blythe	David Frommer	Deandra Kosen	Marge Owens	Jamee Thurmond
Joe Boland	Michael Fu	Nick Jokay	Aditya Palliyil	Dick Trumbull
Angie Bolton	Denise Gadd	Cora Keeber	Sadie Palmer	Phoebe Torres
Robert Bourne	Sylvia Gerbovaz	John Keiler	Myles Parker	Joe Turner
Stuart Bramwell	Endia Gholston	Monica Kilpatrick	Shawn Parmelee	David Tyler
David Bridges	Connie Ghosh	Ann Kirk	Heily Patel	Pam Varner
Ross Brill	Alicia Giddens	Julie Knight	Vasu Patel	Timmy Vaughn
Sally Brooking	Amy Gilbert	Jennifer Lana	Sourin Paturi	Christy Vogt
Jaylin Brooks	Frank Gipson	Fabiola Lara	Nancy Payne	Henning Von Schmeling
Jil Brown-Curry	Diego Gomez	Donna Leavall	Kelly Paynter	Allison Walker
Eric Budd	Austin Goss	Jesse LeBoeuf	Jana Pearce	Amy Warnock
Roger Buerki	Guy Gray	Anne Ledbetter	Sabrina Pemberton-Piper	Morning Washburn
Polly Burson	Hannah Gregory	Caroline Lee	Diego Perez	Debra Whatley
Paige Bushart	Tamieka Grizzle	Eric Lee	Pic Petelle	Jack White
Sharon Camp	Amy Gutierrez	Kathleen Lemley	Rosco Peters	Kait White
Hannah Campbell	Catherine Gwynn	Renae Lemon	Ben Pharr	Kim White
JJ Campbell	Nadia Gyamera	Micah & Ethan Lindler	Janet Philip	Amy Whitney
Pat & Jennifer Campbell	Kristina Ha	Simon and Patti Locke	Tim Phillips	Meredith Whitten
Sami Chambers	Stacey Haire	Maryanne Locklin	Brad Plumley	LaQuiesia Wilkins
Jamison Clark	Amelia Ham	Carla Loosier	Cornelius Pope	Armond Williams
Nathan Clark	Terrilyn Hannah	Bill Lovelace	Diane Powell	Dominique Williams
Chris Clay	Susan Hansen	Joe Lukas	John Purcell	Kelley Williams
Richard and Nancy Cole	Harold Harbert	Suzan Manasreh	Julia Randall	Michael Williams
Thomas Collins	Woody Hays	Mark Mandica	Daniel Ranke	Morgan Williams
Ryan Coover	Emma Henderson	Anna March	Kevin Ranke	Kaye Wilson
Becca & Heather Coulter	Hillary Herlinger	Meridith Marchbank	Mark Ray	Jeff Wix
Cheri Craft	Lee Housen	Josie, Kari & Mylie Mares	Malathi Reddy	Karan Wood
Sally Creel	Judy Huguenard	Sydney Marks	Elaina Regier	Christine Woodrow
Stacy Cromer	Bill Higgins	Linda Martin	Eddie Richards	Grace Xu
Vicki Culbreth	Dallin Higgins	Jennifer Martinez	Marvin Richards	Lina Yazbak
Dannell Custred	Jerry Hightower	Linda May	Teresa Roby	Chuck Youmans
Elizabeth Davis	Christy Hill	Marcus McAbee	Mandy Robertson	Michael Yuzhou
Gretchen Davis	John Steven Hinrich	Gayle McAllister	Suraaj Samanta	Kennedy Zachery
Jeffrey Davis	Jeff Hite	Ray McClellan	Daryl Sawyer	David Zandstra
Kelley Davis	Kevin Hill	Jason McCoy	Joshua Seigla	Wayne Zhang
Virginia Davis	Linda Hlozansky	Steve McCullers	Sohawn Sengupta	
Jaap DeRoode	Mary Lou Hoffacker	Holly McDonald	Chelsea Sexton	
Blair & Brad Dilbeck	Kim Holland	Kathleen McElroy	Pradip Shah	
Taylor Dixon	Glen Holley	Sharon Meinhardt	Rachel Sheldon	
Ric and Sharon Donato	Jody Hubbell	Jennifer Mercure	Steve Shelton	
Don Doyle	Judy Huguenard	Susan Meyers	Jackie Sherry	
Harrison Dromey	John Huth	Bramlett Micklow	Annette Simpson	

**... And to anyone we inadvertently forgot!**

# OUR TEAM

The Watershed Stewardship Program is housed in the Water Quality Laboratory of the Cobb County Water System's Environmental Compliance Division.

**Jennifer McCoy, Program Coordinator**

Jennifer has worked for Cobb County since 2000 as an environmental educator and as an environmental compliance inspector. Her work as a naturalist at a nature center, an instructor at a science museum, and a biologist for an environmental consultant contributes over 20 years of professional experience to our program.

Education:

- Master of Public Administration, Kennesaw State University, 2011
- Master of Science (Ecological Teaching & Learning), Lesley University, 2007
- Certificate (Geographic Information Systems), Kennesaw State University, 2000
- Bachelor of Science (Biology), Kennesaw State University, 1997

*Facilitator Certifications:* Project WET, Project Learning Tree, Project Wild, Monarchs in the Classroom, Leopold Education Project, Native Waters, Native Seasons, Biodiversity Basics, Healthy Water Healthy People, Adopt-A-Stream Chemical/Macroinvertebrate/Bacteria Trainer, Master Gardener

**Mike Kahle, Environmental Programs Specialist**

Mike joined our team in October 2011, initially as a part-time educator. He previously worked as program coordinator with The Nature Conservancy and as a naturalist with the Orange County Department of Education in California and Chattahoochee Nature Center.

Education:

- Bachelor of Science (Geography), University of Nevada, 2008

*Facilitator Certifications:* Project WET, Project Wild, Project Learning Tree, Adopt-A-Stream Chemical/Macroinvertebrate/Bacteria Trainer, Master Gardener, Monarchs In the Classroom, Trail Crew Leader

*Educator Certifications:* Wonder of Wetlands, Our Shared Forest, Certified Interpretive Guide, MS4 Compliance & Enforcement Certified Inspector, Leave No Trace

**Taylor Dove, Environmental Programs Specialist**

Taylor joined our team in August 2017. After finishing her undergraduate degree, she spent a year working in Montana as an AmeriCorp member with The Nature Conservancy.

Education:

- Bachelor of Science (Geography), University of West Georgia, 2016

*Certification:* Geographic Information Systems

**Angie Marcus, Program Assistant**

Angie joined our team in July 2015. Her background includes work in youth counseling as well as environmental education with Virginia 4-H and Learning Tree Farms.

Education:

- Master of Social Work (Family & Children), Kennesaw State University, 2014
- Master of Education (Outdoor Education Administration), Georgia College & State University, 2000
- Bachelor of Arts (Sociology), Lenoir-Rhyne University, 1997

*Facilitator Certifications:* Project WET, Project Learning Tree, Project WILD, Challenge Course Trainer

*Educator Certifications:* Outdoor Wildlife Leadership School, Leave No Trace

**Penny Costanzo, Program Assistant**

Penny came to WSP in January 2015. She has been an environmental educator and professional actress for over thirty years, having taught at the Harvard University Zoology Museum and for Young Audiences, an arts in education program.

Education:

- Master of Education (Elementary), Tufts University, 1975
- Bachelor of Arts (English), Kenyon College, 1974

*Facilitator Certifications:* Master Naturalist, Brain Education Teacher/Trainer, Dahn Yoga Master

*Educator Certifications:* Project WET, Project Wild, Project Learning Tree, Wonder of Wetlands, Our Shared Forest, Certified Interpretive Guide, Master Naturalist, Certified Environmental Educator

Cobb County Water System  
Watershed Stewardship Program  
662 South Cobb Drive  
Marietta, Georgia 30060

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*Connecting Community to Local Ecology*  
[www.cobbstreams.org](http://www.cobbstreams.org)

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*Cobb County...Expect the Best!*

Michael H. Boyce, Chairman  
Bob Weatherford, District One  
Bob Ott, District Two  
JoAnn Birrell, District Three  
Lisa Cupid, District Four  
Rob Hosack, County Manager

June 2018