



Tennessee Department of Environment and Conservation  
 Division of Water Pollution Control  
 Enforcement and Compliance Section  
 L&C Annex, 6<sup>th</sup> Floor, 401 Church Street  
 Nashville, TN 37243  
 (615) 532-0625

**Small Municipal Separate Storm Sewer System (MS4) Annual Report**

**1. MS4 INFORMATION**

Knox County, Tennessee (unincorporated)

Name of MS4

Chris Granju, P.E.

Name of Contact Person

865-215-5840

Telephone (including area code)

205 West Baxter Avenue

Mailing Address

Knoxville

TN

37917

City

State

ZIP code

What is the current population of your MS4? 232,676

What is the reporting period for this annual report? From July 1, 2011 to June 30, 2012

**2. PROTECTION OF STATE OR FEDERALLY LISTED SPECIES**

A. Are any of the MS4 discharges or discharge-related activities likely to jeopardize any state or federally listed species (**Part 3, Special Conditions, General Permit for Phase II MS4s**)  Yes  No

B. Please attach the determination of the effect of the MS4 discharges on state or federally listed species per sub-part 3.2.1

Knox County has not made an evaluation of the effects of stormwater discharges from the built environment on state and federally listed species and critical habitat as outlined in section 3.2.1 of the current MS4 permit.

Knox County requires that any proposed development located within, or discharging storm water to, a buffer area for threatened species, endangered species, or critical habitat (as defined by the ESA) be reviewed by the United States Fish and Wildlife Service prior to Knox County's review of a storm water management plan.

**3. WATER QUALITY PRIORITIES**

A. Does your MS4 discharge to waters listed as impaired on the state 303(d) list?  Yes  No

B. If yes, identify each impaired water, the impairment cause(s), whether a TMDL has been approved by EPA for each, and whether the TMDL identifies your MS4 as a source of the impairment.

Waterbody I.D. #	Cause/TMDL Priority	Approved TMDL	MS4 Assigned to WLA
TN06010104001-0100 Love Creek (Located within the City of Knoxville)(Holston River Watershed)	Loss of biological integrity due to siltation Other Anthropogenic Habitat Alterations	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

TN06010104001-0500 ROSEBERRY CREEK (Holston River Watershed)	Escherichia coli	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010104001-1400 SWANPOND CREEK (Holston River Watershed)	Loss of biological integrity due to siltation Alteration in stream-side or littoral vegetative cover Escherichia coli	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010104019-0100 LITTLE FLAT CREEK (Holston River Watershed)	Escherichia coli	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010104019-2000 FLAT CREEK (Holston River Watershed)	Escherichia coli	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201020 - 1000 FORT LOUDOUN RESERVOIR (Upper Tennessee River Watershed)	PCBs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201020 - 2000 FORT LOUDOUN RESERVOIR (Upper Tennessee River Watershed)	Mercury PCBs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201026 – 0100 RODDY BRANCH (Upper Tennessee River Watershed)	Alteration in stream-side or littoral vegetative cover, Physical Substrate Habitat Alteration, Loss of biological integrity due to siltation, Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201037 – 1000 LITTLE TURKEY CREEK (Upper Tennessee River Watershed)	Loss of biological integrity due to siltation	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201066 – 0100 CASTEEL BRANCH (Upper Tennessee River Watershed)	Loss of biological integrity due to siltation	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201066 – 0200 <b>TWIN BRANCH</b> (Upper Tennessee River Watershed)	Habitat loss due to alteration in stream-side or littoral vegetative cover Loss of biological integrity due to siltation	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201066 – 0400 <b>Grandview Branch</b> (Upper Tennessee River Watershed)	Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201066 – 0500 <b>McCALL BRANCH</b> (Upper Tennessee River Watershed)	Loss of biological integrity due to siltation	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201066 – 0600 <b>HIGH BLUFF BRANCH</b> (Upper Tennessee River Watershed)	Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201066 – 1000 <b>STOCK CREEK</b> (Upper Tennessee River Watershed)	Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201066 – 1200 <b>GUN HOLLOW BRANCH</b> (Upper Tennessee River Watershed)	Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201066 – 2000 <b>STOCK CREEK</b> (Upper Tennessee River Watershed)	Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

TN06010201067 – 0100 <b>EAST FORK THIRD CREEK</b> (Upper Tennessee River Watershed) <i>Located within the City of Knoxville</i>	Loss of biological integrity due to siltation Other Anthropogenic Habitat Alterations Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201067 – 1000 <b>THIRD CREEK</b> (Upper Tennessee River Watershed) <i>Located within the City of Knoxville</i>	Nitrates Loss of biological integrity due to siltation Other Anthropogenic Habitat Alterations Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201080 – 0100 <b>WHITES CREEK</b> (Upper Tennessee River Watershed)	Other Anthropogenic Habitat Alterations Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201080 – 1000 <b>FIRST CREEK</b> (Upper Tennessee River Watershed) <i>Located within the City of Knoxville</i>	Nitrate+Nitrite Loss of biological integrity due to siltation Other Anthropogenic Habitat Alterations Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201097- 1000 <b>SECOND CREEK</b> (Upper Tennessee River Watershed) <i>Located within the City of Knoxville</i>	Nitrate+Nitrite Loss of biological integrity due to siltation Other Anthropogenic Habitat Alterations Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN060102011330 – 1000 <b>SINKING CREEK</b> (Upper Tennessee River Watershed)	Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN060102011334 – 0100 <b>TEN MILE CREEK</b> (formerly called Sinking Creek) (Upper Tennessee River Watershed)	Habitat loss due to alteration in stream-side or littoral vegetative cover Loss of biological integrity due to siltation Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201340 – 1000 <b>TURKEY CREEK</b> (Upper Tennessee River Watershed)	Loss of biological integrity due to siltation Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201697 – 1000 <b>FOURTH CREEK</b> (Upper Tennessee River Watershed) <i>Located within the City of Knoxville</i>	Physical Substrate Habitat Alterations Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201719 – 1000 <b>WILLIAMS CREEK</b> (Upper Tennessee River Watershed) <i>Located within the City of Knoxville</i>	Other Anthropogenic Habitat Alterations Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201721 – 1000 <b>BAKER CREEK</b> (Upper Tennessee River Watershed) <i>Located within the City of Knoxville</i>	Nitrate+Nitrite Other Anthropogenic Habitat Alterations Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201723 – 1000 <b>GOOSE CREEK</b> (Upper Tennessee River Watershed) <i>Located within the City of Knoxville</i>	Loss of biological integrity due to siltation Other Anthropogenic Habitat Alterations PCBs Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010207004 – 0100 <b>GRABLE BRANCH</b> (Lower Clinch River Watershed)	Oil & Grease Loss of biological integrity due to siltation Physical Substrate Habitat Alterations	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010207006 - 1000 <b>MELTON HILL RESERVOIR</b> (Lower Clinch River Watershed)	PCBs Chlordane	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

TN06010207011 – 0300 <b>WILLOW FORK</b> (Lower Clinch River Watershed)	Alteration in stream-side or littoral vegetative cover Loss of biological integrity due to siltation Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010207011 – 0400 <b>COX CREEK</b> (Lower Clinch River Watershed)	Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010207011 – 0500 <b>HINES BRANCH</b> (Lower Clinch River Watershed)	Habitat loss due to other anthropogenic substrate alterations Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010207011 – 0600 <b>KNOB FORK</b> (Lower Clinch River Watershed)	Loss of biological integrity due to siltation Habitat loss due to other anthropogenic substrate Alteration in stream-side or littoral vegetative cover Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010207011 – 0700 <b>GRASSY CREEK</b> (Lower Clinch River Watershed)	Loss of biological integrity due to siltation Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010207011 – 0800 <b>MEADOW CREEK</b> (Lower Clinch River Watershed)	Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010207011 – 0900 <b>PLUM CREEK</b> (Lower Clinch River Watershed)	Escherichia coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010207011 – 1000 <b>BEAVER CREEK</b> (Lower Clinch River Watershed)	Phosphate Nitrates Escherichia coli Low Dissolved Oxygen Loss of biological integrity due to siltation Physical Substrate Habitat Alterations	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010207011 – 2000 <b>BEAVER CREEK</b> (Lower Clinch River Watershed)	Escherichia coli Loss of biological integrity due to siltation Physical Substrate Habitat Alterations	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010207011 – 3000 <b>BEAVER CREEK</b> (Lower Clinch River Watershed)	Escherichia coli Loss of biological integrity due to siltation Physical Substrate Habitat Alterations	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010207014 – 0100 <b>WILLIAMS BRANCH</b> (Lower Clinch River Watershed)	Loss of biological integrity due to siltation	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010207014 – 1000 <b>BULLRUN CREEK</b> (Lower Clinch River Watershed)	Escherichia coli Loss of biological integrity due to siltation Physical Substrate Habitat Alterations	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

C. What specific sources of these pollutants of concern are you targeting? **Construction sites, agricultural activities, sewer and septic failures, and hot spots (nitrates, phosphates, oil and grease).**

D. Do you have discharges to any Exceptional TN Waters (ETWs) or Outstanding National Resource Waters (ONRWs)?  Yes  No

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

Yes       No

E. Are you implementing additional specific provisions to ensure the continued integrity of ETWs or ONRWS located within your jurisdiction?

Knox County enforces the “Discharges into Impaired or Exceptional Tennessee Waters” standards from the State of Tennessee’s General NPDES Permit for Discharges of Stormwater Associated with Construction Activities in all watersheds in Knox County. (Section 5.4). In addition, Knox County has a Construction Site Runoff Program, Permanent Stormwater Management Program, Illicit Discharge Detection and Elimination Program and an Education/Outreach Program that have measures built in to prevent, detect and eliminate polluted discharges to watersheds in Knox County.

#### 4. PUBLIC EDUCATION AND PUBLIC PARTICIPATION

A. Is your public education program targeting specific pollutants and sources of those pollutants?

Yes       No

B. If yes, what are the specific causes, sources and/or pollutants addressed by your public education program?

The table below highlights Knox County’s Public Information and Education Plan targets for the remainder of the permit cycle.

Target Streams	Target Pollutants	Target Audience(s)
Beaver Creek Bull Run Creek Casteel Branch Cox Creek Gable Branch Grandview Branch Grassy Creek High Bluff Branch Hines Branch Knob Fork Little Turkey Creek McCall Branch Meadow Creek	Plum Creek Sinking Creek Swan Pond Ten Mile Creek Turkey Creek Twin Branch Whites Creek Willow Creek	<ul style="list-style-type: none"> <li>▪ Siltation</li> <li>▪ Alteration in stream-side or littoral cover</li> <li>▪ E.Coli</li> <li>▪ Habitat alteration</li> <li>▪ Habitat loss due to anthropogenic substrate alterations</li> <li>▪ Oil and Grease</li> <li>▪ Phosphate</li> <li>▪ Nitrates</li> <li>▪ Low Dissolved Oxygen</li> </ul>
		<ul style="list-style-type: none"> <li>▪ Land Developers</li> <li>▪ Engineers</li> <li>▪ Construction Workers</li> <li>▪ General Public</li> <li>▪ Municipal Employees</li> <li>▪ Chemical Applicators</li> <li>▪ Others as will be determined based on information collected through Knox County’s stormwater program</li> </ul>



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**Small Municipal Separate Storm Sewer System (MS4) Annual Report**

The table below explains Knox County's planned Activities and Goals as described in the Public Information and Education Plan.

Description	Goal	Type	Target Groups	Target Pollutants	2010 Permit Citation(s)
Brochure(s) Distribution	To broaden public understanding of the storm drainage system and how behaviors contribute to water quality	Publications	Homeowners, Engineers, Developers, Construction Workers, Public	All	4.2.1a,b,c,f, g & h
Website	<ul style="list-style-type: none"> <li>▪ To provide manuals, policies and information regarding construction-phase and long term stormwater management.</li> <li>▪ To educate the public on how to prevent stormwater pollution and become involved with County programs</li> <li>▪ To educate the public on illicit discharge detection and reporting</li> </ul>	Internet	Engineers, Developers, Construction Workers, Public	All	4.2.1a-h
Social Media	To engage the public in a discussion of water pollution prevention and raise awareness on how the public can get more involved in County programs	Internet	Homeowners, Engineers, Developers, Construction Workers, Public	All	4.2.1a,b,c,f, g & h
Interactive BMP Tour	To provide education and demonstrate green infrastructure practices	Internet/Educational Sites	Engineers, Developers, Construction Workers, Public	All	4.2.1 and 4.2.2
Signage at select Knox County Parks	To provide education and demonstrate green infrastructure practices	Educational Site	Engineers, Developers, Construction Workers, Public	All	4.2.1 and 4.2.2
Adopt A Stream	<ul style="list-style-type: none"> <li>▪ To provide an opportunity for citizen involvement in visual stream assessments, cleaning streams and reporting illicit discharges.</li> <li>▪ To educate the public on how to prevent stormwater pollution and become involved with County programs</li> </ul>	Training/Educational Event	Public	All	4.2.1 and 4.2.2
Adopt A Watershed	To educate middle and high school students about watershed concepts and stormwater pollution prevention through service based learning projects	Training/Educational Event	Public	All	4.2.1 and 4.2.2
Municipal Employee Training	To make municipal employees aware of water quality impacts from daily operations, and to educate staff on how to identify and report illicit discharges	Training Event/Publication	Municipal Staff	All	4.2h

Description	Goal	Type	Target Groups	Target Pollutants	2010 Permit Citation(s)
Waterfest	To engage elementary students in learning about water pollution and watershed concepts	Training/Educational Event	Public	All	4.2.1
Festivals/Exhibitions/Speaking Engagements	To provide requested stormwater pollution prevention awareness to public and private groups	Training/Educational Event	Public	All	4.2.1
Watershed Initiatives	<ul style="list-style-type: none"> <li>▪ To encourage citizens to take ownership of their water resources</li> <li>▪ To provide education and demonstrate stormwater pollution prevention techniques</li> </ul>	Training, Events, Projects	Homeowners, Engineers, Developers, Construction Workers, Public	All	4.2.1
Tennessee Yards and Neighborhoods	To assist residents and neighborhood associations on tactics that can be employed in yards to encourage water infiltration and prevent stormwater pollution	Training/Educational Event	Homeowners, Public	All	4.2.1a
Homeowner BMP Manual and Workshops	To broaden public understanding of stormwater best management practices and maintenance activities needed to ensure functionality of the BMP	Publication	Homeowners	Siltation	4.2.1b
Contractor Education	To make construction workers and sub-contractors aware of water quality impacts from daily operations	Training Event	Construction Workers	Siltation	4.2.1c & g
Development Workshops	To make development community aware of regulations, guidance materials and long-term water quality impacts from development activities	Training Event	Engineers, Developers, Construction Workers	All	4.2.1c & g
Pre-Construction Meetings	To make development community aware of regulations, guidance materials and long-term water quality impacts from development activities	Event	Engineers, Developers, Construction Workers	All	4.2.1c & g
Outreach to Professional Chemical Applicators	To limit the improper storage, use and disposal of items in areas which are exposed to stormwater runoff	Training Event/Internet	Chemical applicators	Phosphate, Nitrate	4.2.1d & e
Public Notices	To comply with applicable state and local laws governing this activity	Publications, Internet	Public	All	4.2.2

C. Note specific successful outcome(s) (NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period.

- Adopt A Stream:
  - Knox County Stormwater Management is the Knox County facilitator for the Water Quality Forum's Adopt a Stream Program. This program is a citizen based clean up and monitoring program that allows interested groups/individuals to actively engage in removing litter and visually assessing the quality of the adopted stream. Currently, Knox County has 3 active groups. In this reporting period:
    - 4 stream clean-ups were conducted that resulted in approximately 670 pounds of trash being removed from County creeks.
    - 4 visual stream assessments were conducted. The stream assessments look at 10 parameters of stream health and are rated using the USDA Stream Visual Assessment Protocol.
    - 1 training session was held by Knox County Stormwater Management. The training sessions teach new groups the basics of watershed science and stream health. They also introduce groups to the concepts of point and non-point source pollution.
    - Approximately 20 citizens were actively engaged in assessing and cleaning of local creeks.

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

- Rain Barrel Program:
  - Knox County in conjunction with the Water Quality Forum hosted three rain barrel workshops in this reporting period. 123 people attended making 113 rain barrels. Attendees receive 45-minutes of stormwater pollution prevention education prior to making the rain barrels. The workshops were held on 4/28/2012, 5/19/2012 and 6/23/2012.
  - Knox County in conjunction with the City of Knoxville and the Town of Farragut held a one day truckload sale of rain barrels and compost bins on 6/19/2012. 396 rain barrels were sold that day.
  - 25 rain barrels were painted and sold through a partnership with the Water Quality Forum's Rainy Day Brush Off program. Knox County took the lead on organizing this event.
  - For this reporting period, 543 rain barrels have been sold.
- Website Complaint/Queries:
  - Knox County Stormwater Management implemented a "contact us" button on our website in November of 2010. In this reporting period, 84 inquiries have come in to this office related to stormwater issues.
- Speaking Engagements:
  - Knox County Stormwater Management had the opportunity to talk with 144 people via four speaking engagements/workshops geared directly at discussing stormwater pollution and stormwater pollution prevention techniques that homeowners and businesses can implement to reduce site level pollution.
- Adopt A Watershed:
  - Knox County Stormwater Management sponsors a 7- member AmeriCorps Water Quality Team that is trained to assist teachers in conducting quality watershed place-based learning projects. Knox County is dedicated to inspiring students to become watershed stewards who strive to create a healthy quality of life for current and future generations.
  - *This section will be divided into two parts. The first section relates to the MEASURABLE outcomes (ie..numbers...) associated with this part of Knox County Stormwater Management's public education program. The second section details the learning opportunities for Knox County students associated with the Adopt A Watershed program.*
  - **Section I: Measurable Outcomes:**
    - Middle and high school students were involved in AAW projects that directly improved the health our local watersheds:
      - 4-invasive species removal days were held during tis reporting period. 92 community members were engaged removing over 1600 pounds of vegetation.
      - 7-tree and native plant/grass planting days were held during this reporting period. 464 community members were involved planting 75 trees and 177 plants.
      - 2-stormwater retrofit projects were implemented at Knox County Schools through the Adopt a Watershed Program. See below for details:
        - 35 students installed 17-catch basin inserts at Karns High School in the Beaver Creek watershed. Students dried and weighed the sediment collected. 100 pounds of sediment were removed from the catch basin inserts. In addition, 17 storm drain decals were added to catch basins on the campus.
        - 321 students laid matting and planted grass seed to stabilize approximately 2100 square feet of eroded hillside at West Valley Middle School in the Ten Mile Creek watershed.
  - **Section II: Additional Adopt A Watershed Public Education Outcomes:**
    - **1811 middle and high students** in Adopt-A-Watershed (AAW) water quality educational activities with each activity lasting between 60 – 90 minutes.
    - 95% percent of these students were engaged in **five or more educational activities**
    - **1573 middle and high school students** were involved in AAW projects that improved the health of and/or quality-of-living in our local watersheds.
    - Watershed improvement projects included the following:
      - **Beaver Creek Watershed:**
        - Science classes laid woodchips in the South Doyle Middle School Outdoor Classroom, covering the amphitheater area and 300 ft of trail that runs to Baker Creek. The woodchips provide a more accessible outdoor learning space and ground cover for the heavily walked area and help to prevent erosion.

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

- Ecology class created a green roof display using a design from the previous year's class. The display demonstrates the various layers of a green roof and their function.
- Wildlife class created native warm season grass timeline posters to promote the installation of native warm season grasses in the Gibbs Outdoor Classroom (GOC).
- Ecology class helped in maintaining the GOC, including removing weeds and trash and reinstalling trail edging.
- Forestry and Greenhouse Management classes removed over 900 lbs of invasive species in the Halls Outdoor Classroom (HOC) and picked up 150 lbs of trash around Halls High School campus.
- Greenhouse Management classes helped in maintaining the HOC and preparing for the 2012 HOC Spring Celebration, including mulching trails and removing weeds and trash. Greenhouse students also worked on establishing the HOC arboretum by installing signs and mulching trees. On May 21<sup>st</sup>, 2012, the Tennessee Urban Forestry Council certified the HOC as a *Level 1 Arboretum* through its Arboretum Certification Program supported by the TN Division of Forestry.
- Environmental Chemistry classes brainstormed and developed simple visual demonstrations to present pollution concepts. The materials for these demonstrations will be stored in an easily transportable box known as the "stormwater traveling road show" and can be taken to schools, community groups, and public outreach events.
- Environmental Chemistry class painted two rain barrels that will be installed on the HOC pavilion.
- Art classes constructed 60 clay tiles focusing on nature and/or school related designs. The tiles were installed on the wooden posts and beams of the HOC pavilion.
- Construction Core class built and installed 8 benches for the HOC pavilion.
- Ecology class participated in the WaterFest Poetry and Arts Competition, weeded and planted the HOC quilt garden, and created informational signs for the rain barrels at the HOC Spring Celebration.
- Science class performed maintenance on the front and back rain gardens and continued work on the Rain Garden Maintenance Manual.
- Science classes created a Rain Garden Maintenance presentation to be used in conjunction with the manual to train future classes and faculty about how to care for their gardens.
- **First Creek Watershed**
  - Honors Biology class wrote and filmed a stormwater pollution PSA aimed at students on high school campuses.
  - Ecology class studied stormwater on the Central High School campus. Students created a large map denoting the location of all stormdrains and dumpsters on campus and also determined the direction of stormwater flow. This map can be used by the school when they create their stormwater pollution prevention plan (SWPPP).
- **Love Creek Watershed**
  - class hosted a Stormwater Awareness Day for ~90 6<sup>th</sup> graders. Students rotated through 6 stations taught by the 7<sup>th</sup> graders and covered the topics of land use pollutants, impervious surfaces, sediment pollution, BMPs, water chemistry, and benthic macroinvertebrates.
- **Lyon's Creek Watershed**
  - AP Environmental Science class researched and created a PowerPoint presentation to raise community and school awareness of the Carter OC. The presentation was given to the Carter community's Optimist Club and later to its Republican Club.

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

- Ecology classes installed a 275 ft walking trail in the Carter OC. The trail provides a walking path that leads to the newly built stage and seating area.
- *Chemistry in the Community* class designed and built a trash display box. The students picked up litter on campus and then researched decomposition rates. The trash display will be used as an educational material for Adopt-A-Stream (AAS).
- **Stock Creek Watershed**
  - Ecology class conducted a SWPPP investigation of their campus and in doing so, developed a map of campus storm drains, potential sources of stormwater pollution, and patterns of runoff flow. In addition, students identified several areas where stormwater pollution was occurring that could become future AAW service projects.
  - Wildlife Management courses (1<sup>st</sup> and 2<sup>nd</sup> period) enhanced the wildlife habitat of a landowner's property along Stock Creek. 1st period built and installed two wood duck boxes while 2<sup>nd</sup> period planted two chokeberry shrubs and two winged sumac trees to provide cover and forage for birds and small mammals.
  - Ecology class installed erosion control measures at a site on campus that was actively eroding into two storm drains. This was one of the sites that her fall Ecology class identified needing attention. The spring students laid down erosion control matting and planted fescue.
  - *Principles of Agriculture* class learned about the benefits of native grasses. Students then planted five switch grass plugs and maintained them throughout the semester, later donating them to West Valley Middle School for planting in their OC.
  - Forestry classes (1<sup>st</sup> and 2<sup>nd</sup> period) helped to remove invasive species at the Governor John Sevier home. Students removed over two full pickup truck loads of privet and honeysuckle.
  - AP Government students worked on two research projects. During the fall semester, students researched and prepared five brochures, each covering a different conservation program available to Tennessee landowners interested in undertaking projects to promote natural resources on their land. During the spring semester, students created a display on the Stock Creek watershed that emphasizes the importance of the creek to the South Knoxville community. This project is currently on display at the Bonny Kate Public Library.
- **Ten Mile Creek Watershed**
  - Science classes installed native plants to enhance the WVM OC and rain garden. Students planted 84 herbaceous plants and 28 shrubs.
  - Science classes installed 41 native trees within the WVM OC as its first steps toward creating a *Level 1 Arboretum*.
- **Third Creek Watershed**
  - Environmental Science classes designed and built a trash display box. The students picked up 25 bags of litter on campus and then researched decomposition rates. The trash display is intended to serve as an AAS educational tool.
  - Environmental Science class initiated a media campaign to increase the number of votes for 7 *Rainy Day Brush Off* artists by creating flyers and radio/newspaper advertisements. Also, the class painted two rain barrels that will be installed in the West High OC to water raised garden beds.

D. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program?  Yes  No

E. Provide a summary of all public meetings required by the permit. No public meetings were required during this permitting period.

## 5. CODES AND ORDINANCES REVIEW AND UPDATE

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

- A. Is a completed copy of the EPA Water Quality Scorecard submitted with this report?  Yes  No
- B. Include status of implementation of code, ordinance and/or policy revisions associated with permanent stormwater management.  
The EPA Water Quality Scorecard has been completed and included with this annual report.

### 6. CONSTRUCTION

- A. Do you have an ordinance or adopted policies stipulating:
- |  |   |                             |
|--|---|-----------------------------|
| Erosion and sediment control requirements?           | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Other construction waste control requirements?       | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Requirement to submit construction plans for review? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| MS4 enforcement authority?                           | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- B. How many active construction sites disturbing at least one acre were there in your jurisdiction this reporting period? 160 Residential and 33 Commercial
- C. How many of these active sites did you inspect this reporting period? 193
- D. On average, how many times each, or with what frequency, were these sites inspected (e.g., weekly, monthly, etc.)? monthly
- E. Do you prioritize certain construction sites for more frequent inspections?  Yes  No  
If Yes, based on what criteria? All sites are considered priority sites in Knox County and monthly inspections are done for each site. Additional inspections are done for active construction and installation of infrastructure (e.g., road and pipe installation), NOV (notice of violation) follow up and work orders.

### 7. ILLICIT DISCHARGE ELIMINATION

- A. Have you completed a map of all outfalls and receiving waters of your storm sewer system?  Yes  No
- B. Have you completed a map of all storm drain pipes of storm sewer system?  
Knox County is working on inventorying the storm sewer system. This is a requirement of the new permit and it is anticipated that this will be completed by the end of the permit cycle.  Yes  No
- C. How many outfalls have you identified in your system? 2770; 1047 pipes, 1635 ditches, 88 springs
- D. How many of these outfalls have been screened for dry weather discharges? Knox County has not completed any "planned" dry weather screening. As part of the required visual assessments, Knox County is walking all streams. In the event that discharges are found, Knox County documents and tests each discharge to determine if it is an illicit discharge. If so, Knox County initiates steps to correct the connection. In addition, Knox County has delineated the major outfalls in the County and is in process of implementing a strategic dry weather screening program.
- E. How many of these have been screened more than once? 0
- F. What is your frequency for screening outfalls for illicit discharges? Currently, Knox County does not have a standard operating procedure (SOP) for this, but is documenting any illicit discharges found while conducting visual assessments on all of the streams within the jurisdiction. Knox County is currently finalizing the SOP for screening outfalls for illicit discharges.
- G. Do you have an ordinance that effectively prohibits illicit discharges?  Yes  No
- H. During this reporting period, how many illicit discharges/illegal connections have you discovered (or been reported to you)? 26 reported to Stormwater Management and 141 to the Health Department—167 total
- I. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated? 161/167 total were eliminated. In addition, Knox County Soil Conservation District has also completed 6 septic repairs in the Bull Run Creek watershed.

### 8. STORMWATER MANAGEMENT FOR MUNICIPAL OPERATIONS

- A. Have stormwater pollution prevention plans (or an equivalent plan) been developed for:
- |  |                              |  |
|--|------------------------------|--|
| All parks, ball fields and other recreational facilities | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| All municipal turf grass/landscape management activities | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

- All municipal vehicle fueling, operation and maintenance activities  Yes  No
- All municipal maintenance yards  Yes  No
- All municipal waste handling and disposal areas – These facilities have NPDES Solid Waste Permits and are inspected by TDEC at least every 6 months.  Yes  No

\*Knox County will be developing stormwater pollution prevention plans for all above facilities in accordance with our Notice of Intent (NOI).

- B. Are stormwater inspections conducted at these facilities?  Yes  No
1. If Yes, at what frequency are inspections conducted? Yes, inspections are conducted but only at the Engineering and Public Works facility every two weeks. The municipal waste handling and disposal areas (solid waste facilities) are inspected by TDEC at least every 6 months. Inspections of other facilities will be added in accordance with our Notice of Intent (NOI).
- C. Have standard operating procedures or BMPs been developed for all MS4 field activities? (e.g., road repairs, catch basin cleaning, landscape management, etc.)
- Knox County does not have written SOPs for all MS4 field activities, but the Highway Department is currently working on writing them. The Knox County Highway Department follows TDEC’s Erosion and Sediment Control Handbook for BMP’s and highway crews are required to have Level I training and certifications. Knox County applies for any necessary permits from TDEC for highway projects, when warranted. SOPs will be developed in accordance with our NOI.  Yes  No
- D. Do you have a prioritization system for storm sewer system and permanent BMP inspections?
- Knox County’s district supervisors are familiar with roads that typically flood or that are known problem areas. Crews try to inspect and perform preventative maintenance on those areas prior to any anticipated severe weather event.  Yes  No
- E. On average, how frequently are catch basins and other inline treatment systems inspected? As needed.
- F. On average, how frequently are catch basins and other inline treatment systems cleaned out/maintained? These are cleaned-out on a complaint basis or as needed.
- G. Do municipal employees in all relevant positions and departments receive comprehensive training on stormwater management?  Yes  No
- H. If yes, do you also provide regular updates and refreshers?  Yes  No
- If so, how frequently and/or under what circumstances? annually

### 9 PERMANENT STORMWATER CONTROLS

- A. Do you have an ordinance or other mechanism to require:
- Site plan reviews of all new and re-development projects?  Yes  No
- Maintenance of stormwater management controls?  Yes  No
- Retrofitting of existing BMPs with green infrastructure BMPs?  Yes  No
- B. What is the threshold for new/redevelopment stormwater plan review? (e.g., all projects, projects disturbing greater than one acre, etc.) All projects disturbing greater than 1-acre or adding 10,000 sq ft impervious area.
- C. Have you implemented and enforced performance standards for permanent stormwater controls? We do have performance standards, but we do not have the resources to enforce them at this time.  Yes  No
- D. Do these performance standards go beyond the requirements found in paragraph 4.2.5.2 and require that pre-development hydrology be met for:
- Flow volumes  Yes  No

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

- Peak discharge rates  Yes  No
- Discharge frequency  Yes  No
- Flow duration  Yes  No

E. Please provide the URL/reference where all permanent stormwater management standards can be found.

[http://www.knoxcounty.org/stormwater/proposed\\_stormwater\\_ordinance.php](http://www.knoxcounty.org/stormwater/proposed_stormwater_ordinance.php)

F. How many development and redevelopment project plans were reviewed for this reporting period? 39

G. How many development and redevelopment project plans were approved? 35

H. How many permanent stormwater management practices/facilities were inspected?

*Knox County is working on meeting this requirement within the timeframe stated in the permit.*

I. How many were found to have inadequate maintenance? *N/A. See above.*

J. Of those, how many were notified and remedied within 30 days? (If window is different than 30 days, please specify) *N/A. See above.*

K. How many enforcement actions were taken that address inadequate maintenance? *N/A. See above.*

L. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance?

*Knox County has implemented CityWorks which is a comprehensive GIS based data system that will track all permanent stormwater BMPs, inspections and maintenance.*

Yes  No

M. Do all municipal departments and/or staff (as relevant) have access to this tracking system?  Yes  No

N. Has the MS4 developed a program to allow for incentive standards for redeveloped sites?  Yes  No

O. How many maintenance agreements has the MS4 approved during the reporting period? 31

### 10. ENFORCEMENT

A. Identify which of the following types of enforcement actions you used during the reporting period, indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater control) or note those for which you do not have authority:

Action	Construction	Permanent Stormwater Controls <sup>2</sup>	Illicit Discharge	Authority?
Notice of violation	# <u>163</u>	# <u>N/A</u>	# <u>46</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Administrative fines	# <u>N/A</u>	# <u>N/A</u>	# <u>N/A</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

• Note on “Administrative fines”: Knox County Stormwater Management currently includes any administrative fines as a package with incurred civil penalties. We do not submit a separate penalty for this category.

Stop Work Orders	# <u>18</u>	# <u>N/A</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Civil penalties	# <u>27</u>	# <u>N/A</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Criminal actions	# <u>0</u>	# <u>N/A</u>	# <u>0</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Administrative orders	# <u>0</u>	# <u>N/A</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Other: holds placed on building permits	# <u>9</u> <sup>1</sup>	# <u>N/A</u>	# <u>0</u>	

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

<sup>1</sup> Note related to “Construction: Other: holds placed on building permits”: If someone owns multiple lots in a subdivided area, Knox County issues ONE hold for all of the lots in violation. For example if an NOV is issued to company “x” for violations on 20 different lots, one hold is placed on all 20 lots.

<sup>2</sup> Note related to “Permanent Stormwater Controls”: We currently have an inventory and tracking system for permanent stormwater BMPs as required in the NPDES permit under which Knox Co. received coverage in May 2010. Knox Co. does respond to citizen complaints of damaged or non-functioning permanent stormwater controls.

B. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions in your jurisdiction?  Yes  No

C. What are the 3 most common types of violations documented during this reporting period?

1. Three most common Construction Site Runoff Control Program violations:
  - a. Temporary erosion prevention/sediment controls are not properly installed, functional and/or maintained. Sediment has the potential to leave the site.
  - b. Failure to temporarily stabilize non-vegetated areas within 15days since location was actively worked. This includes individual building lots.
  - c. Failure to install erosion prevention and sediment controls before earth-moving operations begin.
2. Three most common Illicit Discharge violations:
  - a. Failing or leaking sewer and septic systems
  - b. Dumping of yard waste in storm sewer system
  - c. Dumping of other materials in storm sewer system

### 11. PROGRAM RESOURCES

- A. What was your annual expenditure to implement the requirements of your MS4 NPDES permit and SWMP this past reporting period? \$1,164,906.21
- B. What is next year’s budget for implementing the requirements of your MS4 NPDES permit and SWMP? \$1,174,803.55
- C. Do you have an independent financing mechanism for your stormwater program?  Yes  No
- D. If so, what is it/are they (e.g., stormwater fees), and what is the annual revenue derived from this mechanism?  
 Source: n/a Amount \$ n/a  
 Source: n/a Amount \$ n/a
- E. How many full time employees does your municipality devote to the stormwater program (specifically for implementing the stormwater program vs. municipal employees with other primary responsibilities that dovetail with stormwater issues)? 23
- F. Do you share program implementation responsibilities with any other entities?  Yes  No

Entity	Activity/Task/Responsibility	Your Oversight/Accountability Mechanism
University of Tennessee	Public Outreach and Involvement	Projects are done cooperatively between agencies and summary reporting is provided annually.
Town of Farragut	Public Outreach and Involvement	Projects are done cooperatively between agencies and summary reporting is provided annually.

### 12. EVALUATING/MEASURING PROGRESS

- A. What indicators do you use to evaluate the overall effectiveness of your Stormwater Management Program, how long have you been tracking them, and at what frequency? Note that these are not measurable goals for individual BMPs or tasks, but large-scale or long-term metrics for the overall program, such as in-stream macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

Indicator	Began Tracking (year)	Frequency	Number of Locations
Example: E. coli	2003	Weekly April–September	20
E. Coli	2003	Varies	30
Benthics	1998	Varies	14
Tree Cover	2001	10 years	All of Knox County
Stream Inventory	2008	5 years	Listed Streams

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

- B. Provide a summary of data (e.g., water quality information, performance data, modeling) collected in order to evaluate the performance of permanent stormwater controls installed throughout the system. This evaluation may include a comparison of current and past permanent stormwater control practices.

Knox County has taken a watershed approach to improve water quality. Knox County has created several watershed initiatives which encompass the Lower Clinch and Fort Loudon watersheds. Within these watersheds stormwater staff has developed the Beaver Creek, Bullrun Creek, and Stock Creek watershed initiatives. The task forces meet regularly to discuss ways to target problems based upon existing data and to target data collection based upon strategies implemented. Knox County coordinates monitoring efforts based upon our partners required monitoring and what stormwater staff believes are useful data sets. Some data is generated based upon grants received from partnership efforts.

Knox County used Integrated Pollution Source Index (IPSI) data from TVA to help guide efforts in Stock Creek and Bullrun Creek which primarily focused on bacteria sources. Knox County continues monitoring both streams for bacteria with the help of partners Knox Chapman Utility, Halls-Dale Powell Utility, UT, and TVA. Knox County plans to continue monitoring these streams to evaluate any improvements that may result from Ag improvements and sewer and septic rehabilitations. Knox County plans to determine bacteroides when it will help guide strategy.

There have been numerous studies done on Beaver Creek over the last Ten years. Knox County has used these studies to help develop watershed management plans. The watershed plan is the guiding document for grants received to improve Beaver Creek. Knox County is focusing on retrofits in Beaver Creek to improve water quality in different land uses such as Ag, parks, and residential areas. The Stormwater department collected benthic samples in Beaver Creek for our TMDL and 303d listed monitoring requirements this summer. A benthic sample was collected in the Halls Community Park restoration project to see if the restoration is improving habitat. Stormwater staff is waiting on the results. Several samplers have been installed in Cedar Crossing subdivision to monitor storm water runoff in anticipation of installing bioinfiltration systems to determine its effectiveness in reducing pollutants as well as volume reduction. Stormwater staff collected bacteria samples this summer for our 303d listed stream segments in the Lower Clinch watershed. The data is currently being reviewed.

Prior to 2005, when most of the built environment occurred, Knox County stormwater requirements focused on peak flow mitigation. Knox County updated its stormwater ordinance to include a “first flush” requirement and buffer regulation in 2005. In 2008 Knox County updated its ordinance to include water quality volume requirements that include an 80% TSS removal component and a buffer requirement. Since 2008 Knox County has created 139 maintenance agreements for permanent stormwater controls related to new developments.

### 13. STORMWATER MANAGEMENT PROGRAM UPDATE

- A. Describe any changes to the MS4 program during the reporting period including but not limited to:

Changes adding (but not subtracting or replacing) components, controls or other requirements per **paragraph 4.4.2.a** of the permit. None this reporting period.

Changes to replace an ineffective or unfeasible BMP **per paragraph 4.4.2.b** of the permit. None this reporting period.

Information (e.g. additional acreage, outfalls, BMPs) on program area expansion based on annexation or newly urbanized areas. None this reporting period.

Changes to the program as required by the division. None this reporting period.

## Small Municipal Separate Storm Sewer System (MS4) Annual Report

### 14. CERTIFICATION

**This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.**

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Printed Name and Title	Signature	Date
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**Annual reports must be submitted in accordance with the requirements of subpart 5.4. (Reporting) of the permit. Annual reports must be submitted to the appropriate Environmental Field Office (EFO) by September 30 of each calendar year, as shown in the table below:**

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	540 McCallie Avenue STE 550	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 432-4015
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000