



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Nonpoint Source Program Annual Report FFY2019



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GEORGIA'S NONPOINT SOURCE PROGRAM ANNUAL REPORT FFY2019

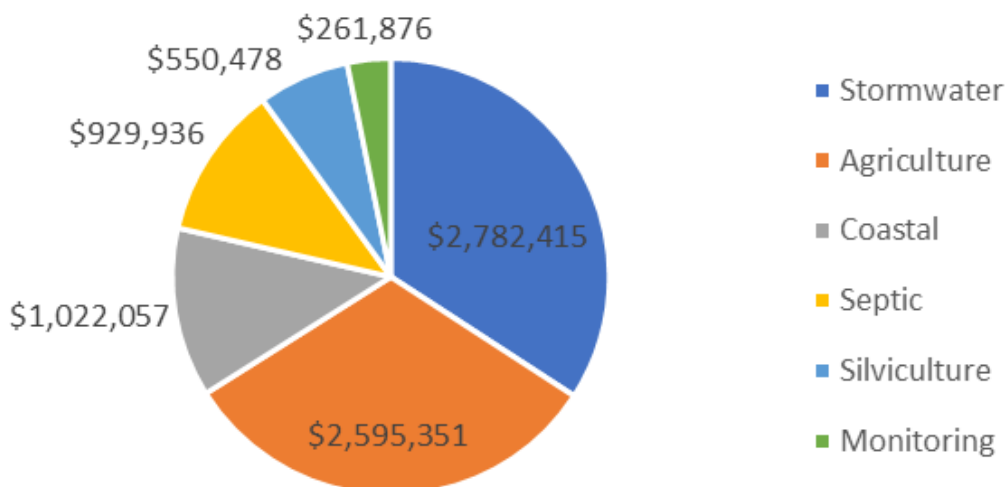
INTRODUCTION



The Georgia Environmental Protection Division (GA EPD) functions as the lead agency for administering and implementing both regulatory and non-regulatory activities under the Watershed Protection Branch Nonpoint Source Program (NPSP). In accordance with Section 319(h)(11) reporting requirements, the Georgia NPSP Annual Report delineates progress and success achieved during the federal fiscal year (FFY) in meeting Statewide Milestones for Water Quality Improvement outlined in the current *Georgia Statewide Nonpoint Source Management Plan*. The following annual report presents NPSP efforts and accomplishments (whether or not funded directly by Section 319(h) grants) during the FFY2019 reporting period of October 2018-September 2019, as well as activities proposed for FFY2020.

During FFY2019, the NPSP implemented statewide water quality improvement projects by administering **46** active Section 319(h) Grant contracts totaling over **\$9.5 million** in federal funds and **\$7.6 million** in matching funds or in-kind services. **Forty (40)** of these contracts were for external projects (**\$8.1 million** in federal funds) with components that included BMP implementation (agricultural, GI/LID urban stormwater, forestry), septic repair, stream restoration, and educational outreach. The chart below breaks out project components by federal amounts for all external sub-grants active during October 2018 through September 2019 (no matter what fiscal year the grant was awarded).

External Project Components by Federal Funding Amounts



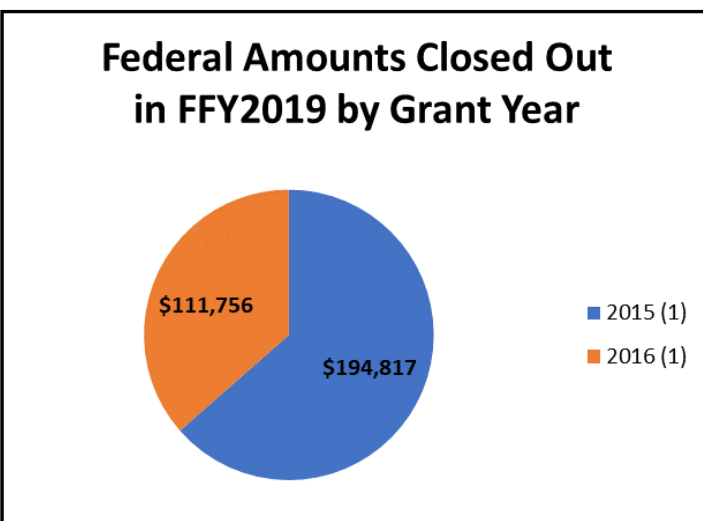
319(h) FFY2019 GRANT CALL

In July 2018, the NPSP announced that FFY2019 Section 319(h) Grant funds would be available for 60/40 cost-share allocation to competitive projects implementing existing or alternatives to Watershed-Based Plans (WBPs). A required on-line Pre-application Webinar was conducted on two occasions (September 6 and October 3, 2018). A total of **46 participants** for both sessions called in to discuss the application process and clarify questions on project eligibility. In addition, Grants Unit Staff reviewed and commented in writing on draft applications received by September 28, 2018.

The NPSP received **16** proposals by the October 31, 2018, deadline, representing over **\$3.9 million** in grant requests to fund water quality projects. The proposals were reviewed in Winter 2019 by the NPSP manager, Grants Unit staff, and a U.S. Environmental Protection Agency (USEPA) representative. **Eight** projects requesting a total of almost **\$1.96 million** in federal funding were selected for competitive awards. The remaining funds were distributed to ongoing GA EPD NPS programs or noncompetitive projects that are administered by State agencies and local partners.

Selection of FFY2019 Section 319(h) Competitive Grant Award Recipients			
Recipient	Federal Funding	Match Funding	Project Type
Seven Rivers RCD	\$143,493	\$95,663	WBP Implementation
Camden County	\$212,000	\$140,331	Septic System Repair
GSWCC	\$400,000	\$267,685	WBP Implementation
City of Chamblee	\$400,000	\$400,000	Stream Restoration
Brier Creek SWC District	\$212,595	\$150,263	WBP Implementation
City of Brookhaven	\$350,000	\$350,000	Stream Restoration
University of Georgia	\$118,446	\$79,000	Green Infrastructure
Limestone Valley RCD	\$125,300	\$109,400	WBP Implementation

319(h) PROJECT CLOSE-OUTS IN FFY2019



The Grants Unit closed out a total of **two (2)** Section 319(h) Grant projects between October 2018 and September 2019, representing approximately **\$306,000** in federal funds and approximately **\$210,000** in local match. Both contracts were with local organizations to install on-the-ground BMPs. This value is lower than in years past because none of the USEPA Grant Awards expired in FFY2019. The next federal grant to expire will be FY2015 in March 2020, with an expected significant increase in project close-outs to be reported for FFY2020.

FFY2019 IN REVIEW

TOTAL MAXIMUM DAILY LOADS (TMDLS)

During the FFY2019 reporting period, GA EPD began developing draft TMDLs for **43** segments assigned “Not Supporting” status on the 2018 Georgia 305(b)/303(d) Integrated List of Waters: **16** in the Ogeechee and **27** in the Savannah River Basins. GA EPD also completed and submitted for comment **one** revised draft TMDL for a segment in the Satilla River Basin designated “Not Supporting” due to dissolved oxygen impairment. In addition, USEPA issued final approval for TMDLs covering **seven** segments in the Coosa and **one** segment in the Tallapoosa River Basins. In FFY2020, GA EPD will start drafting **two** TMDLs in the Altamaha River Basin, **12** TMDLs in the Ocmulgee River Basin and **21** TMDLs in the Oconee River Basin for USEPA approval.

WATERSHED-BASED PLANNING & ALTERNATIVES TO NINE-ELEMENT PLANS

NOTE: Map & List of Priority HUC12 Watersheds on pages 22-26.

The Georgia State Water Plan calls for review and update of Regional Water Plans (RWPs) every five years (<https://epd.georgia.gov/updated-regional-water-plans>). The NPSP recognizes RWPs and the Water Resource Management Plan updated in FFY2017 as acceptable alternatives to watershed-based plans that meet USEPA's Nine Elements of Watershed Planning. Combining multiple documents into one Summary that addresses all nine elements is also an acceptable alternative to a watershed-based plan.

In FFY2019, a FFY2018 Section 319(h) grant contract was awarded to develop **two** HUC-10 or smaller watershed-based plans. Under a FFY2016 grant contract due to expire in 2021, **one** new *Chickasawhatchee Creek Watershed Management Plan (2018)* and **one** update to an existing *Watershed Management Plan for Coosawattee River-Carters Lake (2019)* were completed. Updates to the *Soque River Watershed Protection Plan (2017)* were completed in a FFY2015 grant project to expire December 2019.

In addition, **one** FFY2017 Section 106 Grant contract to develop a nine-element *Watershed Management Plan for the Brushy Creek Watershed (2018)* in the Savannah River Basin expired December 31, 2018. **Three** SFY2018 RWP Seed Grants to update HUC-10 or smaller watershed-based plans will expire December 2019, June 2020, and August 2020, respectively. The RWP Seed Grant updates will support the implementation of management practices identified in associated RWPs: *2017 Auchumpkee Creek and Ucohatchee Creek Watershed Management Plan* (Middle Ocmulgee and Upper Flint RWPs); *2011 Woodward Creek Watershed Management Plan* (Coosa-North Georgia RWP); and *2011 Long Cane Creek Watershed Management Plan* (Middle Chattahoochee RWP).

OUTREACH & EDUCATION

The Outreach Unit consists of the Georgia Adopt-A-Stream (Rivers Alive Cleanups), Georgia Project WET (River of Words (ROW) Poetry & Art) environmental education programs. These platforms focus on nonpoint source pollution issues to educate and engage the public in watershed protection activities. Achievements during the FFY2019 reporting period included **323** Adopt-A-Stream QA/QC workshops certifying **1,850** water quality monitoring volunteers; **5,564** water quality testing events by **219** groups at **695** active monitoring sites; **240** Rivers Alive cleanups involving **23,756** volunteers who removed **495,860** pounds of trash. In addition, Project WET conducted **29** certification training sessions resulting in **574** educators certified in water science education and facilitated the participation of **approximately 1,600** K-12 students in River of Words poetry and art projects.

FFY2019 IN REVIEW

ADDRESS GROUNDWATER PROTECTION

During the FFY2019 reporting period, GA EPD's Wastewater Regulatory Program (WRP) received significant comments on an internal guidance document prepared in FFY2017. GA EPD is collecting additional public input for further development prior to finalizing the document. **Thirty-eight** site visits and **81** compliance inspections - **two** by the Watershed Compliance Program (WCP) and **117** by statewide District Offices - were conducted for LAS permit holders. In addition, **12** corrective action plans were reviewed by GA EPD District staff: **one** in the Coastal District; **three** in the East Central District; **two** in the Mountain-Cartersville District; **one** in the Mountain District-Metro; **three** in the Southwest District; and **two** in the West Central District.

WETLANDS WATER QUALITY CERTIFICATION

During October 2018-September 2019, the Wetlands Unit issued **41** CWA Section 401 water quality certificates for dredge/fill impact projects. In continuation of an in-depth, on-going 2017 study of wetland hydrology/hydric soils, the Unit conducted initial phase reconnaissance of wetland lowland terrain and test samplings of hydric soil profiles at **five** reference-quality sites previously established in Georgia DNR Wildlife Management Areas within the lower Piedmont (Ecoregion 45) and upper Southeastern Plains (Ecoregion 65). Under the auspices of a FFY2018 USEPA wetland program development grant, the Wetlands Unit made contact with the Georgia Department of Transportation (GDOT) Ecology Section to collect archived plans and files for wetland mitigation sites implemented by GDOT over the past 15-25 years, and commenced initial field assessment of selected mitigation sites in southeast Georgia. The Unit also continued development of a database system designed to address wetland as well as stream, lake and biological monitoring data.

FLOODPLAIN AND FLOOD RISK MANAGEMENT

The Floodplain Management Unit (FMU) works as a Cooperative Technical Partner (CTP) with the Federal Emergency Management Agency (FEMA) to help communities better identify, assess, and communicate their vulnerability to flood hazards. During FFY2019, the FMU continued to advance Flood Risk Map studies in **11** watersheds. New maps became effective for communities in **11** counties, while Letters of Final Determination (LFDs) were issued in **two** counties. Engineering hydraulic and hydrologic studies are ongoing in **three** counties, with results of **one** hydraulic and **one** hydrologic study presented in Summer 2019.

In FFY2019, **nine** new communities enrolled in the National Flood Insurance Program (NFIP) to bring the total of NFIP participating communities up to **570** and **81** communities with mapped Special Flood Hazard Areas left to join. There are currently **53** communities in Georgia participating in the NFIP's Community Rating System (CRS), a voluntary incentive program that encourages communities to reduce flood damage risk. In support of FEMA, the FMU sent General Technical Assistance letters to **66** NFIP participating communities covered under the Presidential Disaster Declaration DR-4400 related to Hurricane Michael, while NFIP information and application documents were sent to **18** non-participating communities.

Also, the FMU conducted a week-long course (January 28, 2019 to February 1, 2019) entitled "Managing Floodplain Development through the National Flood Insurance Program" (L-273) in
(TO BE CONTINUED)

FFY2019 IN REVIEW

FLOODPLAIN AND FLOOD RISK MANAGEMENT (CONTINUED)

McDonough. Reports on Discovery meetings held 5/1/2019 were completed on 6/30/2019. And, the **first of six** Flood Risk Review Meetings was conducted in September 2019 to present draft flood insurance rate maps, and **one** Resilience Meeting was held on 9/26/2019.

During the reporting period, the FMU conducted Community Assistance Visits (CAVs) in **seven** municipal jurisdictions to provide technical assistance and assure that the communities are adequately enforcing floodplain management regulations. In addition, the FMU conducted **95** Community Assistance Contacts (CACs) to assess local floodplain management ordinances and enforcement practices in NFIP participating communities.

In FFY2019, the FMU continued to maintain and update the Georgia Flood M.A.P. web site <http://www.georgiadfirm.com/> and to migrate historical engineering data inventory and hydraulic model information to the online Flood Model Search Application for estimating base flood elevations and updating current maps through Letters of Map Changes (LOMCs). In addition, contracts have been established with NOAA and USGS (FY17, FY18 and FY19) to bring Quality Level 2 LiDAR technology to the entire State by 2022 that will support Risk MAP and Base Level Engineering Studies.

SAFE DAMS AND NONPOINT SOURCE POLLUTION CONTROL

The Safe Dams Unit inventories, classifies, inspects and permits (as appropriate) more than **4,100** dams in Georgia, including several coal ash ponds. **Approximately 500** of these are currently classified as high hazard dams. During FFY2019, the Safe Dams Unit hosted **two** Dam Owner Workshops on dam basics, proper inspection and maintenance, Emergency Action Plans, and liability to a combined audience of **87** dam owners. Increased efforts to permit Category 1 (high hazard) dams have resulted in dam upgrades or removals with Unit staff ensuring that proper sediment and erosion controls are in place to reduce potential nonpoint source pollution.

REGIONAL WATER PLAN SEED GRANTS

GA EPD awards State funds on a competitive basis to support and incentivize local, regional and State units of government in their responsibilities to coordinate and implement management practices or other recommendations identified in appropriate Regional Water Plans. Eligible grant proposals are limited to a maximum of \$75,000 and 30 months in duration and must include a letter of endorsement from the Chair or designated representative of the relevant regional Water Planning Council(s). In addition, local authorities operating government service delivery programs, regional commissions, resource conservation and development councils, local public and State school systems, colleges and universities, and State agencies are eligible for Regional Water Plan Seed Grant funds.

During FFY2019, a total of **\$170,000** in available State funds were awarded as competitive, cost-share grants to **three** statewide proposals. The projects included developing innovative technologies to produce a 20% increase in pecan irrigation water use efficiency (\$75,000); updating municipal water, wastewater and stormwater infrastructure GIS databases (\$20,000); and implementing a public, web-based data network to provide crucial baseline and continual interval data over an interface dashboard (\$75,000).

FFY2019 IN REVIEW

319(h) GRANT FINANCIAL REPORTING

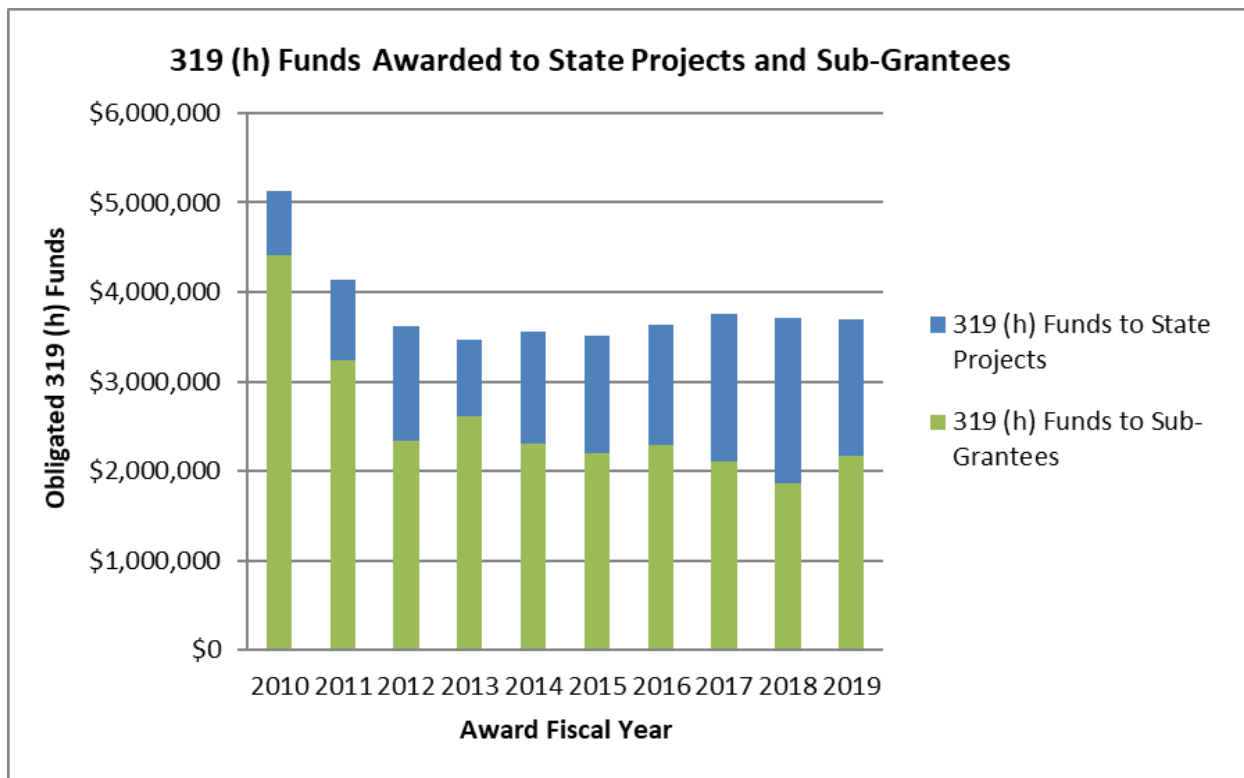
In the reporting period for FFY2019, the NPSP Grants Unit continued to track the status of project activities and the expenditure of federal and matching funds. Project Schedules negotiated with sub-grantees provided distinct timeframes for each project task and estimated the associated expenditures by quarter.

Sub-grantees submitted required quarterly and annual reports and invoices to keep track of project status according to implementation and drawdown schedules and budget allocations. These reports allow Grants Unit staff to recognize the need for contract amendments in enough time to address any issues that may develop. Grants Unit staff used the reports to track progress and work more pro-actively with sub-grantees to address any potential issues.

The Grants Unit continued to develop new tools and procedures to enable better grant management. A Grant Administration training has been scheduled for November 2019, and a Technical Assistance training is planned for 2020. Both will be summarized in the FFY2020 NPSP Annual Report.

The NPSP also continues to work with both GA EPD and the Georgia Department of Natural Resources (GADNR) administrative and accounting staff to expend federal funds based on quarterly invoicing by sub-grant partners. In addition, the Grants Unit continues to cooperate with GA EPD accounting to provide monthly financial tracking summaries. These summaries calculate both federal and matching expenditures, and update the grant balance accordingly.

The chart below demonstrates that over half of the State's 319(h) funding continues to go to local sub-grantees to implement water quality improvement projects across Georgia.



FFY2019 IN REVIEW

319(h) Success Story: SEPTIC SYSTEM REPLACEMENTS LEADING TO WATER QUALITY IMPROVEMENTS IN HORSEPEN CREEK

In FFY2019, GA EPD submitted for USEPA approval a Type 2 Success Story documenting a 92% reduction in fecal coliform bacteria in an impaired segment of Horsepen Creek.

Starting in 2011, Camden County partnered with a coalition of local, regional and State stakeholders to reduce the impacts of failing septic systems on water quality in the watershed. Phase 1 (2011) included a septic system investigation of county septic records, interviews with local residents, inspections of **16** septic systems, and installation of an advanced treatment system in a public park as a demonstration site. An educational campaign for homeowners about the necessity of and procedures for maintaining septic systems was developed. Materials were distributed to **90** households originally identified as having septic tanks. However, an analysis conducted during this Phase indicated the number to be **approximately 240**, many of which are located immediately adjacent to drainage ditches which discharge directly to the creek. Camden County assumed that older homes are more at risk for septic failures and those systems closest to surface waters are likely contributing the highest loads.

During Phase 2 (2017), Camden County replaced failing septic systems with technologies that meet or exceed current minimum standards (sand filter systems, mounded drainfields, and dosing pumps). The County also implemented a local ordinance requiring scheduled inspections, triggered by a change in property ownership or occupancy, and pump-outs of septic systems. The ordinance states that any real estate transaction of developed property requires the septic system be inspected and allows the County's Department of Public Health to create a data log for all septic systems in the County.

With regular pump-outs and critical system replacements, regular monitoring revealed that the 2018 monthly mean of fecal coliform counts dropped 92%, demonstrating the effectiveness of the program. The decrease also addresses the 2006 Total Maximum Daily Load (TMDL) for Horsepen Creek which requires a 67% reduction in fecal coliform loading to achieve water quality standards and targets failing septic systems as a major source of impairment.

Success Stories allow USEPA to track partially or fully restored water bodies that are impaired by non-point source pollution and count as a key national NPS restoration measure. Qualifications include waters that are listed on a section 303(d) list or on a [Integrated Report \(IR\)](#) as impaired and that have achieved documented water quality improvements attributed to actual NPS control or restoration efforts.

Type 1. *Waters that are Fully or Partially Restored*

- Fully Restored water body meets all water quality standards or designated uses.
- Partially Restored water body meets some water quality standards or designated uses.

Type 2. *Waters that Show Progress toward Achieving Water Quality Goals, but do not yet meet water quality standards*

Type 3. *Waters that show Ecological Restoration based on water quality problems not on impaired list*

Success Story information can be accessed at:

<https://www.epa.gov/nps/success-stories-about-restoring-water-bodies-impaired-nonpoint-source-pollution>

STATE NONPOINT SOURCE PARTNERS

GEORGIA SOIL & WATER CONSERVATION COMMISSION (GSWCC): NPS LEAD FOR AGRICULTURE

During FFY2019, GSWCC and GA EPD continued partnering to reduce NPS pollution and restore water quality in Georgia. Under an ongoing FFY2016 Section 319(h) grant contract, GSWCC established **six** cost-share agreements to install agricultural BMPs in the Scull Shoal Creek subwatershed (Savannah Basin) for \$83,574 federal funds and \$55,716 match.

A statewide desktop mapping exercise to locate areas with high potential NPS agricultural contributions identified Wahoo Creek-Little River (Chattahoochee Basin) and North Fork Broad River-Middle Fork Broad River (Savannah Basin) for development and implementation of watershed management plans under a FFY2018 Section 319(h) grant contract for \$400,000. This grant will also fund agricultural BMPs in Big Generostee Creek-Upper Coldwater Creek and Little Coldwater Creek (Savannah Basin) selected in the mapping exercise. In addition, GSWCC received a FFY2019 competitive grant award of \$400,000 to install BMPs recommended in watershed management plans for the Big Indian Creek and Rooty Creek. And, Brier Creek Soil and Water Conservation District was awarded \$212,595 in a competitive FFY2019 Section 319(h) grant to implement the Brushy Creek Watershed Management Plan completed under a FFY2017 Section 106 grant contract.

GSWCC participated in workshops and feedback sessions held in support of revising the Statewide Nonpoint Source Management Plan and prepared a draft edit of the agricultural section of the Plan for input from the GSWCC Board and UGA Extension. Outreach and education activities to promote the State nonpoint source program included **seven** public meetings and **two** booth presentations.

GEORGIA FORESTRY COMMISSION (GFC): NPS LEAD FOR SILVICULTURE

GFC encourages and monitors voluntary implementation of forestry BMPs statewide, resulting in a silvicultural BMP Implementation and Compliance Survey published every other year. During FFY2019, GFC continued implementation of the FFY2017 Silvicultural Nonpoint Source Management Program grant contract with annual statewide BMP Assurance Monitoring of active forestry operations in watersheds listed for Biota (sediment) impairments on Georgia's Integrated 305(b)/303(d) List of Waters. In addition, GFC provided education/advice/training on forestry BMPs and consulted with Georgia's State Board of Registration for Foresters on BMP negligence in the complaint-resolution process.

During the reporting period, GFC staff completed a total of **96** site inspections and BMP Assurance Exams that included investigations of **31** Initial Complaints, requiring **65** Complaint Site Visits and BMP Assurance Exams, and response to **20** Initial Requests for inspections, requiring **31** Request Site Visits and BMP Assurance Exams. GFC also completed and recorded **206** Forestry BMP Survey Inspections as part of the overall 2019 Forestry BMP Survey (to be fully completed by the end of calendar year 2019).

GEORGIA'S RESOURCE CONSERVATION & DEVELOPMENT COUNCILS AND REGIONAL COMMISSIONS

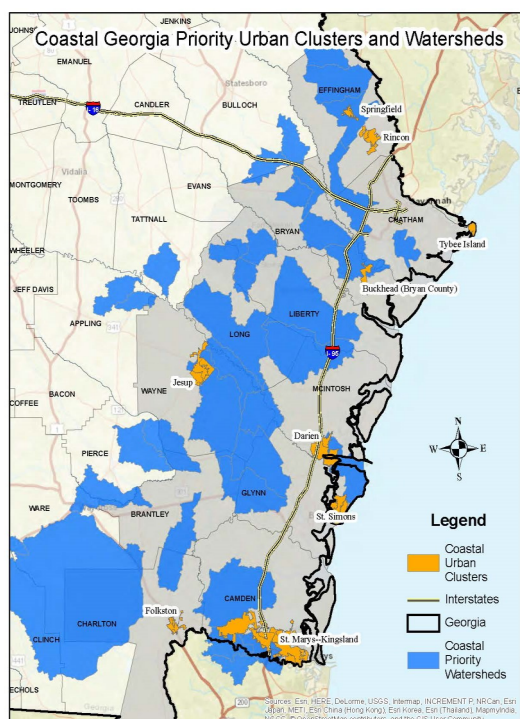
In FFY2019, the NPSP Grants Unit continued to contract with Georgia Resource Conservation & Development Councils (RCDs) and Regional Commissions (RCs) to develop and implement watershed-based plans (WBPs) in order to best meet the goals of the *2014 Georgia's Statewide Nonpoint Source Management Plan*.

STATE NONPOINT SOURCE PARTNERS

GEORGIA DEPARTMENT OF NATURAL RESOURCES COASTAL RESOURCES DIVISION (CRD): IMPLEMENTATION OF THE COASTAL NONPOINT SOURCE PROGRAM (CNPSP)

During FFY2019, federal notice on intent to approve Georgia's *Coastal Nonpoint Source Program* was published on the Federal Register for a 30-day public comment period. No comments were posted, and Georgia received an official Program approval letter from the National Oceanic and Atmospheric Administration (NOAA) and USEPA on November 1, 2018: <https://coast.noaa.gov/data/czm/pollutioncontrol/media/ga-cnp-final-decision.pdf>.

In FFY2019, GADNR CRD staff continued to implement the Section 319(h) FFY2015 and FFY2016 grant contracts in support of the *Coastal Nonpoint Source Program*. Completed deliverables include **six** focus group meetings; **three** Green Infrastructure/Low Impact Development trainings; Well and Septic Tank Referencing and Online Mapping (WelSTROM) surveys distributed to **24** coastal counties and **five** riverkeeper organizations; updated map symbology and data layers contributing to **one** coastal-focused WelSTROM mapping website; contract with **one** county for Better Back Roads improvement; and **six** meetings resulting in updated Coastal sections of *Georgia's Statewide Nonpoint Source Management Plan* to meet the 5-year revision required by USEPA. Implementation of agricultural BMPs in upland coastal counties is targeted to begin in first quarter 2020.



UNIVERSITY OF GEORGIA MARINE EXTENSION AND GEORGIA SEA GRANT (UGA MarEx GSG): COASTAL NONPOINT SOURCE IMPLEMENTATION PROJECTS

The UGA MarEx GSG continued implementation of non-competitive FFY2015 and FFY2017 grant contracts during the FF2019 reporting period. Completed deliverables include **three** focus group meetings; **eight** stakeholder meetings; **one** online BMP catalogue; **one** working GIS database and initial desktop analysis; **three** preliminary BMP designs; **one** DRAFT operation & maintenance guide; **four** maintenance field exercises; **three** site visits; and **three** piggy-back event presentations.

Implementation of project-specific workshops as well as green infrastructure stormwater BMP (s); BMP inspections and maintenance; BMP performance models; and pollutant load reduction estimates is targeted for first quarter 2020.

In addition, **two** new non-competitive contracts funded by the FFY2015 grant were executed with UGA MarEx GSG in FFY2019: *Monitoring Infiltration Rates of Coastal Low Impact Development (LID) Practices - Phase I* for \$159,858.00 federal and *Coastal Green Infrastructure/Low Impact Development Stormwater Best Management Practices Implementation* for \$174,242.00 federal with a match of \$61,777.00. Deliverables will involve a list of bioinfiltration BMPs to monitor; finalized QA/QC Monitoring Plan; purchase and installation of equipment for **20** monitoring wells; Phase I of coastal Rain Garden Program; installation of demonstration rain garden, bioretention structure, and permeable pavement system; and nutrients and sediment load reduction estimates from each BMP.

STATE NONPOINT SOURCE PARTNERS

SOUTHFACE ENERGY INSTITUTE: NPS STORMWATER TRAINING

In FFY2019, Southface continued implementation of the FFY2017 Green Infrastructure/Low Impact Development Operations and Maintenance Training project. Completed deliverables include **final** Course Training Outline; **one** Committee A experts (GI/LID, horticulture, government, training) meeting to review Outline with **81% participation**; **seven** Committee B experts (landscaping, engineering) phone interviews to review Outline with **58% participation**; **one** Committee B phone interview to review Course Design and Training PowerPoint Presentation with **9% participation**; **final** Course Design; **one** DRAFT Training PowerPoint Presentation; **one** Industry Review of Training PowerPoint Presentation; **one** class-room training in Athens, GA with **16 participants**; and **seven** Committee C meetings (employers, public organizations, professionals, community leaders) to review Workforce Training module. During the reporting period *The Center for Working Families*, a project subcontractor, closed its operations, resulting in a contract amendment to assign *The Center's* tasks to Southface staff and reallocate funds in the Project Budget from Contractual to Personnel/Fringe. Implementation of the Workforce Training module and additional classroom Operations and Maintenance training sessions is targeted to begin in first quarter 2020.

GEORGIA ASSOCIATION OF WATER PROFESSIONALS (GAWP): NPS STORMWATER TRAINING

During the reporting period, GAWP continued localized training programs to help the regulated community comply with MS4 Permit requirements for runoff reduction: **one** session in *Urban Hydrology and the Georgia Blue Book* - hydrologic methods/assessments, peak flows, and rainfall estimation; and **one** *Green Stormwater Infrastructure: Plant Installation, Maintenance and Inspection Practices* - challenges and best practices of plant installation and maintenance. GAWP also obtained Trainer certification in the National Green Infrastructure Certification Program (NGICP) and conducted **two** 4-day NGICP courses that provided the skill set needed for workers to properly construct, inspect, and maintain green stormwater infrastructure. A third course will be held in December 2019.

NATURAL RESOURCES CONSERVATION SERVICE (NRCS): SOURCE WATER PROTECTION PROVISION (2018 FARM BILL) - PARTNERSHIP WITH GEORGIA EPD DRINKING WATER PROGRAM SOURCE WATER ASSESSMENT TEAM

NOTE: Map of NRCS SWPPA for Georgia on page 27.

NRCS has leveraged an existing National Water Quality Initiative (NWQI) partnership with GA EPD to establish a procedure for implementing the source water protection provisions of the 2018 Farm Bill. Actions mandated for completion by September 30, 2019 included identifying local priority areas in each State for drinking water protection; providing increased incentives for practices that relate to drinking water quality and quantity while also benefitting producers; and dedicating at least 10 percent of available conservation funds to source water protection.

During the FFY2019 reporting period, the GA EPD Source Water Assessment Team (SWAT) attended several USDA NRCS meetings held in Athens, Georgia. In addition, GA EPD SWAT staff assisted the NRCS in determining the groundwater and surface-water Source Water Protection Priority Areas (SWPPA) for Georgia. SWPPA may cover surface and/or ground water sources (wellhead protection) of community drinking water systems. Agricultural activities may be characterized in these assessments as actual threats (remediation efforts) or potential threats (protective efforts). The proposed SWPPA for Georgia will be the focus for NRCS agricultural conservation funding in FFY2020.

ADDRESSING GEORGIA'S NPS POLLUTION SOURCES

AGRICULTURE

In FFY2019, **four** out of six cost-share agreements under a FFY2016 Grant to install agricultural BMPs in the Scull Shoal Creek subwatershed resulted in load reduction estimates of **651** tons per year of Sediment, **4,251** pounds per year of Phosphorus, **21,080** pounds per year of Nitrogen, and **39,871** pounds per year of Biochemical Oxygen Demand. A contract amendment was executed to reallocate Project Budget funds out of Personnel, Travel, Supplies and Other into Contractual to allow for the installation of extra on-the-ground agricultural BMP projects in the Chickasawhatchee Creek and Coosawattee River-Carters Lake at a total of \$211,760 (\$151,257 federal and \$60,503 local match).

UPDATE BETTER BACK ROADS MANUAL

During FFY2019, Golden Triangle RCD was awarded a noncompetitive grant (\$95,631 federal; \$5,311 match) to update the *Georgia Better Back Road Field Manual* (Red Book). Updates will include new technologies/practices on sediment control; revisions to existing Best Management Practices (BMPs) and Non-Standard/Alternative Practices; and educational outreach in the form of **13** statewide technical workshops targeting the **25** counties with most unpaved roads (GDOT mileage counts by road type). Since the original manual was created in 2009, new technologies, skills and expertise in BMPs and Alternative Practices have been introduced, and field manual updates are necessary for more efficient implementation of practices. The updated manual will be produced and distributed both in printed and electronic format to GA EPD, GDOT, other RCD councils, and local city/county road departments.

NUTRIENT TRADING

GA EPD's water quality approach to nutrient trading fosters partnerships between regulated point source dischargers and other point source or nonpoint source entities to reduce pollution. Point source and nonpoint source entities can earn water quality credits based on pollution reductions beyond those required by law or regulation. These credits can be purchased by/traded to a regulated discharger to achieve less costly pollutant reductions.

During FFY2019, GA EPD's Watershed Protection Branch held **three** statewide public meetings on the *Development of a Nutrient Trading Framework* October 16, 2019, in Dry Branch; October 23, 2019, in Atlanta; and October 28, 2019, in Calhoun. The workshops facilitated discussion on opportunities for and barriers to nutrient trading in Georgia, and gathered input from National Pollutant Discharge Elimination System (NPDES) permittees, the agriculture community, mitigation bankers, land trusts, the public, and other stakeholders on a potential nutrient trading framework. A [Water Quality Trading FAQ Sheet](#) was posted on the GA EPD website for more information about water quality trading in Georgia, and stakeholders were encouraged to write or email comments to GA EPD. In addition, the SFY2017 State Seed Grant entitled *Alternative Nutrient Permitting Strategy Development for the Coosa-North Georgia and Savannah-Upper Ogeechee Water Planning Regions* expired in FFY2019 and the FINAL Report was delivered to GA EPD and the two Councils for consideration.

NATIONAL WATER QUALITY INITIATIVE (NWQI)

In the first quarter of FFY2019, GA EPD wrapped up monitoring at Piscola Creek and Northwest Georgia sites in the Oostanaula, Salacoa and Etowah watersheds. There are no NWQI sites currently selected for 2020. Data was assessed for Georgia's 2018 Section 305 (b)/303(d) List of Waters, resulting in no changes to the status of the tested streams.

ADDRESSING GEORGIA'S NPS POLLUTION SOURCES

CONSTRUCTION

As of September 30, 2019, a total of **20,184** construction sites in Georgia have coverage under the *NPDES State General Permits for Stormwater Discharges Associated with Construction Activities* (**6,937** Primary Permittees, **5,962** Secondary Permittees and **7,285** Tertiary Permittees). In addition, **322** municipal and county governing authorities are currently certified Local Issuing Authorities (LIAs). In areas with no LIAs, GA EPD continues to enforce the Georgia Erosion and Sedimentation Act (GESA) and the *NPDES State General Permits for Stormwater Discharges Associated with Construction Activities*. Statewide workshops on topics related to the GESA and the NPDES State General Permits were conducted for the Local Issuing Authorities, design professionals and the regulated communities.

URBAN RUNOFF

From October 2018-September 2019, more than **\$2.78 million** in Section 319(h) funds were dedicated to projects that focused on reducing the impacts of stormwater on water quality. In FFY2019, **two** new stormwater systems were placed under Municipal Separate Storm Sewer (MS4) permits (Phases I Large, Medium, or Small; Phase II). A total of **116** permittees were regulated under **three** GA EPD Phase II MS4 NPDES general permits: **109** Small MS4, adding the City of South Fulton; **one** GA Department of Transportation (GDOT); and **six** U. S. Department of Defense (USDOD). The Phase II Small MS4 permit for USDOD facilities was reissued January 15, 2019, adding **one** facility to the permit. In addition, a total of **57** municipalities are under GA EPD Phase I MS4 NPDES permits: **12** Medium and **45** Large. The Phase I Large MS4 NPDES Permit was reissued June 11, 2019. The General Permit for Stormwater Discharges Associated with Industrial Activity (GAR050000) was reissued June 1, 2017, covering a total of 2,141 industrial facilities. The total number of permitted industrial facilities has been adjusted to correct for duplicate submittals and faulty permit numbers recorded in the past.

FAILING SEPTIC SYSTEMS

In FFY2019, approximately **\$930,000** in federal funds were dedicated to projects that addressed failing septic systems as a nonpoint source of fecal coliform in impaired waters by offering pump-out, repair, or replacement options, and homeowner education.

SILVICULTURE

During the FFY2019 reporting period, Georgia Forestry Commission (GFC) staff participated in **231** public events for **5,417** cumulative attendees including: **14** GA EPD meetings, **4** Master Timber Harvester Workshops, **63** Continuing Logger Education (CLE) and other BMP educational trainings, and **150** other meetings with various groups. During such events, GFC staff gave presentations and/or discussed forestry BMPs with those in attendance.

GFC staff performed **16** Field Demonstrations of BMPs for **156** participants and conducted **106** primary specific forestry BMP Advice Visits for at least **256** people. The GFC also completed **245** Stewardship Plans covering **7,1374** acres that included forest management information, recommendations on soil/water conservation, and forestry BMPs. GFC foresters completed **224** Firebreak BMP Inspections on GFC installed firebreaks, provided **44** one-to-one Logger Conferences, and hosted **82** one-to-one and/or group GFC Forester Trainings including Master Timber Harvester Trainings and Trainings on Mechanical Site Prep and Wetlands. During FFY2019, GFC distributed at least **881** copies of BMP brochures at **40** BMP events.

ADDRESSING GEORGIA'S NPS POLLUTION SOURCES

GREEN INFRASTRUCTURE IMPLEMENTATION

Within the FFY2019 timeframe, GA EPD executed **eight** new Section 319(h) Grant contracts that implement activities related to GI/LID stormwater best management practices:

- UGA Marine Extension Georgia Sea Grant (MarEx GSG) launched a FFY2015 noncompetitive project to target **four** coastal counties for GI/LID stormwater infiltration BMPs such as rain gardens, permeable pavement, and bioretention systems;
- Limestone Valley RC&D Council executed a FFY2016 competitive grant contract that includes installation of rain gardens within Murray County;
- The Atlanta Downtown Improvement District (ADID), in partnership with American Rivers, contracted a noncompetitive FFY2017 award to construct **two** bioretention cells in the crossroads of I-75/I-85 and I-20 to remove stormwater from the combined sewer system in the Intrenchment-Custer Basin;
- UGA Crop & Soil Sciences will follow up with a noncompetitive FFY2016-funded project to monitor influent and effluent from the ADID bioretention installations;
- The City of Savannah initiated a FFY2018 noncompetitive grant contract to install GI/LID stormwater and rainwater harvesting BMPs according to technical and design specifications in the Coastal Stormwater Supplement (CSS) of the Georgia Stormwater Management Manual (GSMM);
- The GSWCC executed a contract funded by a competitive FFY2018 award to identify benefits of/obstacles to GI implementation at site, neighborhood and regional levels and outline steps to overcome GI implementation barriers. Follow-up will be cost-share contracts to install urban stormwater BMPs such as bioretention cells, bioswales, planters/tree boxes, permeable pavement, parks/greenspaces, land conservation, and urban tree canopy in the Coosawattee River-Carters Lake watershed;
- The City of Calhoun contracted a FFY2018 competitive grant that includes installation of GI bioretention (rain garden and/or bioswale) BMPs in the Lynn Creek watershed; and
- The City of St Marys received additional funds under a noncompetitive FFY2018 grant contract to complete Phase 2 of GI/LID BMP retrofits on Osborne Street downtown.



GEORGIA'S NPS PROGRAM MANAGEMENT GOALS

FACILITATE TMDL IMPLEMENTATION FOR ALL SECTION 305(b)/303(d) LISTED WATERSHEDS

During the FFY2019 reporting period, the DRAFT 2016 Section 305(b)/303(d) List was approved by USEPA on October 4, 2018. The DRAFT 2018 Section 305(b)/303(d) List was submitted to USEPA for review on February 11, 2019, and was approved by USEPA on June 14, 2019. A request for data has been issued by GA EPD to use in the assessment of waters for Georgia's 2020 305(b)/303(d) List of Waters.

The GA EPD biennial report on a primary assessment of the State's water quality includes an integrated list of waters that are both "Supporting" and "Not Supporting" their designated uses. "Not supporting" waters are placed on the 303(d) portion of the List, which identifies the causes of impairments and establishes ranking priorities, including those waters targeted for TMDL development. Current and historical 305(b)/303(d) List documents and guidance for water quality data submission and acceptance are posted at <https://epd.georgia.gov/watershed-protection-branch/watershed-planning-and-monitoring-program/water-quality-georgia> on the GA EPD web site.

IDENTIFY WATERSHEDS WHERE NPS POLLUTION IS CAUSING IMPAIRMENT AND RESTORE DESIGNATED USES FOR ALL SECTION 305(b)/303(d) LISTED WATERSHEDS

During FFY2019, in accordance with the USEPA *Long-Term Vision*, GA EPD continued to apply Georgia's List of Priority Waters, based on the Draft Priority Framework, to prioritize impaired waters for development of TMDLs or TMDL alternatives: <https://epd.georgia.gov/document/publication/draftpriorities303dvisionpdf/download>. Projects that propose to implement TMDLs continued to receive priority for Section 319(h) grant funding from the NPSP as well. During October 2018-September 2019, **1,032** stream/coastal segments were "Supporting" designated uses on Georgia's approved 2018 List of Waters, with **79** of these waters assessed for the first time as "Supporting". In addition, at least one impairment parameter has been removed between 2016 and 2018 for **38** stream/coastal segments.

USEPA's **six** *Vision* elements focus on Prioritization, Assessment, Protection, Alternatives, Engagement and Integration. While the waters on Georgia's List of Priority Waters are considered priorities under the *Vision*, GA EPD plans to continue developing TMDLs using the rotating basin approach as followed in the past. Therefore, Georgia will be developing more TMDLs by 2022 than what is accounted for in the "priority" list.

MANAGE NUTRIENTS FROM COMBINED ANIMAL FEEDING OPERATIONS (CAFOs)

GA EPD covers **two** CAFO facilities under the NPDES General Permit. There are also **110** CAFO facilities under **two** LAS CAFO General Permits (**37** Large and **73** Medium). Between October 2018 and September 2019, the Georgia Department of Agriculture, under contract with GA EPD, inspected **58** permitted CAFO facilities and investigated **21** water quality complaints.

GEORGIA'S NPS PROGRAM MANAGEMENT GOALS

STATEWIDE MILESTONES FOR WATER QUALITY IMPROVEMENT

During FFY2019, GA EPD continued to compile data on progress to meet milestones developed in the *2014 Georgia Statewide Nonpoint Source Management Plan*. Some milestones have been revised to comply with the revised *2019 Georgia Statewide Nonpoint Source Management Plan*. The chart below tracks the reporting period of October 2018 - September 2019.

The symbol “-” means not required in current Report; but, will be reported in FFY2020 Report
The symbol “NA” means not required in current Report and no longer applies as milestone.

Statewide Milestones for Water Quality Improvement	2019	Milestone Progress	2020
WATER QUALITY IMPROVEMENTS FROM NONPOINT SOURCE CONTROLS			
<u>Number of stream segments meeting designated use on Georgia's biennial 305(b)/303(d) list of waters:</u> Identify the number of streams meeting water quality standards and take appropriate actions to protect these waters.	-	-	1,000
<u>Additional number of stream segments meeting one or more water quality standards on Georgia's biennial 305 (b) / 303(d) list of waters:</u> Identify the number of stream segments meeting one or more water quality standards and take appropriate actions to protect these waters	-	-	19
INTERIM PROGRESS TOWARD RESTORED WATER QUALITY AND HYDROLOGY			
<u>Number of water bodies identified in Georgia's 2016 305(b)/303(d) list of impaired waters or subsequent years as being primarily NPS impaired that are partially or fully restored (WQ-10):</u> Identify fully restored water bodies primarily impaired by NPS pollutants; review NPS related activities in watershed where water body was restored; write NPS success story	1	One WQ-10 Type 2 Title: <i>Septic System Replacements Leading to Water Quality Improvements in Horsepen Creek</i>	1
<u>Percentage of TMDL or WMP recommended BMPs implemented:</u> Implementing target percentage of recommended BMPs for each grant project implementing specific WMPs that meet EPA's nine elements.	50%	Active projects making progress to date towards implementing 50% BMPs recommended in WMPs	NA
<u>Percentage of landowners in a watershed cooperating in the program by implementing targeted water quality practices:</u> Meeting landowner percentage cooperation goals for each grant project implementing WMPs that meet EPA's nine elements.	60%	Making progress to date towards 60% landowner cooperation in active projects implementing WMPs	NA

Statewide Milestones for Water Quality Improvement	2019	Milestone Progress	2020
<u>Tracking ambient water quality vs. stream water quality standards for Nitrogen, Phosphorus, Fecal Coliform, Dissolved Oxygen, and Biota:</u> Number of streams where water quality data were collected by Adopt-a-Stream or GA EPD for use in meeting watershed based WQ targets.	50	Monthly sampling during FFY2019: 215 rivers/streams, lakes/estuaries, and sounds at 340 sites (nutrients, BODS, TSS, DO, pH, temperature, conductivity) including 118 ortho-phosphate sites; 204 bacteria sites; 80 metal sites; 68 chlorophyll a sites; 14 diatom sites; 47 macroinvertebrates sites; and 3 anions/TDS sites	50
<u>Tracking target trophic status in lakes and estuaries:</u> Produce waterbody reports documenting trophic status in Georgia lakes and estuaries.	On-Going	During FFY2019, monthly ambient WQ sampling: 31 lakes and embayments at 68 sites, 5 estuaries at 8 sites	Report; On-Going
<u>Green infrastructure within watersheds:</u> Target number of grant projects implementing green infrastructure BMPs.	1	FFY18-09 <i>Lynn Creek TMDL Implementation Project</i> City of Calhoun - \$218,000 (\$123,000 federal/ \$95,000 match)	2
PROTECTION OF HIGH QUALITY WATERS			
<u>Attain specific load reduction or maintenance goals in protection oriented plans covering healthy watersheds:</u> Attaining specific load reduction goals (Nitrogen, Phosphorus, Sediment, Fecal Coliform) for grant projects implementing Healthy Watershed Initiative WMPs that meet EPA's nine elements.	1	FFY18-10 <i>Implementation of the Mountain Oak Creek Healthy Watershed Initiative Nine-Step Watershed Management Plan</i> River Valley Regional Commission - \$240,000 (\$144,000 federal/ \$96,000 match)	-
<u>Number and type of BMPs implemented at critical areas:</u> Tracking the number and type of BMPs grant projects implemented in concurrence with Healthy Watershed Initiative WMPs that meet EPA's nine elements.	1	FFY18-10 BMP completed to date: Baseline Water Quality Monitoring/DNA/Microbial Source Tracking for fecal coliform bacteria	-
NONPOINT SOURCE POLLUTANT LOAD REDUCTION			
<u>Estimated annual reductions in pounds of nitrogen from NPS to water bodies (from Section 319 funded projects) (WQ-9a):</u> Annually review information from NPS staff and project stakeholders for NPS load reductions of nitrogen; and include information in NPS annual report and GRTS.	Revised to 60,000 lbs.	105,198 lbs.	60,000 lbs.

Statewide Milestones for Water Quality Improvement	2019	Milestone Progress	2020
<u>Estimated annual reductions in pounds of phosphorus from NPS to water bodies (from Section 319 funded projects) (WQ-9a):</u> Annually review information from NPS staff and project stakeholders for NPS load reductions of phosphorus; and include information in NPS annual report and GRTS.	Revised to 25,000 lbs.	25,509 lbs.	25,000 lbs.
<u>Estimated annual reductions in tons of sediment from NPS to water bodies (from Section 319 funded projects) (WQ-9a):</u> Annually review information from NPS staff and project stakeholders for NPS load reductions of sediment; and include information in NPS annual report and GRTS.	Revised to 15,000 tons	3,232 tons Georgia Soil & Water Conservation Commission load reductions for FY2017 contract due to close in FFY2020 expected to result in significant progress towards meeting milestone target.	10,000 tons
IMPLEMENTATION OF NONPOINT SOURCE CONTROLS			
<u>Develop plan for Prioritization of TMDL development per the USEPA 303(d)/305(b) visioning process:</u> Plan for prioritizing TMDL or alternative development. This plan will be coordinated with the nonpoint source program's prioritization.	NA	NA	NA
<u>Number of TMDLs or alternatives developed for impaired watersheds:</u> Developing TMDLs or alternatives (i.e. 5R or WMP) for impaired waters	Revised to 5	During October 2018 – September 2019, 43 draft TMDLs developed for impaired waters on the 2018 Georgia 305(b)/303(d) Integrated List of Waters	5
<u>Number of Lakes with Nutrient Criteria where none previously existed:</u> Number of lakes where new standards are developed per "Georgia's Plan for the Adoption of Water Quality Standards for Nutrients"	NA	NA	NA
<u>Statistically based survey of implementation rates:</u> Conduct the Biennial Silviculture compliance and implementation survey.	Revised to -	-	1
PUBLIC EDUCATION, AWARENESS, AND ACTION			
<u>Participation rates in citizen monitoring activities:</u> Maintain a database of Georgia Adopt-A-Stream participating volunteers to determine number of active monitoring sites annually.	300	During October 2018 – September 2019, 12,473 volunteers at 695 active monitoring sites	300

Statewide Milestones for Water Quality Improvement	2019	Milestone Progress	2020
<u>Participation rates in public awareness and education efforts:</u> Maintain a database of RiversAlive volunteers to determine number of active participants annually.	Revised to 20,000	During October 2018 – September 2019, 23,756 Rivers Alive volunteers at 240 events.	20,000
<u>Calculate and track a “measure of local interest” to assess the geographic diversity and productivity of local watershed groups:</u> Maintain a database of Georgia Adopt-A-Stream participating volunteers to track productivity and diversity of local watershed groups. Number of active watershed groups annually.	150	During October 2018 – September 2019, 219 active watershed groups	150
PROGRAM MEASURES OF SUCCESS			
<u>Track number and diversity of partners in statewide NPS plan:</u> Use Nonpoint Source Plan tracking form to annually track the number and diversity of partners participating in 2014 Statewide NPS Plan goals.	Revised to NA	NA	NA
<u>Track number and diversity of partners in watershed project implementation:</u> Use Grants Reporting and Tracking System to annually track the number and diversity of partners participating in watershed project implementation.	15	During FFY2019, 21 different partners: 4 RCDs, 3 RCs, 8 Cities, 3 Counties, 2 State Agencies, 1 University	15
<u>Number of new nine element watershed based plans reviewed and accepted for funding:</u> Nine element watershed based plans, WMP developed by NPS plan partners and reviewed and accepted by GA EPD or USEPA.	1	2	-
<u>Progress in reducing unliquidated obligations (ULO):</u> Percentage of ULO funds anticipated yearly GA EPD (total remaining funds/total awarded = percentage ULO).	Revised to USEPA R4 Target	FY15 - 31% FY16 - 73% FY17 - 74% FY18 - 99% FY19 - 100% Pulled from GRTS December 2019	USEPA R4 Target

MOVING FORWARD IN FFY2020

319(h) FFY2020 GRANT CALL

The NPSP Grants Unit revised the official schedule for the Section 319(h) NPS Implementation FFY2020 Competitive Grant. General Guidelines, Applications, and related documents will be posted online in January 2020.

Promotion of the FFY2020 competitive grant will include an email “blast” totaling **2,733** messages to **1,031** Mayors and Clerks; **936** Association of County Commissioners of Georgia members; **19** Board of Directors; **548** General Contacts; **186** Georgia Municipal Association members; and **13** Resource Conservation & Development Councils (RCDs). In addition, GA EPD anticipates announcing the grant call via the grants.gov delivery system.

A Pre-application Meeting Webinar is required for all competitive applicants prior to submittal of applications and will be held on March 19, 2020. Grants Unit staff will deliver a slide show and answer questions on potential projects and how to apply for the FFY2020 Grant.

DRAFT application proposals received by March 31, 2020, will be evaluated in writing by GA EPD staff. FINAL applications emailed in electronic format by the deadline of April 30, 2020, will be reviewed and scored, and award recipients notified in Summer 2020. Applications delivered by hand or sent by mail will no longer be accepted.

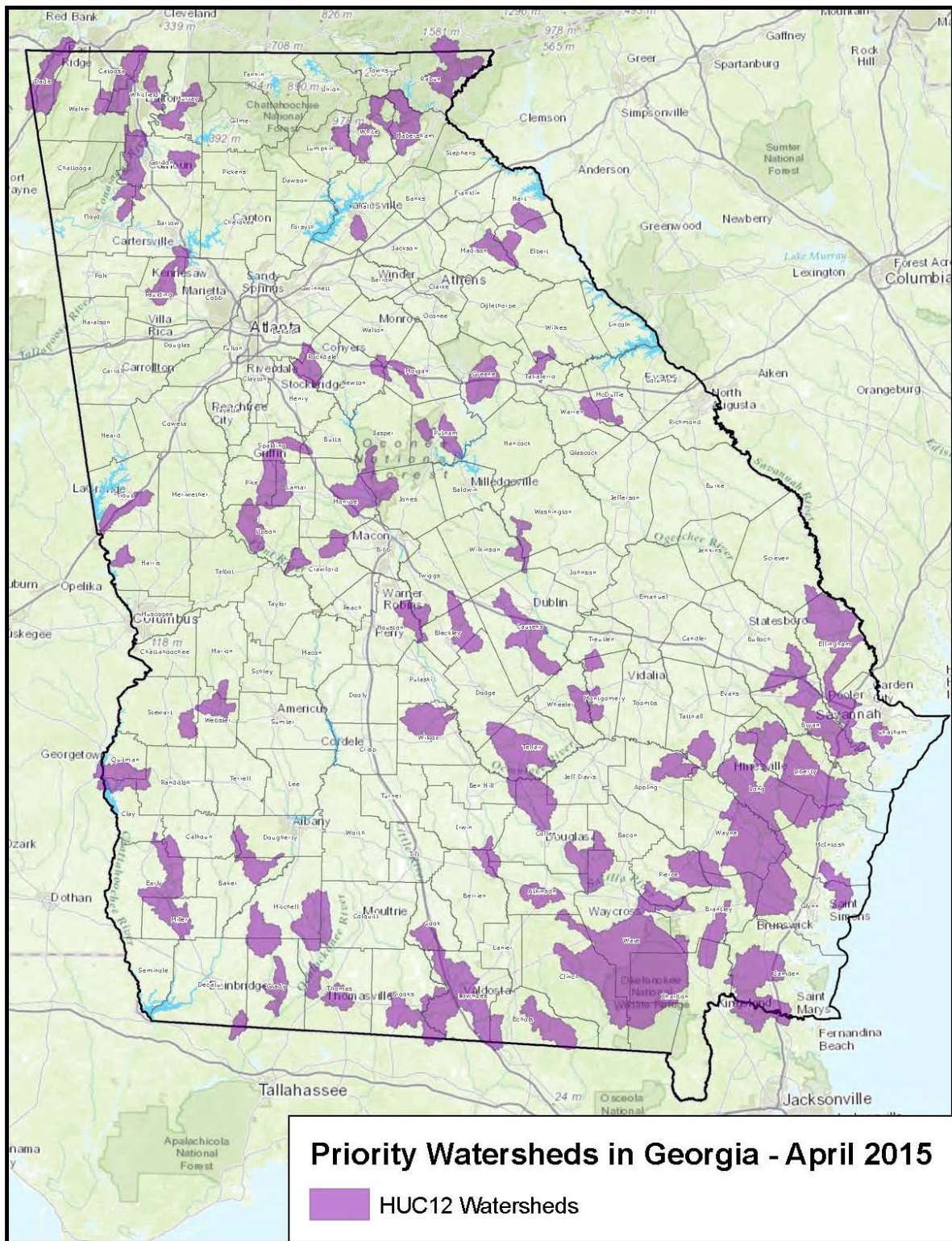
At least 50% of Section 319(h) Grant funds is allocated to projects (competitive and noncompetitive) that implement the goals of the *2019 Georgia's Statewide Nonpoint Source Management Plan*. Proposals eligible for competitive awards must implement existing watershed-based plans or alternative plans that meet USEPA's Nine Elements of Watershed Planning. Implementation projects eligible for funding must specify the nonpoint sources of pollution and identify the activities best suited to address those sources.

An Administrative Training scheduled for November 2019 at the Georgia Forestry Commission headquarters in Dry Branch will address scope/budget negotiations; contract obligations; amendments; invoices; quarterly, annual and close-out reports; USEPA grant tracking (GRTS); success stories; and MBE/WBE utilization. Participants will also get an opportunity to provide feedback on how GA EPD grant oversight practices and processes impact them and their partners. Attendance options include either in person at the live session or over computers with online visuals and audio.

In FFY2019, the schedule for the State Regional Water Plan Seed Grant award was also revised. The FFY2020 RWP Seed Grant pre-application meetings were completed by October 17, 2019, and applications were due by October 31, 2019. Funding will be announced in Winter 2020.

FFY2020 Section 319(h) Grant Competitive Awards Time Line

- **January 2020:** GA EPD call for proposals
- **March 19, 2020:** Pre-application Meeting Webinar (required)
- **March 31, 2020:** Deadline to email DRAFT proposals for GA EPD written evaluation (optional)
- **April 30, 2020:** Deadline to email digital applications to GA EPD
- **Summer 2020:** Grant award selection
- **Summer 2020:** Notification of grant award to selected recipients
- **Fall 2020:** GA EPD and award recipients finalize project scopes of work
- **Fall 2020:** Execute contracts, start work



GEORGIA NPSP PRIORITY HUC12 WATERSHEDS

WATERSHEDS IMPACTED BY THE NINE PRIORITY

HUC12	WATERSHED NAME	DNR_BASIN	COUNTY
030702010401	Broxton Creek	Satilla	Coffee
031300050903	Gola Creek-Potato Creek	Flint	Pike
031300010105	Amys Creek-Chattahoochee River	Chattahoochee	Habersham
031501041604	Dykes Creek	Coosa	Floyd
031300100102	Perry Creek-Spring Creek	Flint	Calhoun
030601040302	Scull Shoal Creek-Broad River	Savannah	Madison
031102010103	Suwannee Creek	Suwannee	Clinch
031501020604	Marlow Branch-Salacoa Creek	Coosa	Gordon
030701060402	Penholoway Creek	Altamaha	Wayne
030602040301	Sterling Creek-Ogeechee River	Ogeechee	Bryan
030701020801	Oochee Creek-Oconee River	Oconee	Wilkinson
060200011102	Gulf Creek-Lookout Creek	Tennessee	Dade
031200020403	Lost Creek	Ochlockonee	Mitchell
030602020505	Caney Branch-Black Creek	Ogeechee	Bulloch
031501030203	Snake Creek-Oostanaula River	Coosa	Gordon
031300031313	Drag Nasty Creek-Chattahoochee River	Chattahoochee	Quitman
031300020906	Lower Long Cane Creek	Chattahoochee	Troup
030701011406	Middle Big Indian Creek	Oconee	Morgan
031102021003	Alapahoochee River	Suwannee	Lowndes
031102021002	Lower Mud Swamp	Suwannee	Lowndes
031300010202	Upper Soquee River	Chattahoochee	Habersham
030702010302	Little Red Bluff Creek	Satilla	Atkinson
030601020207	Upper Stekoa Creek	Savannah	Rabun
031501041103	Lawrence Creek-Pumpkinvine Creek	Coosa	Paulding
030701021103	Horse Branch-Turkey Creek	Oconee	Laurens
030701031503	Little Echeconnee Creek	Ocmulgee	Crawford
030702020501	Sixty Foot Branch	Satilla	Pierce
031102010201	Upper Tatum Creek	Suwannee	Clinch
031300070203	Lower Lanahassee Creek	Flint	Webster
031300010102	Smith Creek-Chattahoochee River	Chattahoochee	White
031300010504	Lower Tesnatee Creek	Chattahoochee	White
030701011803	Lower Rooty Creek	Oconee	Putnam
031300050906	Tenmile Creek	Flint	Upson
030702040904	Little St. Marys River	Saint Mary's	Camden
030701060405	Penholoway Swamp-Altamaha River	Altamaha	Wayne
031501030602	Woodward Creek	Coosa	Floyd
030701040703	Lower Horse Creek	Ocmulgee	Telfair
030601090202	Lower Runs Branch	Savannah	Effingham
030602040201	Hardin Canal-Little Ogeechee River	Ogeechee	Chatham
030602020508	Little Creek-Black Creek	Ogeechee	Bryan
030701011102	Upper Beaverdam Creek	Oconee	Greene
030701040504	Cedar Creek	Ocmulgee	Wilcox
031300100505	Town of Boykin-Spring Creek	Flint	Miller
030701060301	Fivemile Creek	Altamaha	Appling

HUC12	WATERSHED NAME	DNR_BASIN	COUNTY
030601080103	Whites Creek-Brier Creek	Savannah	McDuffie
031300090806	West Chickasawhatchee Creek- Chickasawhatchee Creek	Flint	Dougherty
030602030505	Middle Taylors Creek	Ogeechee	Liberty
030601020203	West Fork Chattooga River	Savannah	Rabun
060200010702	Lower East Chickamauga Creek	Tennessee	Catoosa
031501010402	Mill Creek-Holly Creek	Coosa	Murray
031300021103	Mountain Oak Creek	Chattahoochee	Harris
031300050901	Honey Bee Creek-Potato Creek	Flint	Lamar
030701031104	Cabin Creek	Ocmulgee	Spalding
030601030407	Little Coldwater Creek	Savannah	Hart
030701011401	Nelson Creek-Little River	Oconee	Newton
031300010505	Tate Creek-Chestatee River	Chattahoochee	Lumpkin
030702030101	Little Buffalo Creek	Satilla	Glynn
031300031501	Clear Creek-Pataula Creek	Chattahoochee	Stewart
031300050907	Jerry Reeves Creek-Potato Creek	Flint	Upson
031300031507	Lower Holanna Creek	Chattahoochee	Quitman
031102030404	Valdosta-Withlacoochee River	Suwannee	Lowndes
031102040501	Wells Mill Creek	Suwannee	Cook
030701011103	Lower Beaverdam Creek	Oconee	Greene
031200030205	Lower Swamp Creek	Ochlockonee	Decatur
031501030201	Camp Creek	Coosa	Gordon
030701040505	Folsom Creek	Ocmulgee	Wilcox
030701031305	Deer Creek	Ocmulgee	Monroe
030701040107	Thompson Mill Creek-Ocmulgee River	Ocmulgee	Houston
031200020401	Upper Little Ochlockonee Creek	Ochlockonee	Colquitt
030701050102	District Hollow Branch-Gum Swamp Creek	Ocmulgee	Bleckley
030602020503	Ash Branch-Lower Black Creek	Ogeechee	Bulloch
030701060302	Watermelon Creek	Altamaha	Tattnall
030701030106	Honey Creek	Ocmulgee	Rockdale
031501010403	Goldmine Branch-Holly Creek	Coosa	Murray
030601020205	Upper Warwoman Creek	Savannah	Rabun
060200010704	Upper Little Chickamauga Creek	Tennessee	Walker
031300100403	Upper Aycocks Creek	Flint	Miller
031300080506	Bay Pole Branch-Big Slough	Flint	Mitchell
031200020704	Little Tired Creek	Ochlockonee	Grady
031300050904	Little Potato Creek	Flint	Lamar
030701021403	Lotts Creek-Oconee River	Oconee	Wheeler
031300010502	Upper Tesnatee Creek	Chattahoochee	White
031300100103	Town of Crossroads-Spring Creek	Flint	Early
030601050105	Lick Creek-Little River	Savannah	Taliaferro
030701040701	Upper Horse Creek	Ocmulgee	Telfair
031102010502	Lower Toms Creek	Suwannee	Echols
031200020404	Big Creek	Ochlockonee	Mitchell
031101030102	Oliver Creek	Ochlockonee	Thomas
031102020604	Lower Willacoochee River	Suwannee	Berrien
031102030802	Tiger Creek-Withlacoochee River	Suwannee	Lowndes
030701010104	Upper Walnut Creek	Oconee	Hall
030602030503	Strickland Pond-Canoochee Creek	Ogeechee	Long
030701060203	Lower Tenmile Creek	Altamaha	Appling

HUC12	WATERSHED NAME	DNR_BASIN	COUNTY
031300100303	Long Branch-Spring Creek	Flint	Miller
031102040504	Franks Creek	Suwannee	Lowndes
031501010307	Bates Branch-Coahulla Creek	Coosa	Whitfield
031300100501	Town of Colquitt-Spring Creek	Flint	Miller
031501010406	Bullpen Branch-Holly Creek	Coosa	Murray
031102010105	Okeefenokee Swamp	Suwannee	Charlton
030602030507	Strum Bay-Canoochee Creek	Ogeechee	Liberty
030702020502	Little Satilla River	Satilla	Wayne
030602040601	Upper South Newport River	Ogeechee	McIntosh
030702040905	Catfish Creek-St. Marys River	Saint Mary's	Camden
030602030606	Clyde Creek-Canoochee River	Ogeechee	Bryan
030701021304	Upper Ochwalkee Creek	Oconee	Laurens
030702010603	Middle Hog Creek	Satilla	Bacon
060200010703	Tiger Creek	Tennessee	Catoosa
030701060501	Alex Creek-Altamaha River	Altamaha	Wayne
030701031303	Little Falling Creek	Ocmulgee	Jasper
030601090203	Ebenezer Creek	Savannah	Effingham
031300080304	Lower Cooleewahee Creek	Flint	Baker
060200010701	Upper East Chickamauga Creek	Tennessee	Whitfield
031300051206	Lower Ucohatchee Creek	Flint	Crawford
031300100401	Susian Ford Creek	Flint	Miller
030701011101	Town Creek-Richland Creek	Oconee	Greene
031300010206	Lower Soquee River	Chattahoochee	Habersham
030701021104	Bluewater Creek-Turkey Creek	Oconee	Laurens
031300050902	Turnpike Creek	Flint	Pike
030701060504	Altamaha Sound-Frontal Atlantic Ocean	Satilla	Glynn
031102030804	Redland Creek	Suwannee	Lowndes
031300100205	Lower Dry Creek	Flint	Early
030701040804	Gregeory Creek-Ocmulgee River	Ocmulgee	Coffee
031501020605	Lick Creek-Salacoa Creek	Coosa	Gordon
030702030102	Turtle River	Satilla	Glynn
030702010504	Cat Creek-Seventeen Mile River	Satilla	Coffee
030702010705	Caney Branch-Satilla River	Satilla	Pierce
060200011103	Crawfish Creek-Lookout Creek	Tennessee	Dade
031300070201	Clear Creek-Kinchafoonee Creek	Flint	Webster
030701021301	Cypress Creek	Oconee	Montgomery
030701031306	Rum Creek	Ocmulgee	Monroe
031200020402	Middle Little Ochlockonee Creek	Ochlockonee	Colquitt
031501030204	Bow Creek-Oostanaula River	Coosa	Gordon
060102020102	Middle Creek-Little Tennessee River	Tennessee	Rabun
060200011104	Sitton Gulch Creek-Lookout Creek	Tennessee	Dade
030701030107	Camp Creek-South River	Ocmulgee	Rockdale
031102021001	Upper Mud Swamp	Suwannee	Lowndes
030601020208	Lower Stekoa Creek	Savannah	Rabun
031501041102	Lane Creek-Pumpkinvine Creek	Coosa	Paulding
031300100104	Spring Branch-Spring Creek	Flint	Early
030702040902	Cabbage Creek-St. Marys River	Saint Mary's	Camden
030701011802	Upper Rooty Creek	Oconee	Putnam
030702010403	Rose Creek	Satilla	Coffee

HUC12	WATERSHED NAME	DNR_BASIN	COUNTY
030701020407	Wheeler Creek-Buffalo Creek	Oconee	Washington
030602040303	Vernon River	Ogeechee	Chatham
031200020703	Middle Tired Creek	Ochlockonee	Grady
030701040702	Middle Horse Creek	Ocmulgee	Telfair
060200011105	Lookout Creek	Tennessee	Dade
030701060404	Lower Doctors Creek	Altamaha	Long
030602020507	Lower Mill Creek	Ogeechee	Bryan
030601090201	Upper Runs Branch	Savannah	Effingham
030701031307	Berry Creek-Ocmulgee River	Ocmulgee	Jones
031501030205	Robbins Creek-Oostanaula River	Coosa	Gordon
030601040304	Deep Creek-Broad River	Savannah	Elbert
031300010204	Middle Soquee River	Chattahoochee	Habersham
030702011202	Rose Creek-Satilla River	Satilla	Camden
031200020706	Lower Tired Creek	Ochlockonee	Grady
031501041105	Westbrook Creek-Pumpkinvine Creek	Coosa	Paulding
031200020602	Pine Creek-Ochlockonee River	Ochlockonee	Thomas
030701050101	Reedy Creek-Gum Swamp Creek	Ocmulgee	Bleckley
031300050908	Bell Creek-Potato Creek	Flint	Upson
030701021401	Larry Creek-Oconee River	Oconee	Wheeler
030602040401	Upper North Newport River	Ogeechee	Liberty
031300031508	Wilkey Creek-Pataula Creek	Chattahoochee	Quitman
030702010604	Lower Hog Creek	Satilla	Ware
031102010501	Upper Toms Creek	Suwannee	Echols
030701011104	Little Creek-Richland Creek	Oconee	Greene
030701011502	Pearson Creek-Little River	Oconee	Putnam
030701031304	Lower Falling Creek	Ocmulgee	Jones
031102030703	Lower Piscola Creek	Suwannee	Brooks
031300020905	Upper Long Cane Creek	Chattahoochee	Troup
030702011104	Lower Buffalo Creek	Satilla	Brantley
030701011405	Upper Big Indian Creek	Oconee	Morgan
030601030406	Upper Coldwater Creek	Savannah	Hart
030601020206	Lower Warwoman Creek	Savannah	Rabun
031300010201	Headwaters Soquee River	Chattahoochee	Habersham
030701021105	Reedy Creek-Turkey Creek	Oconee	Laurens

MAP OF NRCS SWPPA FOR GEORGIA

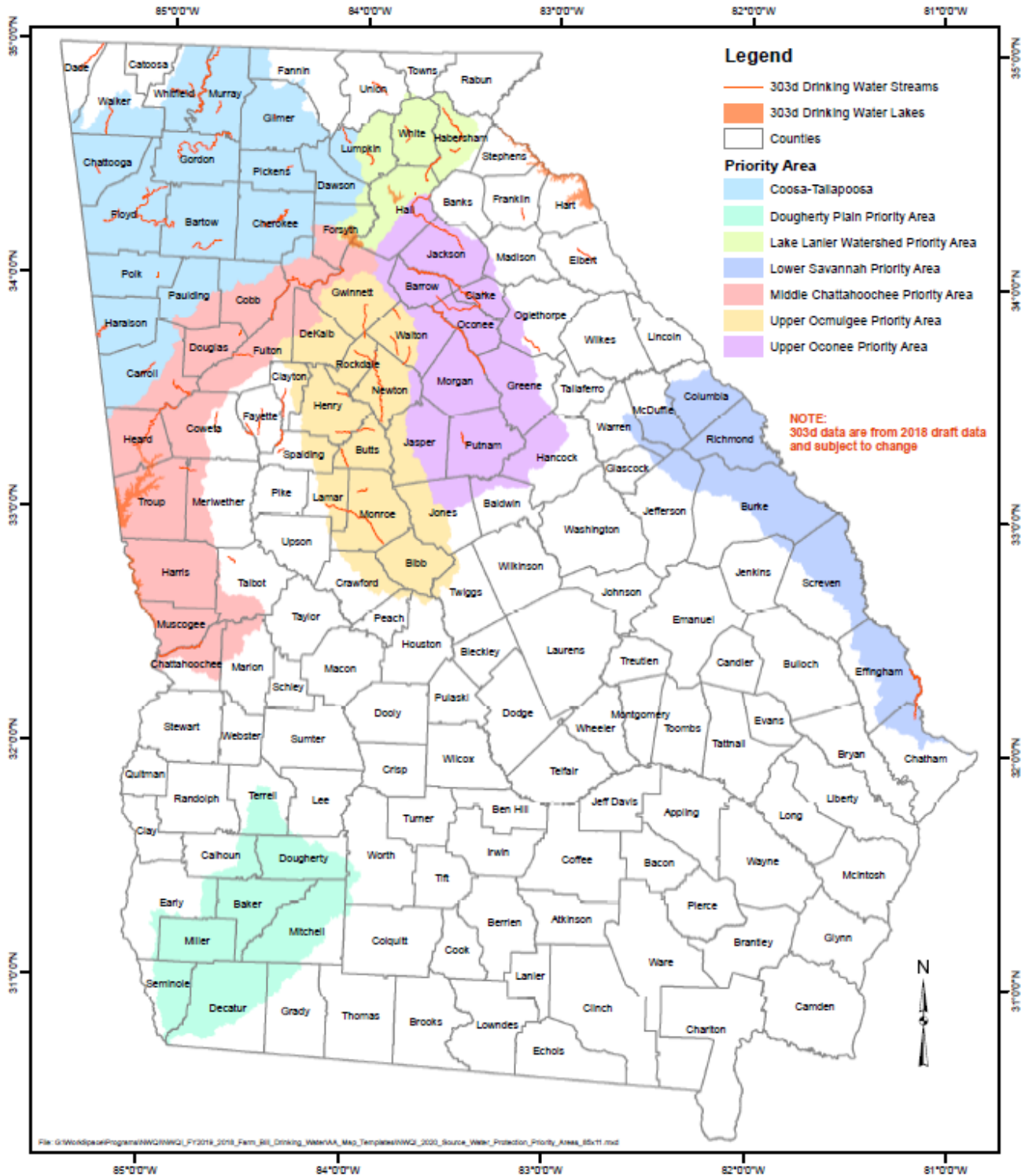


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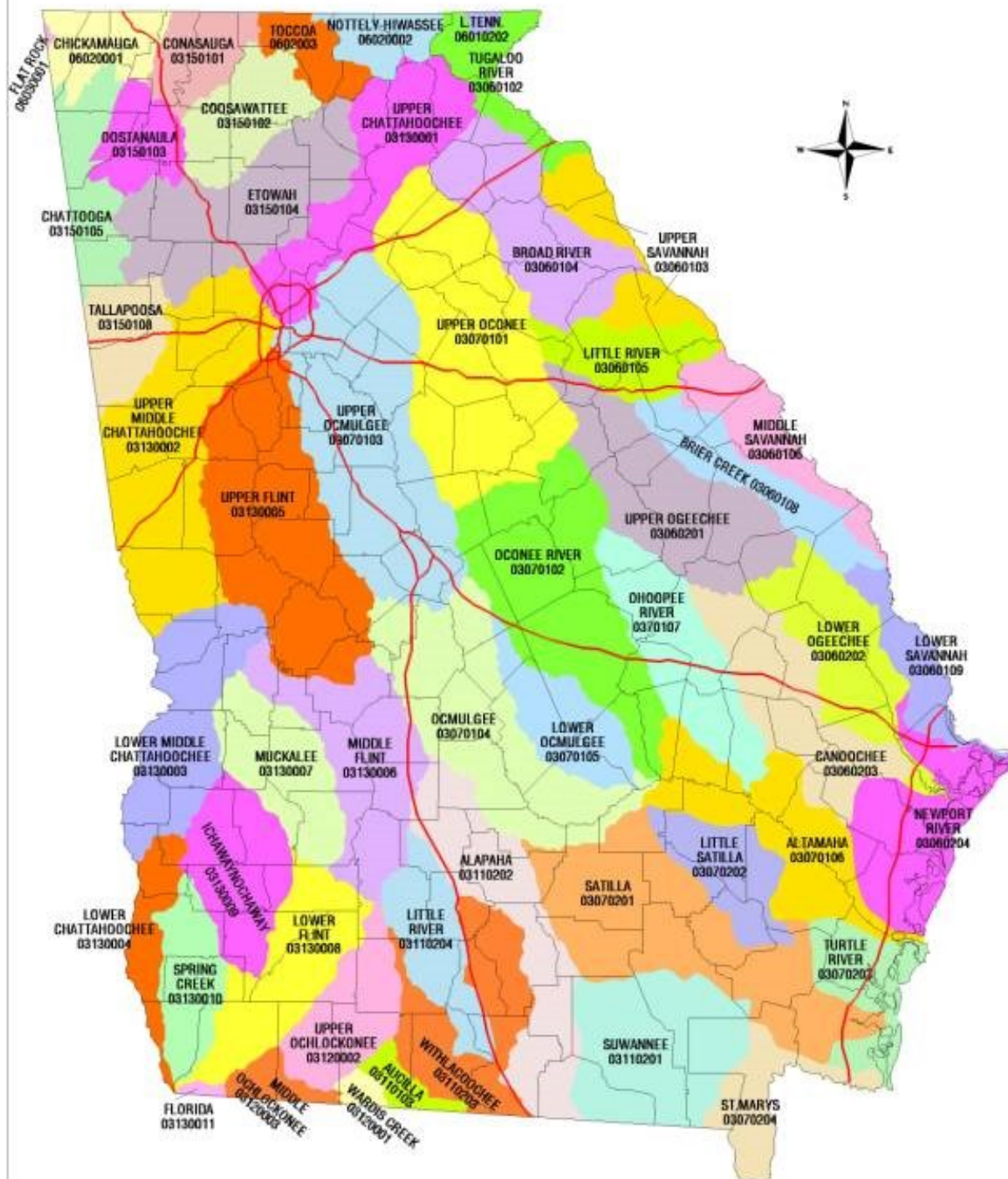
Natural Resources Conservation Service

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NWQI Source Water Protection Priority Areas



Georgia's 52 Watersheds



Map by the Geologic Survey Branch, Environmental Protection Division
 Provided to the Georgia Water Management Campaign
 Watershed boundaries from United States Geological Survey 8-digit Hydrologic Cataloging Units
 Watershed names from Water Protection Branch, Environmental Protection Division