

## SUMMARY OF RRBC GRANT-FUNDED PROGRAMS

### National Fish and Wildlife Foundation (NFWF) Grant NFWF Stormwater

Amount: \$725,000  
Funding advances upon request with last 10% withheld until completion  
Awarded: July 2009  
Term: January 1, 2009 to August 31, 2011  
Title: Watershed Scale Stormwater Management for the Rivanna River Basin

#### Overview:

The decision to apply for this grant grew organically out of the Commission's recommendations to localities to promote advanced stormwater techniques in order to reduce stormwater and runoff volumes entering Rivanna streams and tributaries (see January 15, 2009 letter to Rivanna watershed localities). This NFWF (pronounced "Niff Wiff") grant provides funding to the RRBC to help the localities by providing cost-share funding for selected projects that can serve as demonstrations of stormwater best management practices (BMP's). Additional components of the project are listed below. *This grant provides approximately 1/2 the salary of the Executive Director in FY 2010 and FY 2011. It provides 1/4 salary for the program Coordinator in FY2010.*

#### Tasks:

1. Provide funding to localities to help with design and construction of stormwater BMP's on public lands.
2. Monitor the effectiveness of these projects for reductions in nutrients and sediments.
3. Conduct inventories of public lands to identify opportunities for retrofitting sites with advanced stormwater management practice (to help localities to prioritize projects for the CIP and/or seek additional grant funding).
4. Conduct a series developer roundtables and workshops to promote advanced stormwater management techniques and to identify impediments to their adoption.
5. Work with developers and localities' staff to identify incentives and other tools to encourage adoption of advanced stormwater management in private development.

#### Sub-contracts:

- StreamWatch (NTE \$15,000) for biomonitoring and habitat assessment at Fluvanna High School construction site (before, during construction) and Greene County Park (before, during and after restoration work) – under negotiation
- Thomas Jefferson Planning District Commission (NTE \$24,000) for designing and implementing stormwater monitoring of bioswale at Charlottesville High School and Crozet stormwater management wetlands
- Center for Watershed Protection (NTE \$88,000) to (a) conduct inventory of opportunities to retrofit public facilities in Fluvanna and Greene counties for advanced stormwater management; (b) prepare Stormwater Master Plan for Greene County Park; (c) design bioswale for stormwater management at Greene

County park; and (d) make presentations to public bodies on stormwater management projects

- Rivanna Conservation Society (amount NTE \$10,000) to (a) provide volunteer assistance for tree and shrub stabilization planting at Greene County Park; (b) to coordinate “public planting day” at Greene County Park bioswales with participation of Greene County schools and Greene County Supervisors; (c) plan and coordinate riparian tree planting following restoration of stream in Greene County Park (pending successful acquisition of separate restoration funding)

Deliverables:

- Demonstration stormwater management projects in each locality
- Monitoring data for all four demonstration sites
- Inventory retrofit studies for Greene and Fluvanna counties
- Developer roundtables, workshops, and culminating watershed-wide workshop or symposium
- Summary report documenting and assessing the workshops, roundtables, and watershed-wide symposium

Grant Reporting Requirements:

- January 1, 2010 Interim Programmatic Report
- October 31, 2010 Annual Financial Report
- January 1, 2011 Interim Programmatic Report
- November 30, 2011 Final Financial Report
- November 30, 2011 Final Programmatic Report

Status:

- Executed Memoranda of Agreement with Fluvanna County and City of Charlottesville for cost share of demonstration BMP’s
- Developed preliminary stormwater BMP effectiveness concept (with RRBC TAC Monitoring Subcommittee)
- Supporting UVA Dept. of Environmental Sciences in seeking funding for UVA student interns to help with NFWF stormwater monitoring
- Preliminary meetings with Fluvanna and Greene County’s staff to scope the inventory retrofit studies
- Co-hosted with the localities and DCR three “Developers Roundtables” to provide accurate and timely information regarding proposed Stormwater Regulations the proposed revisions to the Virginia Stormwater Management Program (for “new development”) (March-April 2009)
- Co-hosted with Albemarle County, Center for Watershed Protection, TJSWCD, and McKee Carson two ASCE webinars on designing rainwater harvesting systems and one workshop applying Runoff Reduction Method to rainwater harvesting (August and October 2009)
- With TJSWCD, encouraging Virginia Department of Health to promulgate statewide guidelines for the reuse of harvested rainwater
- Numerous meetings with watershed partners (TJPDC, RCS, SELC, UVA, CWP) to coordinate stormwater ordinance review to lessen impact on localities’ staff
- Conducted “scope of work” discussions with TJPDC, StreamWatch, RCS, and CWP on grant

**Virginia Department of Conservation & Recreation (DCR)  
Healthy Waters Pilot Project**

Amount: \$55,000  
Funding on periodic reimbursable basis  
Awarded: July 2009  
Term: July 15, 2009 through June 30, 2010  
Title: Rivanna River NPS and Healthy Waters

**Overview:**

This project brings emphasizes the “anti-degradation” provision of the Clean Water Act that requires that “healthy waters” not be degraded further, a requirement that has been largely ignored in the face in the exponential growth of numbers of impaired waterways. Virginia DCR has been working with EPA Region III to elevate the focus on protection of healthy waters. The Rivanna watershed is one of the few Virginia non-coastal (above the fall line) watersheds to be assessed this way.

**Tasks:**

1. Assess and identify the Rivanna River Basin’s “healthy waters” according to the VCU tool (INSTAR) used with the biological and habitat data from 55 stream reaches in the Rivanna.
2. Develop GIS-based decision support tool based on healthy waters assessment.
3. Coordinating with local partners, RRBC will work to integrate language and measures to specifically protect “healthy waters” from degradation in the context of planning tools (comp plan, ordinance review, etc.). [Given the limited funding retained in-house for staff at RRBC, focus has been on support to Greene County during the revision of its comprehensive plan.]
4. Review of all Rivanna watershed planning and conservation activities (update the 1998 *State of the Basin Report*).
5. Coordinate the “healthy waters” message with StreamWatch assessment, evaluation, and reporting.

**Sub-contracts**

- Virginia Commonwealth University (\$32,000) Virginia to assess fish populations; develop approved Quality Assurance Program Plan (QAPP); conduct data analysis and assessment utilizing INSTAR program; identify Rivanna “healthy waters” and upload data to online database
- StreamWatch (\$16,115) to perform biological sampling and data; consult with VCU on assessment and developing common public messaging

**Deliverables:**

- December 31, 2009 All biological, fish, and habitat data gathered and data analysis performed
- March 1, 2010 QAPP approved by DEQ/EPA
- March 1, 2010 Post previous watershed planning efforts online

- May 1, 2010 Develop GIS support tools
- June 1, 2010 Draft Healthy Watershed Work Plan
- June 30, 2010 Final Healthy Watershed Work Plan
- June 30, 2010 Final report, geo-referenced data and stream health assessment accessible online

Status:

- All biological, fish, and habitat data collected by December 31, 2009 with QA samples sent to VCU.
- “Healthy waters” language developed for TJPDC Greene Infrastructure Plan for inclusion by reference in the update to the Greene County Comprehensive Plan.
- Comments and recommendations for “healthy water” and “improved water quality” provisions provided to the Greene County Planning Commission for inclusion in the update to the Greene County Comprehensive Plan.
- Recruited additional assistance from the Center for Watershed Protection for Greene County staff for all phases of planning tools updates (comprehensive plan, code and ordinance review) as desired through NFWF “Circuit Rider” grant to the Center.

**Virginia Department of Conservation & Recreation (DCR) – Mini-Grant  
Greene County Land Cover Map**

Amount: \$5,000  
Reimbursable at completion of project  
Awarded: June 15, 2009  
Term: December 31, 2009  
Title: Rivanna River NPS and Healthy Waters

Overview:

The Commission, along with partners, has funded the development of a high resolution GIS map layer that characterizes land cover (including impervious surfaces and agricultural and land development patterns) for the entire Rivanna watershed. Albemarle and Fluvanna counties contributed additional funding to have the non-Rivanna portions of their counties mapped. This grant funds the non-Rivanna portion of Greene County (i.e. north of Route 33). This map is being considered for inclusion in the Greene County Comprehensive Plan update for its description of existing conditions. The Nature Conservancy provides technical project management.

Tasks:

- Develop land cover map for the non-Rivanna portion of Greene County, Virginia, and deliver GIS layer to Greene County staff

Sub-contracts

- \$4400 to WorldView Solutions, Inc. for land cover map for the non-Rivanna portion of Greene County, Virginia

Deliverables:

- Develop land cover map for the non-Rivanna portion of Greene County, Virginia, and deliver GIS layer to Greene County staff (December 31, 2009)

Status:

- Impervious layers for 2007 and 2009 have been developed.
- Final map layer has been delayed due to the requirement to use 2009 imagery for base layer (which was subsequently delayed in its delivery to the Commonwealth).
- The Nature Conservancy and partners are reviewing draft work product.
- Final map product for Greene County will be available March 2010.

**The Nature Conservancy of Virginia (TNC)  
Rivanna River Basin Commission Start-up Funding**

Amount: \$392,000  
Grant monies requested annually. FY 2010 request was \$73,000.  
Awarded: 2007  
Term: 2007 through  
Title: Rivanna River Basin Commission Operational Funding

Overview:

In 2004, the Virginia General assembly passed the enabling legislation for the creation of the Rivanna River Basin Commission. In April 2007, the Commission first met and subsequently appointed its Technical Advisory Committee. During this time, The Nature Conservancy directed significant efforts towards fundraising specifically for the Rivanna River Basin Commission. From April 2007 until December 2008, the Commission enjoyed staff support and program management from The Nature Conservancy at no cost to the Commission. In January 2009, the Commission hired contract support and in April 2009, the Commission hired its first Executive Director. All administrative and managerial functions transferred to the staff of the Commission in 2009 resulting in expenditure of TNC money to support the start-up operations of the Commission. According to the annually executed grant agreement with the Commission, TNC holds all funds raised for the Commission so that it can provide some fiscal oversight on these funds on behalf of the donors.

Tasks:

- Pursue the mission of the Commission as set forth in Section 62.1-69.45 et seq. of the Code of Virginia (1950), as amended.

Deliverables:

- Quarterly fiscal and programmatic reports.

Status:

- Presently working with The Nature Conservancy to execute the 2010 Grant Agreement, based on the Commission becoming its own fiscal agent in late 2009.