

Project Location and Background

Spring Creek, Little Sandy River, Bush River, Briery and Sayers Creeks are located in Prince Edward and Amelia Counties. An implementation project for bacteria impairments in the creeks was initiated in 2006. The Virginia Department of Conservation and Recreation (DCR) contracted with the Piedmont Soil & Water Conservation District and provided Water Quality Improvement Funds (WQIF) for BMP implementation.

Implementation Highlights

The table below lists BMPs implemented in the watersheds within the period of 2006 through June 2015. DCR discontinued the implementation project at the end of FY2015. These BMPs were funded with state WQIF/VNRCF targeted TMDL cost-share funds. The total cost-share payments for these BMPs were \$1,107,797. A total of 38,212 feet of stream fencing has been installed through the USDA Conservation Reserve Enhancement Program. A total of 182,530 feet of fencing was installed through TMDL fencing practices, bringing the total amount of exclusion fencing to 44 miles. In addition, 47 acres have been enrolled under a new pasture management BMP.

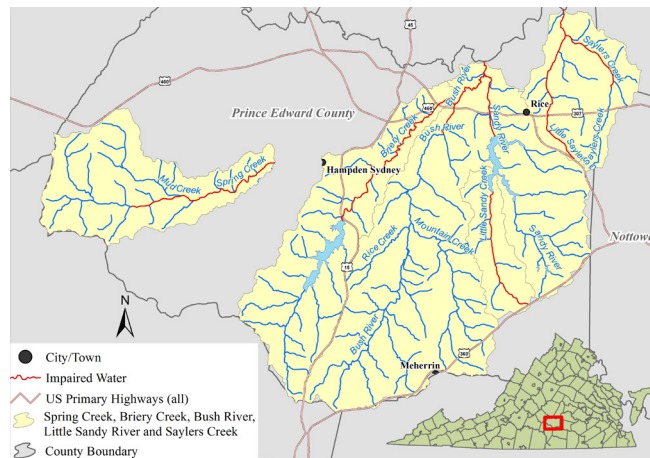
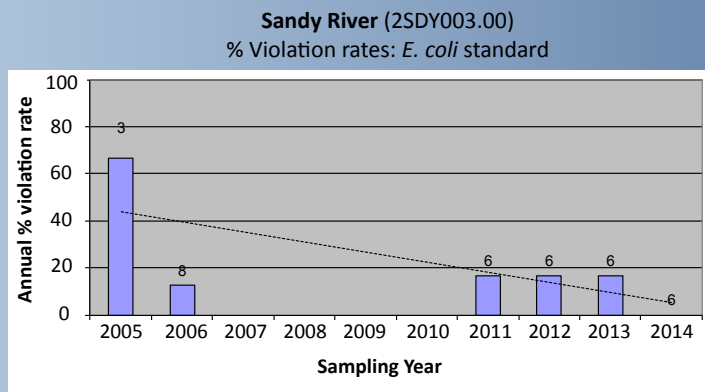


Table 1. Spring, Briery, Sayers Creeks & Bush & Little Sandy Rivers BMP Summary: 2006-2015

*BMP code	Units	Installed
CRFR-3	Acres	170
CRSL-6	Acres	38,212
FR-1	Feet	339
LE-1T	Acres	86,275
LE-2T	Feet	2,190
SL-1	Feet	218
SL-6	Acres	65,841
SL-6T	Acres	28,642
SL-7T	Feet	23
SL-8B	Feet	1,907
SL-8H	Acres	1,030
SL-10T	Acres	47
SL-11	Acres	4
WP-1	Acres	1
WP-2	Acres	2,993
WP-2T	Acres	10,994
WP-4B	Feet	1

*For BMP code definitions, see Appendix 2 or visit the [DCR webpage](#).

Water Quality Monitoring Results



Water quality data collected by VADEQ from 2005 through August 2014 was analyzed to determine the impact of BMPs on *E. coli* violation rates and associated long term trends.

The bar graph shows the percent violation rate for samples collected annually that did not meet the water quality standard of 235 cfu/100 mL. The number of samples collected per year is shown above each bar. The linear regression fitted to the data shows a significant decreasing trend in violation rates over the sampling period, **indicating significant improvement in water quality in Sandy River.**



For more information, contact:

Charlie Lunsford, VADEQ

TMDL Implementation Project Manager

charlie.lunsford@deq.virginia.gov; (804) 698-4172