

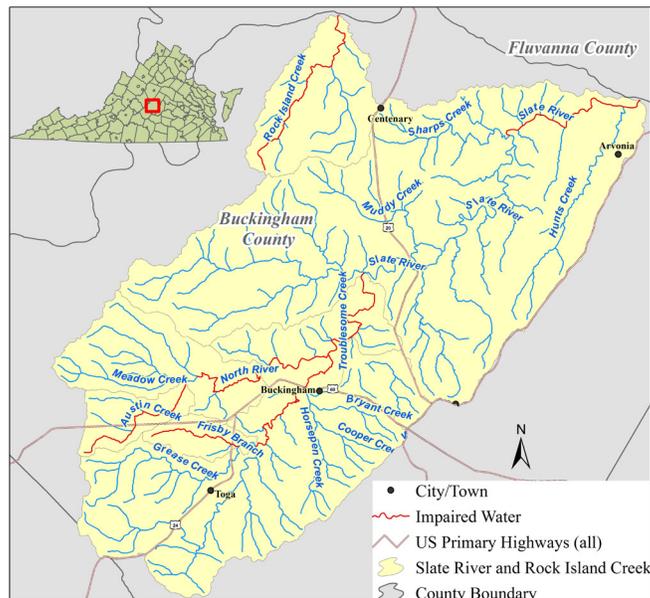
319H TMDL Implementation Project Report

SLATE RIVER & Rock Island Creek

Virginia Nonpoint Source MANAGEMENT PROGRAM

Project Location and Background

The Slate River and Rock Island Creek are located in Buckingham County, Virginia, approximately 60 miles west of Richmond. Both creek are within the James River watershed. The Slate River and Rock Island Creek and their tributaries were listed as not meeting water quality standards on Virginia’s 2002 and 2004 303(d) lists. The impairments were due to violations of the State’s bacteria standard for recreational contact. In 2002, the lower and upper Slate River and its tributaries (Frisby Branch and North River) were placed on Virginia’s 303(d) list because of violations of the bacteria water quality standard as well. A bacteria TMDL study was completed for streams in 2007, and a TMDL implementation plan followed in 2010.



Implementation Highlights

The Slate River implementation project, which also covers Muddy Creek and Turpin Creek is administered by the Peter Francisco Soil and Water Conservation District (PFSWCD). Table 1 shows BMPs implemented in the watersheds since the project began in 2011 and overall implementation goals. From July 2014 through June 2015, 8,545 linear feet of livestock exclusion fencing was installed in the watersheds. In the residential program, twelve septic tank pump outs and one septic system installations/replacements were completed.

Pollution Reductions

Pollution reductions for bacteria, nitrogen, phosphorus and sediment for BMPs installed during the project period are summarized in Table 2.

Table 2. Pollution Reductions for the Slate River and Rock Island Creek: July 2011-June 2015

Period	Pathogens: coliform (cfu/100mL)	Nitrogen (lbs/yr)	Phosphorous (lbs/yr)	Sedimentation-Siltation (T/yr)
July 2014-June 2015	1.52E+15	772	95	131
January 2012 -June 2015	1.57E+15	4,209	518	491

Table 1. Slate River and Rock Island Creek BMP Summary: July 2011 – June 2015

Control measure	Units	Needed	Installed	%
Agricultural				
Livestock exclusion fencing	F	1.3M	22,646	2
Livestock exclusion fencing	S	406	12	3
Extension of CREP watering system	A	-	48	-
Reforestation of crop and pasture land	A	30	47	157
Residential septic				
Septic tank pumpout	S	187	44	23
Septic system repair	S	90	0	-
Septic system installation	S	97	9	9
Alternative waste sewage system	S	4	2	50

NOTE: BMP counts after 7/1/2010 only include 319, WQIF and VNRCF funded projects. BMPs funded by State CS, CREP or Federal EQIP are not included after this date (though they may have been included previously); A = Acres, S = System, F = Feet

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