

Virginia TMDL Implementation Project Report

MOSSY & NAKED CREEKS & Long Glade Run

Virginia Nonpoint Source MANAGEMENT PROGRAM

Project Location and Background

Mossy and Naked Creeks and Long Glade Run are located in Augusta and Rockingham Counties, Virginia. An implementation project to address bacteria impairments in the creeks and an aquatic life impairment attributed to sediment (Mossy Creek only) was initiated in 2006. The Virginia Department of Conservation and Recreation (DCR) contracted with the Headwaters Soil & Water Conservation District and provided funding from the Water Quality Improvement Fund (WQIF) for project implementation.

Implementation Highlights

Table 1 lists BMPs implemented in the watersheds between 2006 and 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 \$749,587. DCR and the Headwaters Soil and Water Conservation District decided to scale back targeted TMDL funding in FY13 and fund only stream exclusion practices. Stream fencing practices have been installed through the USDA Conservation Reserve Enhancement Program (14,630 feet), and through TMDL cost share program practices (84,592 feet). As a result of these efforts, a total of 19 miles of livestock stream exclusion fencing has been installed in the watersheds.

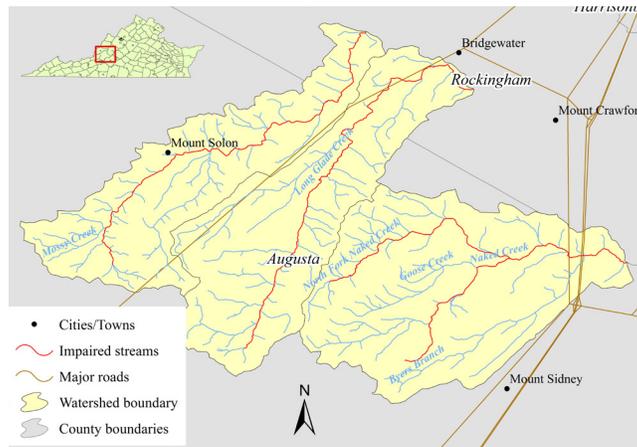


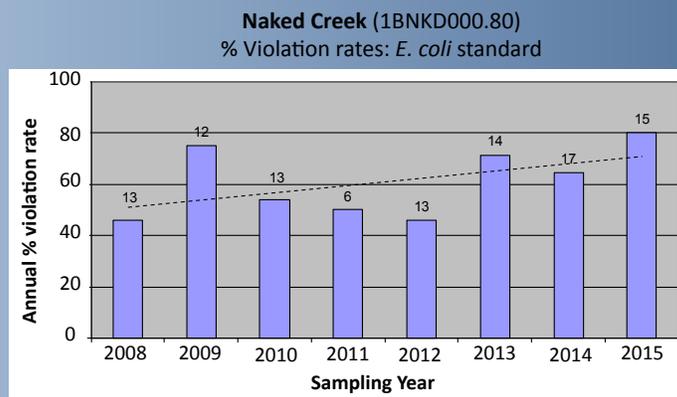
Table 1. Mossy & Naked Creeks & Long Glade Run BMP Summary 2006-2015

*BMP code	Units	Installed
CRFR-3	Acres	85
CRLF-1	Feet	15,311
CRSL-6	Feet	10,830
CRWP-2	Feet	3,800
LE-1T	Feet	14,205
LE-2T	Feet	5,885
SL-1	Acres	77
SL-6T	Feet	64,502
SL-7T	Acres	7
SL-8B	Acres	3,629
SL-8H	Acres	2,323
WP-4	Syst.	4
WQ-4	Acres	259

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

Water Quality Monitoring Results

Water quality data collected by VADEQ from 2008 through 2015 was analyzed to determine the impact of BMPs on *E. coli* violation rates and associated long term trends.



The bar graph above 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 each year is shown above each bar. The linear regression fitted to the data shows an increasing trend in violation rates over the sampling period, **indicating a lack of improvement in water quality in Naked Creek.**

For more information, contact:

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