

03050201-02
(Wadboo Creek)

General Description

Watershed 03050201-02 (formerly 03050201-020) is located in Berkeley County and consists primarily of **Wadboo Creek** and its tributaries. The watershed occupies 82,385 acres of the Lower Coastal Plain region of South Carolina. Land use/land cover in the watershed includes: 45.1% forested land, 38.7% forested wetland, 11.4% agricultural land, 2.8% urban land, 1.8% nonforested wetland, and 0.2% water.

Gravel Hill Swamp (Walker Swamp, Halfway Swamp) merges with Rice Hope Swamp to form Wadboo Swamp near the Town of Bonneau. Downstream of the confluence, Wadboo Swamp accepts drainage from Stewart Creek, Whiskinboo Creek (Cane Pond Branch), Cane Gully Branch (Walleye Bay, Peters Swamp, Callum Branch), and Bullhead Run (Mary Anne Branch, Vanilla Bay, Middle Bay). Wadboo Swamp becomes Wadboo Creek at the confluence with Broad Ax Branch (Canady Branch, Mingo Branch). Walleye Bay accepts drainage from Whitten Bay and Boggy Swamp before draining into Cane Gully Branch. Little Ocean Bay and Graveyard Bay drain into Peters Swamp through Graveyard Lead and Mill Bay drains directly into Peters Swamp. Wadboo Creek flows into the headwaters of the West Branch Cooper River. There are a total of 223.9 stream miles and 133.7 acres of lake waters in this watershed, all classified FW. Another natural resource is the Francis Marion National Forest, which extends across the entire watershed.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
ST-007	S/W	FW	WALKER SWAMP AT US 52 2.5 MI S OF ST. STEPHENS
CSTL-113	W/INT	FW	WADBOO CREEK AT SC 402

Walker Swamp (ST-007) – Aquatic life uses are not supported due to dissolved oxygen excursions, which are compounded by a significant decreasing trend in dissolved oxygen concentration. Recreational uses are fully supported.

Wadboo Creek (CSTL-113) – Aquatic life uses are fully supported; however, there are significant decreasing trends in dissolved oxygen concentration and increasing trends in five-day biochemical oxygen demand and total phosphorus concentration. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standard violations. A significant decreasing trend in total nitrogen concentration suggests improving conditions for this parameter. Recreational uses are fully supported.

A fish consumption advisory has been issued by the Department for mercury and includes Wadboo Creek within this watershed. For more information and the most current advisory, visit <http://www.scdhec.gov/fish>.

NPDES Program

Active NPDES Facilities

*RECEIVING STREAM
FACILITY NAME*

*NPDES#
TYPE*

WADBOO SWAMP TRIBUTARY
D&S CONSTRUCTION/BONNEAU MINE

SCG731110
MINOR INDUSTRIAL

Nonpoint Source Management Program

Mining Activities

*MINING COMPANY
MINE NAME*

*PERMIT #
MINERAL*

WARE BROTHERS, INC.
FONDREN EARTH EXCAVATION

0817-15
SAND/GRAVEL

Growth Potential

There is a low potential for growth in this watershed, which contains portions of the Towns of St. Stephens and Bonneau and portions of the communities of Macedonia and Russellville. A large portion of the watershed is contained within the Francis Marion National Forest.

Watershed Protection and Restoration

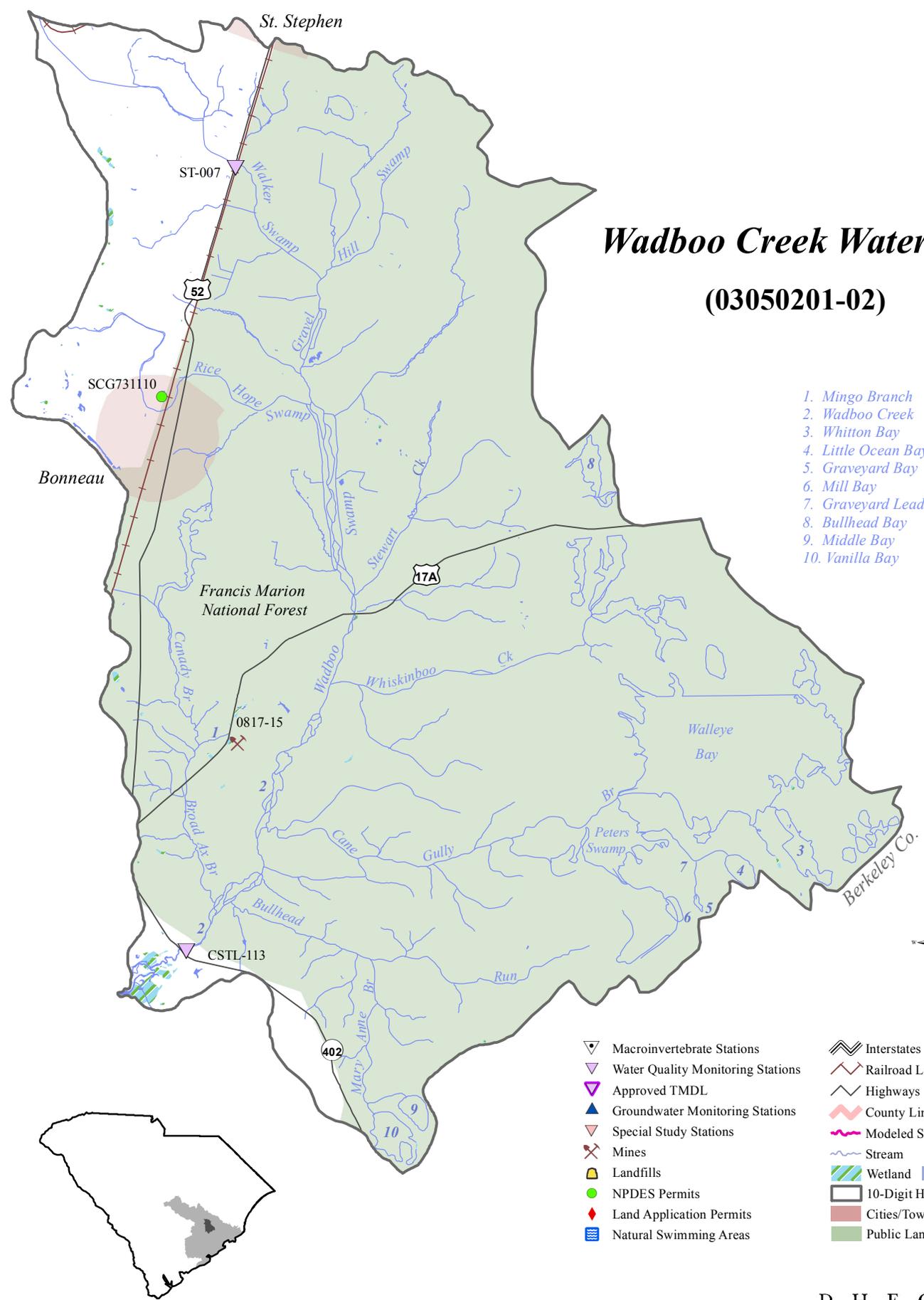
Total Maximum Daily Loads (TMDLs)

Pathogen indicator (E. coli) TMDLs have been developed for two sites on *Wadboo Creek* (RS-02461 and RS-03333) within Francis Marion National Forest. As of May 2013, it is anticipated that these TMDLs will soon be placed on public notice for comment. After the comment period and appropriate responses by DHEC to any received comments, DHEC will submit the TMDLs to the USEPA for their approval. After approval by EPA, the Wadboo Creek TMDLs will be made available on DHEC website: www.scdhec.gov/tmdl.

Wadboo Creek Watershed

(03050201-02)

1. Mingo Branch
2. Wadboo Creek
3. Whitton Bay
4. Little Ocean Bay
5. Graveyard Bay
6. Mill Bay
7. Graveyard Lead
8. Bullhead Bay
9. Middle Bay
10. Vanilla Bay



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|-------------------------------------|-----------------------------|
| ▽ Macroinvertebrate Stations | ≡ Interstates |
| ▽ Water Quality Monitoring Stations | — Railroad Lines |
| ▽ Approved TMDL | — Highways |
| ▲ Groundwater Monitoring Stations | — County Lines |
| ▽ Special Study Stations | — Modeled Stream |
| ⚡ Mines | — Stream |
| 🗑️ Landfills | 🌿 Wetland |
| ● NPDES Permits | 🟦 Lake |
| ♦ Land Application Permits | ▭ 10-Digit Hydrologic Units |
| 🏊 Natural Swimming Areas | 🏠 Cities/Towns |
| | 🌳 Public Lands |

