

03050112-04
(North Santee River)

General Description

Watershed 03050112-04 (formerly 03050112-040 and the North Santee River portion of -060) is located in Georgetown and Williamsburg Counties and consists primarily of the **North Santee River** and its tributaries. The watershed occupies 81,330 acres of the Lower Coastal Plain and Coastal Zone regions of South Carolina. Land use/land cover in the watershed includes: 39.9% forested land, 25.0% forested wetland, 19.9% nonforested wetland, 7.0% water, 6.2% agricultural land, 1.6% urban land, and 0.4% barren land.

The lower Santee River divides into the South Santee River and the North Santee River, both draining into the Atlantic Ocean. The North Santee River is classified FW from its origin to the U.S. Hwy. 17 crossing, SA from the U.S. Hwy. 17 crossing to 1000 feet below the Atlantic Intracoastal Waterway (AIWW) crossing, and ORW from 1000 feet below the AIWW crossing to the Atlantic Ocean. Streams flowing into these sections of the river take on that section's classification. The Santee Swamp lies between the South and North Santee Rivers. The North Santee River accepts drainage from Wadmacon Creek (Cedar Creek, Long Branch, Brunson Branch, Dawhoo Lake, Wilkes Branch, The Cutoff), Cedar Creek (Foot Log Slough), Pole Branch, Bonny Clabber Creek, White Oak Creek, and Sixmile Creek. The Cutoff connects Wadmacon Creek to the lower Santee River. Minim Creek drains into the North Santee River and into the North Santee Bay, and incorporates the drainage of Kinloch Creek (Bluff Creek), Pleasant Meadow Creek, Bella Creek, and Cork Creek. Atchison Creek and Fourmile Creek Canal drain directly into the river, and Little Duck Creek, Duck Creek, Big Duck Creek, Mosquito Creek, and Beach Creek drain into the North Santee Bay. The AIWW flows through the Esterville Minim Creek Canal, connecting Duck Creek to the Pee Dee Basin. Cane Creek connects the North Santee River to the North Santee Bay, and Bird Bank Creek enters the river just before it flows into the Atlantic Ocean. The Britton Neck area is near the headwaters of the North Santee River. There are a total of 212.2 stream miles in this watershed, along with 71.1 acres of lake waters, and 3,298.4 acres of estuarine areas. Additional natural resources in the watershed include several wildlife management areas and the Yawkey Center.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
ST-005	W	FW/SA	NORTH SANTEE RIVER AT US 17
RO-056098	RO-05	SA	NORTH SANTEE RIVER, 3.9MI SSE OF NORTH SANTEE
RT-07065	RT-07	SA	MINIM CK, 0.25 MI W OF MOUTH OF PLEASANT MEADOW CK
RT-042068	RT-04	SA	MINIM CREEK, 0.15 MI E OF MOUTH OF BELLA CREEK
MD-263	INT	ORW	NORTH SANTEE BAY AT BEACH CREEK
RO-06301	RO-06	ORW	N. SANTEE BAY, 2.5MI N OF CONFL. WITH ATLANTIC OCEAN

North Santee River – There are two monitoring sites along the North Santee River. The upstream site (*ST-005*) has both freshwater and saltwater classifications. The freshwater classification is fully supported for aquatic life uses, however; there is a significant increasing trend in turbidity. The saltwater classification is not supported due to turbidity excursions, which is compounded by the increasing trend in turbidity. Both classifications indicate a significant decreasing trend in total phosphorus concentration which suggests improving conditions for this parameter. Recreational uses are fully supported with both classifications. The downstream site (*RO-056098*) is fully supporting of aquatic life and recreational uses.

Minim Creek - There are two monitoring sites along Minim Creek. At both the upstream site (*RT-07065*) and the downstream site (*RT-042068*), aquatic life and recreational uses are fully supported. Although dissolved oxygen excursions occurred at both sites, they were typical of values seen in such systems and were considered natural, not standard violations.

North Santee Bay - There are two monitoring sites along North Santee Bay. At the upstream site (*MD-263*), 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. Although dissolved oxygen excursions occurred, they were typical of values seen in such systems and were considered natural, not standard violations. Recreational uses are fully supported; however, there were significant increasing trends in fecal coliform bacteria concentration. At the downstream site (*RO-06301*), aquatic life and recreational uses are fully supported.

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

Groundwater Quality

<u>Well #</u>	<u>Class</u>	<u>Aquifer</u>	<u>Location</u>
AMB-087	GB	SURF SANDS	NORTH SANTEE

Shellfish Monitoring Stations

<u>Station #</u>	<u>Description</u>
06A-03	NORTH SANTEE RIVER AT BEACH CREEK
06A-04	NORTH SANTEE INLET
06A-04A	NORTH SANTEE BAY – E. OF CANE ISLAND
06A-04B	NORTH SANTEE RIVER - SW OF CANE ISLAND
06A-04C	NORTH SANTEE RIVER NEAR NORTHWESTERN TIP OF CANE ISLAND
06A-05	NORTH SANTEE RIVER AND MOSQUITO CREEK
06A-11	AIWW AT MINUM CREEK

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME</i>	<i>NPDES# TYPE</i>
NORTH SANTEE RIVER GCW&SD NORTH SANTEE WWTP	SC0042439 MINOR DOMESTIC
NORTH SANTEE RIVER SCPSA/WINYAH STEAM	SC0022471 MAJOR INDUSTRIAL
CEDAR CREEK TRIBUTARY BLACK RIVER GRADING/LAMBERT PIT MINE	SCG730512 MINOR INDUSTRIAL
CEDAR CREEK STONE CONSTR. CO./HWY 41 PIT	SCG730676 MINOR INDUSTRIAL

Nonpoint Source Management Program

Mining Activities

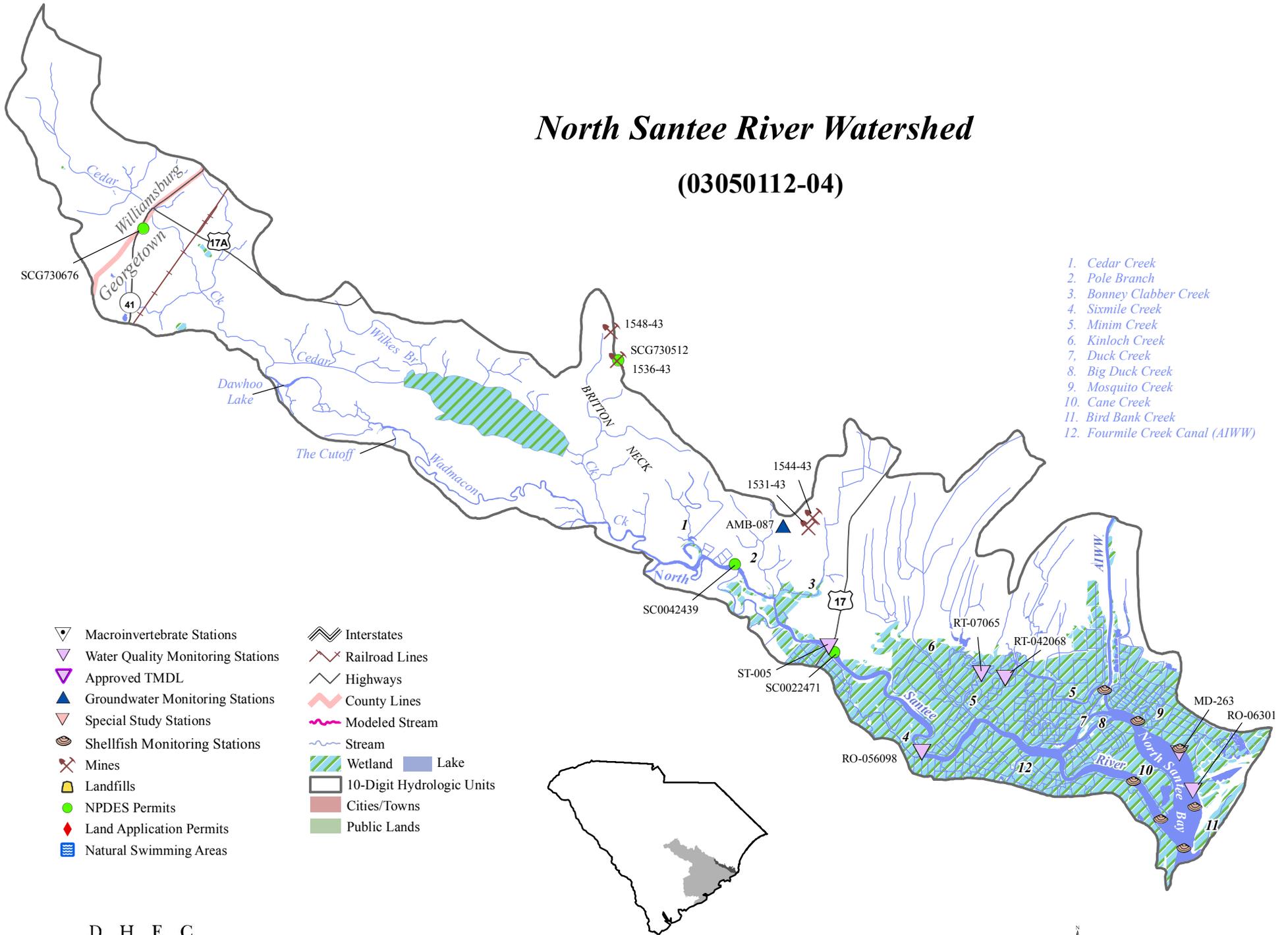
<i>MINING COMPANY MINE NAME</i>	<i>PERMIT # MINERAL</i>
SHADER & SONS, INC. POWELL ROAD DIRT PIT	1548-43 SAND
BLACK RIVER GRADING & EXCAVATING LAMBERT PIT MINE	1536-43 SAND
MCKENZIE BACKHOE & DOZIER SERVICE, INC. CHARLES CLARK MINE	1531-19 SAND
SHELLEYS LANDCLEARING TAYLOR POND MINE	1544-43 SAND

Growth Potential

There is a low potential for growth projected for this watershed.

North Santee River Watershed

(03050112-04)



1. Cedar Creek
2. Pole Branch
3. Bonney Clabber Creek
4. Sixmile Creek
5. Minim Creek
6. Kinloch Creek
7. Duck Creek
8. Big Duck Creek
9. Mosquito Creek
10. Cane Creek
11. Bird Bank Creek
12. Fourmile Creek Canal (AIWW)

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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 |
| 🍽 Shellfish Monitoring Stations | 🌊 Stream |
| ⚡ Mines | 🌊 Wetland |
| 🗑 Landfills | 🌊 Lake |
| ● NPDES Permits | 🗂 10-Digit Hydrologic Units |
| ♦ Land Application Permits | 🏠 Cities/Towns |
| 🏊 Natural Swimming Areas | 🌲 Public Lands |

