

03040205-03

(Cane Savannah Creek)

General Description

Watershed 03040205-03 is located in Sumter County and consists primarily of *Cane Savannah Creek* and its tributaries. The watershed occupies 88,147 acres of the Upper Coastal Plain region of South Carolina. Land use/land cover in the watershed includes: 26.2% forested land, 24.5% agricultural land, 24.4% urban land, 22.6% forested wetland, 1.1% nonforested wetland, 0.8% water, and 0.4% barren land.

Hatchet Camp Branch (McCray Lake) and Brunson Swamp (Elliott Lake, Burnt Gin Lake) merge to form Cane Savannah Creek. Nasty Branch (Harvin Bay, Red Oak Branch, Bush Bay, Bush Branch, Bethel Creek, Cain Millpond) enters Cane Savannah Creek next followed by Green Swamp. Green Swamp accepts drainage from Horsepen Branch, Mush Swamp (Suicide Branch, Frierson Pond, Bluffhead Branch, Loring Millpond, Spann Branch, Long Branch, Booths Pond, Sawmill Pond, Cypress Bay, Pitts Savannah), Second Millpond, and Shot Pouch Branch (Swan Lake) before draining into Cane Savannah Creek. The headwaters of Brunson Swamp are within the Manchester State Forest, and Shaw Air Force Base lies between Mush Swamp and Long Branch. There are a total of 129.7 stream miles and 614.0 acres of lake waters in this watershed. Green Swamp is classified FW* (Dissolved oxygen not less than 4.0 mg/l and pH between 5.0 and 8.0) and the remaining streams in the watershed are classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
PD-239	W	FW	NASTY BRANCH AT S-43-251 7.5 MI SW OF SUMTER
PD-039	W	FW*	GREEN SWAMP AT S-43-33

Nasty Branch (PD-239) –Aquatic life uses are partially supported due to dissolved oxygen excursions; however, a significant increasing trend in dissolved oxygen concentration suggests improving conditions for this parameter. There is a significant increasing trend in pH. Recreational uses are not supported due to fecal coliform bacteria excursions.

Green Swamp (PD-039) – Aquatic life uses are not supported due to dissolved oxygen excursions. There is a significant increasing trend in pH. Recreational uses are fully supported; however, there is a significant increasing trend in fecal coliform bacteria concentration.

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME</i>	<i>NPDES# TYPE</i>
CANE SAVANNAH CREEK PILGRIMS PRIDE CORP./POULTRY PROC. PLT	SC0000795 MAJOR INDUSTRIAL
MUSH SWAMP USAF/SHAW AIR FORCE BASE	SC0024970 MINOR INDUSTRIAL
MUSH SWAMP CAROLINA MOBILE COURT WWTP	SC0032212 MINOR DOMESTIC

MUSH SWAMP JOE SINGLETON INC./SINGLETON MINE #4	SCG730171 MINOR INDUSTRIAL
MUSH SWAMP CLAUDE NEWMAN & SONS/CNS MINE	SCG730197 MINOR INDUSTRIAL
MUSH SWAMP GLASSCOCK COMPANY, INC.	SC0040088 MINOR INDUSTRIAL
BLUFFHEAD BRANCH HIGH HILLS RURAL WATER CO. INC./HARWOOD MHP	SCG570007 MINOR DOMESTIC
NASTY BRANCH DYSON LANDSCAPING/CAINS MILL MINE	SCG730152 MINOR INDUSTRIAL
HORSEPEN BRANCH PALMETTO CORP./PALMETTO PIT	SCG731242 MINOR INDUSTRIAL

Municipal Separate Storm Sewer Systems (MS4)

<i>RECEIVING STREAM</i>	<i>NPDES#</i>
<i>MUNICIPALITY</i>	<i>MS4 PHASE</i>
<i>RESPONSIBLE PARTY</i>	<i>MS4 SIZE</i>
<i>IMPLEMENTING PARTY</i>	
SPARROW SWAMP SHAW AFB SHAW AFB SHAW AFB	SCR038501 PHASE II SMALL MS4
SPARROW SWAMP CITY OF SUMTER CITY OF SUMTER CITY OF SUMTER	SCR038502 PHASE II SMALL MS4
SPARROW SWAMP UNINCORPORATED AREAS SUMTER COUNTY SUMTER COUNTY	SCR038503 PHASE II SMALL MS4

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

<i>LANDFILL NAME</i>	<i>PERMIT #</i>
<i>FACILITY TYPE</i>	<i>STATUS</i>
G&K TANK SERVICE LAND APPLICATION	432752-8001 ACTIVE
S.C.R. COMPOSTING SITE COMPOSTING	432661-3001 ACTIVE
PHIBRO TECH INC. INDUSTRIAL	----- CLOSED
TOWN OF WEDGEWOOD DUMP MUNICIPAL	----- CLOSED
BURGESS BROGDEN C&D DUMP CONSTRUCTION	----- CLOSED

SUMTER COUNTY WOOD PROCESSING FACILITY COMPOSTING	431001-3001 ACTIVE
CARTER COMPANY C&D LF C&D	----- PROPOSED

Mining Activities

<i>MINING COMPANY</i> <i>MINE NAME</i>	<i>PERMIT #</i> <i>MINERAL</i>
SUMTER COUNTY SAND SMG, INC. PIT	0646-85 SAND
JOE SINGLETON CO. SINGLETON MINE #4	1008-85 SAND/CLAY
CLAUDE NEWMAN & SONS LLC CNS MINE #1	0878-85 SAND/CLAY
DYSON LANDSCAPING CAINS MILL MINE	0418-85 SAND/CLAY
PALMETTO CORP. PALMETTO PIT	2027-85 SAND; TOP SOIL

Growth Potential

There is a high potential for residential, commercial, and industrial growth in this watershed, which contains the majority of the City of Sumter and Shaw Air Force Base. Several major U.S. highways intersect in Sumter and increase the urban sprawl in every direction outside of the city. There are also several industrial parks and three rail lines.

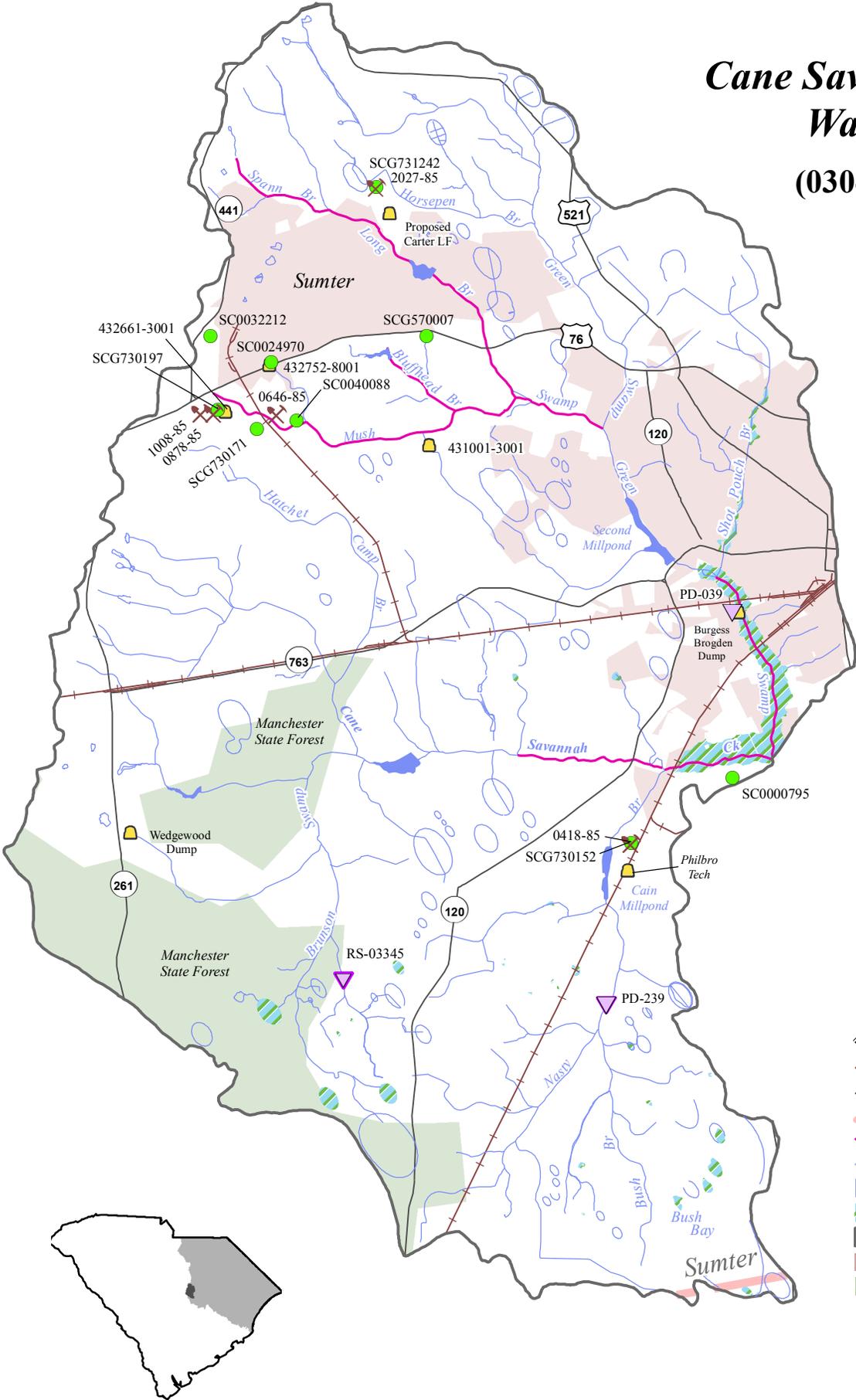
Watershed Restoration and Protection

Total Maximum Daily Loads (TMDLs)

A TMDL was developed by SCDHEC and approved by EPA for *Nasty Branch* water quality monitoring site **PD-239** to determine the maximum amount of fecal coliform bacteria it can receive and still meet water quality standards. Nonpoint sources of fecal coliform are poultry AFOs, land application of manure, possible failing OSWD systems, wildlife, and cattle with direct access to creeks. The TMDL states that a 5% reduction in fecal coliform loading is necessary for the stream to meet the water quality standard.

Cane Savannah Creek Watershed

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- Macroinvertebrate Stations
- Water Quality Monitoring Stations
- Approved TMDL
- Surface Water Intakes
- Shellfish Monitoring Stations
- Mines
- Landfills
- NPDES Permits
- Land Application Permits
- Natural Swimming Areas
- Interstates
- Railroad Lines
- Highways
- County Lines
- Modeled Stream
- Stream
- Lake
- Wetland
- 10-Digit Hydrologic Units
- Cities/Towns
- Public Lands

