

03050201-05
(Cypress Swamp)

General Description

Watershed 03050201-05 (formerly 03050202-010, and a portion of -020) is located in Berkeley and Dorchester Counties and consists primarily of *Cypress Swamp* and its tributaries. The watershed occupies 139,162 acres of the Lower Coastal Plain region of South Carolina. Land use/land cover in the watershed includes: 52.5% forested land, 25.3% forested wetland, 14.4% agricultural land, 7.1% urban land, 0.4% nonforested wetland, 0.2% water, and 0.1% barren land.

Williams Branch flows into Big Run and is joined by Black Creek to form Wassamassaw Swamp, which accepts drainage from Mill Branch, Caton Creek, and Simmons Bay. Partridge Creek (Rudd Branch, Mill Branch) joins Wassamassaw Swamp to form the headwaters of Cypress Swamp. Cypress Swamp receives drainage from Sandy Run (Smith Branch), Miller Dam Branch, Felder Branch, Dawson Branch, Stanley Branch (Kelly Branch), and Green Bay Branch near the Town of Ridgeville. Cypress Swamp then accepts drainage from Captains Creek (McKeown Branch), Platt Branch, Rumphs Hill Creek (Negro Branch), Tina Branch, Hurricane Branch, Bobs Lake, and Schultz Lake before flowing into the Ashley River watershed. There are a total of 357.9 stream miles and 219.7 acres of lake waters in this watershed, all classified FW. Givhans Ferry State Park is located at the base of the watershed.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
CSTL-063	P/W	FW	WASSAMASSAW SWAMP AT U.S. 176
CSTL-078	W/INT	FW	CYPRESS SWAMP AT U.S. 78

Wassamassaw Swamp (CSTL-063) - Aquatic life and recreational uses are fully supported. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standard violations. There is a significant increasing trend in pH. Significant decreasing trends in turbidity and total phosphorus concentration suggest improving conditions for these parameters.

Cypress Swamp (CSTL-078) – Aquatic life uses are fully supported; however, there is a significant increasing trend in five-day biological oxygen demand. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standard violations. There is a significant increasing trend in pH. Recreational uses are partially supported due to fecal coliform bacteria excursions.

Groundwater Quality

<u>Well #</u>	<u>Class</u>	<u>Aquifer</u>	<u>Location</u>
AMB-096	GB	TERTIARY LIMESTONE	LEIBER CORRECTIONAL INST.

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME</i>	<i>NPDES# TYPE</i>
MILL BRANCH D&A PARTNERSHIP/CUMBIE PIT	SCG730115 MINOR INDUSTRIAL
CYPRESS SWAMP TRIBUTARY THE WHITFIELD CO./WHIT'S PIT	SCG730266 MINOR INDUSTRIAL
SANDY RUN TRIBUTARY GRAMLING BROTHERS REAL EST./SKI LAKE MINE	SCG731011 MINOR INDUSTRIAL
SANDY RUN TRIBUTARY GRAMLING BROTHERS REAL EST./CANAL LAKES MINE	SCG731024 MINOR INDUSTRIAL
SANDY RUN TRIBUTARY GRAMLING BROS REAL EST./CANAL LAKES 5ACRE MINE	SCG731029 MINOR INDUSTRIAL

Municipal Separate Storm Sewer Systems (MS4)

<i>RECEIVING STREAM MUNICIPALITY RESPONSIBLE PARTY IMPLEMENTING PARTY</i>	<i>NPDES# MS4 PHASE MS4 SIZE</i>
CYPRESS SWAMP TOWN OF SUMMERVILLE TOWN OF SUMMERVILLE TOWN OF SUMMERVILLE	SCR033502 PHASE II SMALL MS4
CYPRESS SWAMP UNINCORPORATED AREAS BERKELEY COUNTY BERKELEY COUNTY	SCR031501 PHASE II SMALL MS4
CYPRESS SWAMP TOWN OF SUMMERVILLE TOWN OF SUMMERVILLE TOWN OF SUMMERVILLE	SCR033502 PHASE II SMALL MS4
CYPRESS SWAMP UNINCORPORATED AREAS BERKELEY COUNTY BERKELEY COUNTY	SCR031501 PHASE II SMALL MS4

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

<i>LANDFILL NAME</i> <i>FACILITY TYPE</i>	<i>PERMIT #</i> <i>STATUS</i>
WESTVACO INDUSTRIAL	082430-1601 ACTIVE
BFI MUNICIPAL	----- INACTIVE
BFI INDUSTRIAL	----- INACTIVE
AMERIACAN RESOURCES INC. INDUSTRIAL	182415-5201 INACTIVE
CAROLINA RESEARCH DEV. LLC C&D	----- PROPOSED

Mining Activities

<i>MINING COMPANY</i> <i>MINE NAME</i>	<i>PERMIT #</i> <i>MINERAL</i>
ACD, A PARTNERSHIP DANGERFIELD MINE (17A)	0625-15 SAND; SAND/CLAY
WHITFIELD CO. WHITS PIT	0483-15 SAND
GRAMLING BROTHERS REAL ESTATE HWY 176 PIT	1618-15 SAND/TOP SOIL

Growth Potential

There is a moderate potential for growth in this watershed, which contains portions of the Towns of Ridgeville and Summerville, and water and sewer services are available to these growth areas.

Cypress Swamp Watershed (03050201-05)

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

