

## 03050205-02

(Dean Swamp)

### General Description

Watershed 03050205-02 (formerly 03050206-060) is located in Orangeburg and Berkeley Counties and consists primarily of *Dean Swamp* and its tributaries. The watershed occupies 66,760 acres of the Upper and Lower Coastal Plain regions of South Carolina. Land use/land cover in the watershed includes: 48.9% forested land, 27.8% agricultural land, 18.9% forested wetland (swamp), 3.4% urban land, 0.6% barren land, 0.2% water, and 0.2% nonforested wetland (marsh).

Sandy Run (Moon Savanna, Cedar Swamp, Toney Bay) originates near the Town of Eutawville and merges with Black Creek (Little Black Creek) to form Dean Swamp (Briner Branch), which drains into Four Hole Swamp. There are a total of 158.2 stream miles and 397.5 acres of lake waters in this watershed, all classified FW.

### Surface Water Quality

| <u>Station #</u> | <u>Type</u> | <u>Class</u> | <u>Description</u>  |
|------------------|-------------|--------------|---|
| RS-02473         | RS02        | FW           | SANDY RUN TRIB. AT HARVEST ROAD OFF SC 6, 2.4 MI NW OF EUTAWVILLE |
| E-596            | BIO         | FW           | CEDAR SWAMP AT CEMENT BRIDGE ROAD OFF SR 640                      |
| E-030            | INT         | FW           | DEAN SWAMP AT U.S. 176  |

*Sandy Run Tributary (RS-02473)* - This is a blackwater system, characterized by naturally low pH conditions. Although pH excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. Aquatic life and recreational uses are fully supported.

*Cedar Swamp (E-596)* - Aquatic life uses are fully supported based on macroinvertebrate community data.

*Dean Swamp (E-030)* - Aquatic life uses are fully supported. There is a significant increasing trend in pH. Significant decreasing trends in total phosphorus and total nitrogen concentration suggest improving conditions for these parameters. Recreational uses are partially supported due to fecal coliform bacteria excursions, which are compounded by a significant increasing trend in fecal coliform bacteria concentration.

### Groundwater Quality

| <u>Well #</u> | <u>Class</u> | <u>Aquifer</u> | <u>Location</u> |
|---------------|--------------|----------------|-----------------|
| AMB-052       | GB           | PEE DEE        | EUTAW SPRINGS   |

All water samples collected from ambient monitoring well *AMB-052* met standards for Class GB groundwater.

## **NPDES Permitted Activities**

### ***Active NPDES Facilities***

***RECEIVING STREAM  
FACILITY NAME***

***NPDES#  
TYPE***

SANDY RUN TRIBUTARY  
MARTIN MARIETTA/ORANGEBURG

SCG730268  
MINOR INDUSTRIAL

SANDY RUN TRIBUTARY  
MARTIN MARIETTA/BERKELEY QUARRY

SCG730058  
MINOR INDUSTRIAL

## **Nonpoint Source Permitted Activities**

### ***Mining Activities***

***MINING COMPANY  
MINE NAME***

***PERMIT #  
MINERAL***

MARTIN MARIETTA AGGREGATES  
BERKELEY QUARRY

0098-15  
LIMESTONE

MARTIN MARIETTA AGGREGATES  
ORANGEBURG QUARRY

0802-75  
LIMESTONE

## **Growth Potential**

There is a low potential for growth in this watershed, which contains portions of the City of Holly Hill and the Town of Eutawville. A rail line and SC 453 run from Holly Hill to Eutawville. This road is bisected by US 176 in Holly Hill. This watershed lies mostly outside of BCD COG region. In the Berkeley County section, only about 200 residential units are estimated to be built between 2010 and 2035.

# Dean Swamp Watershed (03050205-02)

