

**03050207-09**  
**(Horseshoe Creek)**

**General Description**

Watershed 03050207-09 (formerly 03050208-030) is located in Colleton County and consists primarily of *Horseshoe Creek* and its tributaries. The watershed occupies 82,333 acres of the Lower Coastal Plain and Coastal Plain regions of South Carolina. Land use/land cover in the watershed includes: 46.5% forested land, 34.0% forested wetland, 11.8% agricultural land, 5.0% urban land, 2.2% nonforested wetland, 0.4% water, and 0.1% barren land. A map depicting this watershed is found in Appendix B, page B-23.

Fuller Swamp Creek and Chessey Creek (Logging Savanna, Oats Hole, Warrens Savanna) join to form Horseshoe Lead Creek, which in turn merges with Baptist Church Branch to form Horseshoe Creek near the Town of Cottageville. Shereau Branch and Sandy Dam Branch join to form another Chessey Creek (Pringle Creek), which flows into Horseshoe Creek at the base of the watershed. There are a total of 214.6 stream miles and 205.5 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>
CSTL-580	BIO	FW	CHESSEY CREEK AT S-15-45
CSTL-071	INT	FW	HORSESHOE CREEK AT SC 64

*Chessey Creek (CSTL-580)* – Aquatic life uses are fully supported based on macroinvertebrate community data.

*Horseshoe Creek (CSTL-071)* – Aquatic life uses are not supported due to occurrences of zinc in excess of the aquatic life chronic criterion. This is a blackwater system, characterized by naturally low pH and dissolved oxygen conditions. Although pH and dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. A significant decreasing trend in turbidity suggests improving conditions for this parameter. Recreational uses are partially supported due to fecal coliform bacteria excursions.

*A fish consumption advisory has been issued by the Department for mercury and includes Chessey Creek and Horseshoe Creek within this watershed (see advisory p.54).*

**NPDES Program**

**Active NPDES Facilities**

<i>RECEIVING STREAM FACILITY NAME</i>	<i>NPDES# TYPE</i>
LOGGING SAVANNA TRIBUTARY CAROLINA CLEARING/CLYDEVILLE PIT	SCG730680 MINOR INDUSTRIAL

SHEREAU BRANCH  
SMITHS BACKHOE SVC/SMITH PIT

SCG730626  
MINOR INDUSTRIAL

HORSESHOE CREEK  
BONNIE DOONE PLANTATION

SC0048305  
MINOR DOMESTIC

## Nonpoint Source Management Program

### *Land Disposal Activities*

#### **Landfill Facilities**

*LANDFILL NAME*  
*FACILITY TYPE*

*PERMIT #*  
*STATUS*

COLLETON COUNTY C&D LANDFILL  
C & D

151001-1201  
ACTIVE

### *Mining Activities*

*MINING COMPANY*  
*MINE NAME*

*PERMIT #*  
*MINERAL*

TUTEN ENTERPRISES LLC                      1782-29  
VAUGHN MINE                      SAND

CAROLINA CLEARING & CONSTRUCTION                      1580-29  
CLYDEVILLE PIT                      SAND

WOOD BROTHERS CONSTRUCTION, INC.                      1587-29  
BROOKS PIT                      SAND

SMITHS BACKHOE SERVICES, INC.                      1060-29  
SMITH PIT                      SAND/CLAY

## Growth Potential

There is a moderate potential for growth in this watershed, which contains the Town of Cottageville and a portion of the City of Walterboro. Existing rail lines, the new Colleton County Commerce Park outside of Walterboro, and the city's proximity to I-95 make industrial growth a possibility in this portion of the watershed. Cottageville is projected to continue experiencing residential and commercial growth, spilling over from the City of Summerville. However, the current and proposed growth lies in areas with inadequate sewer service. Less than 25% of the total land area is suitable for septic system installations; and another 25-50% or less is classified as marginally suitable.

# Horseshoe Creek/ Ashepoo River/ St. Helena Sound Watersheds

(03050207-09, -10)

