

**03040201-11**  
*(Catfish Creek)*

**General Description**

Watershed 03040201-11 is located in Dillon and Marion Counties and consists primarily of *Catfish Creek* and its tributaries. The watershed occupies 111,405 acres of the Upper and Lower Coastal Plain regions of South Carolina. Land use/land cover in the watershed includes: 42.5% forested wetland, 27.4% agricultural land, 20.8% forested land, 6.9% urban land, 2.0% nonforested wetland, 0.3% water, and 0.1% barren land.

Catfish Canal receives drainage from Stackhouse Creek (Boggy Branch) and flows through Catfish Swamp near the City of Marion. Collins Creek accepts drainage from Smith Swamp (Grassy Bay, Rabbit Bay, Tenmile Bay, Little Horsepen Bay, Big Horsepen Bay, Middle Bay, Wolfpit Bay) and joins Catfish Canal to form the headwaters of Catfish Creek. Catfish Creek then accepts drainage from Flat Swamp, Pitch Pot Swamp (Millrace Stream, Keedley Swamp, Wiggins Swamp), Mink Creek, and Beverly Swamp. The Catfish Creek Watershed drains into the Great Pee Dee River. There are a total of 150.2 stream miles and 67.1 acres of lake waters in this watershed. Catfish Creek and Smith Swamp are classified FW\* (dissolved oxygen not less than 4.0 mg/l and pH between 5.0 and 8.5) 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-320	S/W	FW*	SMITH SWAMP AT S-34-19 1 MI E OF MARION
PD-187	P/W	FW*	SMITH SWAMP AT US 501 1.9 MI SSE OF MARION
PD-097	S/INT	FW*	CATFISH CREEK AT S-34-34 6 MI SW OF MARION

**Smith Swamp** – There are two SCDHEC monitoring sites along Smith Swamp. At the upstream site (**PD-320**), aquatic life uses are partially supported due to dissolved oxygen excursions. Recreational uses are partially supported due to fecal coliform bacteria excursions. At the downstream site (**PD-187**), aquatic life uses are not supported due to dissolved oxygen excursions. In addition, there is a significant increasing trend in five-day biological oxygen demand. There is a significant decreasing trend in pH. Recreational uses are fully supported and a significant decreasing trend in fecal coliform bacteria concentration suggests improving conditions for this parameter.

**Catfish Creek (PD-097)** – Aquatic life uses are not supported due to dissolved oxygen excursions. There is a significant decreasing trend in pH. Significant decreasing trends in five-day biological oxygen demand and total phosphorus concentration suggest improving conditions for these parameters. Recreational uses are partially supported due to fecal coliform excursions. In addition, there is a significant increasing trend in fecal coliform bacteria.

## NPDES Program

### *Active NPDES Facilities*

*RECEIVING STREAM  
FACILITY NAME*

*NPDES#  
TYPE*

CATFISH CANAL  
TRICO WATER CO./FRED HYATT WTP

SCG646039  
MINOR DOMESTIC

BOGGY BRANCH  
WEAVER CO./BAXLEY PIT

SCG730559  
MINOR INDUSTRIAL

SMITH SWAMP TRIBUTARY  
ARVIN AVM INC.

SCG250108  
MINOR INDUSTRIAL

## Nonpoint Source Management Program

### *Land Disposal Activities*

#### **Landfill Facilities**

*LANDFILL NAME  
FACILITY TYPE*

*PERMIT #  
STATUS*

CITY OF MARION DUMP  
MUNICIPAL

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CLOSED

CITY OF MARION C&D LANDFILL  
CONSTRUCTION

341003-1201  
ACTIVE

CITY OF MARION  
COMPOSTING

341003-3001  
ACTIVE

TOWN OF LATTA  
COMPOSTING

171002-3001  
ACTIVE

TOWN OF PEE DEE #2  
MUNICIPAL

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INACTIVE

## Groundwater Quantity

Portions of this watershed fall within the Pee Dee Capacity Use Area and large groundwater uses must be reported (see Capacity Use Program p.22).

## Growth Potential

There is a low to moderate potential for growth in this watershed, which contains the City of Marion and is adjacent to the Town of Latta. Commercial development is limited to Marion and portions of U.S. Hwy 76, particularly east of Marion at the U.S. Hwy 501 Bypass. Industrial development occurs along U.S. 76 and the U.S 501 Bypass near Marion. This watershed also contains the Marion Industrial Park and the Latta Industrial Park. U.S. 76 and the U.S. 501 Bypass are four-lane major highways that serve as major access corridors to the Grand Strand and will increase in traffic and development. Water service is provided from the City of Marion and the Marion County Rural Water Company and covers most of the watershed. Sewer service is available to the areas in and around the City of Marion and the Town of Latta.










## **Watershed Restoration and Protection**

### ***Total Maximum Daily Loads (TMDLs)***

A TMDL was developed by SCDHEC and approved by EPA for *Smith Swamp* water quality monitoring sites *PD-187* and *PD-320* to determine the maximum amount of fecal coliform bacteria they can receive and still meet water quality standards. Fecal coliform sources typical of urban areas are expected and include human sources of fecal coliform such as leaking sewers, SSOs, and failing septic systems. Non-human sources such as swine, wildlife, and pets are expected to be low to moderate in this watershed. The TMDL states that a 66% reduction in fecal coliform loading at PD-187 and a 68% reduction at PD-320 is necessary for the stream to meet the water quality standard.

# Catfish Creek Watershed

(03040201-11)

-  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

- 1 Beverly Swamp
- 2 Tenmile Bay
- 3 Ellerbe Bay
- 4 Gum Swamp Bay
- 5 Big Horsepen Bay
- 6 Little Horsepen Bay
- 7 Middle Bay
- 8 Big Sister Bay

