

03050109-09

(Little River)

General Description

Watershed 03050109-09 (formerly 03050109-160) is located in Laurens and Newberry Counties and consists primarily of the **Little River** and its tributaries. The watershed occupies 147,150 acres of the Piedmont region of South Carolina. Land use/land cover in the watershed includes: 59.7% forested land, 27.6% agricultural land, 8.2% urban land, 3.0% forested wetland (swamp), 1.1% barren land, and 0.4% water.

The Little River accepts drainage from Reedy Fork in the City of Laurens and Burnt Mill Creek (Scout Branch) enters the river further downstream. North Creek, Beaverdam Creek, and Simmons Creek drain into the Little River next followed by Garrison Creek (Quaker Creek), Sandy Run Creek (Reeder Branch), Mechanic Creek, Mudlick Creek (Campbell Creek, North Campbell Creek, Mill Creek, Watkins Creek, Mills Creek, Pages Creek), Davenport Branch, Stephens Creek, and Turners Branch. There are a total of 501.6 stream miles and 459.9 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>
S-034	W	FW	LITTLE RIVER AT U.S. BUS 76, IN LAURENS ABOVE WWTP
S-297	W	FW	LITTLE RIVER AT S.C. ROUTE 127
S-135	W	FW	NORTH CREEK AT U.S. 76, 2.8 MILES W OF CLINTON
RS-05400	RS05	FW	BEAVERDAM CREEK AT S-30-341, 7.0 MI S OF LAURENS
S-099	SPRP	FW	LITTLE RIVER AT S-36-22, 8.3 MILES NW OF SILVERSTREET
S-100	BIO	FW	LITTLE RIVER AT SR 48
RS-04526	RS04/BIO	FW	MUDLICK CREEK BETW SC 56 & S-36-65, 9.0 MI NW OF SILVERSTREET

Little River – There are four SCDHEC monitoring stations along the Little River. At the furthest upstream site (**S-034**), aquatic life and recreational uses are fully supported, and a significant decreasing trend in total nitrogen concentration suggests improving conditions for this parameter. Moving downstream (**S-297**), aquatic life uses are again fully supported, but recreational uses are partially supported due to fecal coliform bacteria excursions. At the next downstream site (**S-099**), aquatic life uses are fully supported; however, there is a significant increasing trend in five-day biochemical oxygen demand. Recreational uses are partially supported due to fecal coliform bacteria excursions. At the furthest downstream site (**S-100**), aquatic life uses are fully supported based on macroinvertebrate community data.

North Creek (S-135) – Aquatic life uses are fully supported; however, there is a significant increasing trend in five-day biochemical oxygen demand. Recreational uses are not supported due to fecal coliform bacteria excursions.

Beaverdam Creek (RS-05400) – Aquatic life uses are fully supported. Recreational uses are not supported due to fecal coliform bacteria excursions.

Mudlick Creek (RS-04526) – Aquatic life uses are fully supported based on macroinvertebrate community data. Recreational uses are partially supported due to fecal coliform bacteria excursions.

NPDES Permitted Activities

Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME</i>	<i>NPDES# TYPE</i>
LITTLE RIVER COMM. OF PUBLIC WORKS/LAURENS	SC0020702 MAJOR DOMESTIC
LITTLE RIVER WR GRACE & CO./HUDGENS MINE	SCG730030 MINOR INDUSTRIAL
LITTLE RIVER EAGLE CONSTRUCTION/ROBERT PARKER MINE	SCG731101 MINOR INDUSTRIAL
DITCH TO LITTLE RIVER INTERNATIONAL PAPER/SILVERSTREET	SC0022730 MINOR INDUSTRIAL
REEDY FORK CITY OF LAURENS WTP	SCG645006 MINOR DOMESTIC
NORTH CREEK INGERSOLL RAND CO./GW RECOVERY SYS.	SC0048534 MINOR INDUSTRIAL
NORTH CAMPBELL CREEK CAROLINA VERMICULITE/HANNA MINE	SCG730067 MINOR INDUSTRIAL
NORTH CAMPBELL CREEK CAROLINA VERMICULITE/VERNES MINE	SCG730149 MINOR INDUSTRIAL
BURNT MILL CREEK TRIBUTARY CAROLINA VERMICULITE/PATTERSON MINE	SCG730148 MINOR INDUSTRIAL
LITTLE RIVER TRIBUTARY MILLIKEN & CO./GILLILAND PLANT	SCG250274 MINOR INDUSTRIAL

Nonpoint Source Permitted Activities

Land Disposal Activities

Landfill Facilities

<i>LANDFILL NAME FACILITY TYPE</i>	<i>PERMIT # STATUS</i>
TECHNICAL CERAMIC PRODUCTS INDUSTRIAL	----- INACTIVE
LAURENS COUNTY SANITARY LANDFILL MUNICIPAL	301001-1101 INACTIVE
LAURENS COUNTY SANITARY LANDFILL MSW	----- INACTIVE
LAURENS COUNTY C&D LANDFILL C&D	301001-1201 ACTIVE

LAURENS COUNTY COMPOSTING FACILITY COMPOSTING	301001-3001 ACTIVE
CITY OF LAURENS DUMP #1 MUNICIPAL	----- INACTIVE
CITY OF LAURENS DUMP #2 MUNICIPAL	----- INACTIVE
HR GARRETT/MICHAELA ST LCD & YT LANDFILL C&D	302458-1701 INACTIVE
HR GARRETT/LISBON RD LCD & YT LANDFILL C&D	302458-1702 INACTIVE
HR GARRETT/LISBON RD LCD & YT LANDFILL #2 C&D	302458-1703 ACTIVE
HR GARRETT/HARRIS ROAD LCD & YT LANDFILL C&D	302458-1704 INACTIVE

Land Applications

*LAND APPLICATION
FACILITY NAME*

*PERMIT #
TYPE*

SPRAYFIELD
ISE NEWBERRY, INC.

ND0078158
INDUSTRIAL

Mining Activities

*MINING COMPANY
MINE NAME*

*PERMIT #
MINERAL*

WR GRACE & CO.
HUDGENS MINE

0749-59
VERMICULITE

WR GRACE & CO.
LEONARD MINE

0835-59
VERMICULITE

WR GRACE & CO.
CUNNINGHAM

1226-59
VERMICULITE

CAROLINA VERMICULITE COMPANY, INC.
KENNETH HANNA MINE

0642-59
VERMICULITE

CAROLINA VERMICULITE COMPANY, INC.
PATTERSON MINE

1130-59
VERMICULITE

CAROLINA VERMICULITE COMPANY, INC.
VERENES MINE

1111-59
VERMICULITE

SOUTHERN BRICK COMPANY
SPIGNER MINE

0828-71
CLAY

Water Quantity

*WATER USER
STREAM*

*REGULATED CAPACITY (MGD)
PUMPING CAPACITY (MGD)*

CITY OF LAURENS CPW
REEDY FORK

1.5
3.5

Growth Potential

This watershed contains most of the City of Laurens and portions of the communities of Watts Mill and Mountville, and the Towns of Crosshill and Silverstreet. The City of Laurens is located in the northern portion of this watershed and has a high potential for growth. Factors that influence this growth include two major rail lines, US 221, US 76, and I-385. The Laurens County Industrial Park is a growth area in the predominately rural southern portion of the watershed. A large plastics plant has built in the watershed, near Clinton off SC 72, and should add to the industrial growth in the area. There currently is not much growth potential for the area around Silverstreet in Newberry County.

Watershed Protection and Restoration Strategies

Total Maximum Daily Loads (TMDLs)

TMDLs were developed for SCDHEC and approved by EPA for the **Little River** and its tributary **North Creek** at water quality monitoring sites S-034, S-038, S-099, S-135, S-297, and S-305. TMDLs determine the maximum amount of fecal coliform bacteria waterbodies can receive and still meet water quality standards. There was one NPDES facilities permitted to discharge fecal coliform bacteria in the Little River watershed. Much of the watershed has been designated as part of one or more small MS4s. Possible sources of fecal coliform bacteria in this watershed are failing septic systems, agricultural runoff, cattle-in-streams, and urban runoff. The TMDLs require reductions of 39% to 78% in fecal coliform loading for these streams to meet the recreational use standard.

Little River Watershed (03050109-09)

