03050112-020

(Rediversion Canal)

General Description

Watershed 03050112-020 extends through Berkeley County and consists primarily of the ***Rediversion Canal (Crawl Creek)*** and its tributaries. The watershed occupies 23,426 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Chastain-Tawcaw-Pantego-Noboco-Bonneau series. The erodibility of the soil (K) averages 0.15 and the slope of the terrain averages 2%, with a range of 0-6%. Land use/land cover in the watershed includes: 37.3% forested land, 18.9% scrub/shrub land, 17.0% agricultural land, 12.9% forested wetland, 5.8% water, 4.3% barren land, and 3.8% urban land.

The 11.5 mile Rediversion Canal connects Lake Moultrie with the lower Santee River near the Town of St. Stephen. Mattassee Lake accepts drainage from Crawl Creek (Lifeland Branch, Big Bay Branch) and Curriboo Branch before entering the Rediversion Canal. Also draining into the canal are Ponteaux Branch and Mattassee Branch. There are a total of 36.4 stream miles and 10.7 acres of lake waters in this watershed, all classified FW. An additional natural resource is the Francis Marion National Forest, which extends over the base of the watershed.

Surface Water Quality

Station #	Type	Class	Description
SC-037	SC	FW	REDIVERSION CANAL AT SC 45 BRIDGE
ST-031/SC-037A	P/INT/SC	FW	REDIVERSION CANAL AT US 52

Rediversion Canal – There are two monitoring sites (SCPSA, SCDHEC) along the Rediversion Canal. Aquatic life and recreational uses are fully supported at the upstream site ***(SC-037)***. Aquatic life uses are also fully supported at the downstream site ***(ST-031/SC-037A)***, and significant decreasing trends in five-day biochemical oxygen demand and total nitrogen concentration suggest improving conditions for these parameters. There is a significant increasing trend in pH. Recreational uses are fully supported at this site and a significant decreasing trend in fecal coliform bacteria concentration suggests improving conditions for this parameter.

A fish consumption advisory has been issued by the Department for mercury and includes the Rediversion Canal within this watershed (see advisory p.39).

Groundwater Quality

Well #	Class	Aquifer	Location
AMB-021	GB	BLACK CREEK/MIDDENDORF	ST. STEPHEN

NPDES Program

Active NPDES Facilities

RECEIVING STREAM *FACILITY NAME* *PERMITTED FLOW @ PIPE (MGD)*	*NPDES#* *TYPE* *COMMENT*
REDIVERSION CANAL US ARMY/ST. STEPHEN POWER PLANT PIPE #: 001 FLOW: M/R	SC0047937 MINOR INDUSTRIAL
REDIVERSION CANAL GA PACIFIC RESINS/RUSSELVILLE/CHEM PIPE #: 001 FLOW: M/R	SCG250181 MINOR INDUSTRIAL
REDIVERSION CANAL GA PACIFIC CORP./RUSSELVILLE/PARTICLE PIPE #: 01A, 01B FLOW: M/R	SCG250179 MINOR INDUSTRIAL
CURRIBOO BRANCH ALBANY INTNL/PRESS FABRIC PIPE #: 001-003 FLOW: M/R	SC0002569 MINOR INDUSTRIAL

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME *FACILITY TYPE*	*PERMIT #* *STATUS*
GA PACIFIC CORP. CHEM. INDUSTRIAL	083304-1601 (IWP-078, CWP-026) ACTIVE

Mining Activities

MINING COMPANY *MINE NAME*	*PERMIT #* *MINERAL*
DAVID & RALPH WOODWARD OLD FIELD MINE	0929-15 SAND/CLAY

Growth Potential

There is a low to moderate potential for growth in this watershed, which contains the Town of St. Stephen and portions of the communities of Pineville and Russellville. The Town of St. Stephen has both water and sewer services available, which may aid in attracting development to the area. Another source of potential growth is U.S. Hwy. 52, which is scheduled to be widened to four lanes.

Santee River and Rediversion Canal Watersheds

(03050112-010, 020)