

## 03060101-07

(Deep Creek/Lake Hartwell)

### General Description

Watershed 03060101-07 (formerly 03060101-100 plus Six and Twenty Creek from -040) is located in Pickens and Anderson Counties and consists primarily of *Six and Twenty Creek* and *Three and Twenty Creek*, which form *Deep Creek* as an arm of *Lake Hartwell*. The watershed occupies 105,765 acres of the Piedmont region of South Carolina. Land use/land cover in the watershed includes: 40.5% agricultural land, 38.0% forested land, 15.8% urban land, 4.0% water, 1.0% forested wetland (swamp), and 0.7% barren land. A map depicting this watershed is found in Appendix A, page A-38.

Three and Twenty Creek originates near the City of Easley and accepts drainage from Charles Creek, Carmel Creek, Pickens Creek, Double Branch, Cuffie Creek, Big Garvin Creek (Bishop Branch, Little Garvin Creek), Town Creek, and Millwee Creek. Six and Twenty Creek accepts drainage from Jones Creek, Town Creek, Hembree Creek, Hurricane Creek, Steel Creek, Salem Creek, and Prichards Branch before merging with Three and Twenty Creek to form Deep Creek, which flows into the Seneca River (within Lake Hartwell). There are a total of 345.6 stream miles and 4,282.2 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-03506         | RS03/BIO    | FW           | CHARLES CREEK AT UNNUMBERED RIDGE ROAD OFF S-04-485     |
| SV-735           | BIO         | FW           | THREE AND TWENTY CREEK AT S-04-29                       |
| SV-111           | INT         | FW           | THREE AND TWENTY CREEK AT S-04-280                      |
| SV-180           | BIO         | FW           | SIX AND TWENTY CREEK AT S-04-174                        |
| SV-181           | W           | FW           | SIX AND TWENTY CREEK AT S-04-29, 8.2 MI SE OF PENDLETON |

*Charles Creek (RS-03506)* - Aquatic life uses are partially supported based on macroinvertebrate community data. Recreational uses are partially supported due to fecal coliform bacteria excursions.

*Three and Twenty Creek* - There are two SCDHEC monitoring stations along Three and Twenty Creek. At the upstream site (*SV-735*), aquatic life uses are partially supported based on macroinvertebrate community data. At the downstream site (*SV-111*), aquatic life uses are fully supported; however, there is a significant increasing trend in five-day biochemical oxygen demand. Significant decreasing trends in turbidity and total phosphorus concentration suggest improving conditions for these parameters. Recreational uses are not supported due to fecal coliform bacteria excursions.

*Six and Twenty Creek* - There are two SCDHEC monitoring stations along Six and Twenty Creek. At the upstream site (*SV-180*), aquatic life uses are fully supported based on

macroinvertebrate community data. At the downstream site (*SV-181*), aquatic life and recreational uses are fully supported.

*A fish consumption advisory has been issued by the Department for PCBs (Polychlorinated biphenols) and includes the impounded area (Lake Hartwell) of Six and Twenty Creek within this watershed (see advisory p. 38).*

### ***Natural Swimming Areas***

| <b><i>FACILITY NAME</i></b>    | <b><i>PERMIT #</i></b> |
|--------------------------------|------------------------|
| <b><i>RECEIVING STREAM</i></b> | <b><i>STATUS</i></b>   |
| DARWIN WRIGHT                  | 04-N09                 |
| SIX AND TWENTY CREEK           | ACTIVE                 |

### **NPDES Program**

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

| <b><i>RECEIVING STREAM</i></b>                                   | <b><i>NPDES#</i></b>          |
|--|-------------------------------|
| <b><i>FACILITY NAME</i></b>                                      | <b><i>TYPE</i></b>            |
| THREE AND TWENTY CREEK<br>MT. VERNON MILLS/LAFRANCE              | SC0000485<br>MAJOR INDUSTRIAL |
| THREE AND TWENTY CREEK<br>MICHELIN N AMERICA/SANDY SPRINGS       | SC0026701<br>MAJOR INDUSTRIAL |
| THREE AND TWENTY CREEK TRIBUTARY<br>SAUR DANFOSS                 | SCG250203<br>MINOR INDUSTRIAL |
| MILLWEE CREEK TRIBUTARY<br>BILL SANDERS/SANDERS MINE             | SCG731045<br>MINOR INDUSTRIAL |
| SIX AND TWENTY CREEK<br>ANDERSON CO. WASTEWATER MANAGEMENT       | SC0040193<br>MINOR DOMESTIC   |
| SIX AND TWENTY CREEK TRIBUTARY<br>ODELL OIL CO. INC./US 178 MINE | SCG731040<br>MINOR INDUSTRIAL |
| SIX AND TWENTY CREEK TRIBUTARY<br>ROBERT BOSCH CORP.             | SCG250184<br>MINOR INDUSTRIAL |
| LAKE HARTWELL<br>JACABB UTILITIES LLC/ SHOALS WWTF               | SC0021873<br>MINOR DOMESTIC   |
| LAKE HARTWELL<br>HARBOR GATE CONDOMINIUMS                        | SC0021849<br>MINOR DOMESTIC   |

***Municipal Separate Storm Sewer Systems (MS4)***

| <i>RECEIVING STREAM</i> | <i>MUNICIPALITY</i>  | <i>RESPONSIBLE PARTY</i> | <i>IMPLEMENTING PARTY</i> | <i>NPDES#</i> | <i>MS4 PHASE</i> | <i>MS4 SIZE</i> |
|-------------------------|----------------------|--------------------------|---------------------------|---------------|------------------|-----------------|
| THREE AND TWENTY CREEK  | CITY OF ANDERSON     | CITY OF ANDERSON         | CITY OF ANDERSON          | SCR030701     | PHASE II         | SMALL MS4       |
| THREE AND TWENTY CREEK  | UNINCORPORATED AREAS | ANDERSON COUNTY          | ANDERSON COUNTY           | SCR030702     | PHASE II         | SMALL MS4       |
| THREE AND TWENTY CREEK  | CITY OF EASLEY       | CITY OF EASLEY           | CITY OF EASLEY            | SCR037701     | PHASE II         | SMALL MS4       |
| THREE AND TWENTY CREEK  | UNINCORPORATED AREAS | PICKENS COUNTY           | PICKENS COUNTY            | SCR037704     | PHASE II         | SMALL MS4       |

**Nonpoint Source Management Program**

***Land Disposal Activities***

**Landfill Facilities**

| <i>LANDFILL NAME</i>                       | <i>FACILITY TYPE</i> | <i>PERMIT #</i> | <i>STATUS</i> |
|--|----------------------|-----------------|---------------|
| GERBER CHILDRENSWEAR LANDFILL              | INDUSTRIAL           | 232408-1301     | INACTIVE      |
| MARTIN GRADING & SAND CO.                  | C & D                | 392900-1303     | INACTIVE      |
| MARTIN GRADING LAND C&D LANDFILL           | C & D                | 392600-1701     | ACTIVE        |
| MARTIN GRADING LAND C&D LANDFILL           | C & D                | 392600-1702     | INACTIVE      |
| GREENPOINTE C&D                            | C & D                | PROPOSED        | -----         |
| WEDGEWOOD LC&D                             | C & D                | 042485-1701     | INACTIVE      |
| BAD SHORT TERM C&D LANDFILL                | C & D                | 042902-1301     | INACTIVE      |
| BOBBY & DANNY C&D LANDFILL                 | C & D                | 042696-1201     | INACTIVE      |
| MCCLELLION/MEECHAN SHORT TERM C&D LANDFILL | C & D                | 042477-1301     | INACTIVE      |

## Mining Activities

*MINING COMPANY*  
*MINE NAME*

*PERMIT #*  
*MINERAL*

BILL SANDERS  
SANDERS MINE

1622-09  
SAND

## Water Quantity

*WATER USER*  
*STREAM*

*TOTAL PUMP. CAP (MGD)*  
*RATED PUMP CAP (MGD)*

ANDERSON REGIONAL  
SIX AND TWENTY CREEK

66.0  
49.5

## Growth Potential

There is a moderate potential for growth in this watershed, which contains portions of the Towns of Pendleton and La France. The area between the City of Anderson and Pendleton, including the Town of La France, along US 76, is predicted to grow significantly.

## Watershed Protection and Restoration Strategies

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

A TMDL was developed for SCDHEC and approved by EPA for **Three and Twenty Creek** at water quality monitoring site SV-111. TMDLs determine the maximum amount of fecal coliform bacteria a stream can receive and still meet water quality standards. There were two permitted NPDES facilities located on Three and Twenty Creek. Two small areas in the upper Three and Twenty Creek watershed have been designated as small MS4s. Probable sources of fecal coliform bacteria that were identified in the watershed are grazing livestock, especially cattle watering in creeks, failing septic systems, and wildlife. The TMDL states that a reduction of 55% in fecal coliform loading is necessary for this stream to meet the recreational use standard.

# Deep Creek/Lake Hartwell Watershed (03060101-07)

- |                                     |                             |
|-------------------------------------|-----------------------------|
| ▽ Macroinvertebrate Stations        | ≡ Interstates               |
| ▽ Water Quality Monitoring Stations | ≡ Railroad Lines            |
| ▽ Approved TMDL                     | ≡ Highways                  |
| ▲ Groundwater Monitoring Stations   | ≡ County Lines              |
| ▼ Special Study Stations            | ≡ Modeled Stream            |
| ⚡ Mines                             | ≡ Stream                    |
| 🗑️ Landfills                        | ≡ Wetland                   |
| ● NPDES Permits                     | ≡ Lake                      |
| ♦ Land Application Permits          | ≡ 10-Digit Hydrologic Units |
| 🏊 Natural Swimming Areas            | ≡ Cities/Towns              |
|                                     | ≡ Public Lands              |

