

R-4045

Summary of Wetlands and Streams in the Study Area

Water resources in the study area are part of the Broad River basin [U.S. Geological Survey (USGS) Hydrologic Unit [03050105]]. Eight streams were identified in the study area (Table 1). The location of each stream is shown in the Environmental Features Map.

Table 1. Streams in study area

| Stream Name | Map ID | NCDWR Index Number | Best Usage Classification | Bank Height (ft) | Bankfull width (ft) | Depth (in) |
|-----------------------|-----------------|--------------------|---------------------------|------------------|---------------------|------------|
| UT to Sandy Run Creek | SA | 9-46 | C | 3-4 | 10 | 12-24 |
| UT to Sandy Run Creek | SB | 9-46 | C | 3 | 8 | 6-12 |
| UT to Sandy Run Creek | SC | 9-46 | C | 1-3 | 4-6 | 2-6 |
| UT to Sandy Run Creek | SD | 9-46 | C | 2 | 4 | 4 |
| UT to Sandy Run Creek | SE | 9-46 | C | 3-5 | 3-4 | 3-12 |
| UT Sandy Run Creek | SF | 9-46 | C | 2 | 2-3 | 2-3 |
| UT Sandy Run Creek | SG | 9-46 | C | 1-3 | 4 | 3-6 |
| Sandy Run Creek | Sandy Run Creek | 9-46 | C | 4-6 | 30-50 | 18-48 |

There are no Outstanding Resource Water (ORW), designated High Quality Waters (HQW), or water supply watersheds (WS-I or WS-II) within 1.0 mile of the study area. The North Carolina 2018 Final 303(d) list does not identify any impaired streams within 1.0 mile of the study area.

Eight potential jurisdictional streams were identified in the study area (Table 2). All potential jurisdictional streams in the study area have been designated as warm water streams for the purposes of stream mitigation.

Table 2. Characteristics of potential jurisdictional streams in the study area

| Map ID | Length (ft.) | Classification | Compensatory Mitigation Required | River Basin Buffer | Figure Number |
|--------------|--------------|----------------|----------------------------------|--------------------|---------------|
| SA | 639 | Perennial | Yes | No | 3-2 |
| SB | 3523 | Perennial | Yes | No | 3-1 |
| SC | 584 | Perennial | Yes | No | 3-1 |
| SC (Int) | 1348 | Intermittent | Yes | No | 3-1 |
| SD | 423 | Perennial | Yes | No | 3-1 |
| SD (Int) | 169 | Intermittent | Yes | No | 3-1 |
| SE | 303 | Perennial | Yes | No | 3-1 |
| SF | 68 | Perennial | Yes | No | 3-1 |
| SG | 103 | Perennial | Yes | No | 3-1 |
| SG (Int) | 306 | Intermittent | Yes | No | 3-1 |
| Sandy Run | 1192 | Perennial | Yes | No | 3-2 |
| Total | 8,658 | | | | |

* NCSAM forms are available in the PJD package

Six potential jurisdictional wetlands were identified within the study area (Table 3). All wetlands in the study area are located within the Broad basin [USGS Hydrologic Unit [03050105]]. USACE wetland determination forms and NCWAM forms for each site are included in a separate Preliminary Jurisdictional Determination Package.

Table 3. Characteristics of potential jurisdictional wetlands in the study area

| Map ID | NCWAM Classification | NCWAM Rating | Hydrologic Classification | Area (ac.) in Study Area | Figure Number |
|--------|----------------------------|--------------|---------------------------|--------------------------|---------------|
| WB | Floodplain pool | High | Riparian | 0.01 | 3-1 |
| WC | Floodplain pool | High | Riparian | 0.13 | 3-1 |
| WD | Headwater forest | Low | Riparian | 0.30 | 3-2 |
| WE | Seep | Med | Non-Riparian | 0.32 | 3-1 |
| WF | Seep | Low | Non-Riparian | 0.02 | 3-1 |
| WG | Bottomland hardwood forest | Low | Riparian | 0.02 | 3-1 |
| | | | Total | 0.80 | |