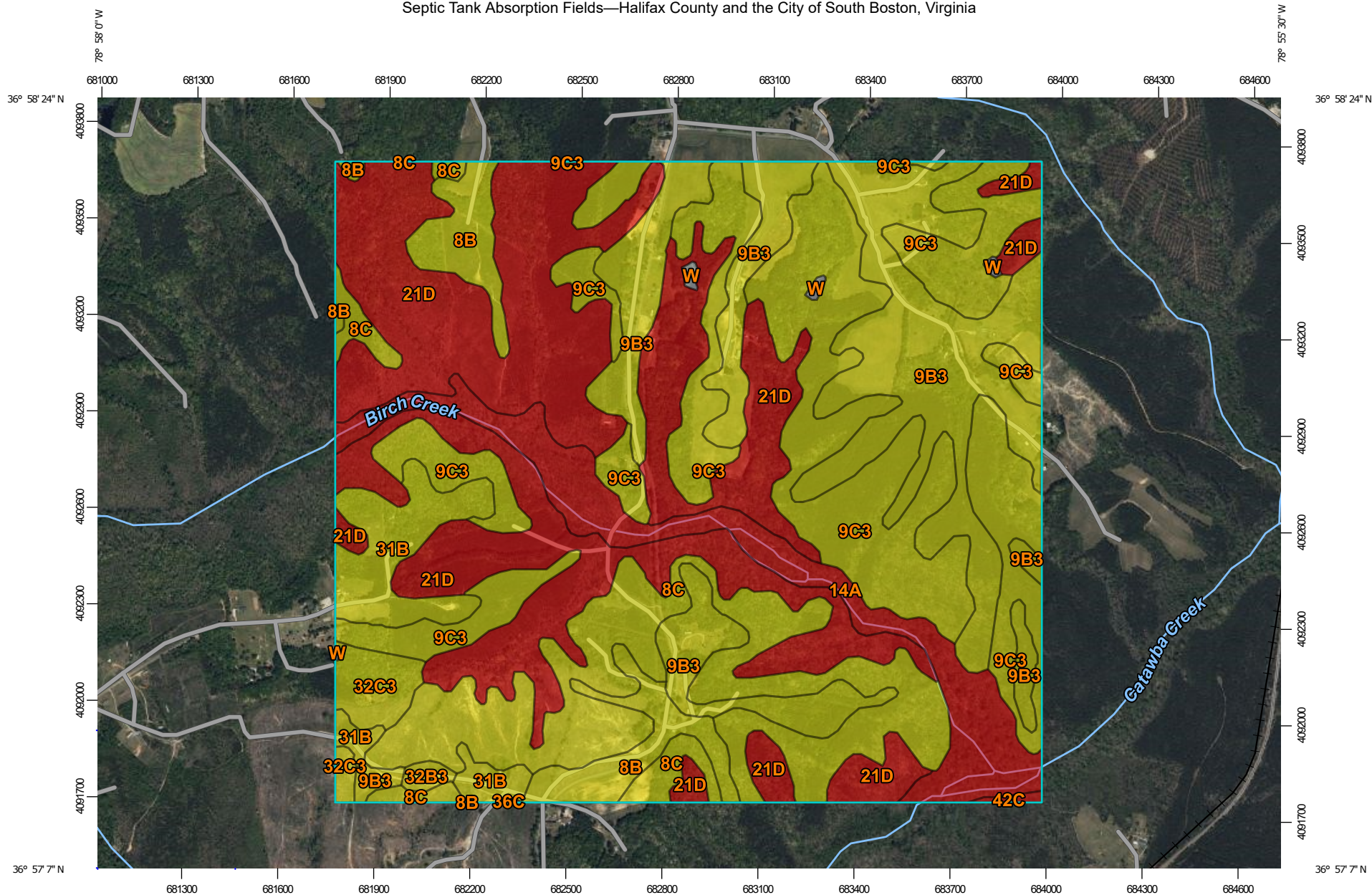


# Septic Tank Absorption Fields—Halifax County and the City of South Boston, Virginia



Map Scale: 1:16,900 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84



**Natural Resources  
Conservation Service**

Web Soil Survey  
National Cooperative Soil Survey

3/8/2024  
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## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Background

 Aerial Photography

### Soils

#### Soil Rating Polygons

 Very limited  
 Somewhat limited  
 Not limited  
 Not rated or not available

#### Soil Rating Lines

 Very limited  
 Somewhat limited  
 Not limited  
 Not rated or not available

#### Soil Rating Points

 Very limited  
 Somewhat limited  
 Not limited  
 Not rated or not available

### Water Features

 Streams and Canals

### Transportation

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
 Local Roads

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Halifax County and the City of South Boston, Virginia

Survey Area Data: Version 22, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 25, 2022—May 20, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Septic Tank Absorption Fields

| Map unit symbol | Map unit name                                                        | Rating           | Component name (percent) | Rating reasons (numeric values) | Acres in AOI | Percent of AOI |
|-----------------|----------------------------------------------------------------------|------------------|--------------------------|---------------------------------|--------------|----------------|
| 8B              | Clifford sandy loam, 2 to 8 percent slopes                           | Somewhat limited | Clifford (93%)           | Slow water movement (0.50)      | 45.1         | 4.1%           |
| 8C              | Clifford sandy loam, 8 to 15 percent slopes                          | Somewhat limited | Clifford (92%)           | Slope (0.63)                    | 142.7        | 13.1%          |
|                 |                                                                      |                  |                          | Slow water movement (0.50)      |              |                |
| 9B3             | Clifford clay loam, 2 to 8 percent slopes, severely eroded           | Somewhat limited | Clifford (90%)           | Slow water movement (0.50)      | 204.6        | 18.8%          |
| 9C3             | Clifford clay loam, 8 to 15 percent slopes, severely eroded          | Somewhat limited | Clifford (90%)           | Slow water movement (0.50)      | 240.9        | 22.1%          |
|                 |                                                                      |                  |                          | Slope (0.16)                    |              |                |
| 14A             | Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded | Very limited     | Codorus (80%)            | Flooding (1.00)                 | 75.0         | 6.9%           |
|                 |                                                                      |                  |                          | Depth to saturated zone (1.00)  |              |                |
|                 |                                                                      |                  |                          | Slow water movement (0.50)      |              |                |
|                 |                                                                      |                  | Hatboro (15%)            | Flooding (1.00)                 |              |                |
|                 |                                                                      |                  |                          | Ponding (1.00)                  |              |                |
|                 |                                                                      |                  |                          | Depth to saturated zone (1.00)  |              |                |
|                 |                                                                      |                  |                          | Slow water movement (0.50)      |              |                |
| 21D             | Fairview sandy loam, 15 to 25 percent slopes                         | Very limited     | Fairview (87%)           | Slope (1.00)                    | 316.7        | 29.0%          |
|                 |                                                                      |                  |                          | Slow water movement (0.50)      |              |                |
| 31B             | Minnieville loam, 2 to 8 percent slopes                              | Somewhat limited | Minnieville (90%)        | Slow water movement (0.50)      | 43.4         | 4.0%           |

| Map unit symbol                    | Map unit name                                                  | Rating           | Component name (percent) | Rating reasons (numeric values) | Acres in AOI   | Percent of AOI |
|------------------------------------|----------------------------------------------------------------|------------------|--------------------------|---------------------------------|----------------|----------------|
| 32B3                               | Minnieville clay loam, 2 to 8 percent slopes, severely eroded  | Somewhat limited | Minnieville (85%)        | Slow water movement (0.50)      | 2.9            | 0.3%           |
| 32C3                               | Minnieville clay loam, 8 to 15 percent slopes, severely eroded | Somewhat limited | Minnieville (85%)        | Slow water movement (0.50)      | 16.4           | 1.5%           |
|                                    |                                                                |                  |                          | Slope (0.16)                    |                |                |
| 36C                                | Nathalie sandy loam, 8 to 15 percent slopes                    | Very limited     | Nathalie (85%)           | Seepage, bottom layer (1.00)    | 0.2            | 0.0%           |
|                                    |                                                                |                  |                          | Slope (0.63)                    |                |                |
|                                    |                                                                |                  |                          | Slow water movement (0.50)      |                |                |
| 42C                                | Spriggs sandy loam, 8 to 15 percent slopes                     | Very limited     | Spriggs (85%)            | Depth to bedrock (1.00)         | 1.2            | 0.1%           |
|                                    |                                                                |                  |                          | Slope (0.63)                    |                |                |
|                                    |                                                                |                  |                          | Slow water movement (0.50)      |                |                |
| W                                  | Water                                                          | Not rated        | Water (100%)             |                                 | 2.1            | 0.2%           |
| <b>Totals for Area of Interest</b> |                                                                |                  |                          |                                 | <b>1,091.2</b> | <b>100.0%</b>  |

| Rating                             | Acres in AOI   | Percent of AOI |
|------------------------------------|----------------|----------------|
| Somewhat limited                   | 696.0          | 63.8%          |
| Very limited                       | 393.1          | 36.0%          |
| Null or Not Rated                  | 2.1            | 0.2%           |
| <b>Totals for Area of Interest</b> | <b>1,091.2</b> | <b>100.0%</b>  |

## Description

### ENG - Engineering

Septic tank absorption fields are areas in which effluent from a septic tank is distributed into the soil through subsurface tiles or perforated pipe. Only that part of the soil between depths of 24 and 60 inches is evaluated. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Saturated hydraulic conductivity (Ksat), depth to a water table, ponding, depth to bedrock or a cemented pan, and flooding affect absorption of the effluent. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

Some soils are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the distribution lines. In these soils the absorption field may not adequately filter the effluent, particularly when the system is new. As a result, the ground water may become contaminated.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to

validate these interpretations and to confirm the identity of the soil on a given site.

## Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* None Specified

*Tie-break Rule:* Higher