# NUTRIBLEND INC CHARLES CITY J Black

				ADJUSTED				
DEQ CONTROL	SITE BOOK	FIELD	GROSS	GROSS	CHANGE		TAX	
NUMBER	NAME	ID	ACRES	ACRES	+/-	LANDOWNER	PARCEL	NOTES
					0.0			
51036-00008-0000	Black	1050-1	20	20.0	0.0	Jon Black	13-38	
51036-00008-0000	Black	1050-2	85	85.0	0.0	Jon Black	13-38	
					0.0			
51036-00056-0000	Black	220-4	12.6	12.6	0.0	John Black	38-90, 38-94	
51036-00056-0000	Black	220-1	31.5	31.5	0.0	John Black	38-94	
51036-00056-0000	Black	220-3	10.6	10.6	0.0	John Black	38-94	
51036-00056-0000	Black	220-2	20	20	0.0	John Black	38-94	
					0.0			
<u>51036-00182-0000</u>	Black	741-1	40.5	0	-40.5		12-37	removed
51036-00183-0000	Black	741-2	56.5	0	-56.5		13-2	removed
<u>51036-00183-0000</u>	Black	741-4	50.5	0	-50.5		13-2	removed
51036-00183-0000	Black	741-3	22.6	0	-22.6		13-2	removed
51036-00186-0000	Black	741-5	74	0	-74.0		13-1	removed
							13-79	removed
<u>51036-00187-0000</u>	Black	741-8	10.4	0	-10.4		13-2	removed
51036-00026-0000	Black	15-1	15	0	-15.0		13-3	removed
51036-00027-0000	Black	15-2	35	0			13-3	removed
01000 00027 0000	Black	10 2	00	J	0.0		100	Terrioved
					0.0			
					0.0			
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					0.0			
					0.0			
	L	TOTALS	484.2	179.7	-304.5		Į.	1

# VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

P	PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS								
A. This land application agreement is made on									
Th ag	Landowner: The Landowner is the owner of record of the real property located in agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.								
	Table 1.: Parcels auth	orized to receive biosolids,	water treatment residuals	s or other industrial sludges					
	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID					
38	-90								
-	- 94								
<u></u>									
		Application Sites are identified on							
Cł	neck one:	ndowner is the sole owner on ndowner is one of multiple of	of the properties identified owners of the properties i	d herein. identified herein.					
In wi	In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:  1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and  2. Notify the Permittee of the sale within two weeks following property transfer.								
no	tify the Permittee immedia	tely if conditions change su	ch that the fields are no l	fied herein. The Landowner will onger available to the Permittee for in contained becomes incorrect.					
ag ins	ricultural sites identified at pections on the land ident	oove and in Exhibit A. The I	andowner also grants por after land application of	s as specified below, on the ermission for DEQ staff to conduct of permitted residuals for the such application.					
	<u>lass B biosolids</u> <u>Water</u> Yes □ No X Yes		ood processing waste Yes 'No	<u>Other industrial sludges</u> □ Yes					
By:	e* owner	Phogesia 52	9-5161	John W Bly					
*	* I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.  * I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.								
ma pla Th	nner authorized by the VPA n prepared for each land app e Permittee agrees to notify t	Permit Regulation and in amou dication field by a person certif he Landowner or the Landown	ints not to exceed the rates led in accordance with §10. er's designee of the propos	duals on the Landowner's land in the identified in the nutrient management 1-104.2 of the Code of Virginia. Seed schedule for land application and the the source of residuals to be applied.					
	nted name			Permittee- Authorized Representative					
B.			Blend, Inc. ox 38060	Signature					
Titl	The control of the co		d, VA 23231	Sell Durnett					

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT
Permittee: Notri-Blend County or City: Charles City
Landowner: John Black
Landowner Site Management Requirements:
I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.
I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:
<ol> <li>Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.</li> </ol>
<ul> <li>2. Public Access</li> <li>a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.</li> <li>b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;</li> <li>c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.</li> </ul>
<ul> <li>3. Crop Restrictions:</li> <li>a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.</li> <li>b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,</li> <li>c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.</li> <li>d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;</li> <li>e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).</li> </ul>
<ul> <li>4. Livestock Access Restrictions:     Following biosolids application to pasture or hayland sites:     a. Meat producing livestock shall not be grazed for 30 days,</li> <li>b. Lactating dairy animals shall not be grazed for a minimum of 60 days.</li> <li>c. Other animals shall be restricted from grazing for 30 days;</li> </ul>
<ol> <li>Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;</li> </ol>
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare)  (a) 2//22
Landowner's Signature Date

# VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

# PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

	A. This land application agreement is mere as "Landowner", and	y either party or, wi or more parcels, un ment changes, tho	erred to here as the "I th respect to those pa ntil ownership of all p se parcels for which (	Permittee". This agreen Percels that are retaine Percels changes. If ow Downership has change	d by the nership of
	Landowner: The Landowner is the owner of record of agricultural, silvicultural or reclamation is documentation identifying owners, attack.	ites identified below	ocated in <u>harles</u> v in Table 1 and iden	Cih_, Virginia, whi tified on the tax map(	ch includes the s) with county
	Table 1.: Parcels authorized to re	ceive biosolids, wat	er treatment residua	s or other industrial s	ludges
	<u>Tax Parcel ID</u> <u>Tax</u>	Parcel ID	Tax Parcel ID	Tax Pa	arcel ID
	13-38				
r					
	Additional parcels containing Land Application Si	tes are identified on Sup	plement A (check if applic	able)	
	Check one: The Landowner is	the sole owner of ti	ne properties identified ners of the properties	ed herein.	
	In the event that the Landowner sells or within 38 months of the latest date of bid.  1. Notify the purchaser or transferd than the date of the property tra.  2. Notify the Permittee of the sale.	osolids application, see of the applicable nsfer; and	the Landowner shall public access and c	rop management rest	
	The Landowner has no other agreemen notify the Permittee immediately if condi application or any part of this agreemen	tions change such	that the fields are no	longer available to th	e Permittee for
	The Landowner hereby grants permissic agricultural sites identified above and in inspections on the land identified above purpose of determining compliance with	Exhibit A. The Lar before, during or a	ndowner also grants parter land application	permission for DEQ s of permitted residuals	taff to conduct
	Class B biosolids Water treatment res  Yes □ No Yes □ No	□ Ye		Other industrial slud ☐ Yes No	ges
	Printed name Jon Black  By:  Title* Owner	Mailing Address 5990 120 Chowlos Ch	JVA 23030	Landowner Signature	
-	*□ I certify that I have authority to sign for the I		<u> </u>	rustee or Power of attorn	nev. etc.
	* I certify that I am a responsible official [or of LLC, municipality, state or federal agency, etc.	ficer] authorized to act			
	Permittee:	lation and in amounts by a person certified	not to exceed the rate in accordance with §10	0.1-104.2 of the Code o	nt management f Virginia.
7/2	specifically prior to any particular application	to the Landowner's I	and. Notice shall inclu	de the source of residua	als to be applied.
1	Printed name	Nutri-Ble	nd, Inc.	Permittee- Authorized Rep	resentative
1	Bill burnett	P.O. Box		Signature S. Al Brown	H
	Title Office Manager	Richmond, \	√A 23231	sur summe	er

	County or City: Charles City
Landowner Site Management Requirements:	
Libe Landaumen Liberra massired a DEO Bis sellida E	

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

# 2. Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols:
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

# 3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

# 4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days.
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 khograms/hectare).

# VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A *Land Application Agreement - Biosolids and Industrial Residuals* form with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

This form is not required when Form D - VPA Permit Application Workbook, Tabs 13.a and/or 13.b, are submitted. The information on that form supersedes the need to complete this Landowner Coordination Form.

Permittee:	NUTRIBLEND INC SITE: Jon Black
County or City:	Charles City
Please Print <u>Tax Parcel ID(s)</u>	(Landowner signatures are not required on this Landowner(s)
Tax Faice ID(s)	<u>Landowner(s)</u>
13-38	Jon Black
38-90	John Black
38-94	John Black

Rev 6/11/2018b Page 1 of 1

# qPublic.net Charles City County, VA



Parcel Number 1338 Account # Location Address

SHIFFLETS DB 204-104 DB232-810,814,818,822,826 .830,834,838,842,846,850 Legal Description

Class Code Property Type Tax District

VACANT HARRISON Tax Rate 0.76 Acres

## View Map

## Owners

BLACK, JON L. 5440 ROXBURY ROAD CHARLES CITY, VA 23030

# Residential Buildings

Count Building Type **Total Stories** Total Rooms 0 Total Bedrooms Half Baths 0 Year Built

## Valuation

Assessed Year	2020	2019	2018	2017	2016
Land Value	\$207,100.00	\$207,100.00	\$207,100.00	\$207,100.00	\$207,100.00
Improvement Value	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Value	\$207 100 00	\$207 100 00	\$207 100 00	\$207 100 00	\$207 100 00

## Sales

Sale Date	Sale Price	Instrument	Book/Page	Grantee
4/22/2005	\$265,000,00	0-0	254/1505	BLACK, JON L.

## **Recent Sales**

# Sale date range: From: 08/09/2018 To: 08/09/2021 1500 Feet

## **Property Record Cards 2021**

Last Data Upload: 8/9/2021, 1:41:54 AM

13 38 (PDF)

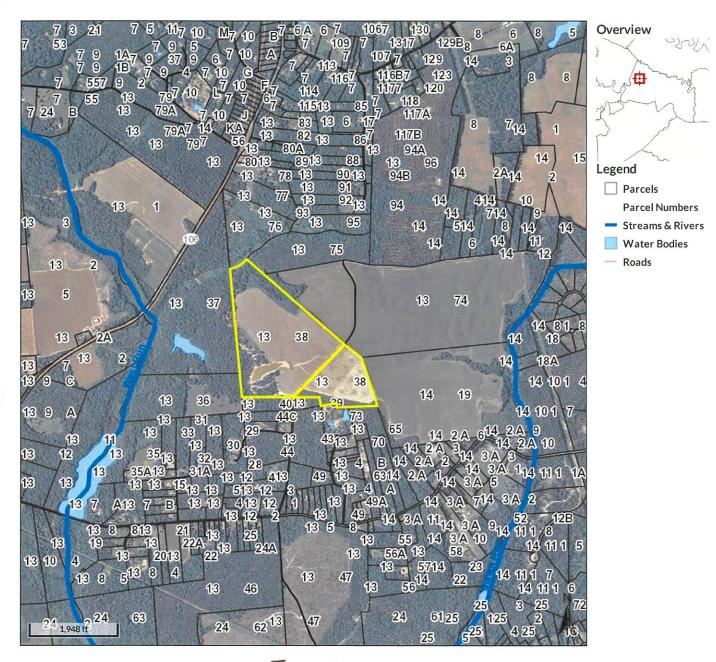
User Privacy Policy GDPR Privacy Notice

Schneider

TAX MAP



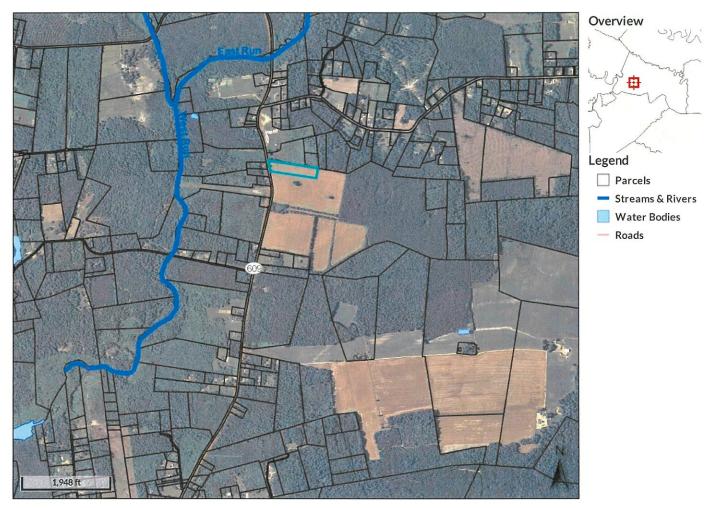
# **qPublic.net**<sup>™</sup> Charles City County, VA



Date created: 8/9/2021 Last Data Uploaded: 8/9/2021 1:41:54 AM TAX MAP



# **qPublic.net**<sup>™</sup> Charles City County, VA



Sec/Twp/Rng n/a Property Address 0

Parcel ID

Alternate ID 3047 Class Acreage

5

VACANT

Owner Address BLACK, JOHN W.

5801 ROXBURY ROAD CHARLES CITY VA 23030 Last 2 Sales

Price Reason Qual Date 5/31/2011 \$405000 n/a U n/a n/a

District **TYLER** 

38 90

Brief BARNETTS WB33-716,721,726 IN# 10-810 Tax Description

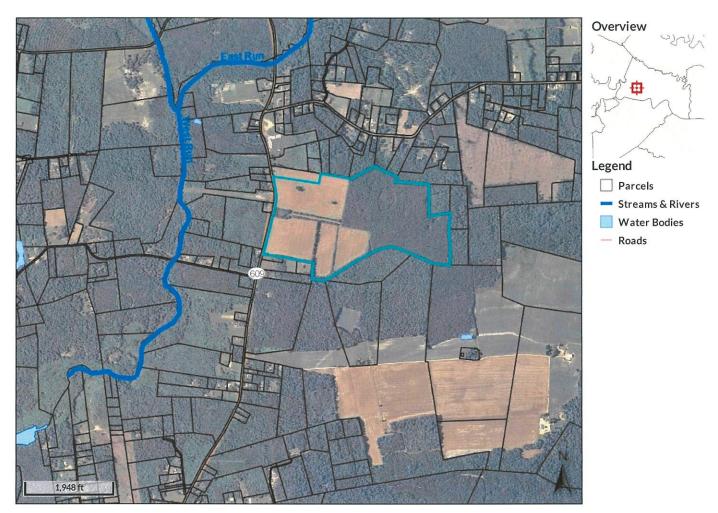
(Note: Not to be used on legal documents)

TAX MAP

Date created: 8/9/2021 Last Data Uploaded: 8/9/2021 1:41:54 AM



# **qPublic.net**<sup>™</sup> Charles City County, VA



Parcel ID Sec/Twp/Rng n/a Property Address 0

38 94

Alternate ID 2970 Acreage

**VACANT** 146.31

Owner Address BLACK, JOHN W.

5801 ROXBURY ROAD CHARLES CITY VA 23030 Last 2 Sales

Date Price Reason Qual 5/31/2011 \$405000 n/a U n/a n/a n/a

District Brief

**TYLER** 

**Tax Description** 

BARNETTS PS#114 WB33-716,721,726 DB 55-460 IN# 10-810

(Note: Not to be used on legal documents)

Date created: 8/9/2021 Last Data Uploaded: 8/9/2021 1:41:54 AM



TAX MAP



# SITE BOOK INFORMATION

COUNTY: Charles City -- VPA00828

SITE BOOK NAME: J. Black LOA DATE: 6/1/2022

TRACT NUMBERS: T-1050, T-220

LATITUDE / LONGITUDE: see field data sheets {Determined by Online Maps}

LANDOWNER NAME: see landowner coordination form

OPERATORS NAME: Jon Black

ADDRESS: 5440 Roxbury Rd

Charles City, VA

TELEPHONE #: 804-512-5335

GENERAL FARM TYPE: Agriculture - Row Crop

OLIVLINAL I ANIVI I II L.	Agriculture Now Crop		
DEQ CONTROL#	FIELD ID #	GROSS ACRES	TAX ID #
51036-00008-0000	1050-1	20	13-38
<u>51036-00008-0000</u>	1050-2	85	13-38
51036-00056-0000	220-4	12.6	38-94
51036-00056-0000	220-1	31.5	38-90, 38-94
51036-00056-0000	220-3	10.6	38-94
51036-00056-0000	220-2	20	38-94
<u> </u>			

TOTAL GROSS ACRES 179

**TOTAL NUMBER OF FIELDS** 



# FIELD DATA SHEET

SITE NAME: J Black TRACT: T-1050, T-220

FIELD	GROSS	FIELD	FARM COORDINATES		OWNER
#	ACRES	TYPE	LATITUDE	LONGITUDE	OWNER
1050-1	20	Row Crop	37.410	-77.166	Jon Black
1050-2	85	Row Crop			Jon Black
220-4	12.6	Row Crop	37.360	-77.155	John Black
220-1	31.5	Row Crop			John Black
220-3	10.6	Row Crop			John Black
220-2	20	Row Crop			John Black
TOTAL	179.7				

# **MAP KEY**

Highlighted Roads
Show Haul Route (Road Map)

**Property Line** 

100 ft Buffer



100 ft without Veg Buffer 35 ft with Veg Buffer

50 ft Buffer

Field Boundary

rck Rock Outcrop

H/W

PAS

**PWS** 

CEM

Slope 15% Max

Sink Hole 100 ft Buffer

Intermittant Stream Refer tp Water and PWS setbacks

House/Well 200 ft Buffer

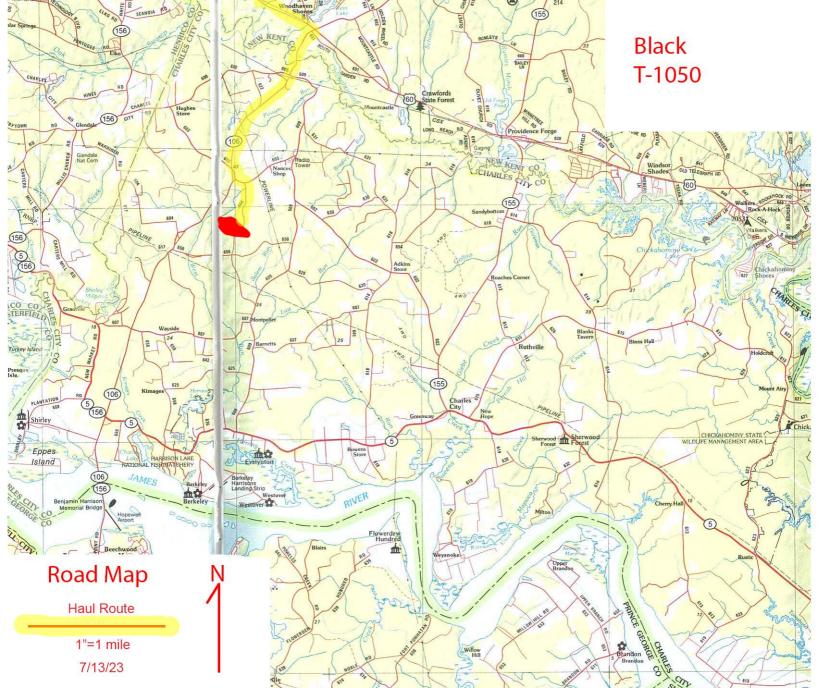
Publicly Accessible Site 200 ft from Property Line 400 ft from PAS

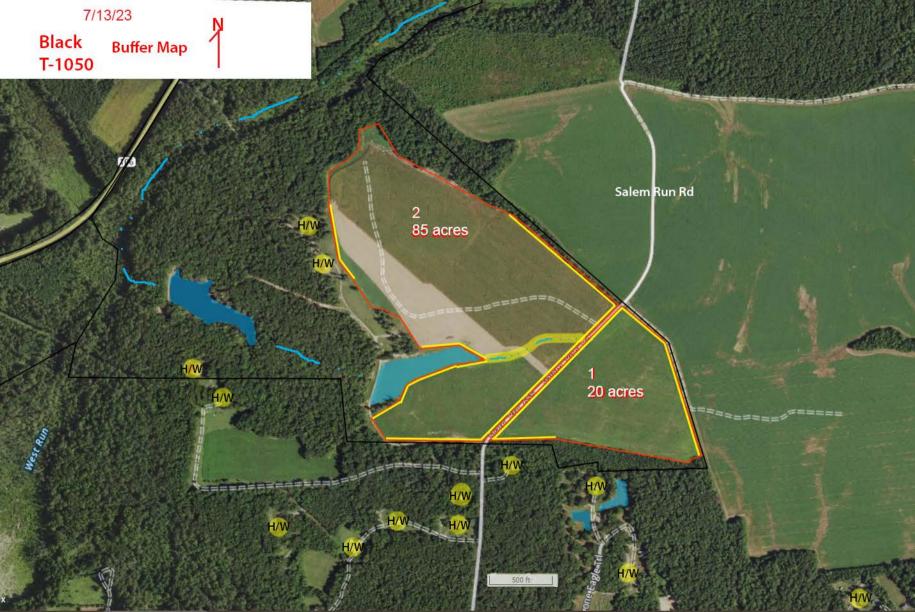
Public Water Supply
400 ft from Reservoir
100 ft stream/tributary

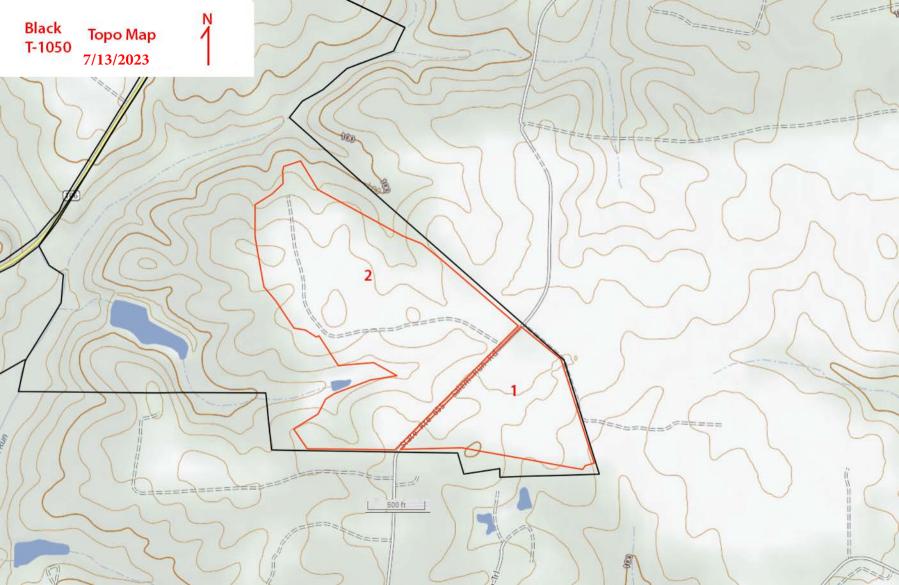
All Improved Roadways 10 Ft Buffer

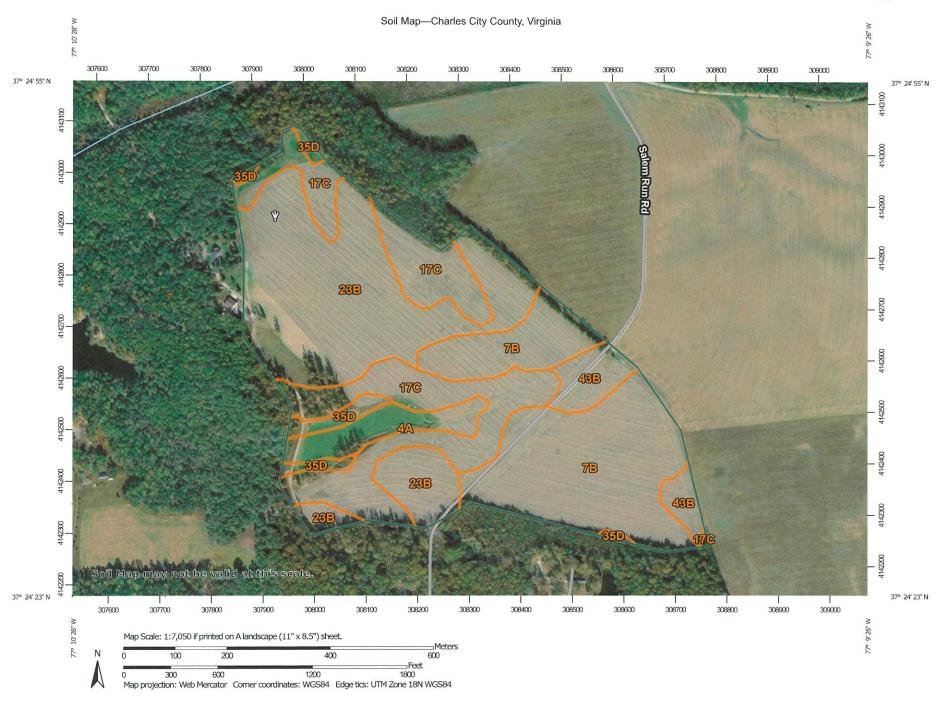
Water Supply Well or Spring 100 Ft Buffer

Cemetery









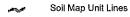
## MAP LEGEND

### Area of Interest (AOI)

Area of Interest (AOI)

### Soils

Soil Map Unit Polygons



Soil Map Unit Points

### Special Point Features

(o) Blowout

Borrow Pit

溪 Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

A Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

್ಕ್ Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

of Sodic Spot

#### ----

Stony Spot

(3) O.O., OP

Very Stony Spot

Spoil Area

y Wet Spot

△ Other

Special Line Features

#### Water Features

Streams and Canals

#### Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

## Background

Aerial Photography

# MAP INFORMATION

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

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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.

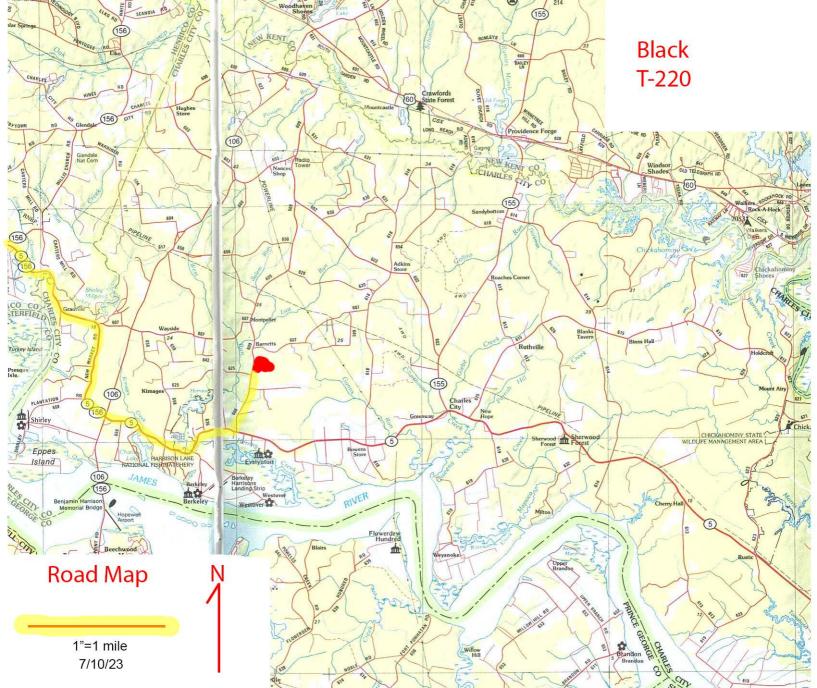
This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

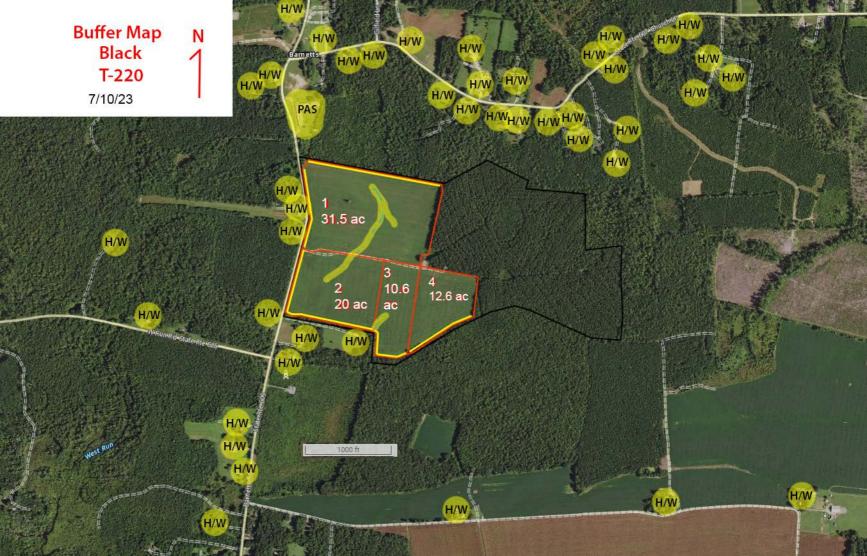
Soil Survey Area: Charles City County, Virginia Survey Area Data: Version 15, Jun 3, 2020

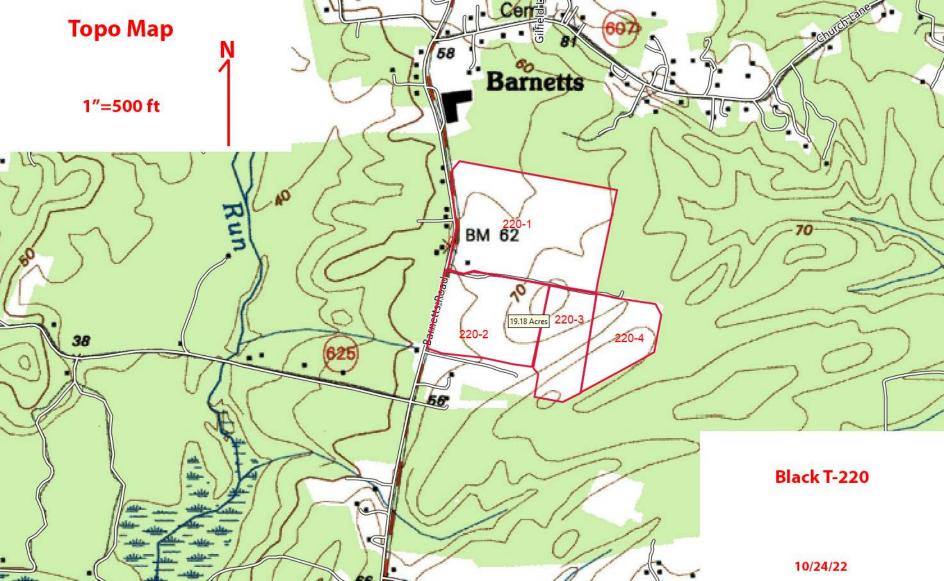
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 11, 2015—Oct 27, 2017

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.









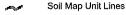
## MAP LEGEND

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons



Soil Map Unit Points

## **Special Point Features**

Blowout

Borrow Pit

Clay Spot 錗

Closed Depression

Gravel Pit r B

Gravelly Spot

Landfill 63

Lava Flow

Marsh or swamp

20 Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot 0

Wet Spot

Other Δ

Special Line Features

#### Water Features

Streams and Canals

#### Transportation

Rails +++

Interstate Highways

**US Routes** 

Major Roads

Local Roads

### Background

Aerial Photography

# MAP INFORMATION

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

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Soil Survey Area: Charles City County, Virginia Survey Area Data: Version 15, Jun 3, 2020

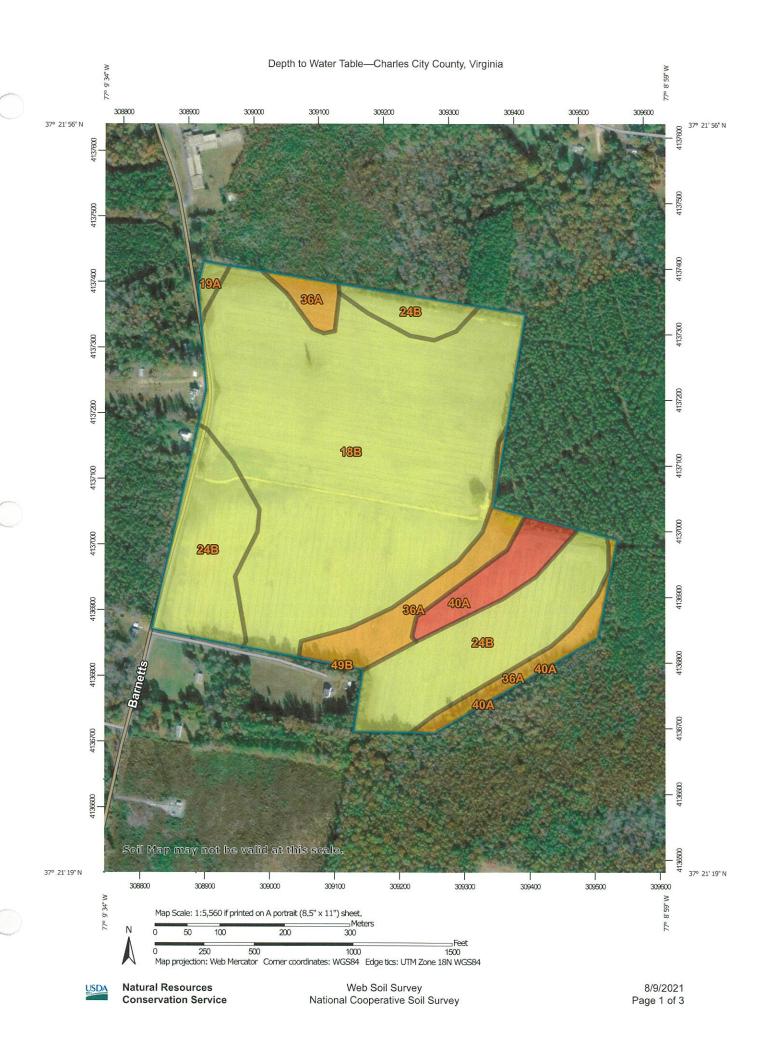
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The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
18B	Dogue silt loam, 2 to 6 percent slopes	48.2	58.2%
19A	Dragston fine sandy loam, 0 to 2 percent slopes	0.5	0.6%
24B	Izagora silt loam, 0 to 4 percent slopes	21.9	26.4%
36A	Newflat silt loam, 0 to 2 percent slopes	8.5	10.3%
40A	Roanoke silt loam, 0 to 2 percent slopes	3.6	4.4%
49B	Wickham fine sandy loam, 2 to 6 percent slopes	0.0	0.0%
Totals for Area of Interest		82.8	100.0%



# Jon Black Tract T-220 Field Data Sheet

Field	Total	Tract C	oordinates	7
	Acres	Latitude	Longitude	Field Type
220-1 220-2 220-3 220-4	31.5 20.0 10.6 12.6	37.3604	-77.1551	Agriculture Agriculture Agriculture Agriculture
SUM	74.7			<del></del>

<sup>\*</sup>All Latitude/Longitude Points were obtained through Google Earth

# MAP LEGEND

### Area of Interest (AOI)

Area of Interest (AOI)

### Soils

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Soil Map Unit Polygons



Soil Map Unit Points

#### Special Point Features

(c) Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

... Gravelly Spot

Landfill

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

\* .\* Sandy Spot

Severely Eroded Spot

Sinkhole

Stide or Slip

Sodic Spot

#### ....

A Stony Spot

Very Stony Spot

Spoil Area

Wet Spot

Other

Special Line Features

#### Water Features

Streams and Canals

#### Transportation

+++ Rails

Interstate Highways

US Routes

Major Roads

Local Roads

#### Background

Aerial Photography

# MAP INFORMATION

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

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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: Charles City County, Virginia Survey Area Data: Version 15, Jun 3, 2020

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

Date(s) aerial images were photographed: Apr 11, 2015—Oct 27, 2017

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.

# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI  3.8%
4A	Bibb fine sandy loam, 0 to 2 percent slopes, frequently flooded	14.3	
14B	Craven-Caroline complex, 2 to 6 percent slopes	4.3	1.2%
16C	Craven-Remlik complex, 6 to 10 percent slopes	37.0	9.9%
17C	Craven-Uchee complex, 6 to 10 percent slopes	7.8	2.1%
21B	Emporia gravelly fine sandy loam, 2 to 6 percent slopes	19.0	5.1%
23B	Emporia-Kempsville complex, 2 to 6 percent slopes	142.1	38.0%
25B	Kempsville loamy sand, 2 to 6 percent slopes	76.2	20.4%
35D	Nevarc-Remlik complex, 10 to 15 percent slopes	24.0	6.4%
35E	Nevarc-Remlik complex, 15 to 25 percent slopes	10.9	2.9%
35F	Nevarc-Remlik complex, 25 to 60 percent slopes	8.0	2.1%
42B	Slagle fine sandy loam, 0 to 4 percent slopes	2.9	0.8%
43B	Slagle-Emporia complex, 2 to 6 percent slopes	27.4	7.3%
Totals for Area of Interest		374.0	100.0%



# MAP LEGEND

Spoil Area

Stony Spot

Wet Spot

Other

Rails

**US Routes** 

Major Roads

Local Roads

Aerial Photography

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

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**Water Features** 

Transportation

Background

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## Area of Interest (AOI)

Area of Interest (AOI)

### Soils

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Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

#### **Special Point Features**

(e) Blowout

Borrow Pit

溪 Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

A Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

- Saline Spot

\*\* Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

# MAP INFORMATION

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

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Coordinate System: Web Mercator (EPSG:3857)

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# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
4A	Bibb fine sandy loam, 0 to 2 percent slopes, frequently flooded	1.0	1.7%	
7B	Caroline-Emporia complex, 2 to 6 percent slopes	2.7	4.4%	
17C	Craven-Uchee complex, 6 to 10 percent slopes	17.4	28.0%	
23B	Emporia-Kempsville complex, 2 to 6 percent slopes	13.3	21.4%	
35D	Nevarc-Remlik complex, 10 to 15 percent slopes	16.7	27.0%	
43B	Slagle-Emporia complex, 2 to 6 percent slopes	10.9	17.5%	
Totals for Area of Interest		62.1	100.0%	

Not rated or not available

Streams and Canals

Interstate Highways

Aerial Photography

# MAP LEGEND

**Water Features** 

Transportation

Background

Rails

**US Routes** 

Major Roads

Local Roads

# Area of Interest (AOI) Soils

# Soil Rating Polygons

Area of Interest (AOI)

- 0 25
  - 25 50
- 50 100
- 100 150
- 150 200
- > 200
- Not rated or not available

#### Soil Rating Lines

- 0 25
- 25 50
- 50 100
- 100 150
- 150 200
- > 200
- Not rated or not available

#### **Soil Rating Points**

- 0 25
- 25 50
- 50 100
- 100 150
- 150 200
- > 200

# MAP INFORMATION

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

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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)

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# **Depth to Water Table**

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
4A	Bibb fine sandy loam, 0 to 2 percent slopes, frequently flooded	23	1.0	1.7%
7B	Caroline-Emporia complex, 2 to 6 percent slopes	130	2.7	4.4%
17C	Craven-Uchee complex, 6 to 10 percent slopes	76	17,4	28.0%
23B	Emporia-Kempsville complex, 2 to 6 percent slopes	107	13.3	21.4%
35D	Nevarc-Remlik complex, 10 to 15 percent slopes	61	16.7	27.0%
43B	Slagle-Emporia complex, 2 to 6 percent slopes	61	10.9	17.5%
Totals for Area of Interest			62,1	100,0%

# **Description**

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

# **Rating Options**

Units of Measure: centimeters

Aggregation Method: Dominant Component Component Percent Cutoff: None Specified

Tie-break Rule: Lower Interpret Nulls as Zero: No Beginning Month: January Ending Month: December