



## SITE BOOK INFORMATION

COUNTY: **VPA00832**  
 SITE BOOK NAME: **Randolph**  
 TRACT NUMBERS: **T-1096, T-21, T-2007**

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

LANDOWNER NAME: see landowner coordination form

OPERATORS NAME: **Eric Randolph**  
 ADDRESS: **12901 Old Church Road  
 New Kent, VA 23124**  
 TELEPHONE #: **804-387-9168**

GENERAL FARM TYPE: **Agriculture - Row Crop**

	DEQ CONTROL #	FIELD ID #	GROSS ACRES	TAX ID #
1				
2	<a href="#">51127-00003-0000</a>	1096-2	98.5	3-3
3				3-11A
4	<a href="#">51127-00003-0000</a>	1096-3	16.2	3-11A
5	51127-00003-0000	1096-4	26.8	3-11A
6	<a href="#">51127-00003-0000</a>	1096-5	6	3-11A
7	<a href="#">51127-00003-0000</a>	1096-6	7.4	3-11A
8				
9	51127-00018-0000	21-1	17	3-3
10	51127-00019-0000	21-10	4.9	3-3
11	<a href="#">51127-00020-0000</a>	21-11	3.8	3-3
12	<a href="#">51127-00018-0000</a>	21-2	7.1	3-3
13	51127-00018-0000	21-3	8.7	3-3
14	<a href="#">51127-00018-0000</a>	21-4	53.3	3-3
15	<a href="#">51127-00018-0000</a>	21-5	20.2	3-3
	<a href="#">51127-00018-0000</a>	21-6	25.5	3-3
	<a href="#">51127-00026-0000</a>	21-7	60.3	3-3
	<a href="#">51127-00027-0000</a>	21-8	76.3	3-3
	51127-00026-0000	21-9	78	3-3
	<a href="#">51127-00010-0000</a>	2007-1	5.4	10-32E
	51127-00010-0000	2007-2	48.5	10-32E

DEQ CONTROL #	FIELD ID #	GROSS ACRES	TAX ID #
<b>TOTAL GROSS ACRES</b>		<b>563.9</b>	
<b>TOTAL NUMBER OF FIELDS</b>		<b>18</b>	

**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 made on 5/10/22 between Sharon K Randolph Estate referred to here as "Landowner", and Nutri-Blend, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in New Kent, Virginia, which includes the 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 authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
3-3			
3-11A			
10-32E			

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:       The Landowner is the sole owner of the properties identified herein.  
                           The Landowner is one of multiple owners of the properties identified herein.

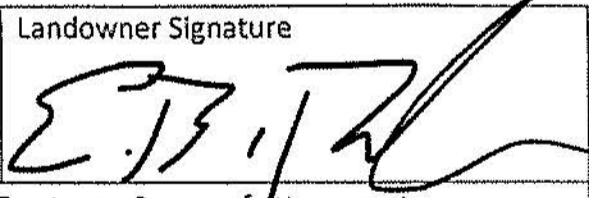
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

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.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.


<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Printed name <b>ERIC RANDOLPH</b>	Mailing Address 12901 Old Church Rd New Kent VA 23124	Landowner Signature 
By: Title <b>Managing Partner</b>	Phone No. <b>804-387-9168</b>	
<input checked="" type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc. <input type="checkbox"/> 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.		

**Permittee:**

Nutri-Blend, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <b>Bill Burnett</b>	Nutri-Blend, Inc. P.O. Box 38060 Richmond, VA 23231	Permittee- Authorized Representative Signature 
Title <b>Office Manager</b>		

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Nutri-Blend County or City: New Kent

Landowner: Sharon K Rambold Estate

**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:

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.
  - c. 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 kilograms/hectare).

Sharon K Rambold

5/10/22

Landowner's Signature

Date

# New Kent County, Virginia

PID:

5530

Account ID:

3 3

GPIN:

R11-1134-0882

## Summary

Owner's Name:	RANDOLPH SHARON K ESTATE
Location:	13101 OLD CHURCH RD
Subdivision:	ADJ SHIMOKINS
Topography:	1
Topography Description:	Level
Utilities:	5,6,7
Utilities Description:	Well,Septic,Electric
Location:	N/A
Street/Road:	1
Street/Road Description:	Paved
Sale Price:	\$0
Sale Date:	3/25/2014

Deed Book Reference:	19
Deed Book Page Reference:	762
Owner's Name:	RANDOLPH SHARON K ESTATE
Owner Address:	8281 CHRISTIAN RIDGE DR MECHANICSVILLE, VA 23111
Validity Code:	WB
Qualified Sale/Unqualified Sale:	U
Vacant/Improved:	1
AFD:	ADJ SHIMOKINS
Description:	AFD
Legal:	699.63 AC WB 17/884
Total Acres:	700

## Improvements

### Improvement 1

Vacant/Improved:	1
Style:	83
Style Description:	Mobile Home
Stories:	N/A
Roof Structure Description:	Gable
Roof Cover:	01
Heat Fuel:	None
Heat Type:	None

AC Type:	None
Total Rooms:	N/A
Bedrooms:	2
Full Baths:	2
Half Baths:	N/A
Effective Area:	58
Gross Area:	1,880
Living Area:	924

### Improvement 2

Vacant/Improved:	1
Style:	OB
Style Description:	Outbuilding
Stories:	1
Roof Structure Description:	Gable
Roof Cover:	02
Heat Fuel:	None
Heat Type:	None

AC Type:	None
Total Rooms:	N/A
Bedrooms:	N/A
Full Baths:	N/A
Half Baths:	N/A
Effective Area:	19
Gross Area:	1,887
Living Area:	N/A

### Improvement 3

Vacant/Improved:	1
Style:	OB
Style Description:	Outbuilding
Stories:	1
Roof Structure Description:	Flat
Roof Cover:	12
Heat Fuel:	None
Heat Type:	None

AC Type:	None
Total Rooms:	N/A
Bedrooms:	N/A
Full Baths:	N/A
Half Baths:	N/A
Effective Area:	18
Gross Area:	1,836
Living Area:	N/A

### Improvement 4

Vacant/Improved:	1
Style:	06
Style Description:	Conventional
Stories:	2
Roof Structure Description:	Hip
Roof Cover:	01
Heat Fuel:	Oil

AC Type:	None
Total Rooms:	6
Bedrooms:	3
Full Baths:	1
Half Baths:	1
Effective Area:	2,436
Gross Area:	3,156

DISCLAIMER: This data is provided without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Any person, firm or corporation which uses this map or any of the enclosed information assumes all risk for the inaccuracy thereof, as New Kent County expressly disclaims any liability for loss or damage arising from the use of said information by any third party.

# New Kent County, Virginia

**PID:**

5532

**Account ID:**

3 11A

**GPIN:**

Q10-3902-3141

## Summary

<b>Owner's Name:</b>	RANDOLPH SHARON K ESTATE
<b>Location:</b>	12801 OLD CHURCH RD
<b>Subdivision:</b>	PART OF ADAMS
<b>Topography:</b>	1
<b>Topography Description:</b>	Level
<b>Utilities:</b>	9,7
<b>Utilities Description:</b>	Well/Septic,Electric
<b>Location:</b>	N/A
<b>Street/Road:</b>	1
<b>Street/Road Description:</b>	Paved
<b>Sale Price:</b>	\$0
<b>Sale Date:</b>	3/25/2014

<b>Deed Book Reference:</b>	19
<b>Deed Book Page Reference:</b>	762
<b>Owner's Name:</b>	RANDOLPH SHARON K ESTATE
<b>Owner Address:</b>	8281 CHRISTIAN RIDGE DR MECHANICSVILLE, VA 23111
<b>Validity Code:</b>	WB
<b>Qualified Sale/Unqualified Sale:</b>	U
<b>Vacant/Improved:</b>	V
<b>AFD:</b>	PART OF ADAMS
<b>Description:</b>	AFD
<b>Legal:</b>	163 AC DB 53/415
<b>Total Acres:</b>	163

## Improvements

### Improvement 1

<b>Vacant/Improved:</b>	V
<b>Style:</b>	N/A
<b>Style Description:</b>	N/A
<b>Stories:</b>	N/A
<b>Roof Structure Description:</b>	N/A
<b>Roof Cover:</b>	N/A
<b>Heat Fuel:</b>	N/A
<b>Heat Type:</b>	N/A

<b>AC Type:</b>	N/A
<b>Total Rooms:</b>	N/A
<b>Bedrooms:</b>	N/A
<b>Full Baths:</b>	N/A
<b>Half Baths:</b>	N/A
<b>Effective Area:</b>	N/A
<b>Gross Area:</b>	N/A
<b>Living Area:</b>	N/A

## Assessment

<b>Total Assessed Building:</b>	\$
<b>Outbuilding Assessment:</b>	\$
<b>Extra Features Assessment:</b>	\$
<b>Improvement Assessment:</b>	\$
<b>Land Assessment:</b>	\$828,400
<b>Total Assessed Value:</b>	\$828,400

# New Kent County, Virginia

PID:

5533

Account ID:

10 32E

GPIN:

O12-0589-1993

## Summary

Owner's Name:	RANDOLPH SHARON K ESTATE
Location:	OLD CHURCH RD
Subdivision:	ADJ HARRISON
Topography:	1
Topography Description:	Level
Utilities:	N/A
Utilities Description:	N/A
Location:	N/A
Street/Road:	1
Street/Road Description:	Paved
Sale Price:	\$0
Sale Date:	3/25/2014

Deed Book Reference:	19
Deed Book Page Reference:	762
Owner's Name:	RANDOLPH SHARON K ESTATE
Owner Address:	8281 CHRISTIAN RIDGE DR MECHANICSVILLE, VA 23111
Validity Code:	WB
Qualified Sale/Unqualified Sale:	U
Vacant/Improved:	V
AFD:	ADJ HARRISON
Description:	AFD
Legal:	86.1 AC WB 17/884
Total Acres:	86

## Improvements

### Improvement 1

Vacant/Improved:	V
Style:	N/A
Style Description:	N/A
Stories:	N/A
Roof Structure Description:	N/A
Roof Cover:	N/A
Heat Fuel:	N/A
Heat Type:	N/A

AC Type:	N/A
Total Rooms:	N/A
Bedrooms:	N/A
Full Baths:	N/A
Half Baths:	N/A
Effective Area:	N/A
Gross Area:	N/A
Living Area:	N/A


















## Assessment

Total Assessed Building:	\$
Outbuilding Assessment:	\$
Extra Features Assessment:	\$
Improvement Assessment:	\$
Land Assessment:	\$387,700
Total Assessed Value:	\$387,700



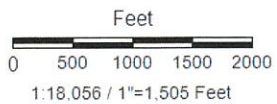
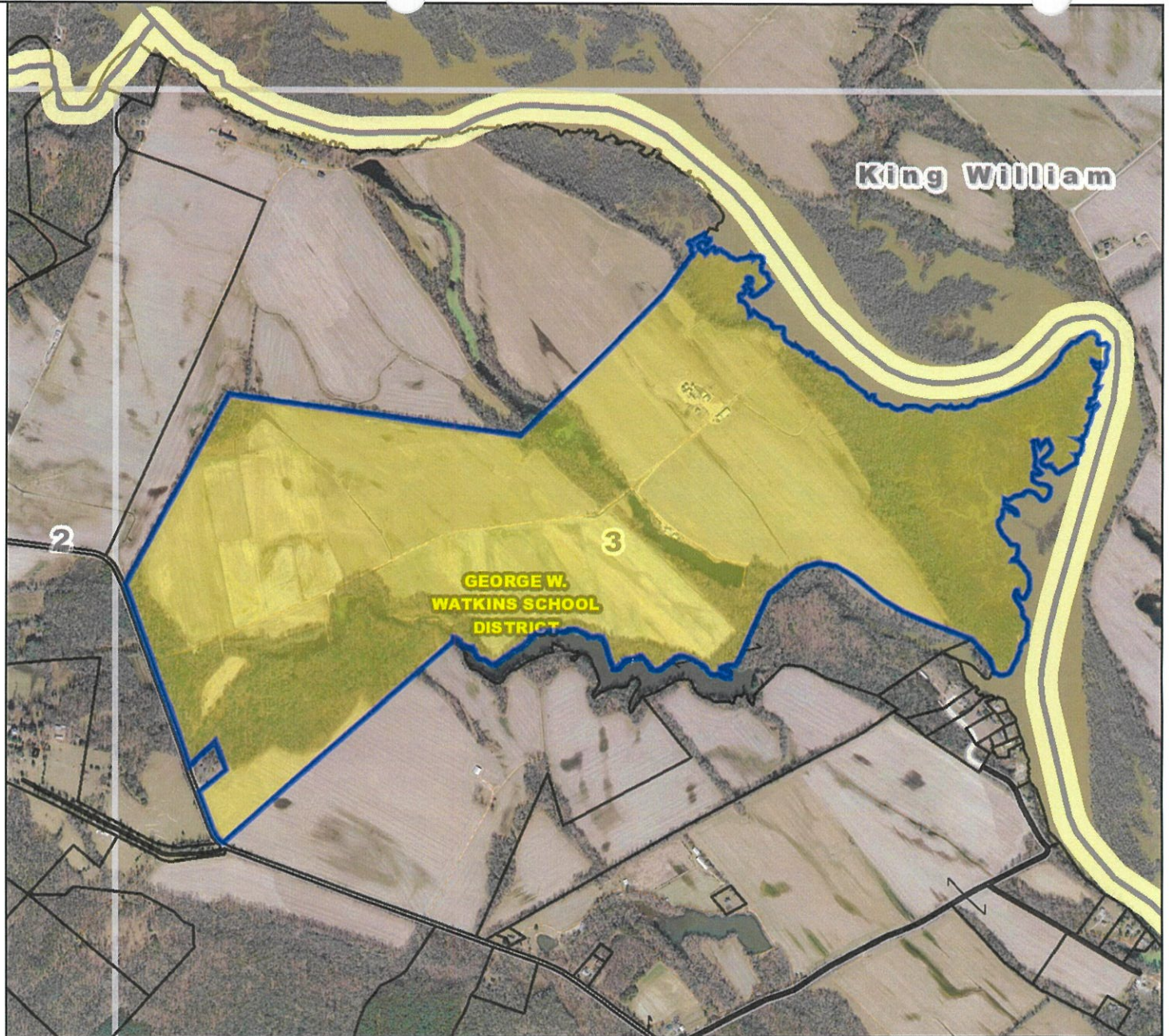
# New Kent County, Virginia

## Legend

-  Area County Boundaries
-  School Districts
-  Parks
-  School Board Properties
-  Parcels
- Parcel Labels 1:2400
- Hooks
- Subdivisions
- Tax Map 600 Scale Grid
- Routes
-  INTERSTATE
-  US HIGHWAY
-  VA PRIMARY
-  VA SECONDARY
-  PRIVATE
-  PAPER
-  INSTITUTIONAL PROPERTY
-  ISFR
-  RAMP
-  CROSSOVER
-  Ancillary Roads
-  Railroads

TAX ID

3-3



Title: TAX MAP

















Date: 5/5/2022

*DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and New Kent County is not responsible for its accuracy or how current it may be.*

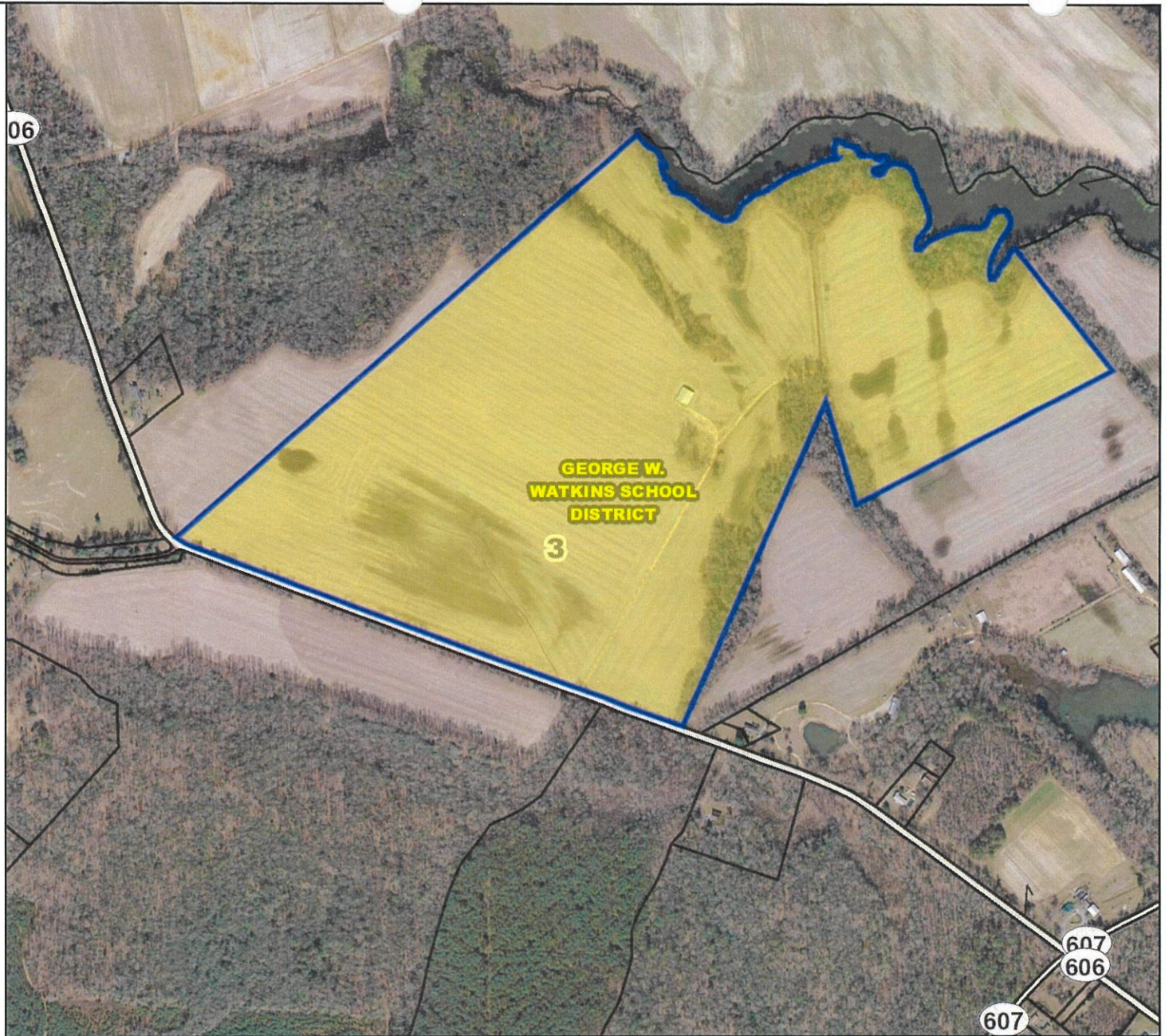
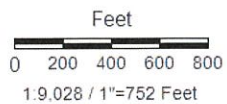


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Tax ID  
3-11A



Title: Tax Map

Date: 5/5/2022

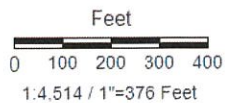
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-  ISFR
-  RAMP
- CROSSOVER
- Roads
-  INTERSTATE
-  US HIGHWAY
-  VA PRIMARY
-  VA SECONDARY
-  PRIVATE
-  PAPER
-  INSTITUTIONAL PROPERTY
-  ISFR
-  RAMP
- CROSSOVER
- Driveway
- - - Ancillary Roads
- Site Addresses
-  Certificate of Occupancy Issued



Title: TAX MAP      TAX ID 10-32E

Date: 5/5/2022

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## Setback Restrictions

The land application of biosolids/WTP residuals shall not occur within the following minimum setback distance requirements:

MINIMUM SETBACK DISTANCE REQUIREMENTS <sup>(1)</sup>	
Adjacent Feature	Minimum Setback Distance (Feet) to Land Application Area
Occupied dwelling	200 <sup>(2), (3), (4)</sup>
Odor sensitive receptors (without injection or same day incorporation)	400 <sup>(4)</sup>
Odor sensitive receptors (with injection or same day incorporation)	200
Property lines	100 <sup>(3), (5)</sup>
Property lines of publicly accessible sites <sup>(6)</sup>	200
Water supply wells or springs	100
Public water supply reservoirs	400
All segments of streams and tributaries designated as a Public Water Supply under the Board's Water Quality Standards	100
Surface waters without a vegetated buffer	100
Surface waters with a 35-foot vegetated buffer	35
Agricultural drainage ditches	10
All improved roadways	10
Rock outcrops	25
Open sinkholes	100
Limestone rock outcrops and closed sinkholes <sup>(7)</sup>	50
<p>(1) In cases where more than one setback distance is involved, the most restrictive distance governs.</p> <p>(2) The setback distance to occupied dwellings may be reduced or waived with the written consent of the occupant and landowner of the dwelling.</p> <p>(3) DEQ shall grant to any landowner or resident in the vicinity of a biosolids land application site an extended setback of up to 200 feet from their property line and up to 400 feet from their occupied dwelling upon request from their physician based on medical reasons. In order for an extended setback request to be granted, the request must be submitted to DEQ in writing on a form provided by DEQ. A request must be received by DEQ no later than 48 hours before land application commences on the field affected by the extended setback, and communicated by DEQ staff to the permittee no later than 24 hours before land application commences on the field affected by the extended setback. DEQ may extend a setback distance within 48 hours of land application if requested by the Virginia Department of Health in connection with the landowner or resident's physician.</p> <p>(4) Setback distances may be extended beyond 400 feet where an evaluation by the Virginia Department of Health determines that a setback in excess of 400 feet is necessary to prevent specific and immediate injury to the health of an individual.</p> <p>(5) The setback distance to property lines may be reduced or waived upon written consent of the landowner.</p> <p>(6) Publicly accessible sites are open to the general public and routinely accommodate pedestrians and include, but are not limited to, schools, churches, hospitals, parks, nature trails, businesses open to the public and sidewalks. Temporary structures, public roads or similar thoroughfares are not considered publicly accessible.</p> <p>(7) A closed sinkhole does not have an open conduit to groundwater. The setback from a closed sinkhole may be reduced or waived by DEQ upon evaluation by a professional soil scientist.</p>	

- b. Increased setback distances may be required based on site specific features, such as agricultural drainage features and site slopes.
- c. Waivers from adjacent property residents and landowners may only be used to reduce setback distances from occupied private residences and property lines. The setback from an odor sensitive receptor or a publicly accessible site may not be waived.
- d. Voluntary extensions of setback distances – If a permittee negotiates a voluntary agreement with a landowner or resident to extend setback distances or add other more restrictive criteria than required by this regulation, the permittee shall document the agreement in writing and provide the agreement to the DEQ-VRO Regional Office. Voluntary setback increases or other management criteria will not become an enforceable part of the land application permit unless the permittee modifies the BSMP to include the additional restriction.



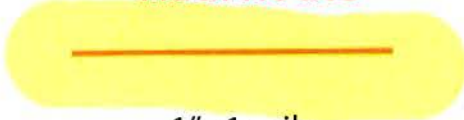
# MAP KEY

	Highlighted Roads Show Haul Route (Road Map)	
	Property Line	100 ft Buffer
	Water (Surface)	100 ft without Veg Buffer 35 ft with Veg Buffer
	Field Boundary	
rck	Rock Outcrop	50 ft Buffer
	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	



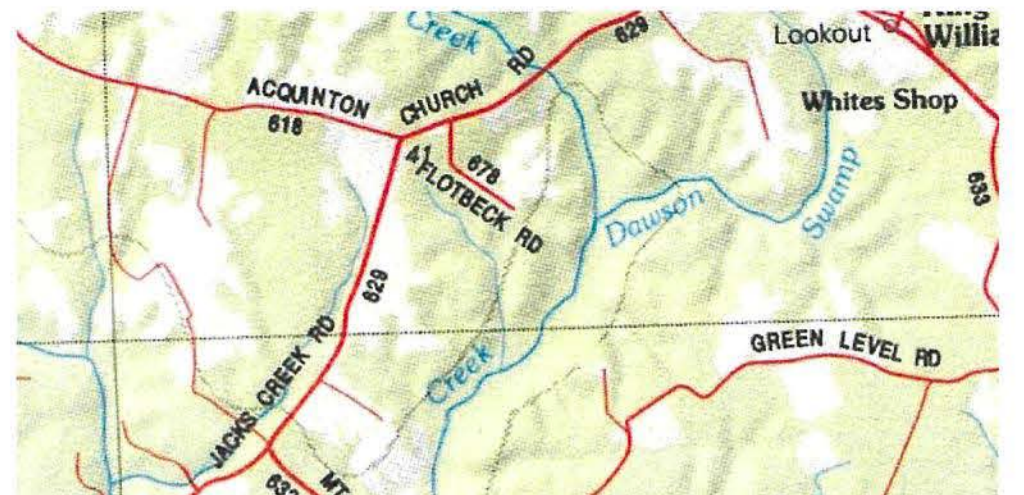
# Road Map

Haul Route



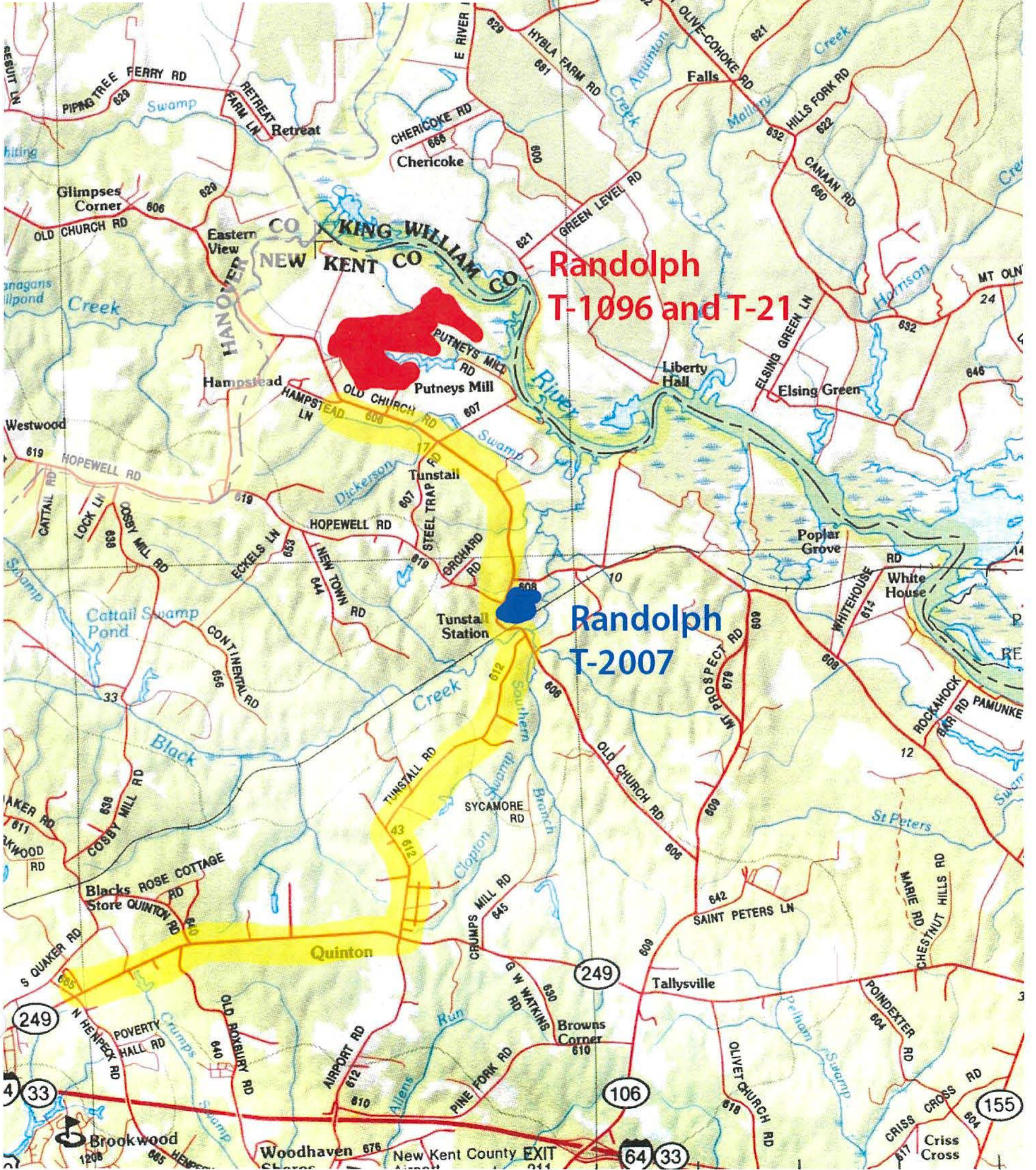
1"=1 mile

9/12/23



Randolph  
T-1096 and T-21

Randolph  
T-2007





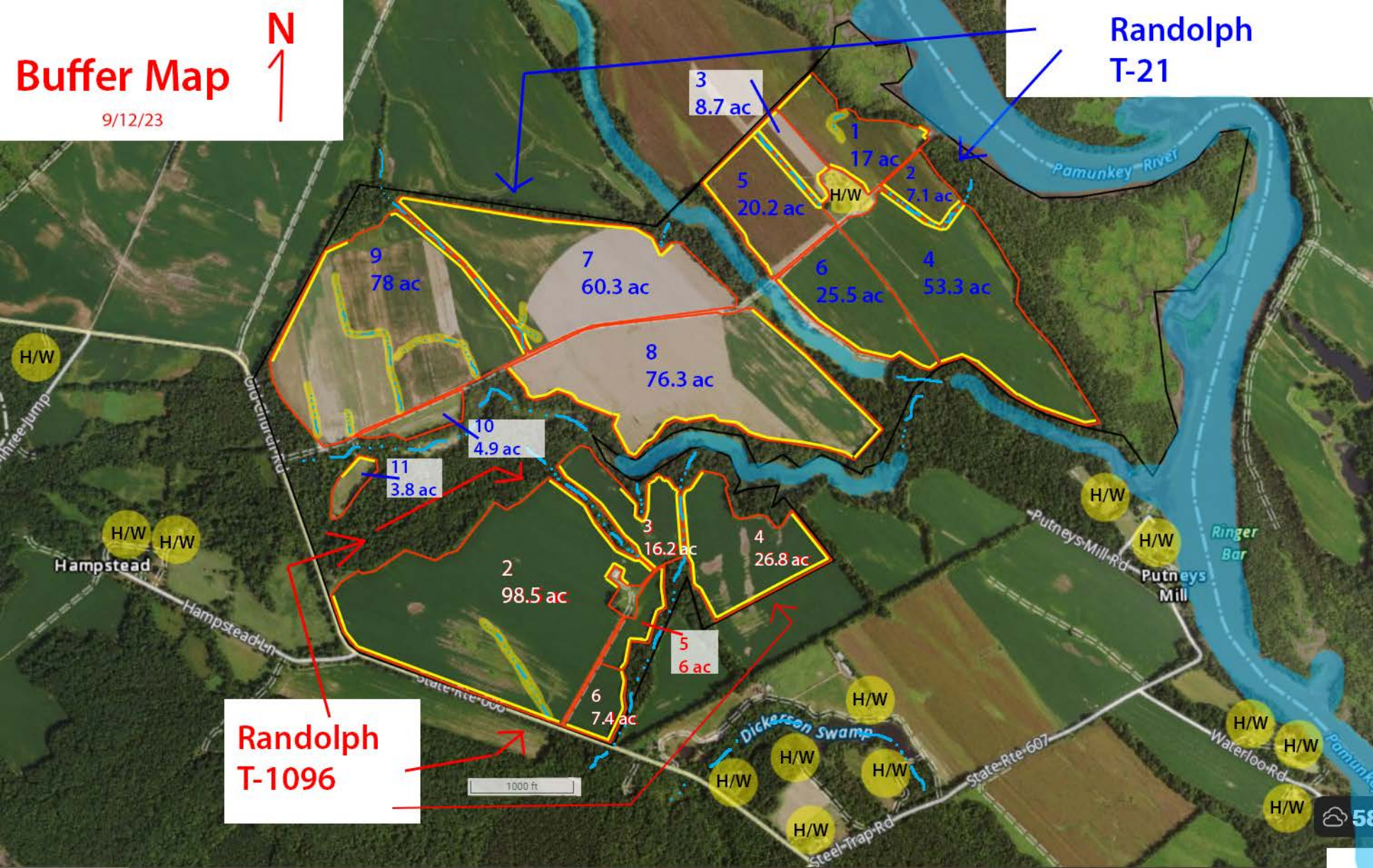
# Buffer Map

9/12/23



Randolph  
T-21

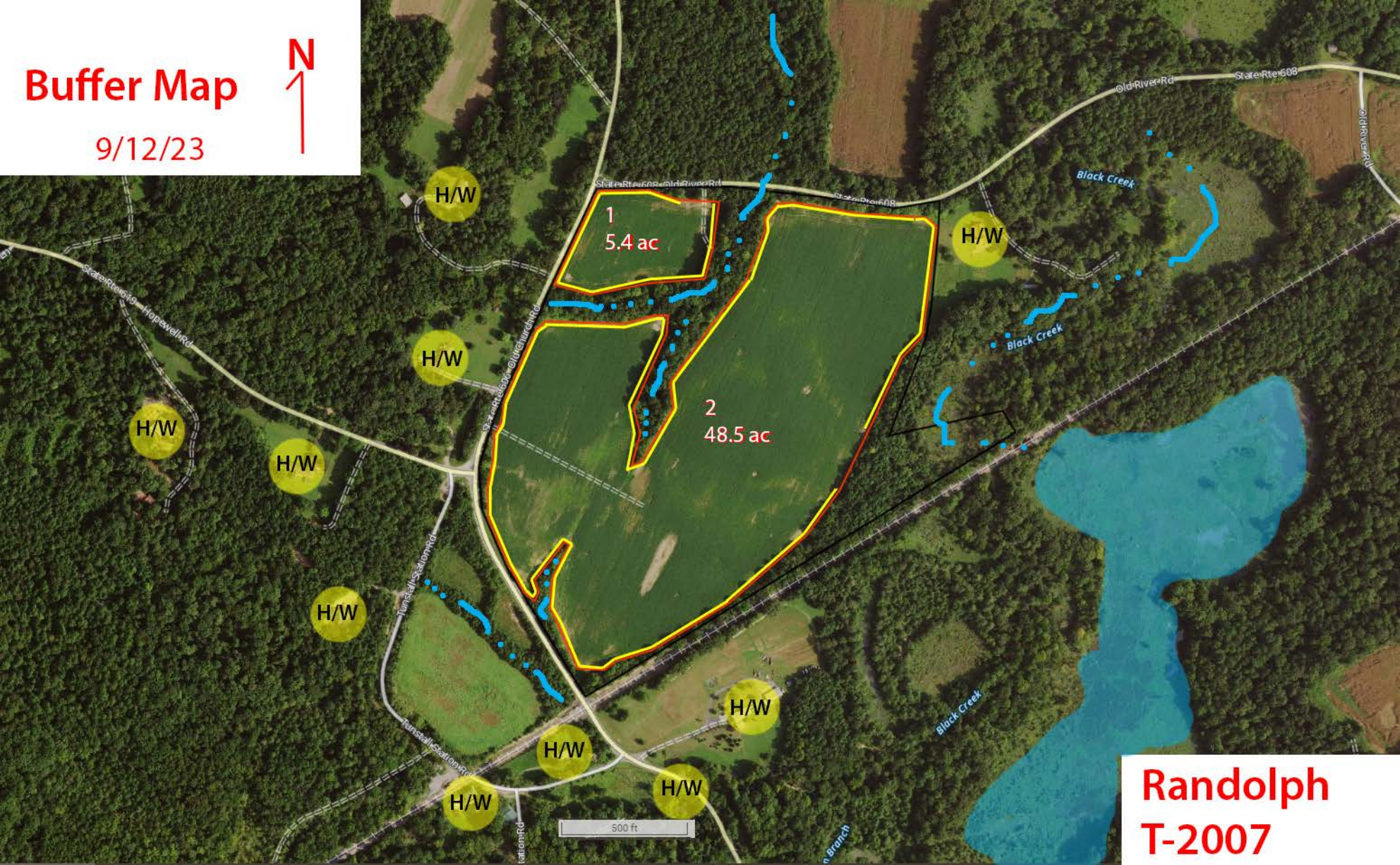
Randolph  
T-1096





# Buffer Map

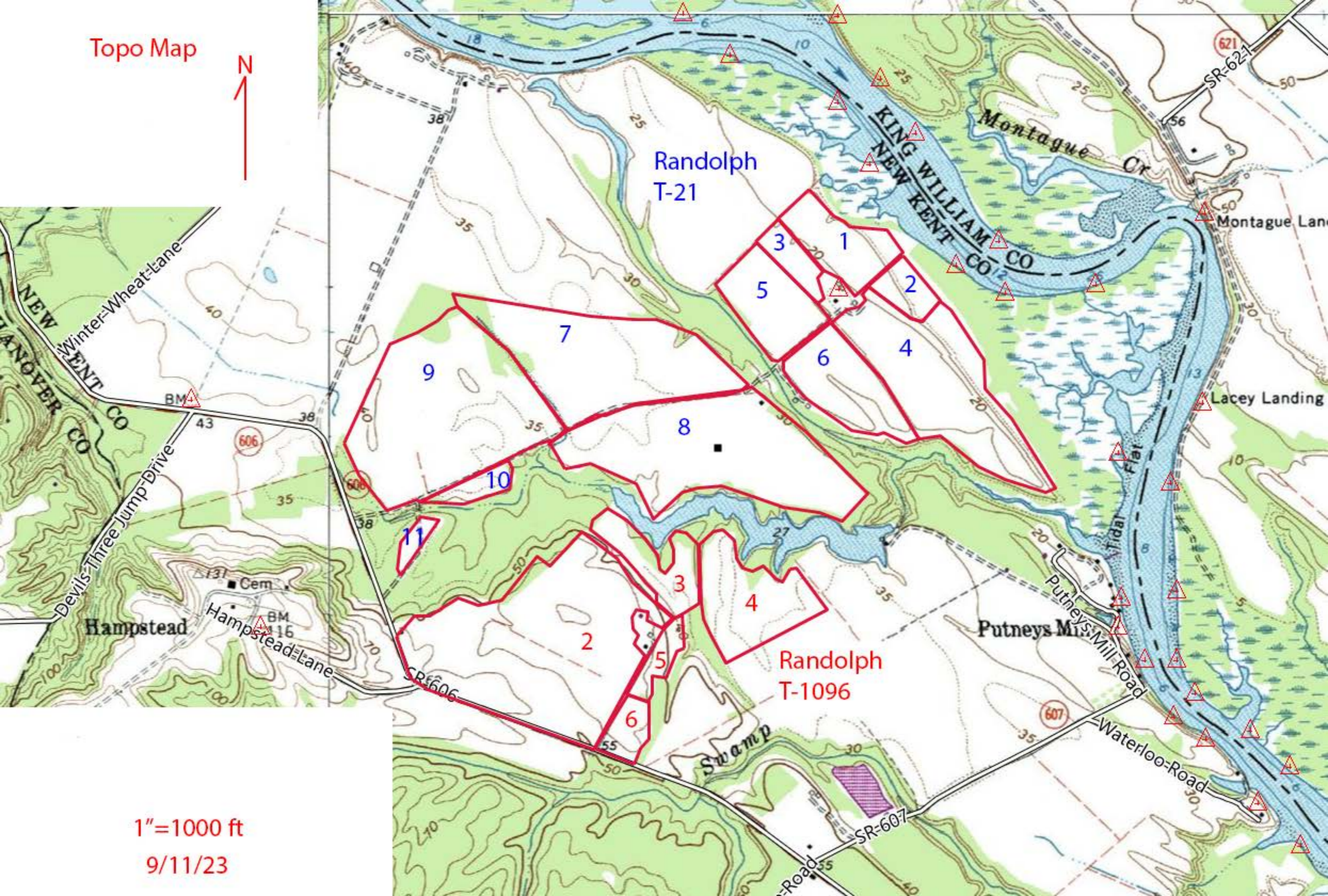
9/12/23



**Randolph  
T-2007**



Topo Map







Topo Map  
Randolph  
T-2007



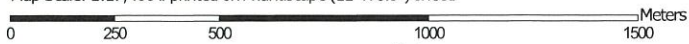
1"=500 ft  
9/11/23



Soil Map—New Kent County, Virginia




Map Scale: 1:17,400 if printed on a landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84


### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)

**Soils**

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

**Special Point Features**



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



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



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



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 1:15,800.

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: New Kent County, Virginia  
 Survey Area Data: Version 14, Sep 14, 2021

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

Date(s) aerial images were photographed: Mar 17, 2016—Nov 22, 2016

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.

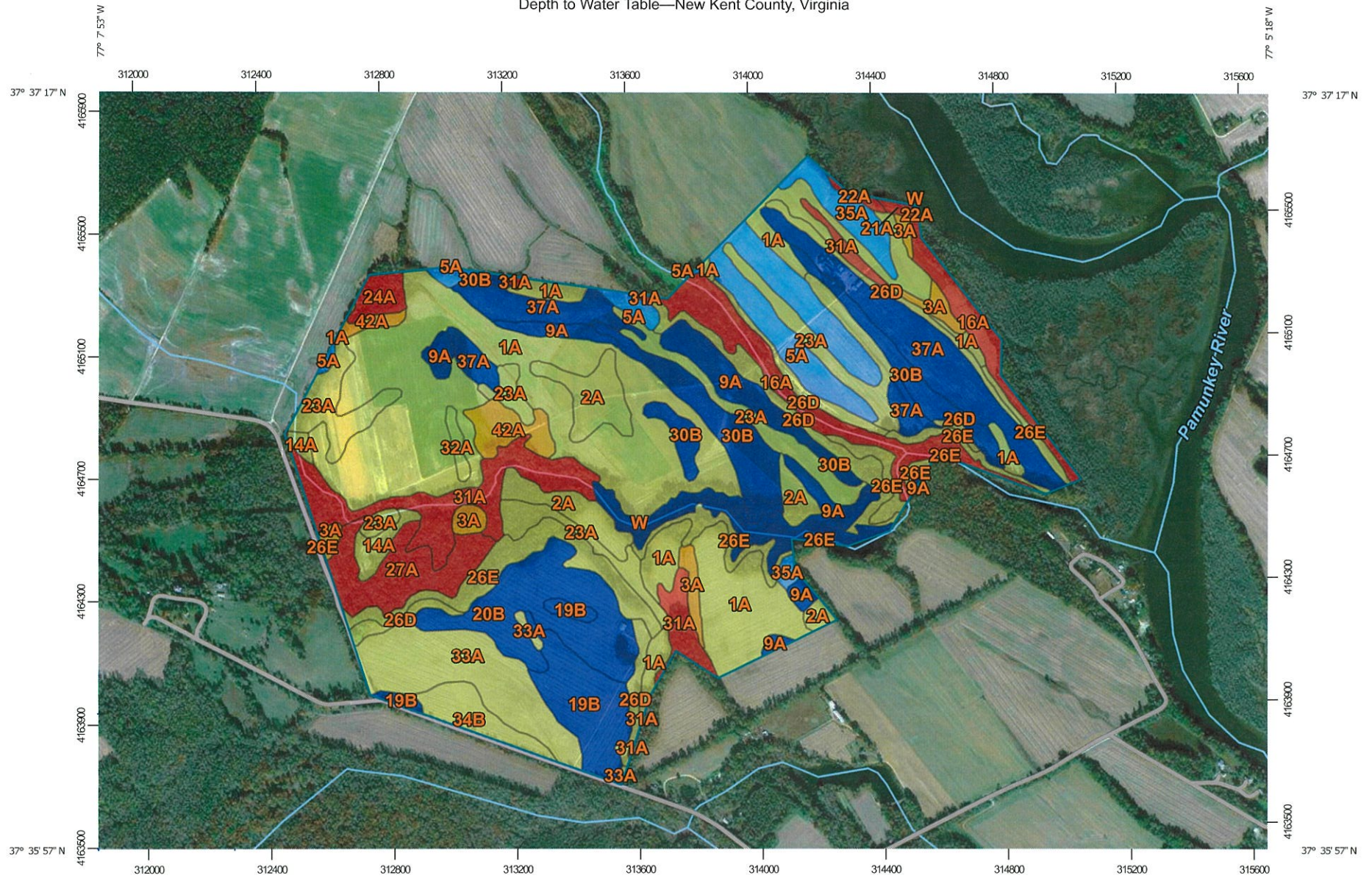
## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1A	Altavista fine sandy loam, 0 to 2 percent slopes	166.2	23.2%
2A	Altavista-Dogue complex, 0 to 2 percent slopes	26.0	3.6%
3A	Augusta fine sandy loam, 0 to 2 percent slopes	10.8	1.5%
5A	Bojac loamy sand, 0 to 2 percent slopes	34.2	4.8%
9A	Conetoe loamy sand, 0 to 4 percent slopes	25.6	3.6%
14A	Dragston fine sandy loam, 0 to 2 percent slopes	5.7	0.8%
16A	Johnston mucky loam, 0 to 2 percent slopes, frequently flooded	33.9	4.7%
19B	Kempsville-Emporia complex, 2 to 6 percent slopes	24.5	3.4%
20B	Kempsville-Suffolk complex, 2 to 6 percent slopes	35.8	5.0%
21A	Lanexa mucky silty clay, 0 to 1 percent slopes, frequently flooded	1.0	0.1%
22A	Mattan muck, 0 to 1 percent slopes, frequently flooded	1.2	0.2%
23A	Munden sandy loam, 0 to 2 percent slopes	51.1	7.1%
24A	Nawney silt loam, 0 to 2 percent slopes, frequently flooded	5.1	0.7%
26D	Nevarc-Remlik complex, 6 to 15 percent slopes	29.9	4.2%
26E	Nevarc-Remlik complex, 15 to 25 percent slopes	35.1	4.9%
27A	Nimmo fine sandy loam, 0 to 2 percent slopes	21.0	2.9%
30B	Pamunkey fine sandy loam, 2 to 6 percent slopes	37.8	5.3%
31A	Roanoke silt loam, 0 to 2 percent slopes	37.7	5.3%
32A	Seabrook loamy sand, 0 to 2 percent slopes	2.2	0.3%
33A	Slagle fine sandy loam, 0 to 2 percent slopes	34.5	4.8%
34B	Slagle-Emporia complex, 2 to 6 percent slopes	9.7	1.4%

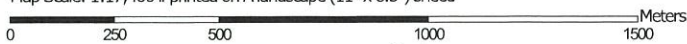


Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
35A	State very fine sandy loam, 0 to 2 percent slopes, rarely flooded	10.8	1.5%
37A	Tarboro loamy sand, 0 to 4 percent slopes	49.2	6.9%
42A	Wahee silt loam, 0 to 2 percent slopes	10.7	1.5%
W	Water	17.8	2.5%
<b>Totals for Area of Interest</b>		<b>717.3</b>	<b>100.0%</b>

Depth to Water Table—New Kent County, Virginia



Map Scale: 1:17,400 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84




Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

4/8/2022  
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### MAP LEGEND

**Area of Interest (AOI)**








 Area of Interest (AOI)

**Soils**







**Soil Rating Polygons**


-  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

 Not rated or not available

**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 1:15,800.

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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 Survey Area Data: Version 14, Sep 14, 2021

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

Date(s) aerial images were photographed: Mar 17, 2016—Nov 22, 2016

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.



## Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
1A	Altavista fine sandy loam, 0 to 2 percent slopes	61	166.2	23.2%
2A	Altavista-Dogue complex, 0 to 2 percent slopes	61	26.0	3.6%
3A	Augusta fine sandy loam, 0 to 2 percent slopes	46	10.8	1.5%
5A	Bojac loamy sand, 0 to 2 percent slopes	153	34.2	4.8%
9A	Conetoe loamy sand, 0 to 4 percent slopes	>200	25.6	3.6%
14A	Dragston fine sandy loam, 0 to 2 percent slopes	53	5.7	0.8%
16A	Johnston mucky loam, 0 to 2 percent slopes, frequently flooded	0	33.9	4.7%
19B	Kempsville-Emporia complex, 2 to 6 percent slopes	>200	24.5	3.4%
20B	Kempsville-Suffolk complex, 2 to 6 percent slopes	>200	35.8	5.0%
21A	Lanexa mucky silty clay, 0 to 1 percent slopes, frequently flooded	0	1.0	0.1%
22A	Mattan muck, 0 to 1 percent slopes, frequently flooded	0	1.2	0.2%
23A	Munden sandy loam, 0 to 2 percent slopes	61	51.1	7.1%
24A	Nawney silt loam, 0 to 2 percent slopes, frequently flooded	8	5.1	0.7%
26D	Nevarc-Remlik complex, 6 to 15 percent slopes	69	29.9	4.2%
26E	Nevarc-Remlik complex, 15 to 25 percent slopes	69	35.1	4.9%
27A	Nimmo fine sandy loam, 0 to 2 percent slopes	15	21.0	2.9%
30B	Pamunkey fine sandy loam, 2 to 6 percent slopes	>200	37.8	5.3%



Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
31A	Roanoke silt loam, 0 to 2 percent slopes	15	37.7	5.3%
32A	Seabrook loamy sand, 0 to 2 percent slopes	92	2.2	0.3%
33A	Slagle fine sandy loam, 0 to 2 percent slopes	69	34.5	4.8%
34B	Slagle-Emporia complex, 2 to 6 percent slopes	69	9.7	1.4%
35A	State very fine sandy loam, 0 to 2 percent slopes, rarely flooded	153	10.8	1.5%
37A	Tarboro loamy sand, 0 to 4 percent slopes	>200	49.2	6.9%
42A	Wahee silt loam, 0 to 2 percent slopes	31	10.7	1.5%
W	Water	>200	17.8	2.5%
<b>Totals for Area of Interest</b>			<b>717.3</b>	<b>100.0%</b>

## 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

**Randolph  
Tract T-1096  
Field Data Sheet**

Field	Total	Tract Coordinates		Field Type
	Acres	Latitude	Longitude	
1096-2	98.5	37.6049	-77.1154	Row Crop
1096-3	16.2			Row Crop
1096-4	26.8			Row Crop
1096-5	6.0			Row Crop
1096-6	7.4			Row Crop
<b>SUM</b>	<b>154.9</b>			

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



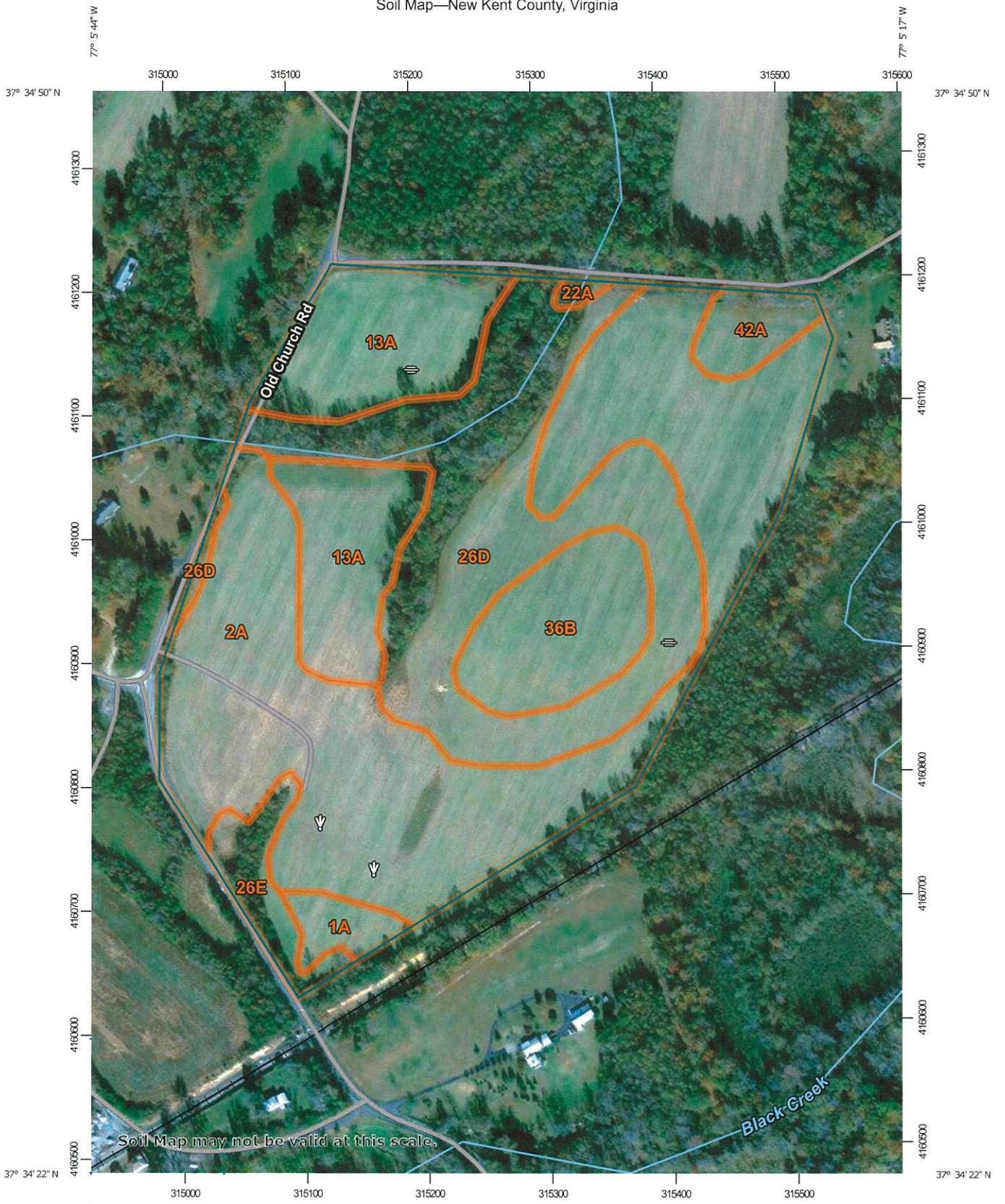
**Randolph  
Tract T-21  
Field Data Sheet**

Field	Total Acres	Tract Coordinates		Field Type
		Latitude	Longitude	
21-1	17.0	37.6128	-77.1146	Row Crop
21-2	7.1			Row Crop
21-3	8.7			Row Crop
21-4	53.3			Row Crop
21-5	20.2			Row Crop
21-6	25.5			Row Crop
21-7	60.3			Row Crop
21-8	76.3			Row Crop
21-9	78.0			Row Crop
21-10	4.9			Row Crop
21-11	3.8			Row Crop
<b>SUM</b>	<b>355.1</b>			

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

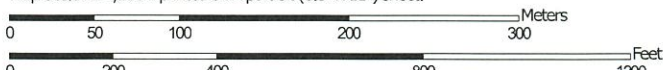


Soil Map—New Kent County, Virginia



Soil Map may not be valid at this scale.

Map Scale: 1:4,260 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84




Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

4/8/2022  
Page 1 of 3

### MAP LEGEND


**Area of Interest (AOI)**

 Area of Interest (AOI)


**Soils**

 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points


**Special Point Features**


 Blowout

 Borrow Pit


 Clay Spot


 Closed Depression

 Gravel Pit

 Gravelly Spot


 Landfill

 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


 Sodic Spot


 Spoil Area

 Stony Spot

 Very Stony Spot

 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 1:15,800.

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)

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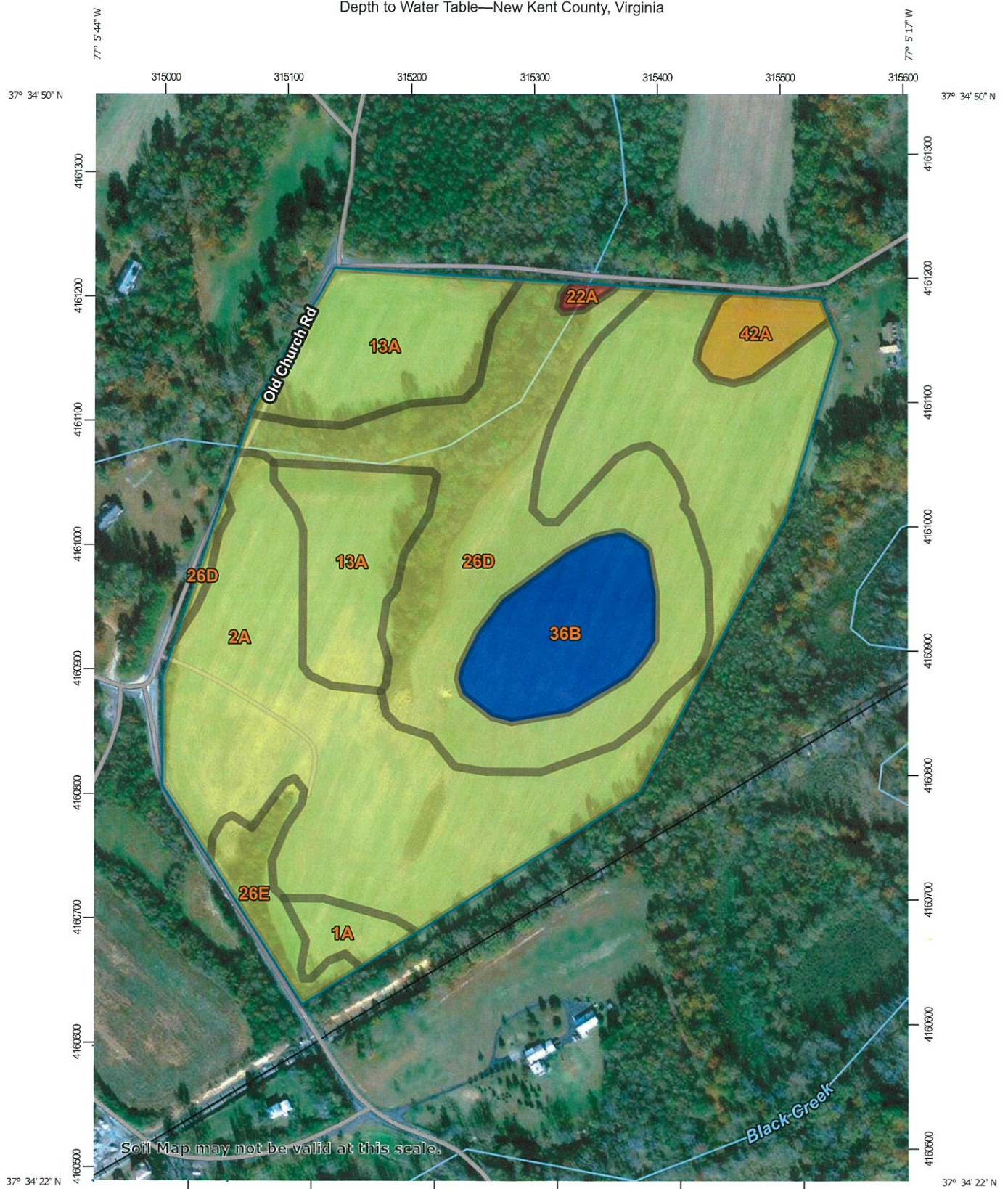
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## Map Unit Legend

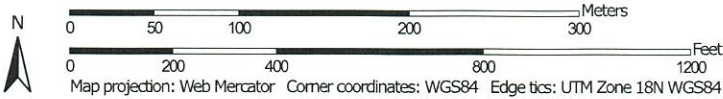
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1A	Altavista fine sandy loam, 0 to 2 percent slopes	0.9	1.8%
2A	Altavista-Dogue complex, 0 to 2 percent slopes	22.6	42.6%
13A	Dogue fine sandy loam, 0 to 2 percent slopes	8.3	15.6%
22A	Mattan muck, 0 to 1 percent slopes, frequently flooded	0.2	0.3%
26D	Nevarc-Remlik complex, 6 to 15 percent slopes	14.0	26.4%
26E	Nevarc-Remlik complex, 15 to 25 percent slopes	1.7	3.1%
36B	Suffolk fine sandy loam, 2 to 6 percent slopes	4.1	7.7%
42A	Wahee silt loam, 0 to 2 percent slopes	1.3	2.4%
<b>Totals for Area of Interest</b>		<b>53.0</b>	<b>100.0%</b>

Depth to Water Table—New Kent County, Virginia



Soil Map may not be valid at this scale.

Map Scale: 1:4,260 if printed on A portrait (8.5" x 11") sheet.
































Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

4/8/2022  
Page 1 of 4



### MAP LEGEND

- Area of Interest (AOI)**
  -  Area of Interest (AOI)
- Soils**
  - Soil Rating Polygons**
    -  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
- Water Features**
  -  Streams and Canals
- Transportation**
  -  Rails
  -  Interstate Highways
  -  US Routes
  -  Major Roads
  -  Local Roads
- Background**
  -  Aerial Photography
-  Not rated or not available

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

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 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
1A	Altavista fine sandy loam, 0 to 2 percent slopes	61	0.9	1.8%
2A	Altavista-Dogue complex, 0 to 2 percent slopes	61	22.6	42.6%
13A	Dogue fine sandy loam, 0 to 2 percent slopes	69	8.3	15.6%
22A	Mattan muck, 0 to 1 percent slopes, frequently flooded	0	0.2	0.3%
26D	Nevarc-Remlik complex, 6 to 15 percent slopes	69	14.0	26.4%
26E	Nevarc-Remlik complex, 15 to 25 percent slopes	69	1.7	3.1%
36B	Suffolk fine sandy loam, 2 to 6 percent slopes	>200	4.1	7.7%
42A	Wahee silt loam, 0 to 2 percent slopes	31	1.3	2.4%
<b>Totals for Area of Interest</b>			<b>53.0</b>	<b>100.0%</b>

### 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



**Randolph  
Tract T-2007  
Field Data Sheet**

Field	Total	Tract Coordinates		Field Type
	Acres	Latitude	Longitude	
2007-1	5.4	37.5767	-77.092	Row Crop
2007-2	48.5			
<b>SUM</b>	<b>53.9</b>			

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