

LAND APPLICATION OF BIOSOLIDS  
DINWIDDIE CORRECTIONAL

T-1504

DINWIDDIE, VIRGINIA

MAY 2024

**NUTRIBLEND INC**  
**DINWIDDIE COUNTY**  
**DINWIDDIE CORRECTIONAL**  
**LOA DATE: 9/21/2020**

[illegible]

NOTE:



# SITE BOOK INFORMATION

COUNTY:	Dinwiddie County - VPA00825	
SITE BOOK NAME:	DINWIDDIE CORRECTIONAL	<b>LOA DATE:</b> 9/21/2020
TRACT NUMBERS:	T-1504	

LATITUDE / LONGITUDE: 37.176 / -77.672 {Determined by Online Maps}

LANDOWNER NAME: Commonwealth Of VA

OPERATORS NAME: Douglas A Reed 14545  
ADDRESS: Old Belfield Road  
Capron, VA 23829  
TELEPHONE #: 757-556-5107

GENERAL FARM TYPE: Agriculture - Hay/Pasture/Row Crop

	DEQ CONTROL #	FIELD ID #	GROSS ACRES	TAX ID #
1	51053-00445-0000	1504-19	2.2	16-39
2	51053-00446-0000	1504-26	36.3	16-39
3	51053-00447-0000	1504-30	25.1	16-39
4	51053-00448-0000	1504-33	10.8	16-39
5	51053-00449-0000	1504-35	10.0	16-39
6	51053-00450-0000	1504-38	45.1	16-39
TOTAL GROSS ACRES			129.5	
TOTAL NUMBER OF FIELDS			6	



# FIELD DATA SHEET

SITE NAME: DINWIDDIE CORR.

TRACT: T-1504

	FIELD #	GROSS ACRES	FIELD TYPE	FIELD COORDINATES		OWNER
				LATITUDE	LONGITUDE	
1	1504-19	2.2	Agriculture	37.176	-77.672	Commonwealth Of Virginia
2	1504-26	36.3	Agriculture	37.176	-77.672	Commonwealth Of Virginia
3	1504-30	25.1	Agriculture	37.176	-77.672	Commonwealth Of Virginia
4	1504-33	10.8	Agriculture	37.176	-77.672	Commonwealth Of Virginia
5	1504-35	10.0	Agriculture	37.176	-77.672	Commonwealth Of Virginia
6	1504-38	45.1	Agriculture	37.176	-77.672	Commonwealth Of Virginia
	<b>TOTAL</b>	129.5				

# 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 9/21/20 between Commonwealth of Virginia 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 Dinwiddie 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
<u>16-39</u>			

☐ 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

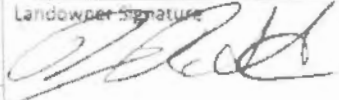
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

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.

Class B biosolids      Water treatment residuals      Food processing waste      Other industrial sludges  
☒ Yes    ☐ No      ☐ Yes    ☒ No      ☐ Yes    ☒ No      ☐ Yes    ☒ No

Printed name <u>Douglas A. Redd</u>	Mailing Address <u>14545 Old D. H. Rd Cameron VA 23829</u>	Landowner Signature 
By: Title <u>Asst. Agri. Business Director</u>	Phone No <u>757-556-5107</u>	
<input 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 checked="" 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 <u>Bill Burnett</u>	Mailing Address <u>PO Box 38060 Henrico VA 23231</u>	Permittee Authorized Representative Signature <u>Bill Burnett</u>
Title <u>Office Manager</u>	Phone No <u>804-222-7514</u>	

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

Permittee: Nutri - Blend County or City: Dinwiddie  
Landowner: Commonwealth of Virginia

**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 36 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
  - a. 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).

Landowner's Signature

Date

9/21/20

**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: Dinwiddie Correctional

County or City: Dinwiddie County

Please Print

(Landowner signatures are not required on this

<u>Tax Parcel ID(s)</u>	<u>Landowner(s)</u>
16-39	Commonwealth Of Virginia



1 INCH = 1,000 FT.

Disclaimer: Information shown on these maps are derived from public records that are constantly undergoing change and do not replace a site survey, and is not warranted for content or accuracy. The County does not guarantee the positional or thematic accuracy of the GIS data. The GIS data or cartographic digital files are not legal representation of any of the features in which it depicts, and disclaims any assumption of the legal status of which it represents.

5/10/2024





Location

0

City, State, Zip

Tax Map #

16/ / 39/ /

Acct#

2364

Owner

COMMONWEALTH OF VIRGINIA

Class

STATE GOVT

Assessment

\$4,016,700

PID

10325

Building Count

4

Legal Description

DEPT OF CORRECTIONS  
CONVICT CAMP 27 16-39

Mines & Minerals

Conserv Ease

District

01: ROHOIC

Current Value

Assessment			
Valuation Year	Improvements	Land	Total
2024	\$2,937,800	\$1,078,900	\$4,016,700

Parcel Addresses

Additional Addresses
No Additional Addresses available for this parcel

Owner of Record

Owner	COMMONWEALTH OF VIRGINIA	Sale Price	\$0
Co-Owner		Year	0
Address	P O BOX 11104	Book & Page	0/0
	RICHMOND, VA 23230	Sale Date	02/17/2022


Ownership History

Ownership History					
Owner	Sale Price	Year	Book & Page	Sale Date	Instrument Number
COMMONWEALTH OF VIRGINIA	\$0	0	0/0	02/17/2022	0
CIRCUIT COURT MAP INTEGRATION PROJ.	\$0	1949	0/0	01/01/1900	5/10/2024 80103

Soil Map—Dinwiddie County Area, Virginia  
(Dinwiddie Correctional T-1504)

## 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 1:24,000.

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: Dinwiddie County Area, Virginia

Survey Area Data: Version 10, Aug 25, 2023

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

Date(s) aerial images were photographed: May 19, 2022—Jul 12, 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.

# Soil Map—Dinwiddie County Area, Virginia (Dinwiddie Correctional T-1504)



**Natural Resources  
Conservation Service**

dinwiddie Correctional  
National Cooperative Soil Survey

5/16/2024  
Page 1 of 3

## Map Unit Legend


Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2B	Appling sandy loam, 2 to 7 percent slopes	71.2	54.6%
2C	Appling sandy loam, 7 to 15 percent slopes	53.7	41.1%
2D	Appling sandy loam, 15 to 25 percent slopes	5.5	4.2%
4B	Cecil sandy loam, 2 to 7 percent slopes	0.0	0.0%
W	Water	0.1	0.1%
<b>Totals for Area of Interest</b>		<b>130.5</b>	<b>100.0%</b>



Depth to Water Table—Dinwiddie County Area, Virginia  
(Dinwiddie Correctional T-1504)

## 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 1:24,000.

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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)

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.

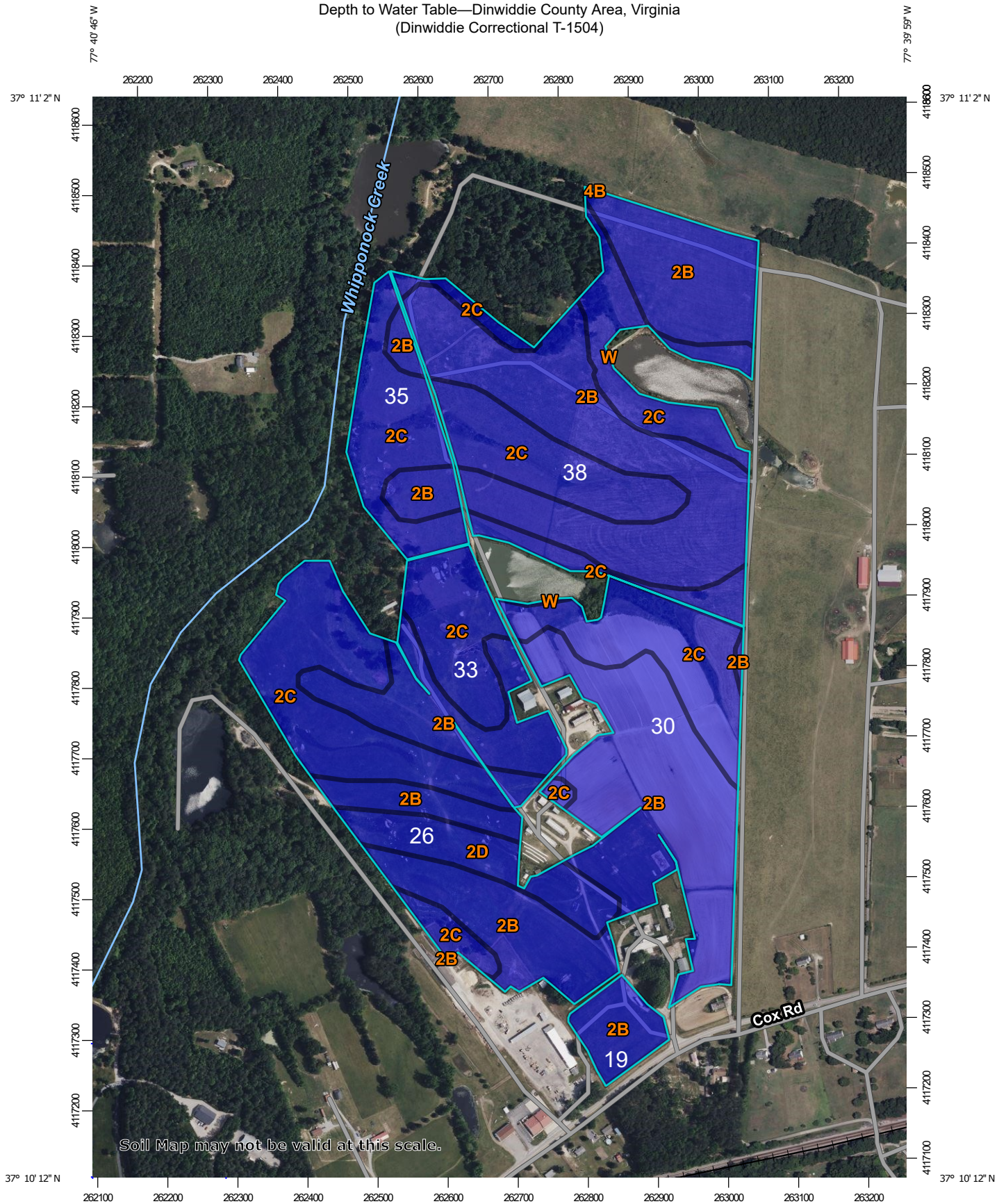
Soil Survey Area: Dinwiddie County Area, Virginia  
Survey Area Data: Version 10, Aug 25, 2023

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

Date(s) aerial images were photographed: May 19, 2022—Jul 12, 2022

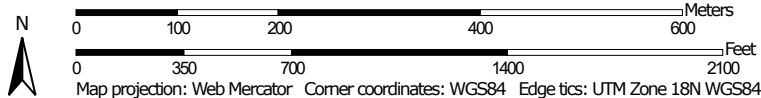
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Depth to Water Table—Dinwiddie County Area, Virginia  
(Dinwiddie Correctional T-1504)



Soil Map may not be valid at this scale.

Map Scale: 1:7,480 if printed on A portrait (8.5" x 11") sheet.



Natural Resources  
Conservation Service

dinwiddie Correctional  
National Cooperative Soil Survey

5/16/2024  
Page 1 of 3

## Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
2B	Appling sandy loam, 2 to 7 percent slopes	>200	71.2	54.6%
2C	Appling sandy loam, 7 to 15 percent slopes	>200	53.7	41.1%
2D	Appling sandy loam, 15 to 25 percent slopes	>200	5.5	4.2%
4B	Cecil sandy loam, 2 to 7 percent slopes	>200	0.0	0.0%
W	Water	>200	0.1	0.1%
<b>Totals for Area of Interest</b>			<b>130.5</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



# Map Legend



**House / Occupied Dwelling with a well**

- 200' buffer - dwelling (with conditions for reduction)
- 100' buffer - well



**Well / Spring**

- 100' buffer



**Rock / Limestone Outcrop**

- 25' buffer - rock outcrop
- 50' buffer - limestone outcrop



**Sink Hole**

- 100' buffer



**Water (surface)**

- 35' w/ vegetative buffer; 100' w/out vegetative buffer



**Publicly Accessible Site**

- 200' buffer Publicly Accessible Site Property line
- 400' buffer Odor Sensitive Site



**Slope which exceeds 15%**



**Stream / River**

- 35' w/ vegetative buffer; 100' w/out vegetative buffer



**Agricultural / Drainage Ditch**

- 10' buffer



**Roadway**

- 10' improved highway buffer



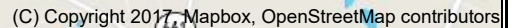
**Field Boundary**



**Property Line**

- 100' buffer unless waiver issued



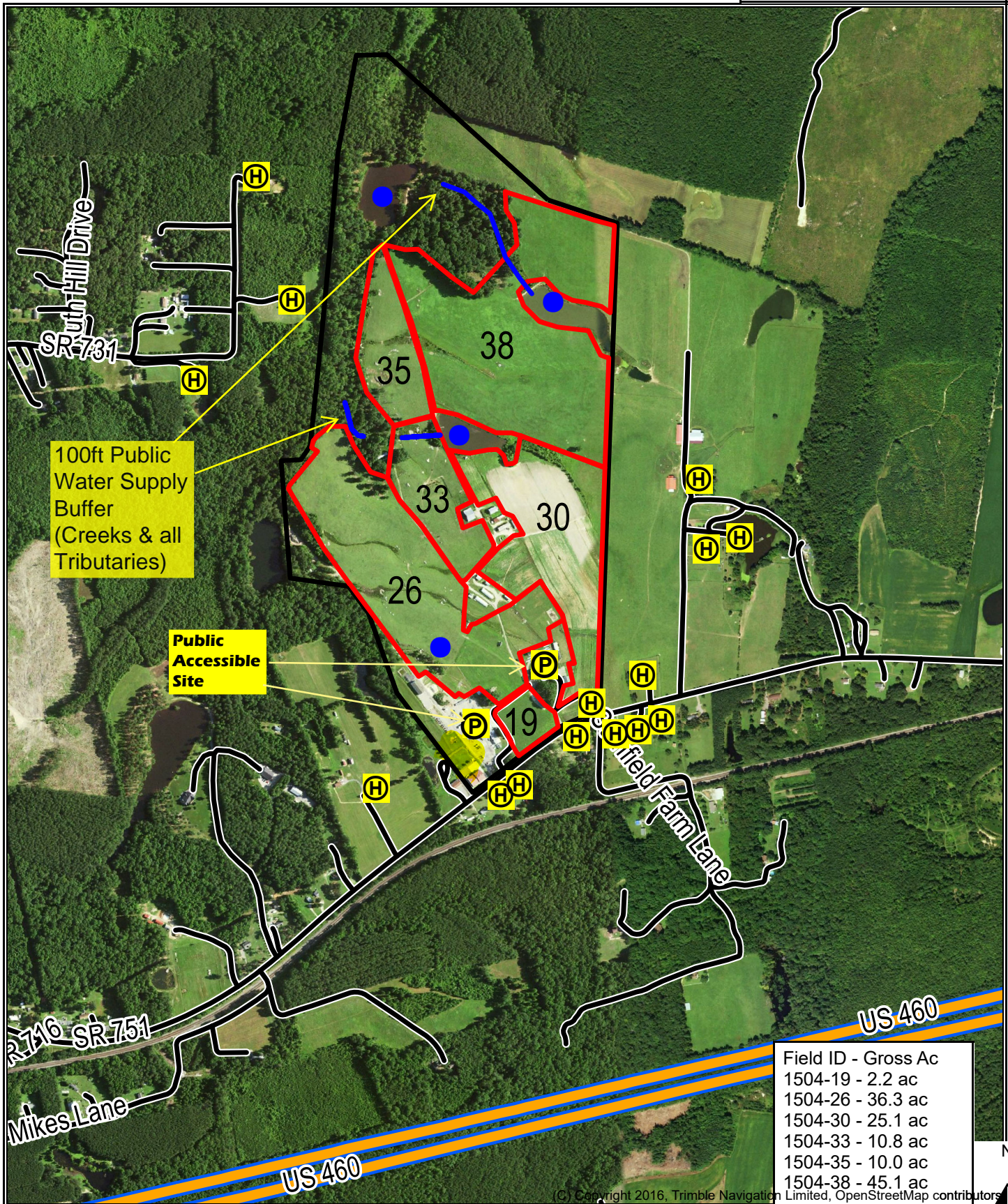


1 inch = 6,018 ft.

5/10/2024







1:12,000

AERIAL MAP  
dinwiddie correctional

1 INCH = 1,000 FT.

5/10/2024

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5/10/2024