Updated 6/7/23

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

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

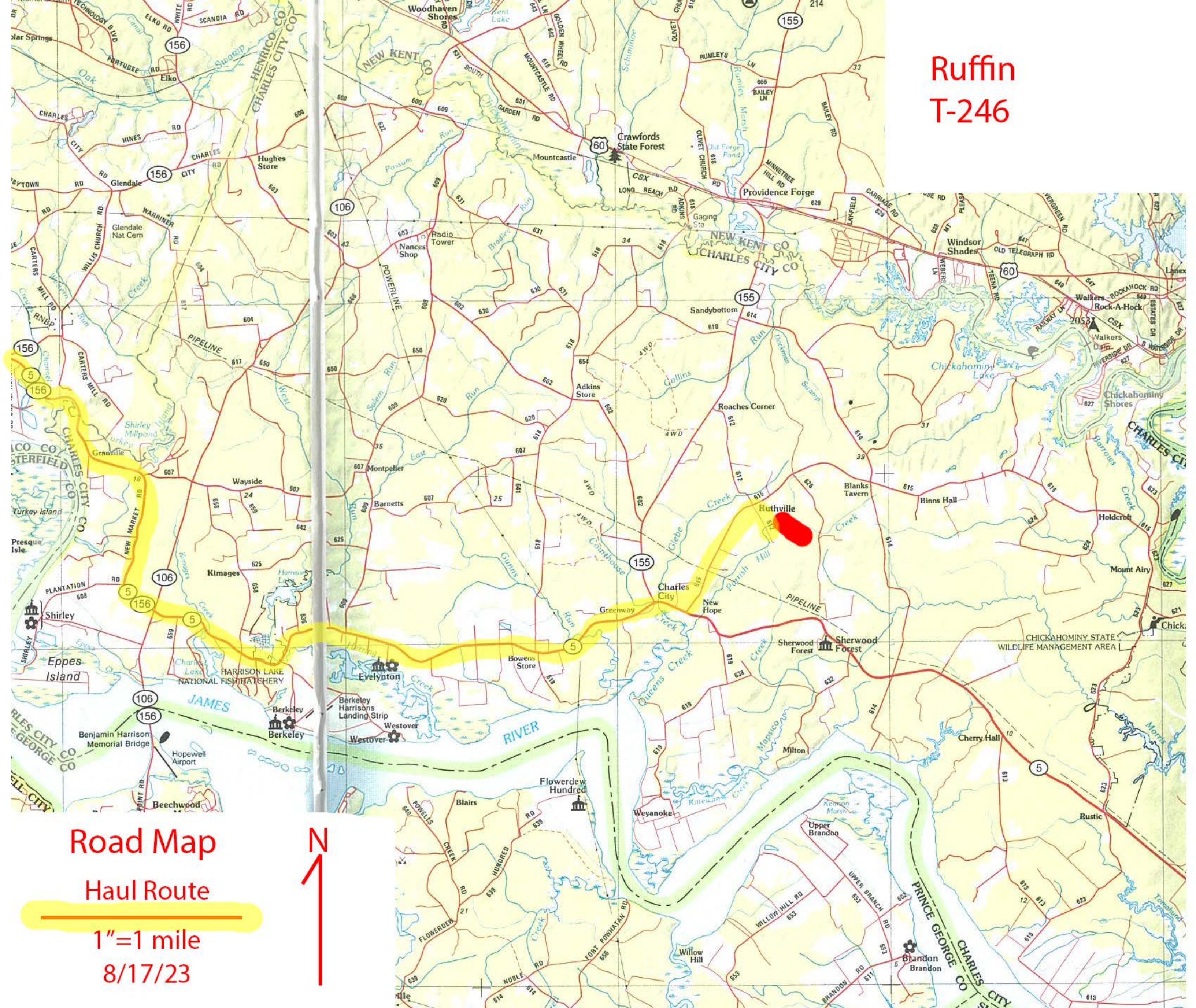
Publicly Accessible Site — 200 ft from Property Line
400 ft from PAS

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

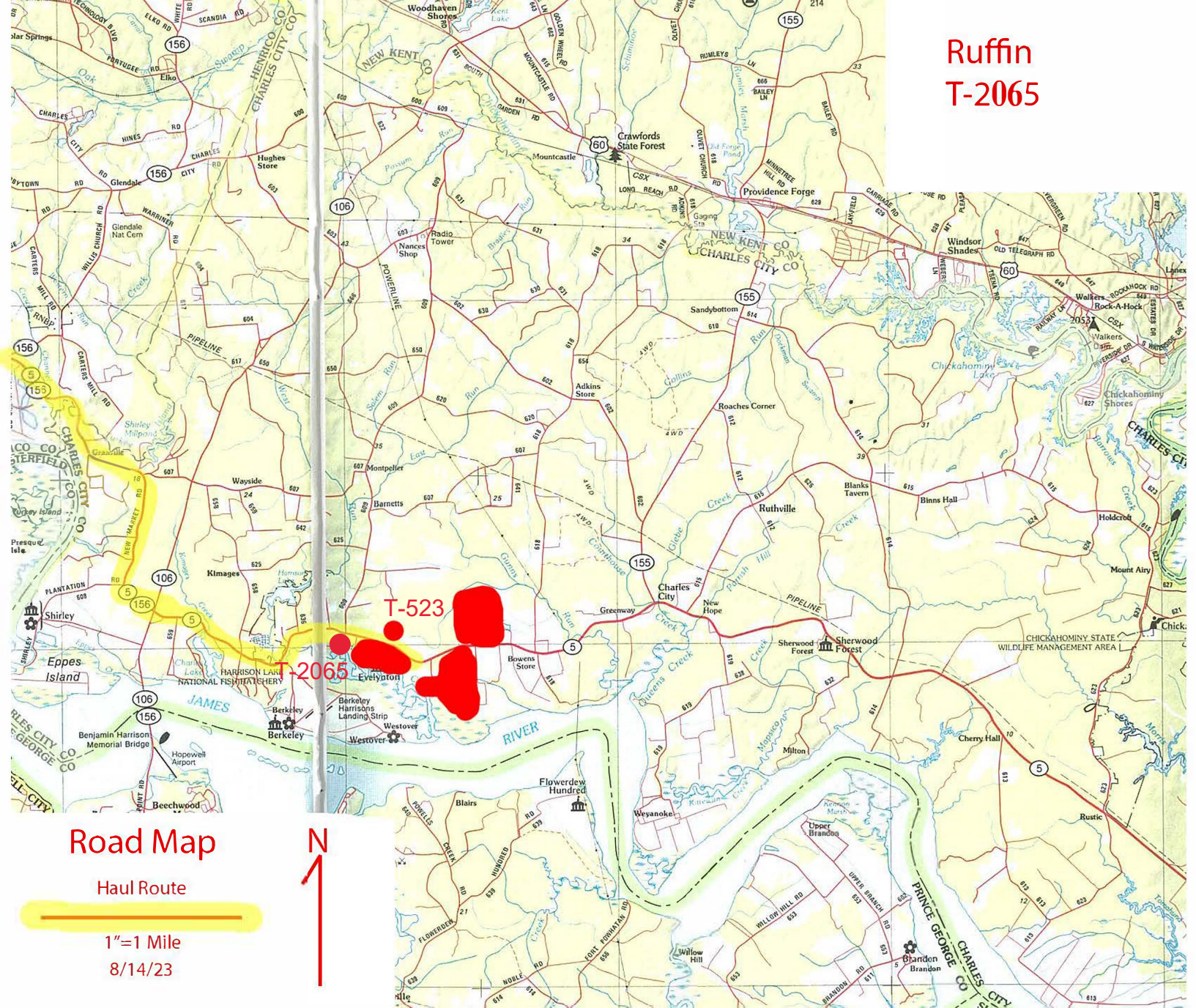
All Improved Roadways — 10 Ft Buffer

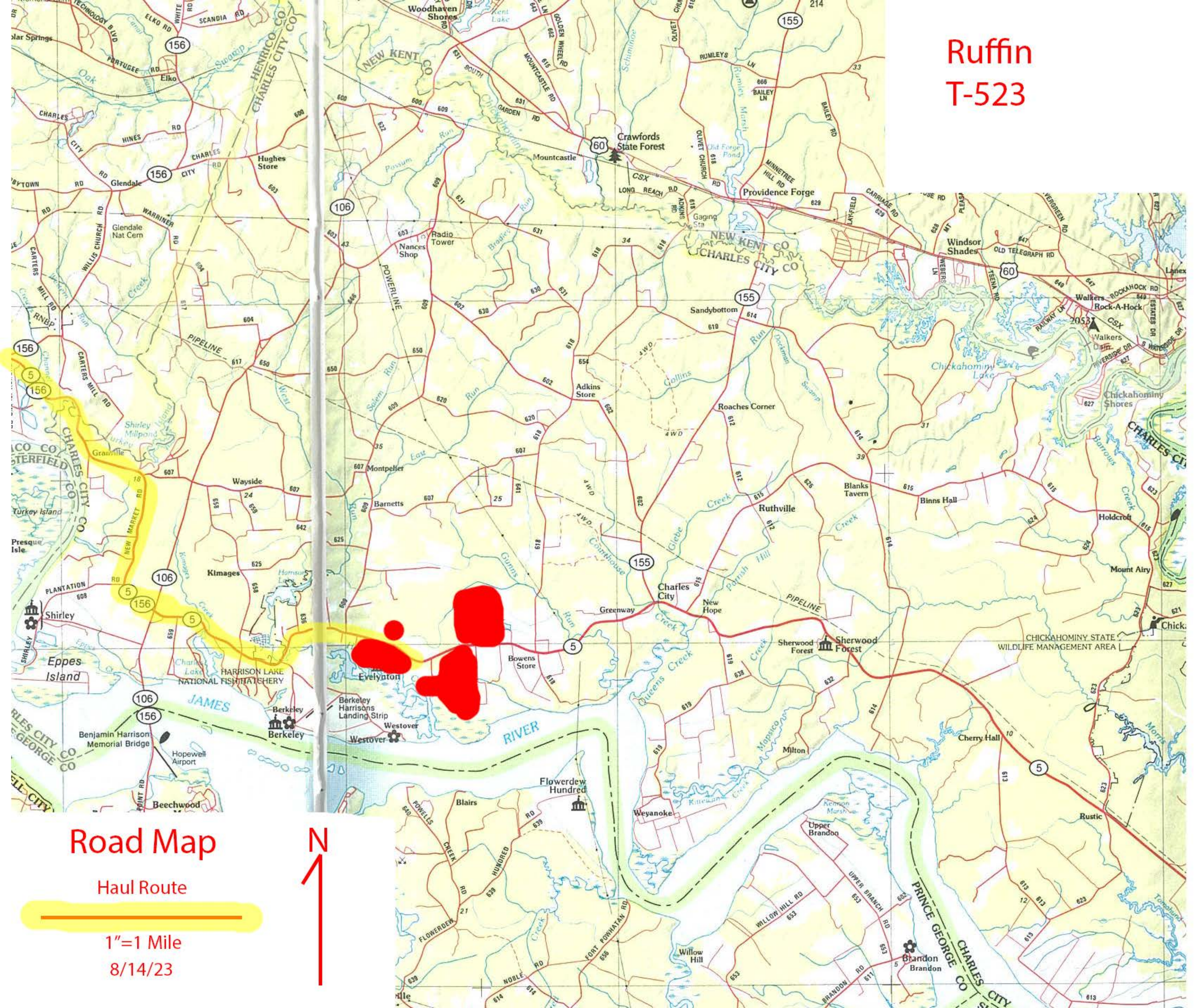
Water Supply Well or Spring — 100 Ft Buffer

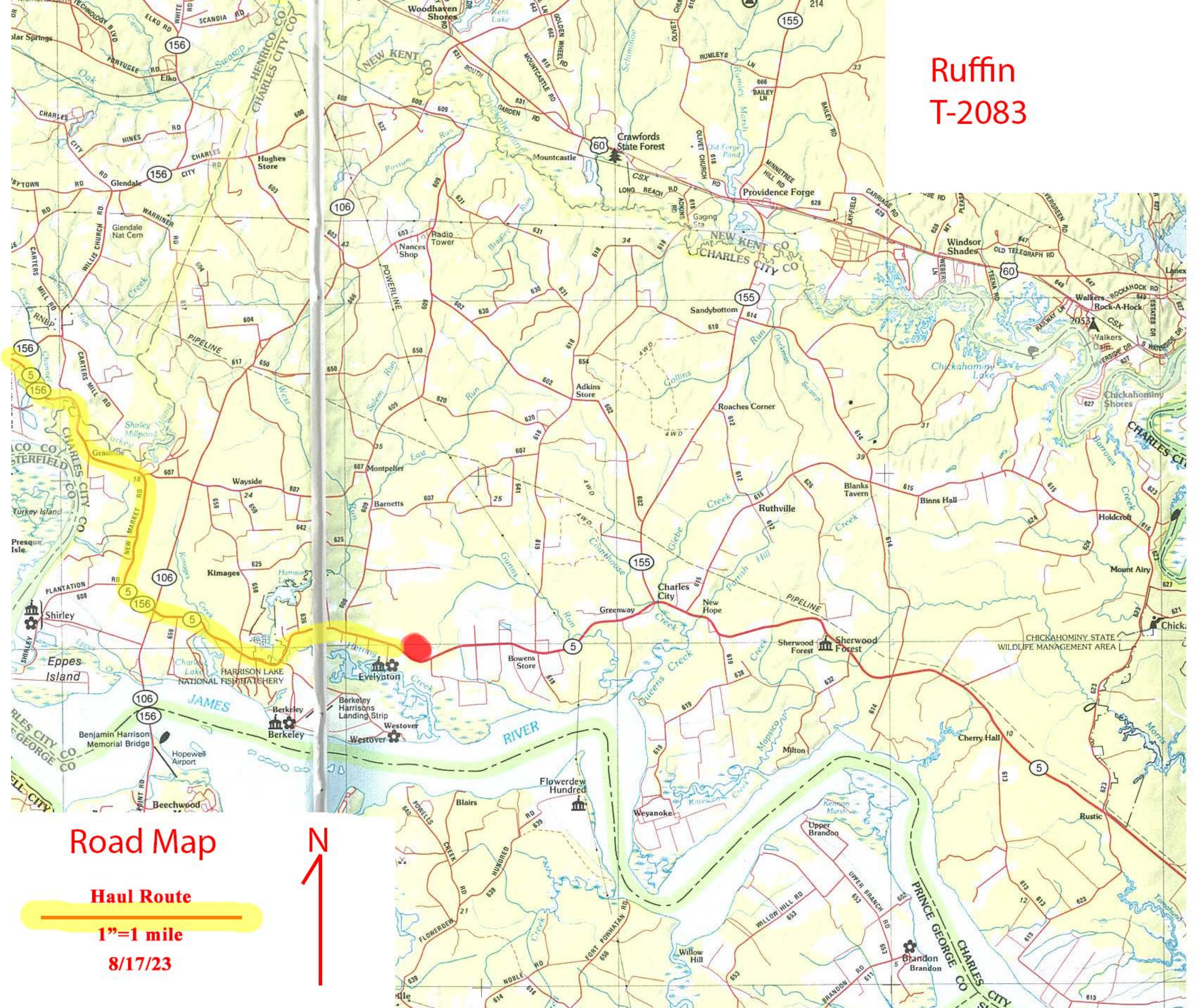
Cemetery

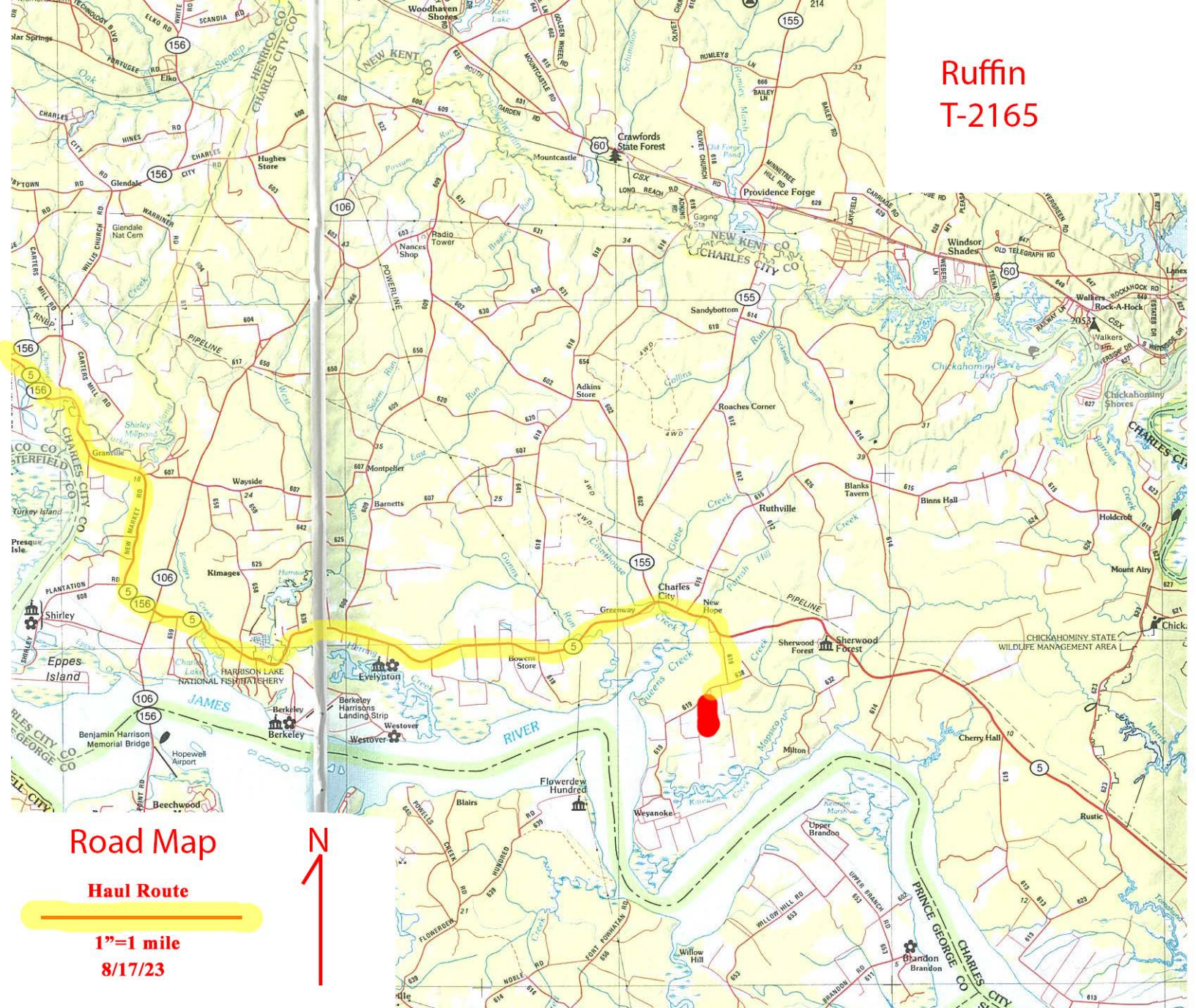


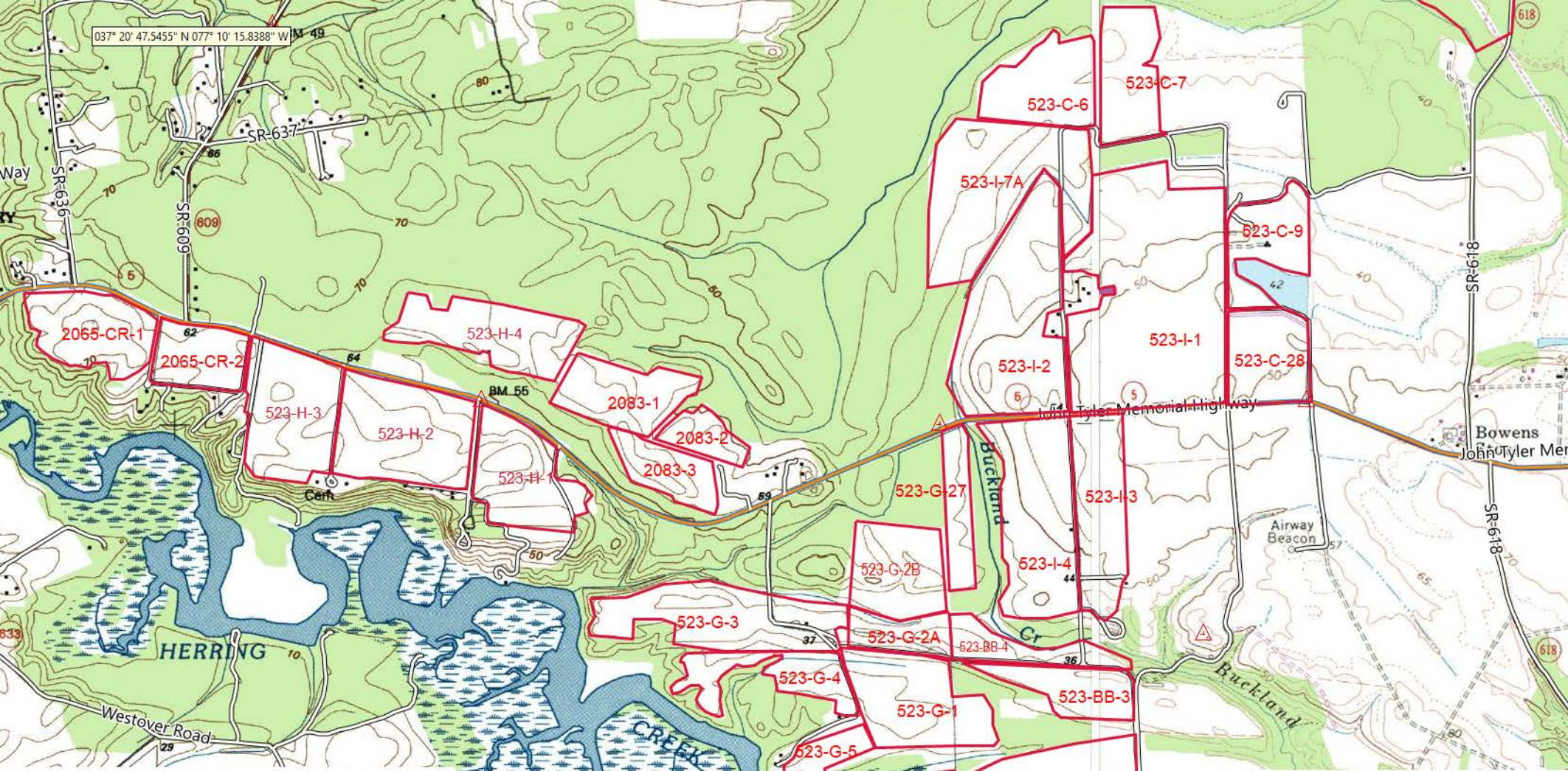
Ruffin
T-246
Road Map
Haul Route
1"=1 mile
8/17/23
N
Ruthville
Charles City
New Hope
Roaches Corner
Sandybottom
Adkins Store
Providence Forge
Crawfords State Forest
Mountcastle
Windsor Shades
Walkers
Rock-A-Hock
Chickahominy Lake
Chickahominy Shores
Blanks Tavern
Binns Hall
Holdcroft
Mount Airy
Sherwood Forest
Greenway
Bowens Store
Evelynton
Berkeley
Westover
Harrison Lake National Fish Hatchery
Kimages
Wayside
Montpelier
Barnetts
Nances Shop
Radio Tower
Glendale
Glendale Nat Cem
Hughes Store
Elko
Granville
Shirley
Shirley Millpond
Turkey Island
Presque Isle
Eppes Island
Benjamin Harrison Memorial Bridge
Hopewell Airport
Beechwood
Flowerdew Hundred
Weyanoke
Milton
Cherry Hall
Rustic
Upper Brandon
Brandon
Willow Hill
Blairs
JAMES RIVER
CHICKAHOMINY STATE WILDLIFE MANAGEMENT AREA
NEW KENT CO
CHARLES CITY CO
HENRICO CO
PRINCE GEORGE CO
PIPELINE
POWERLINE


Ruffin
T-2065
T-523
T-2065
Road Map
Haul Route
1"=1 Mile
8/14/23
N


Ruffin
T-523
Road Map
Haul Route
1"=1 Mile
8/14/23
N
Woodhaven Shores
Kent Lake
NEW KENT CO
Crawfords State Forest
Mountcastle
Providence Forge
Windsor Shades
Walkers
Rock-A-Hock
Chickahominy Lake
Chickahominy Shores
NEW KENT CO
CHARLES CITY CO
HENRICO CO
CHARLES CITY CO
Sandybottom
Adkins Store
Roaches Corner
Nances Shop
Radio Tower
POWERLINE
PIPELINE
Elko
Hughes Store
Glendale
Glendale Nat Cem
Montpelier
Barnetts
Wayside
Granville
Shirley Millpond
Turkey Island
Presque Isle
Kimages
Shirley
Eppes Island
HARRISON LAKE NATIONAL FISH HATCHERY
Evelynton
Berkeley
Berkeley Harrisons Landing Strip
Westover
Bowens Store
Greenway
Charles City
New Hope
Ruthville
Blanks Tavern
Binns Hall
Holdcroft
Mount Airy
Sherwood Forest
CHICKAHOMINY STATE WILDLIFE MANAGEMENT AREA
JAMES RIVER
Benjamin Harrison Memorial Bridge
Hopewell Airport
Beechwood
Flowerdew Hundred
Blairs
Weyanoke
Milton
Cherry Hall
Rustic
Upper Brandon
Willow Hill
Brandon
PRINCE GEORGE CO
CHARLES CITY
Queens Creek
Kittewan Creek
Kennon Marsh


Ruffin
T-2083
Road Map
N
Haul Route
1"=1 mile
8/17/23
JAMES RIVER
Charles City
Providence Forge
Crawfords State Forest
New Kent Co
Charles City Co
Henrico Co
Prince George Co
Chickahominy Lake
Chickahominy State Wildlife Management Area
Harrison Lake National Fish Hatchery
Evelynton
Berkeley
Westover
Shirley
Eppes Island
Benjamin Harrison Memorial Bridge
Hopewell Airport
Flowerdew Hundred
Weyanoke
Sherwood Forest
Bowens Store
Greenway
Ruthville
Roaches Corner
Adkins Store
Sandybottom
Windsor Shades
Walkers
Rock-A-Hock
Glendale
Elko
Hughes Store
Mountcastle
Nances Shop
Montpelier
Barnetts
Wayside
Kimages
Granville
Turkey Island
Presque Isle
Blanks Tavern
Binns Hall
Holdcroft
Mount Airy
Cherry Hall
Rustic
Milton
Upper Brandon
Brandon
Willow Hill
Blairs
Beechwood
New Hope
Chickahominy Shores
PIPELINE
POWERLINE
CSX


Ruffin
T-2165
Road Map
Haul Route
1"=1 mile
8/17/23
N
Woodhaven Shores
Crawfords State Forest
Mountcastle
Providence Forge
Radio Tower
Nances Shop
Sandybottom
Windsor Shades
Rock-A-Hock
Walkers
Chickahominy Lake
Chickahominy Shores
Adkins Store
Roaches Corner
Ruthville
Blanks Tavern
Binns Hall
Holdcroft
Mount Airy
Montpelier
Barnetts
Wayside
Granville
Kimages
Shirley
Eppes Island
Charles City
New Hope
Greenway
Sherwood Forest
CHICKAHOMINY STATE WILDLIFE MANAGEMENT AREA
HARRISON LAKE NATIONAL FISH HATCHERY
Evelynton
Berkeley
Harrisons Landing Strip
Westover
Benjamin Harrison Memorial Bridge
Hopewell Airport
Beechwood
Bowers Store
Milton
Cherry Hall
Rustic
Flowerdew Hundred
Blairs
Weyanoke
Upper Brandon
Willow Hill
Brandon
Glendale
Nat Cem
Hughes Store
Elko
Scandia
Oak Swamp
Turkey Island
Presque Isle
JAMES RIVER
NEW KENT CO
CHARLES CITY CO
HENRICO CO
PRINCE GEORGE CO
PIPELINE
POWERLINE
CSX



Topo Map
Ruffin T-2065
Ruffin T-523

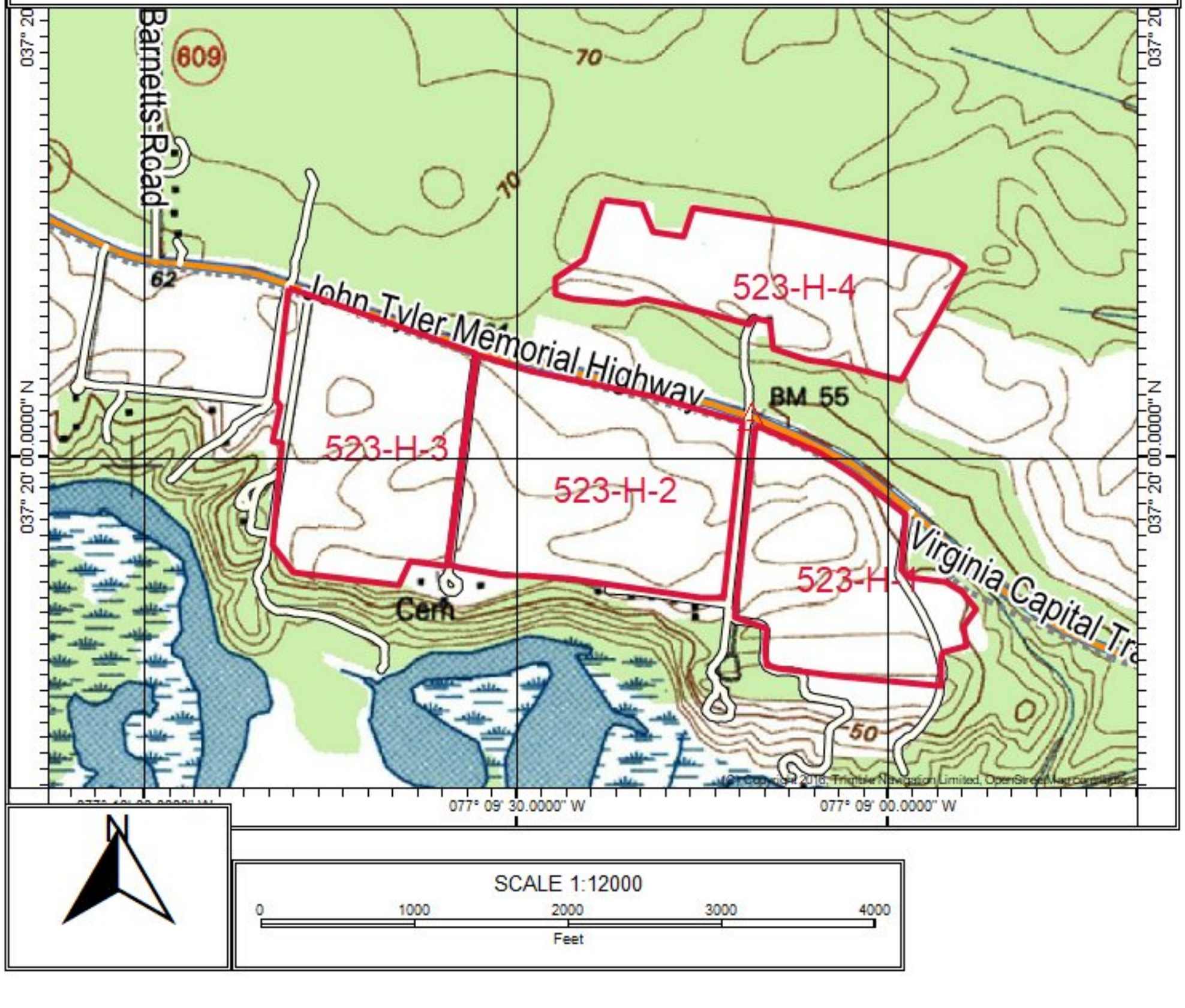
1″=1000 ft

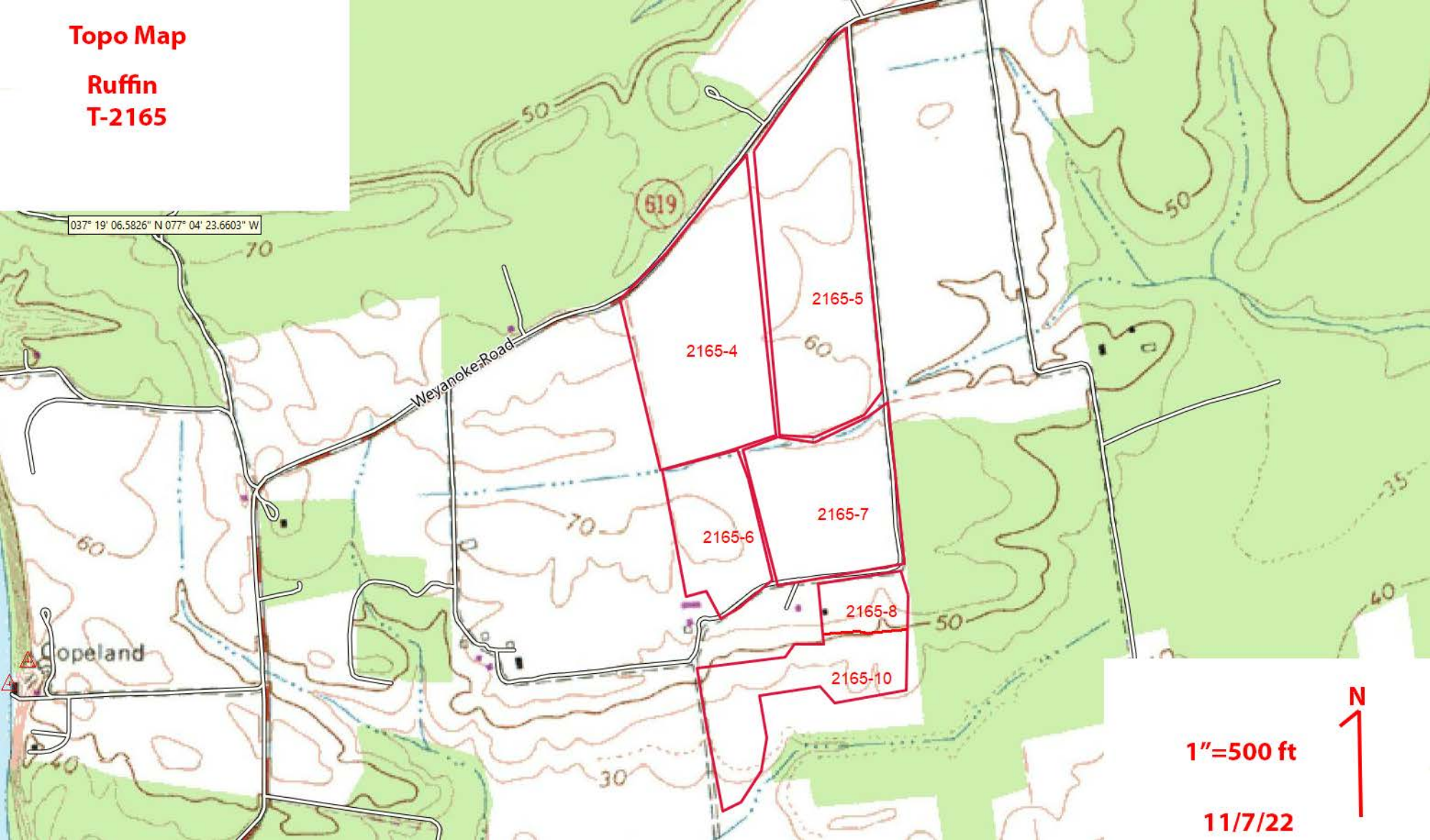
N

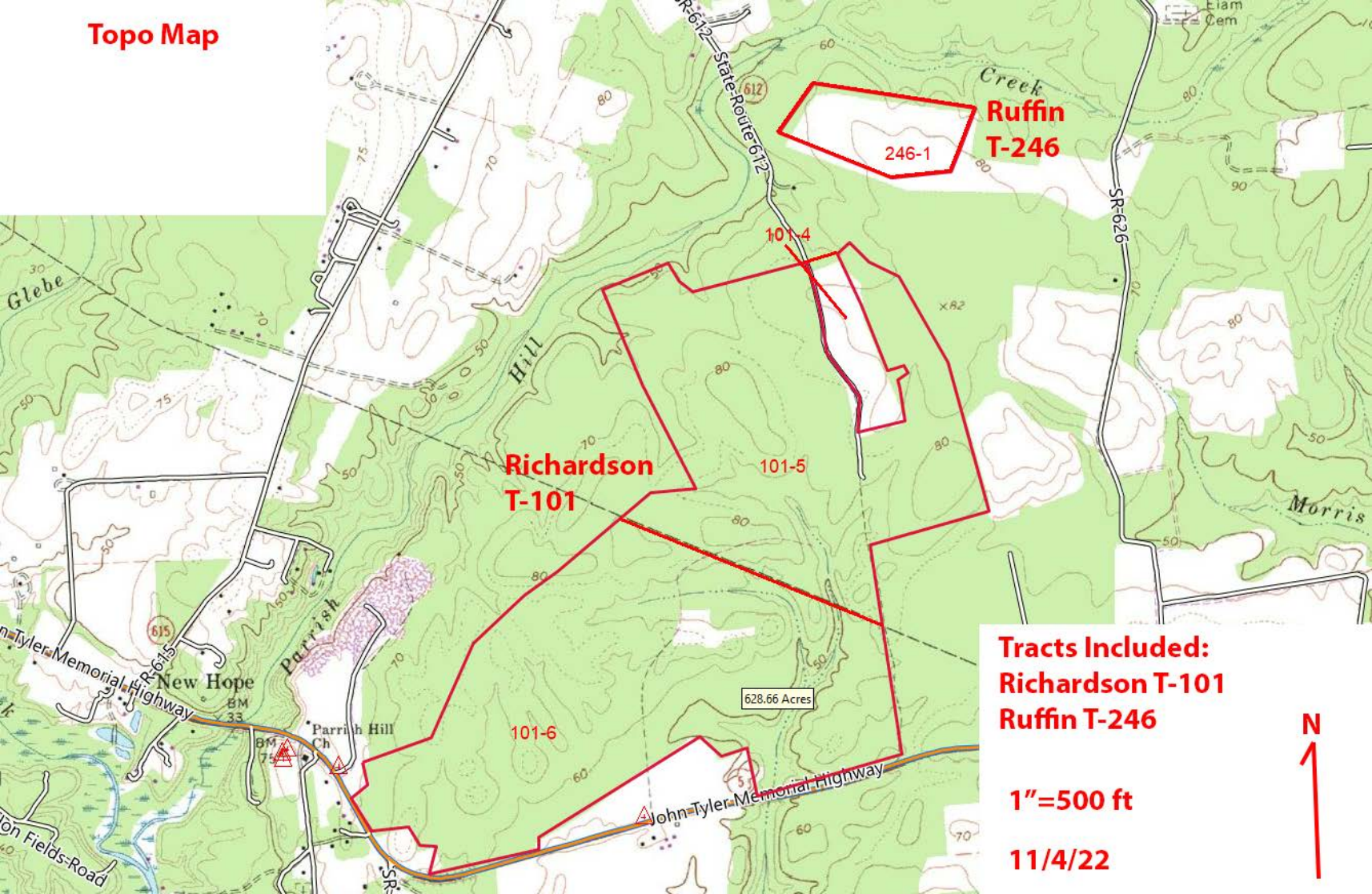
1″=800 ft

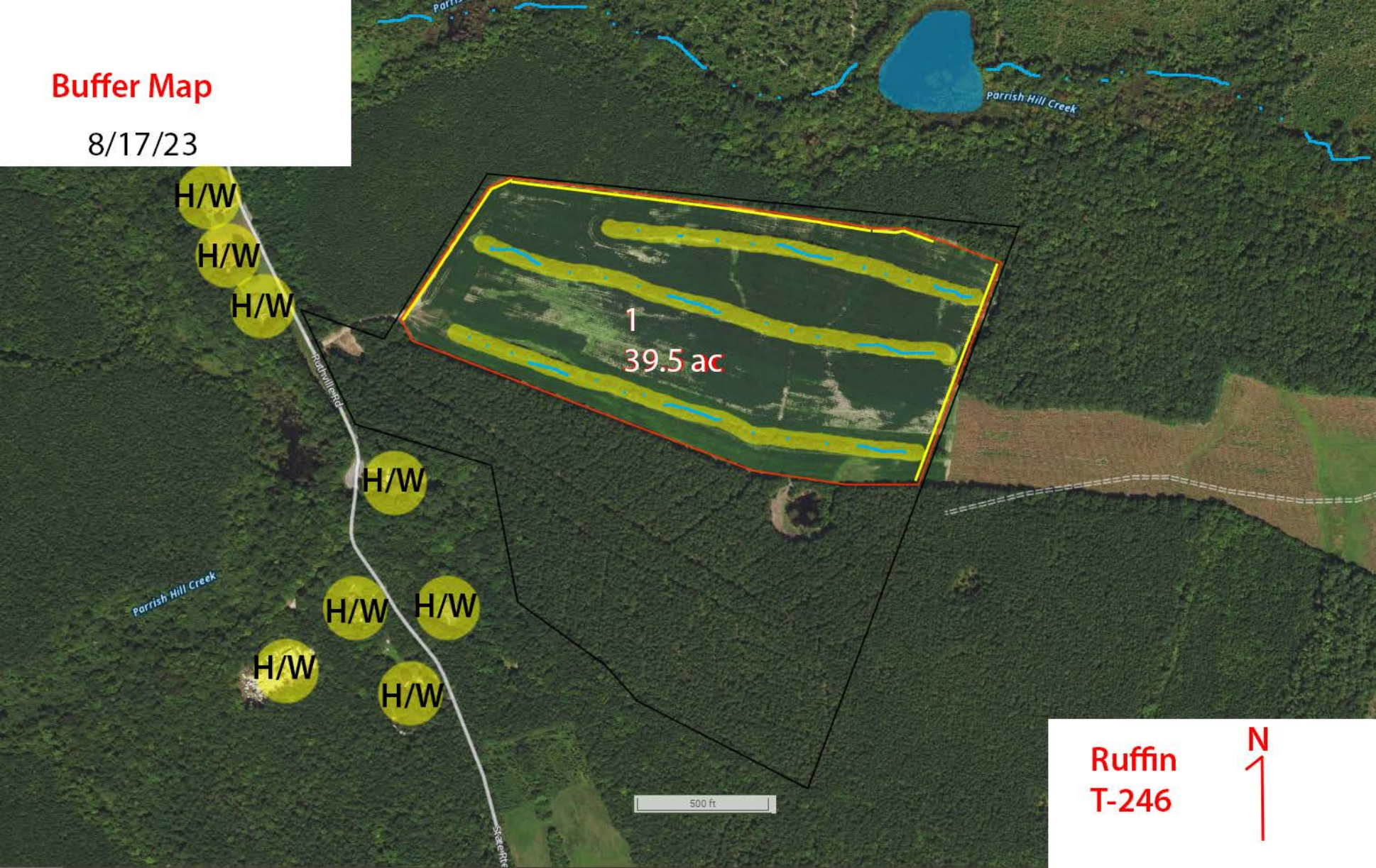
11/4/22

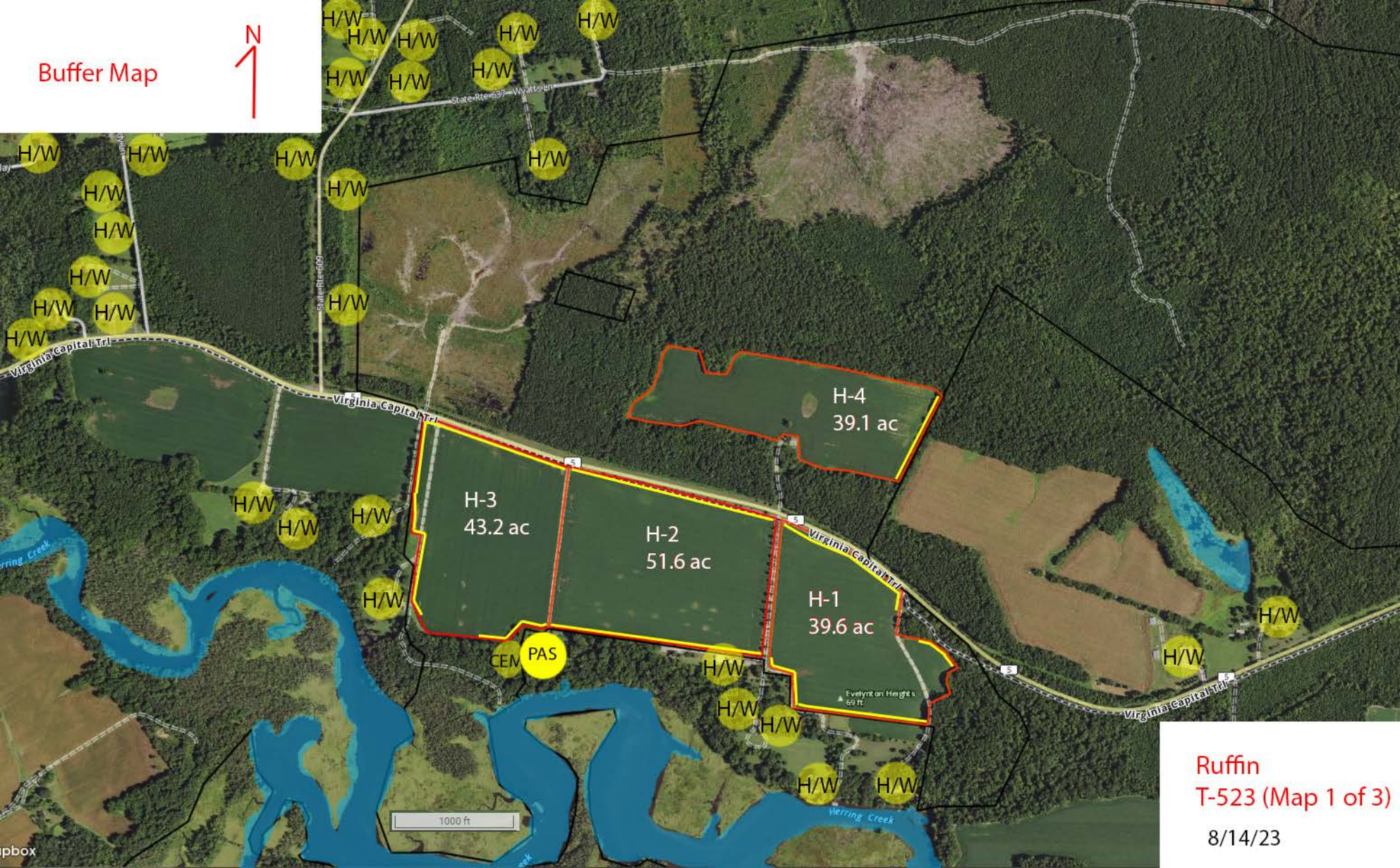
Ruffin T-523
Topo Map
9/9/22



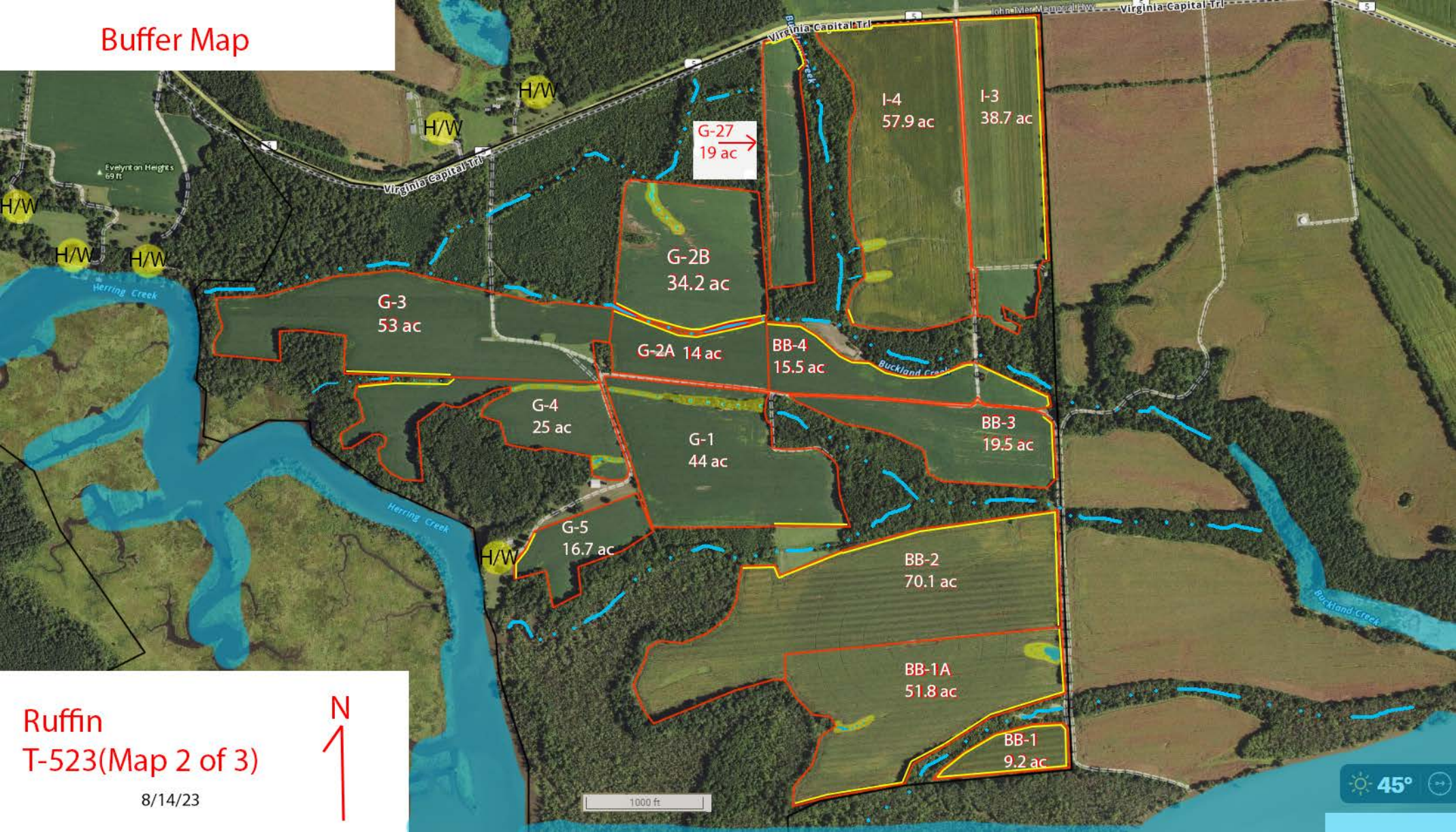

Topo Map
Ruffin
T-2165
037° 19' 06.5826" N 077° 04' 23.6603" W
619
Weyanoke Road
2165-4
2165-5
2165-6
2165-7
2165-8
2165-10
Copeland
50
70
60
30
40
35
N
1"=500 ft
11/7/22


Topo Map
Ruffin
T-246
246-1
101-4
Richardson
T-101
101-5
101-6
628.66 Acres
State Route 612
SR-626
SR-615
John Tyler Memorial Highway
New Hope
Parrish Hill Ch
Glebe
Hill
Parrish
Creek
Morris
Tracts Included:
Richardson T-101
Ruffin T-246
1"=500 ft
11/4/22
N


Buffer Map
8/17/23
H/W
H/W
H/W
H/W
H/W
H/W
H/W
H/W
1
39.5 ac
Parrish Hill Creek
Parrish Hill Creek
Rudulph Rd
500 ft
Ruffin
T-246
N


Buffer Map
N
H-4
39.1 ac
H-3
43.2 ac
H-2
51.6 ac
H-1
39.6 ac
CEM
PAS
H/W
Virginia Capital Trl
State Rte 637 - Wyatts Ln
State Rte 603
Herring Creek
Evelynton Heights
69 ft
1000 ft
Ruffin
T-523 (Map 1 of 3)
8/14/23

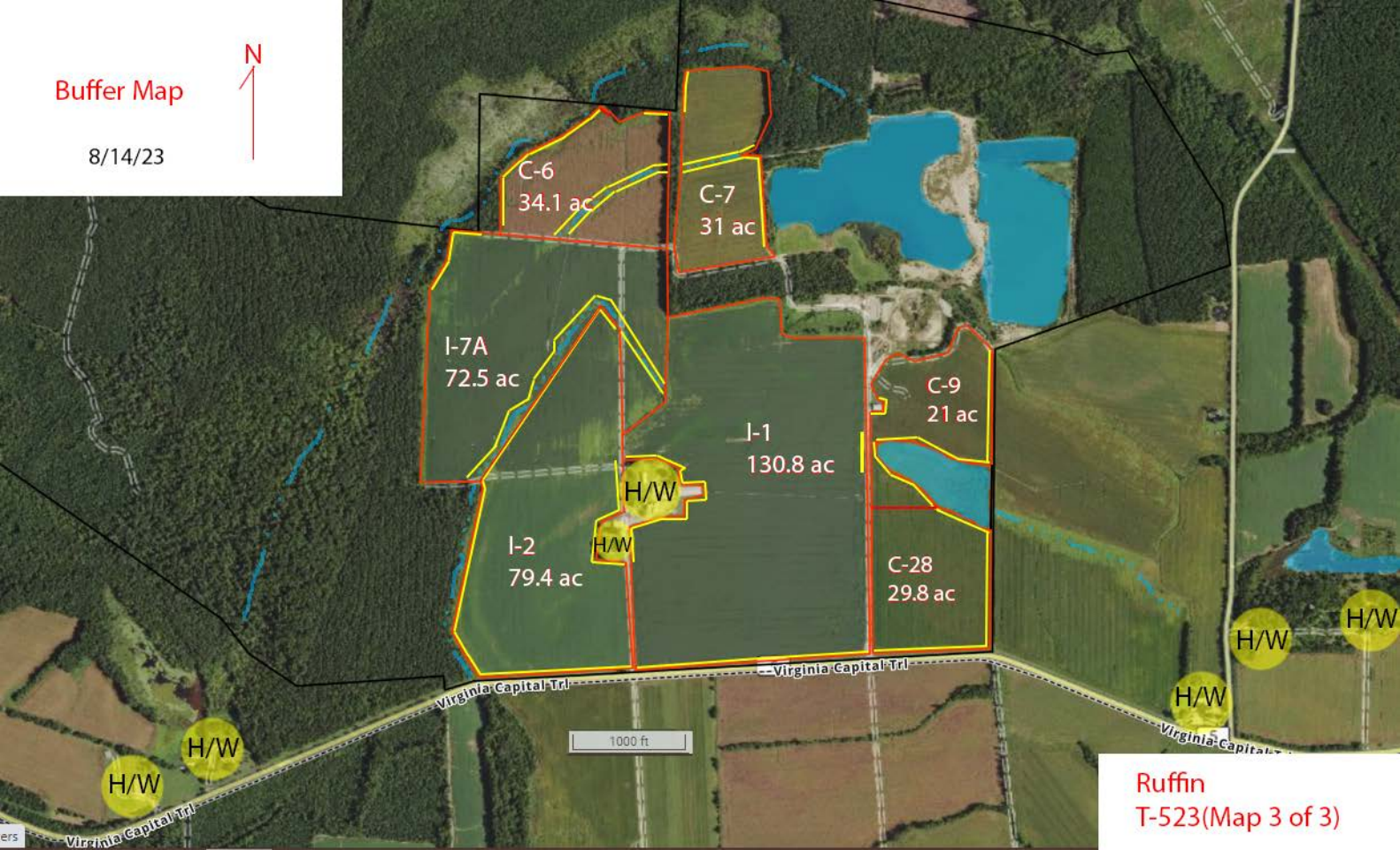
Buffer Map



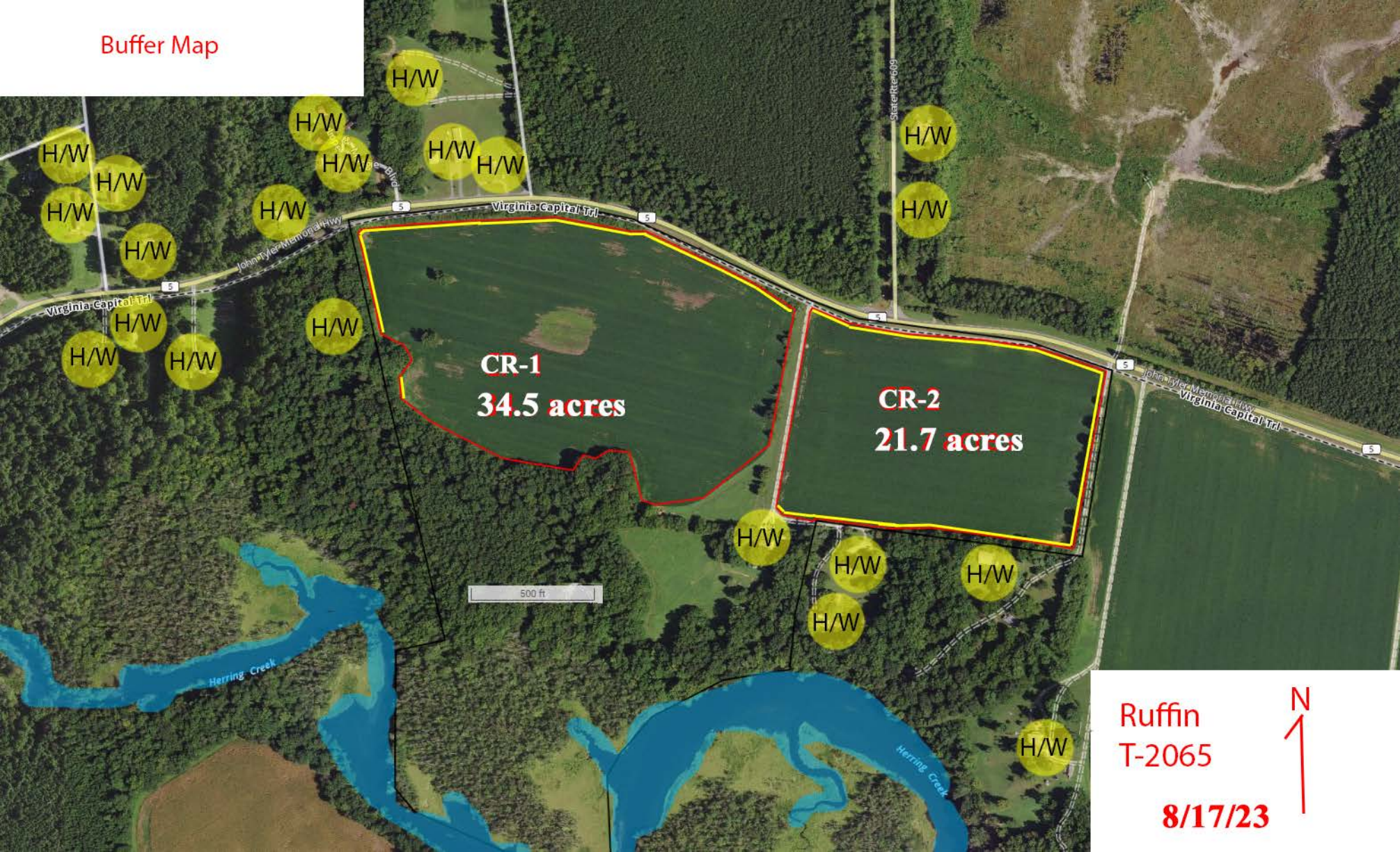
Ruffin
T-523(Map 2 of 3)

8/14/23

N


Buffer Map
8/14/23
N
C-6
34.1 ac
C-7
31 ac
I-7A
72.5 ac
I-1
130.8 ac
C-9
21 ac
I-2
79.4 ac
C-28
29.8 ac
H/W
H/W
H/W
H/W
H/W
H/W
Virginia Capital Trl
Virginia Capital Trl
Virginia Capital Trl
1000 ft
Ruffin
T-523(Map 3 of 3)

Buffer Map


CR-1
34.5 acres
CR-2
21.7 acres
H/W
Virginia Capital Trl
John Tyler Memorial Hwy
State Rte 609
Herring Creek
500 ft
Ruffin
T-2065
N
8/17/23

Buffer Map

8/14/23

N

1
24.2 ac

2
12.6 ac

3
22.2 ac

H/W

Virginia Capital Trl

5

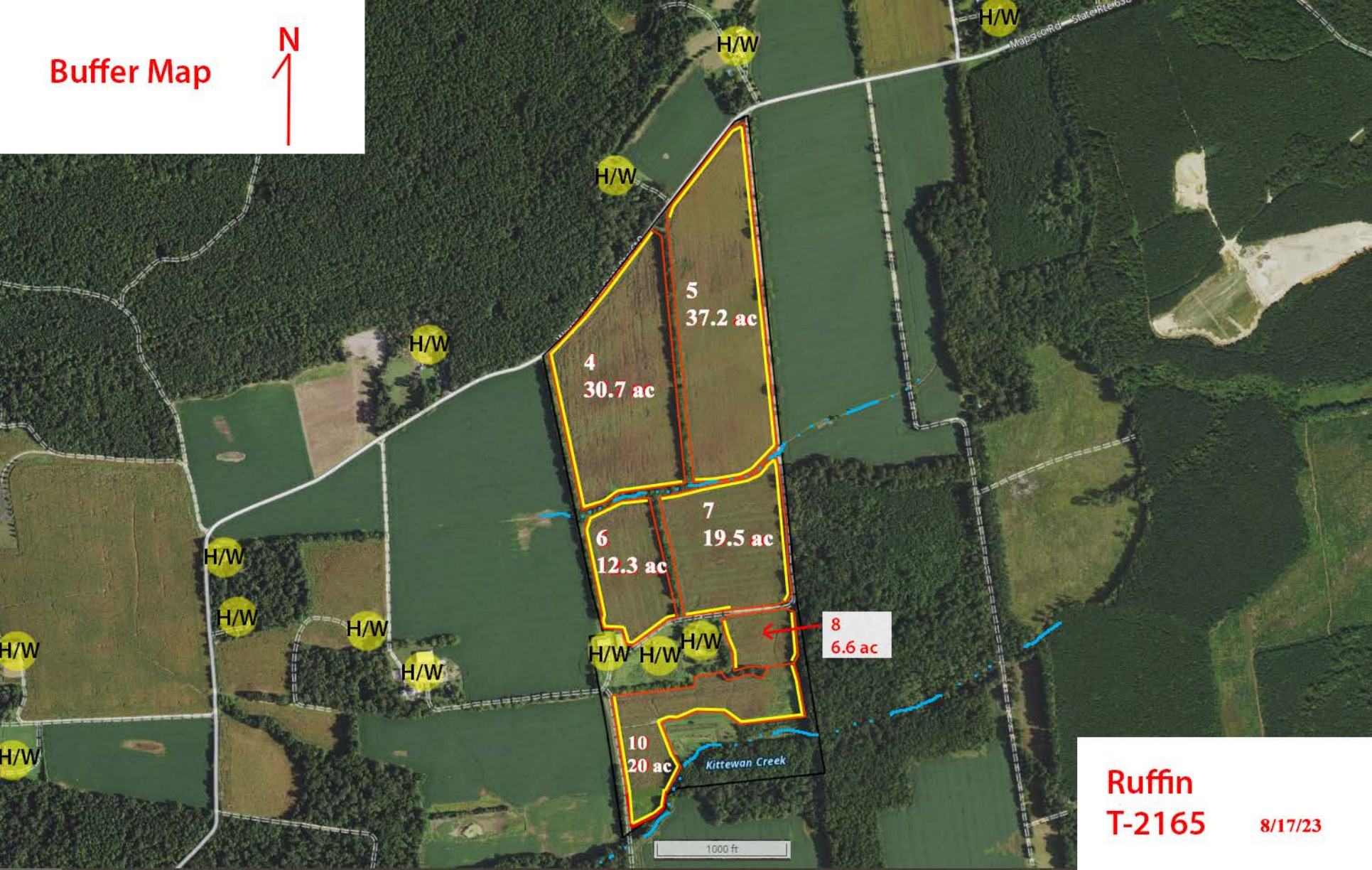
Evelynton Heights
69 ft

Herring Creek

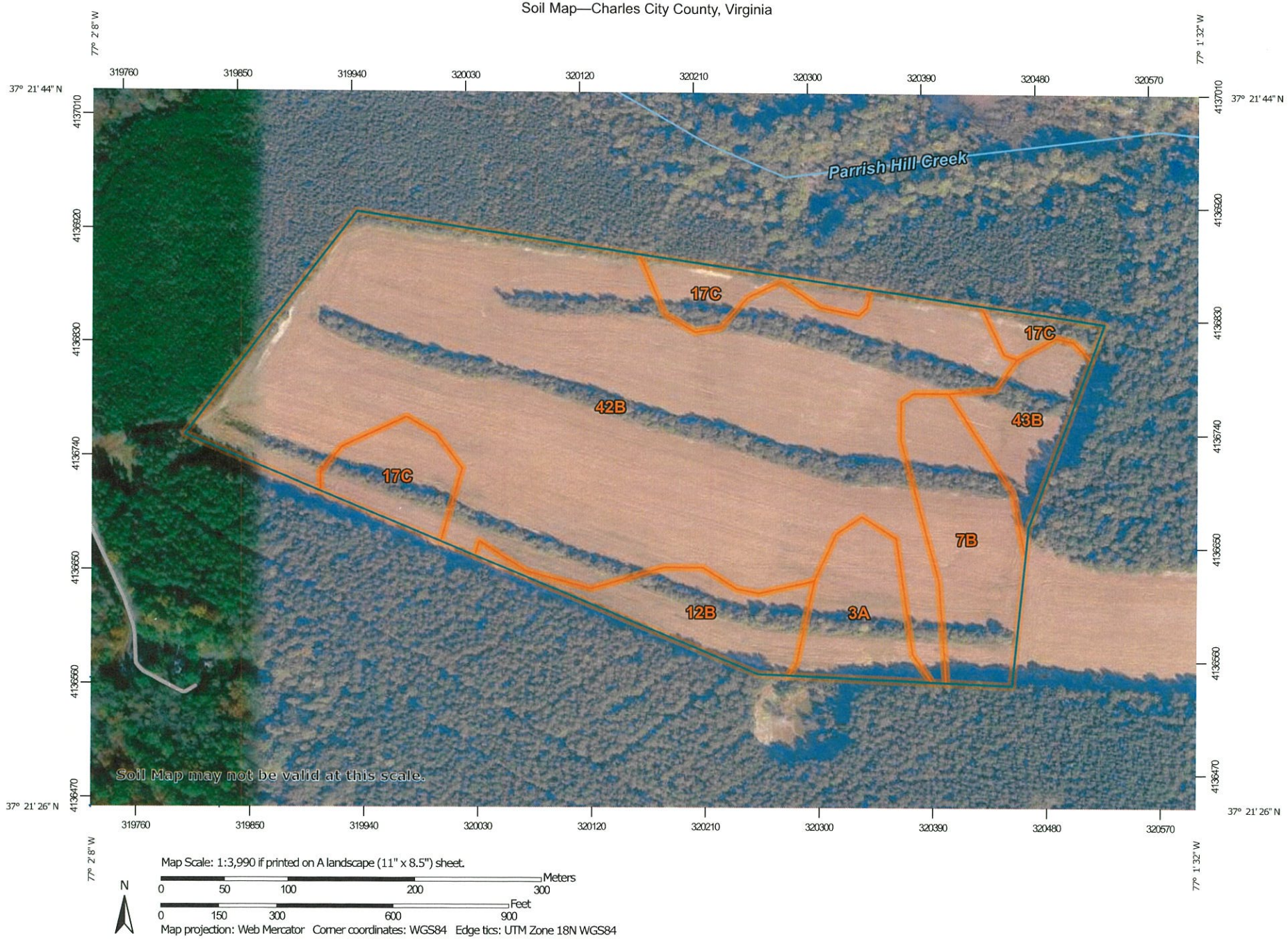
Buckland Creek

500 ft

Ruffin
T-2083


Buffer Map
N
H/W
H/W
H/W
H/W
H/W
H/W
H/W
H/W
H/W
H/W
H/W
H/W
5
37.2 ac
4
30.7 ac
7
19.5 ac
6
12.3 ac
8
6.6 ac
10
20 ac
Kittewan Creek
1000 ft
Ruffin
T-2165
8/17/23

Soil Map—Charles City County, Virginia



Map Scale: 1:3,990 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 50 100 200 300

Feet
0 150 300 600 900

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 1:24,000.

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.

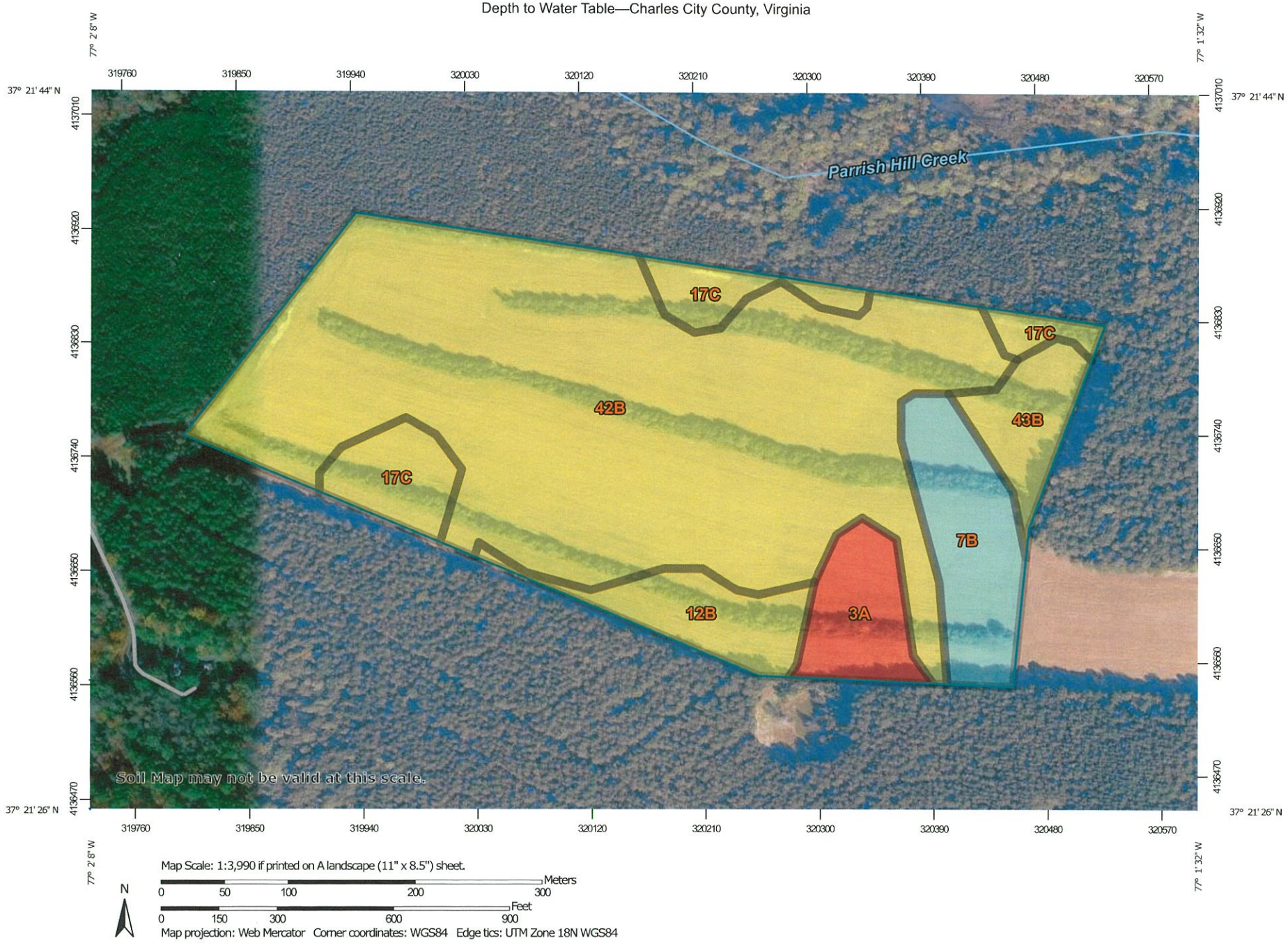
Date(s) aerial images were photographed: Apr 11, 2015—Oct 15, 2019

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
3A	Bethera silt loam, 0 to 2 percent slopes	2.3	5.2%
7B	Caroline-Emporia complex, 2 to 6 percent slopes	3.7	8.5%
12B	Craven loam, 2 to 6 percent slopes	2.4	5.6%
17C	Craven-Uchee complex, 6 to 10 percent slopes	3.4	8.0%
42B	Slagle fine sandy loam, 0 to 4 percent slopes	29.3	68.2%
43B	Slagle-Emporia complex, 2 to 6 percent slopes	1.9	4.5%
Totals for Area of Interest		**43.0**	**100.0%**

Depth to Water Table—Charles City County, Virginia



Map Scale: 1:3,990 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

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 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.

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 15, 2019

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
3A	Bethera silt loam, 0 to 2 percent slopes	0	2.3	5.2%
7B	Caroline-Emporia complex, 2 to 6 percent slopes	130	3.7	8.5%
12B	Craven loam, 2 to 6 percent slopes	76	2.4	5.6%
17C	Craven-Uchee complex, 6 to 10 percent slopes	76	3.4	8.0%
42B	Slagle fine sandy loam, 0 to 4 percent slopes	61	29.3	68.2%
43B	Slagle-Emporia complex, 2 to 6 percent slopes	61	1.9	4.5%
Totals for Area of Interest			**43.0**	**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

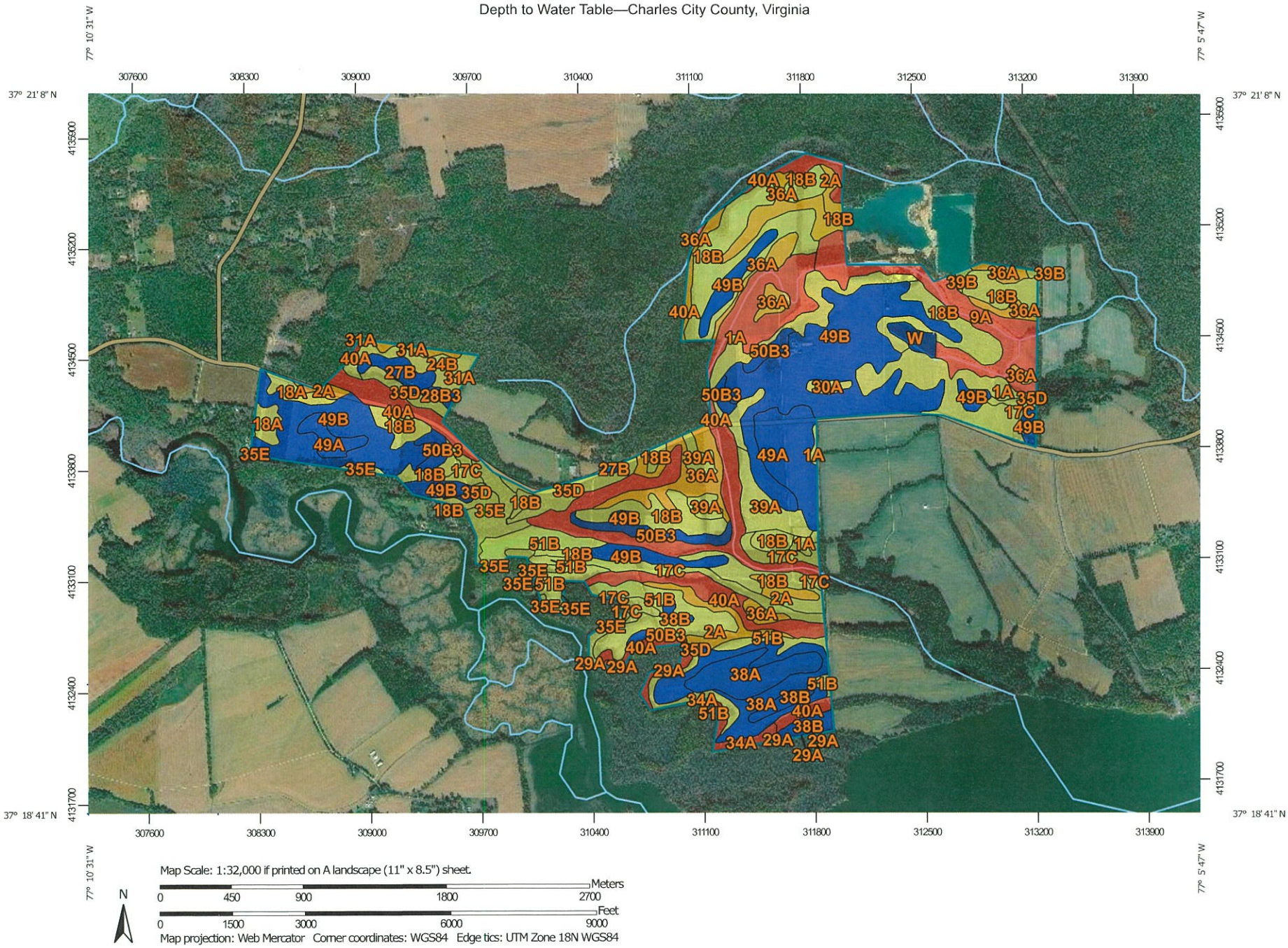
Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

Depth to Water Table—Charles City County, Virginia



Map Scale: 1:32,000 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 450 900 1800 2700

Feet: 0 1500 3000 6000 9000

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 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.

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.

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 3 percent slopes	61	103.6	6.4%
2A	Augusta sandy loam, 0 to 2 percent slopes	46	33.8	2.1%
9A	Chickahominy loam, 0 to 2 percent slopes	8	72.8	4.5%
17C	Craven-Uchee complex, 6 to 10 percent slopes	76	50.3	3.1%
18A	Dogue silt loam, 0 to 2 percent slopes	61	17.2	1.1%
18B	Dogue silt loam, 2 to 6 percent slopes	61	223.6	13.9%
24B	Izagora silt loam, 0 to 4 percent slopes	76	22.4	1.4%
27B	Masada loam, 2 to 6 percent slopes	>200	14.7	0.9%
28B3	Masada sandy clay loam, 2 to 6 percent slopes, severely eroded	>200	4.0	0.2%
29A	Mattan mucky loam, 0 to 1 percent slopes, very frequently flooded	0	6.4	0.4%
30A	Munden loamy sand, 0 to 2 percent slopes	61	5.0	0.3%
31A	Nahunta silt loam, 0 to 2 percent slopes	38	6.3	0.4%
34A	Nawney silt loam, 0 to 2 percent slopes, ponded	0	8.7	0.5%
35D	Nevarc-Remlik complex, 10 to 15 percent slopes	61	52.5	3.3%
35E	Nevarc-Remlik complex, 15 to 25 percent slopes	61	32.1	2.0%
36A	Newflat silt loam, 0 to 2 percent slopes	31	105.8	6.6%
38A	Pamunkey loam, 0 to 2 percent slopes	>200	43.8	2.7%
38B	Pamunkey loam, 2 to 6 percent slopes	>200	63.0	3.9%
39A	Peawick silt loam, 0 to 2 percent slopes	61	40.4	2.5%

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
39B	Peawick silt loam, 2 to 6 percent slopes	61	2.6	0.2%
40A	Roanoke silt loam, 0 to 2 percent slopes	15	207.7	12.9%
49A	Wickham fine sandy loam, 0 to 2 percent slopes	>200	61.0	3.8%
49B	Wickham fine sandy loam, 2 to 6 percent slopes	>200	294.7	18.3%
50B3	Wickham sandy clay loam, 2 to 6 percent slopes, severely eroded	>200	36.7	2.3%
51B	Yeopim silt loam, 2 to 6 percent slopes	69	93.6	5.8%
W	Water	>200	9.2	0.6%
Totals for Area of Interest			**1,611.9**	**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

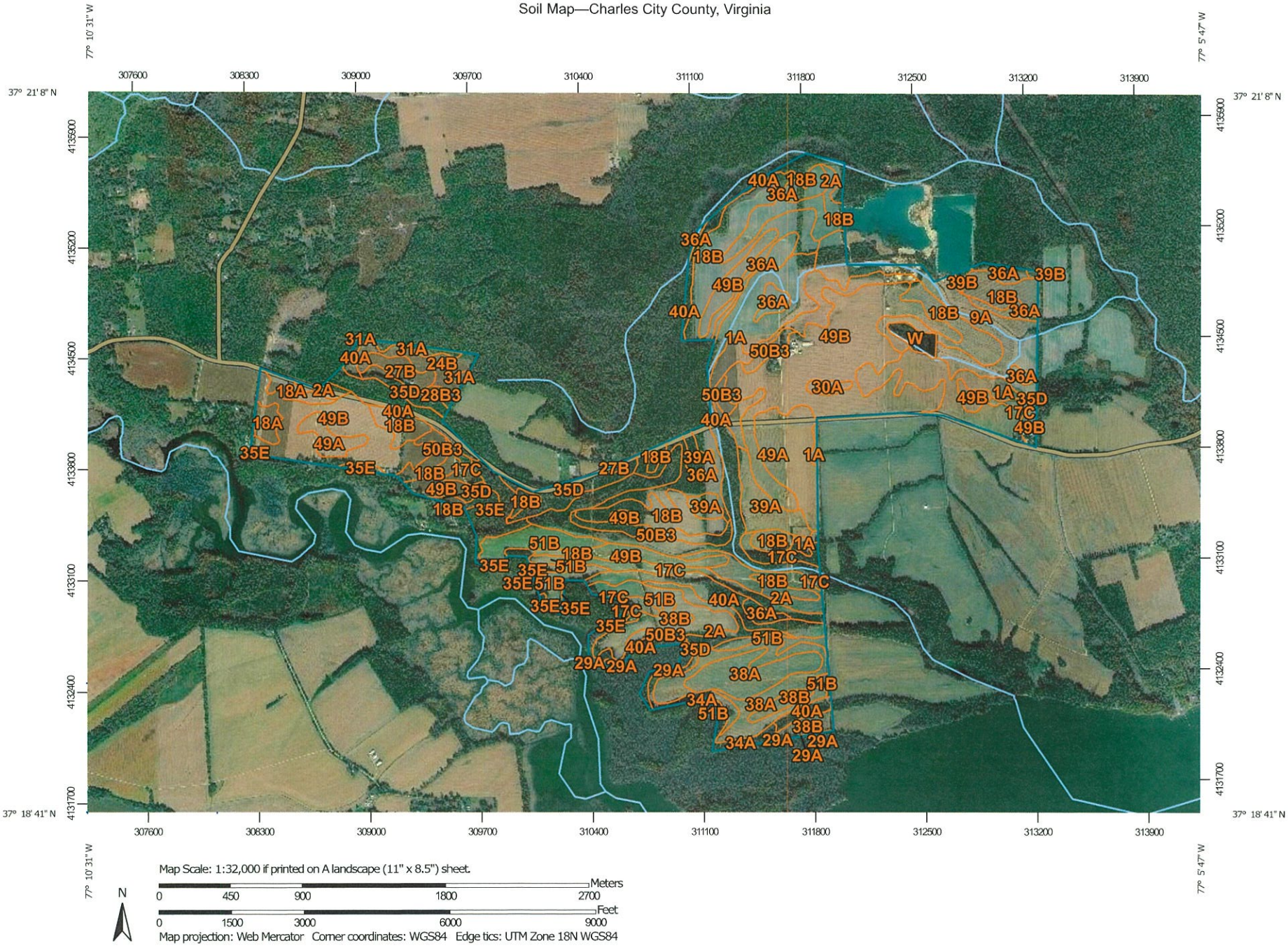
Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

Soil Map—Charles City County, Virginia



Map Scale: 1:32,000 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 450 900 1800 2700

Feet: 0 1500 3000 6000 9000

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 1:24,000.

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

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

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

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

Soil Survey Area: 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
1A	Altavista fine sandy loam, 0 to 3 percent slopes	103.6	6.4%
2A	Augusta sandy loam, 0 to 2 percent slopes	33.8	2.1%
9A	Chickahominy loam, 0 to 2 percent slopes	72.8	4.5%
17C	Craven-Uchee complex, 6 to 10 percent slopes	50.3	3.1%
18A	Dogue silt loam, 0 to 2 percent slopes	17.2	1.1%
18B	Dogue silt loam, 2 to 6 percent slopes	223.6	13.9%
24B	Izagora silt loam, 0 to 4 percent slopes	22.4	1.4%
27B	Masada loam, 2 to 6 percent slopes	14.7	0.9%
28B3	Masada sandy clay loam, 2 to 6 percent slopes, severely eroded	4.0	0.2%
29A	Mattan mucky loam, 0 to 1 percent slopes, very frequently flooded	6.4	0.4%
30A	Munden loamy sand, 0 to 2 percent slopes	5.0	0.3%
31A	Nahunta silt loam, 0 to 2 percent slopes	6.3	0.4%
34A	Nawney silt loam, 0 to 2 percent slopes, ponded	8.7	0.5%
35D	Nevarc-Remlik complex, 10 to 15 percent slopes	52.5	3.3%
35E	Nevarc-Remlik complex, 15 to 25 percent slopes	32.1	2.0%
36A	Newflat silt loam, 0 to 2 percent slopes	105.8	6.6%
38A	Pamunkey loam, 0 to 2 percent slopes	43.8	2.7%
38B	Pamunkey loam, 2 to 6 percent slopes	63.0	3.9%
39A	Peawick silt loam, 0 to 2 percent slopes	40.4	2.5%
39B	Peawick silt loam, 2 to 6 percent slopes	2.6	0.2%
40A	Roanoke silt loam, 0 to 2 percent slopes	207.7	12.9%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
49A	Wickham fine sandy loam, 0 to 2 percent slopes	61.0	3.8%
49B	Wickham fine sandy loam, 2 to 6 percent slopes	294.7	18.3%
50B3	Wickham sandy clay loam, 2 to 6 percent slopes, severely eroded	36.7	2.3%
51B	Yeopim silt loam, 2 to 6 percent slopes	93.6	5.8%
W	Water	9.2	0.6%
Totals for Area of Interest		**1,611.9**	**100.0%**

Soil Map—Charles City County, Virginia

Map Scale: 1:5,160 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 250 500 1000 1500

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 1:24,000.

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.

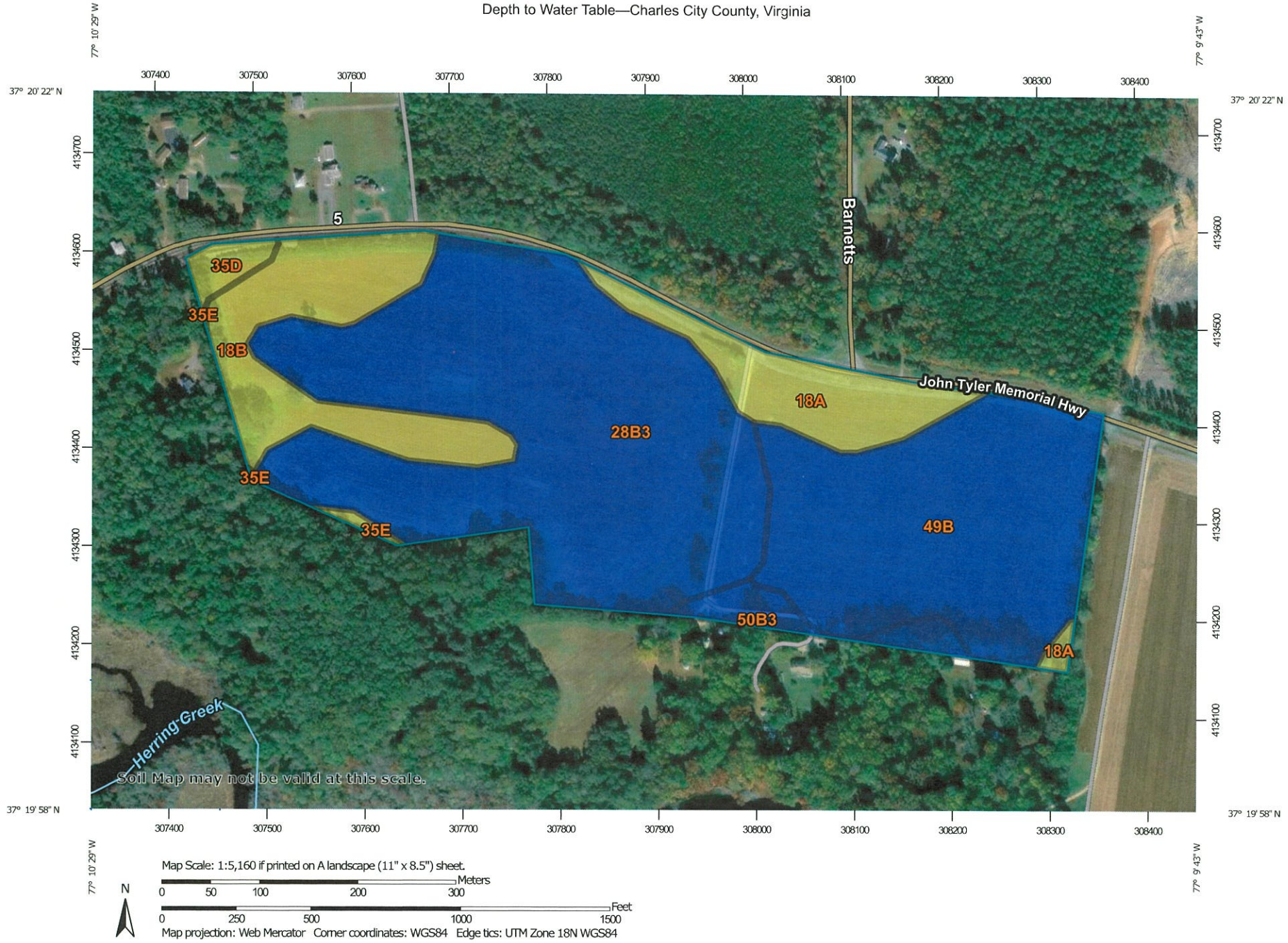
Date(s) aerial images were photographed: Apr 11, 2015—Oct 27, 2017

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
18A	Dogue silt loam, 0 to 2 percent slopes	5.4	8.4%
18B	Dogue silt loam, 2 to 6 percent slopes	8.2	12.6%
28B3	Masada sandy clay loam, 2 to 6 percent slopes, severely eroded	30.3	46.9%
35D	Nevarc-Remlik complex, 10 to 15 percent slopes	0.9	1.4%
35E	Nevarc-Remlik complex, 15 to 25 percent slopes	0.3	0.4%
49B	Wickham fine sandy loam, 2 to 6 percent slopes	17.8	27.5%
50B3	Wickham sandy clay loam, 2 to 6 percent slopes, severely eroded	1.8	2.7%
Totals for Area of Interest		**64.6**	**100.0%**

Depth to Water Table—Charles City County, Virginia



Map Scale: 1:5,160 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 250 500 1000 1500

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 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.

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.

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
18A	Dogue silt loam, 0 to 2 percent slopes	61	5.4	8.4%
18B	Dogue silt loam, 2 to 6 percent slopes	61	8.2	12.6%
28B3	Masada sandy clay loam, 2 to 6 percent slopes, severely eroded	>200	30.3	46.9%
35D	Nevarc-Remlik complex, 10 to 15 percent slopes	61	0.9	1.4%
35E	Nevarc-Remlik complex, 15 to 25 percent slopes	61	0.3	0.4%
49B	Wickham fine sandy loam, 2 to 6 percent slopes	>200	17.8	27.5%
50B3	Wickham sandy clay loam, 2 to 6 percent slopes, severely eroded	>200	1.8	2.7%
Totals for Area of Interest			**64.6**	**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

Soil Map—Charles City County, Virginia

Map Scale: 1:5,660 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 250 500 1000 1500

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 1:24,000.

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
18B	Dogue silt loam, 2 to 6 percent slopes	21.6	31.1%
18C	Dogue silt loam, 6 to 10 percent slopes	10.8	15.5%
24B	Izagora silt loam, 0 to 4 percent slopes	2.3	3.3%
27B	Masada loam, 2 to 6 percent slopes	13.8	19.8%
28B3	Masada sandy clay loam, 2 to 6 percent slopes, severely eroded	19.9	28.6%
31A	Nahunta silt loam, 0 to 2 percent slopes	0.0	0.0%
35D	Nevarc-Remlik complex, 10 to 15 percent slopes	1.2	1.7%
Totals for Area of Interest		**69.7**	**100.0%**

Soil Map—Charles City County, Virginia

Map Scale: 1:9,280 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 100 200 400 600

Feet: 0 450 900 1800 2700

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 1:24,000.

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

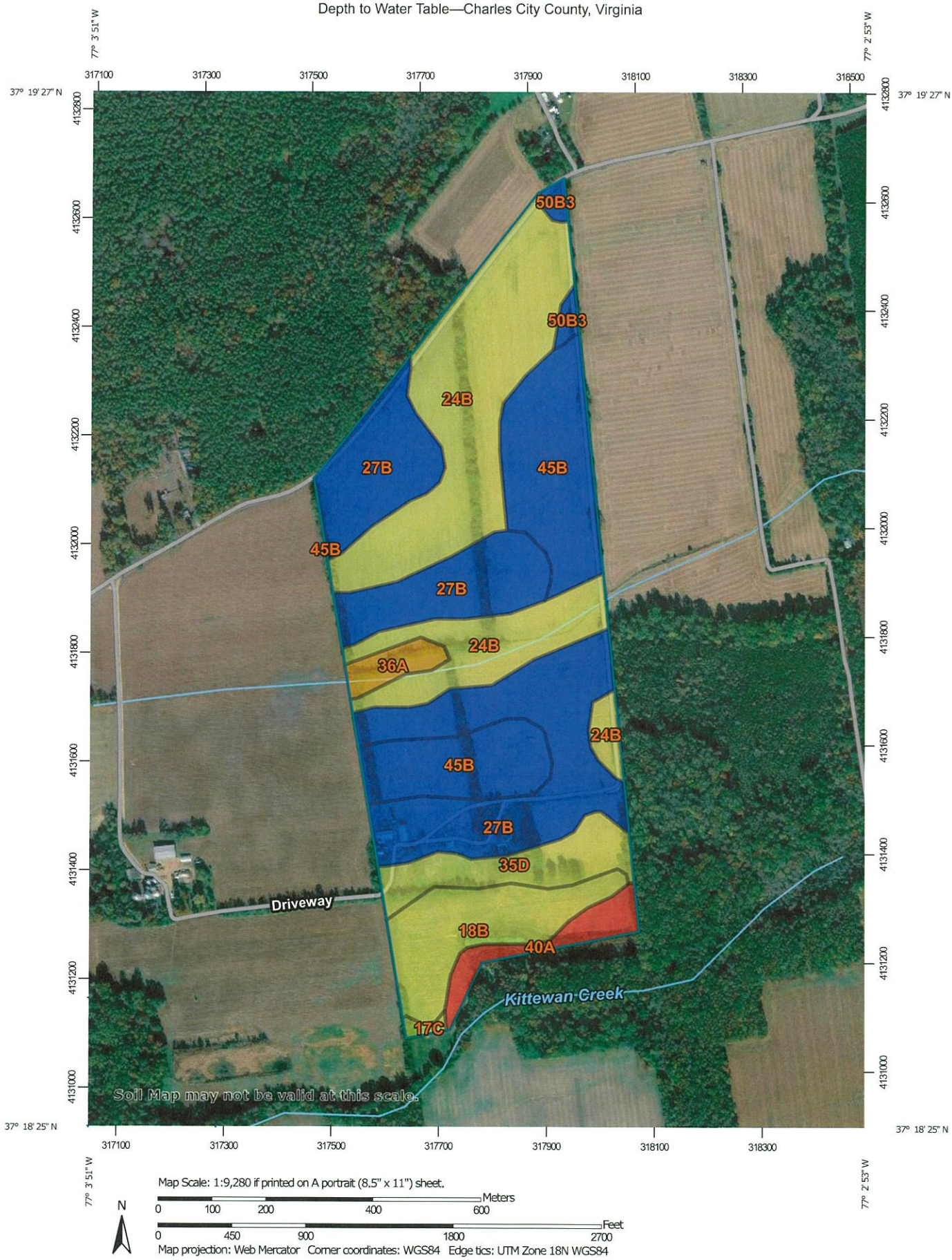
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

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
17C	Craven-Uchee complex, 6 to 10 percent slopes	0.5	0.4%
18B	Dogue silt loam, 2 to 6 percent slopes	12.8	8.6%
24B	Izagora silt loam, 0 to 4 percent slopes	44.3	30.0%
27B	Masada loam, 2 to 6 percent slopes	46.9	31.8%
35D	Nevarc-Remlik complex, 10 to 15 percent slopes	8.9	6.1%
36A	Newflat silt loam, 0 to 2 percent slopes	2.7	1.9%
40A	Roanoke silt loam, 0 to 2 percent slopes	4.5	3.0%
45B	Turbeville loam, 2 to 6 percent slopes	25.5	17.3%
50B3	Wickham sandy clay loam, 2 to 6 percent slopes, severely eroded	1.5	1.0%
Totals for Area of Interest		**147.7**	**100.0%**


77° 3' 51" W
77° 2' 53" W
37° 19' 27" N
37° 18' 25" N
317100
317300
317500
317700
317900
318100
318300
318500
4132800
4132600
4132400
4132200
4132000
4131800
4131600
4131400
4131200
4131000
50B3
50B3
24B
27B
45B
45B
27B
24B
36A
24B
45B
27B
35D
18B
40A
17C
Driveway
Kittewan Creek
Soil Map may not be valid at this scale.
Map Scale: 1:9,280 if printed on A portrait (8.5" x 11") sheet.
N
Meters
0 100 200 400 600
Feet
0 450 900 1800 2700
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 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.

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.

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
17C	Craven-Uchee complex, 6 to 10 percent slopes	76	0.5	0.4%
18B	Dogue silt loam, 2 to 6 percent slopes	61	12.8	8.6%
24B	Izagora silt loam, 0 to 4 percent slopes	76	44.3	30.0%
27B	Masada loam, 2 to 6 percent slopes	>200	46.9	31.8%
35D	Nevarc-Remlik complex, 10 to 15 percent slopes	61	8.9	6.1%
36A	Newflat silt loam, 0 to 2 percent slopes	31	2.7	1.9%
40A	Roanoke silt loam, 0 to 2 percent slopes	15	4.5	3.0%
45B	Turbeville loam, 2 to 6 percent slopes	>200	25.5	17.3%
50B3	Wickham sandy clay loam, 2 to 6 percent slopes, severely eroded	>200	1.5	1.0%
Totals for Area of Interest			**147.7**	**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