

LAND APPLICATION SITE
ROBERT A. WILLIAMS, JR.
DWRAW 1 - 5
DINWIDDIE COUNTY

**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 10/26/23 between Robert A. Williams, Jr. referred to here as "Landowner", and Recyc Systems, Inc. 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>41-22</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>Robert A. Williams, Jr.</u>	Mailing Address <u>10106 White Oak Rd. Ford, VA 23850</u>	Landowner Signature <u>Robert A. Williams, Jr.</u>
By: <u>Robert A. Williams, Jr.</u>	Phone No. <u>(804) 265-5569</u>	
Title* <u></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 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:

Recyc Systems, Inc., 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>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee - Authorized Representative Signature <u>S. Trumbo</u>
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Dinwiddie

Landowner: Robert A. Williams Jr

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).

Robert A. Williams Jr
Landowner's Signature

10/26/23
Date

[Signature]
Operator's Signature

15116 Elebe Rd.
Dewitt, VA 23840
804-691-2125
mailing address & phone

10/26/23
Date

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 from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee: Recyc Systems, Inc.

Site Name: Robert A. Williams Jr.

County or City: Dinwiddie County

Please Print

Signature not required on this page

Tax Parcel ID(s)	Landowner(s)
41-22	Robert A. Williams Jr.

NEW FIELD CHANGES
ROBERT A. WILLIAMS, JR.
DINWIDDIE COUNTY

**THE NEW ROBERT A. WILLIAMS, JR. BOOK
IS PART OF THE OLD MICHAEL R. DAVIS
BOOK.**

NEW FIELD 1 IS OLD FIELD 5.

NEW FIELD 2 IS OLD FIELD 6.

NEW FIELD 3 IS PART OF OLD FIELD 7.

NEW FIELD 4 IS PART OF OLD FIELD 7.

NEW FIELD 5 IS OLD FIELD 8.

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #	FSA Field #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood				
DWRAW 01	2.8	-	-	-	-	CU 19	41-22	2231	1
DWRAW 02	5.4	12B Dec.-Mar.	-	-	-	CU 19	41-22	2231	4
DWRAW 03	5.2	12B Dec.-Mar.	-	-	-	CU 19	41-22	508	2, 5
DWRAW 04	1.4	-	-	-	-	CU 19	41-22	508	6
DWRAW 05	6.2	-	-	-	-	CU 19	41-22	508	3
TOTAL ACRES IN SITE	21.0								

NUTRIENT MANAGEMENT PLAN IDENTIFICATION

Operator
Derek Martin
15116 Glebe Road
Dewitt, VA 23840
804-691-2125

Integrator:None

Farm Coordinates
Easting: 0, Northing: 0, zone: 17

Watershed Summary
watershed: CU19
county: Dinwiddie

Nutrient Management Planner
John Doe
123 Main St.
Suite #5
Blacksburg, VA 24060

Certification Code: 892

Acreage Use Summary
Total Acreage in this plan: 21.
Cropland: 0.
Hayland: 21.
Pasture: 0.
Specialty: 0.

Livestock Summary
Beef Cattle 0
Dairy Cattle 0
Poultry 0
Swine 0
Other 0

Manure Production Balance

	Imported	Produced	Exported	Used	Net
kgals	0.	0.	0.	0.	0.
tons	0.	0.	0.	0.	0.

Plan written 12/20/2023
Valid until 12/20/2025

Signature: _____
Planner date

Nutrient Management Plan Balance Sheet
(Spring, 2024-Summer, 2026)
Robert A. Williams, Jr.
Planner: John Doe (cert. No. 892)

Tract: 508 Location: Dinwiddie
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosid Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
2, 5/DWRAW 3(N)	5/5	2024	Fescue grass hay mt.	90-80-170	0/0				90-80-170	N/A			
6/DWRAW 4(N)	1/1	2024	Fescue grass hay mt.	70-50-95	0/0				70-50-95	N/A			
3/DWRAW 5(N)	6/6	2024	Fescue grass hay mt.	70-50-95	0/0				70-50-95	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 2231

Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - applied N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/DWRAW 1(N)	3/3	2024	Fescue grass hay mt.	70-50-95	0/0				70-50-95	N/A			
4/DWRAW 2(N)	5/5	2024	Fescue grass hay mt.	90-80-170	0/0				90-80-170	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
508	DWRAW 3	5	[No Test]						
508	DWRAW 4	1	[No Test]						
508	DWRAW 5	6	[No Test]						
2231	DWRAW 1	3	[No Test]						
2231	DWRAW 2	5	[No Test]						

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
508	508/2, 5	DWRAW 3	5	Mattaponi	IIIa	II	III	II	
	508/6	DWRAW 4	1	Herndon	IVa	II	III	III	
	508/3	DWRAW 5	6	Herndon	IVa	II	III	III	
2231	2231/1	DWRAW 1	3	Herndon	IVa	II	III	III	
	2231/4	DWRAW 2	5	Mattaponi	IIIa	II	III	II	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: New Plan Spring, 2024 - Summer, 2026

Farm Name: Robert A. Williams, Jr.

Location: Dinwiddie

Specialist: John Doe

N-based Acres: 21.0

P-based Acres: 0.0

Tract Name: 508

FSA Number: 508

Location: Dinwiddie

Field Name: DWRAW 3

Total Acres: 5.20 Usable Acres: 5.20

FSA Number: 2, 5

Tract: 508

Location: Dinwiddie

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
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90 12B Mattaponi
10 10B Herndon

Field Warnings:

Field Name: **DWRAW 4**
Total Acres: 1.40 Usable Acres: 1.40
FSA Number: 6
Tract: 508
Location: Dinwiddie
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
 [NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
96	10B	Herndon
4	2C	Appling

Field Warnings:

Field Name: **DWRAW 5**
Total Acres: 6.20 Usable Acres: 6.20
FSA Number: 3
Tract: 508
Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
5	2C	Appling
53	10B	Herndon
42	8B	Georgeville

Field Warnings:

Tract Name: 2231
FSA Number: 2231
Location: Dinwiddie

Field Name: DWRAW 1
Total Acres: 2.80 **Usable Acres:** 2.80
FSA Number: 1
Tract: 2231
Location: Dinwiddie
Slope Class: B **Hydrologic Group:** B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
100	10B	Herndon

Field Warnings:

Field Name: DWRAW 2

Total Acres: 5.40 Usable Acres: 5.40

FSA Number: 4

Tract: 2231

Location: Dinwiddie

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

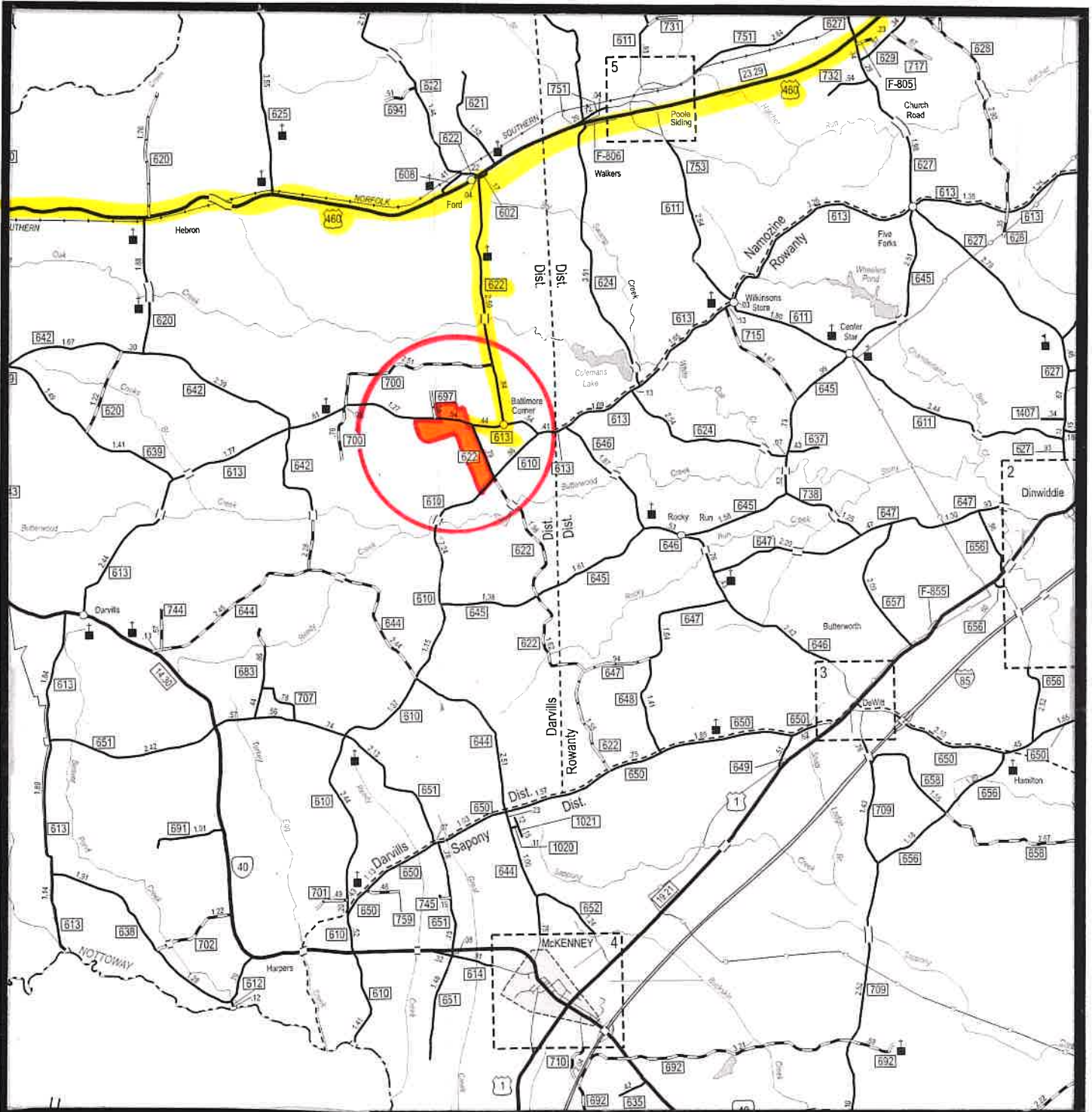
PERCENT	SYMBOL	SOIL SERIES
10	10B	Herndon
91	12B	Mattaponi

Field Warnings:

MAPS

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1" = 2 miles

DWRAW

12-20-23

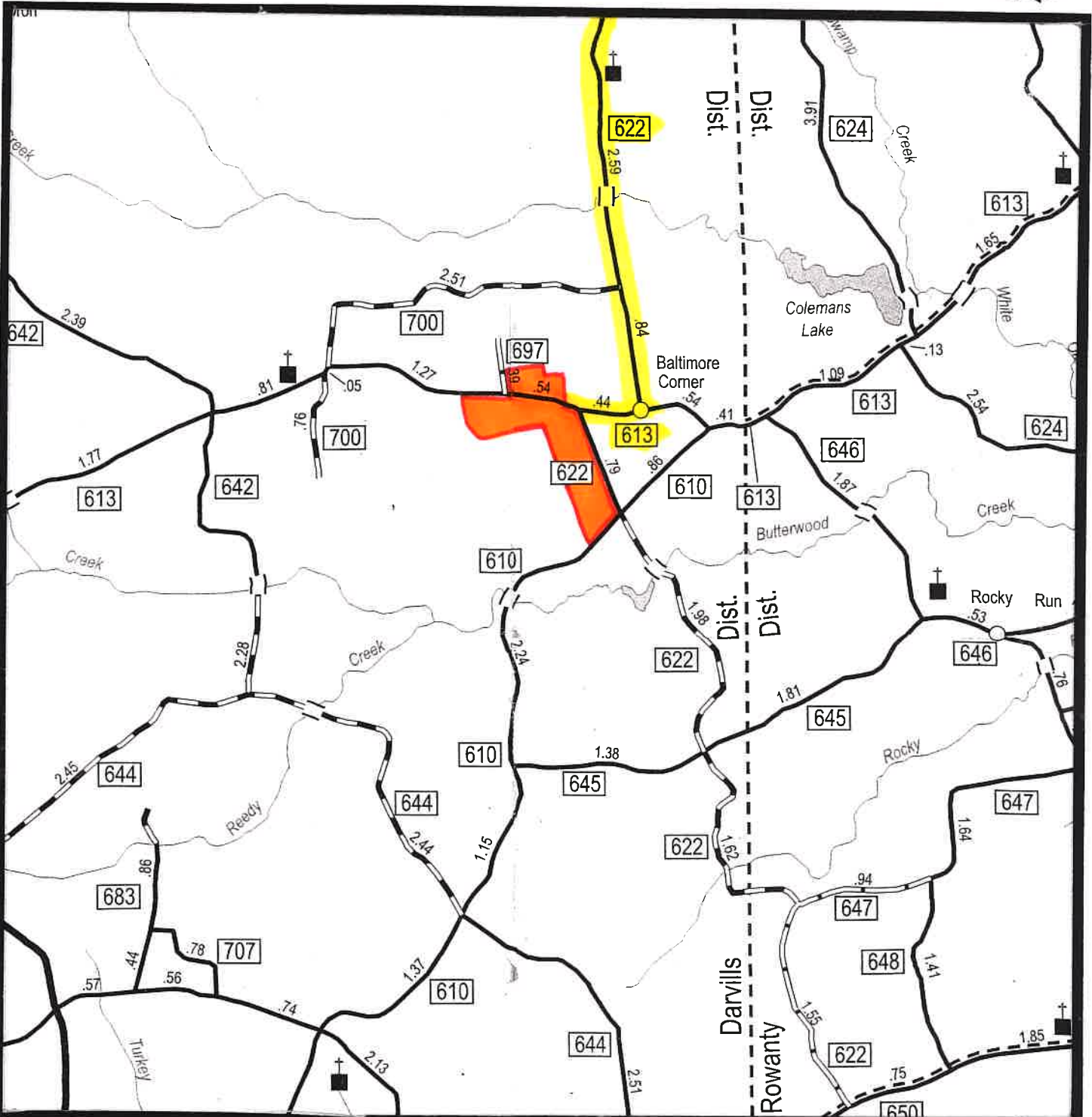
Truck Route marked
in Yellow

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 1 mile

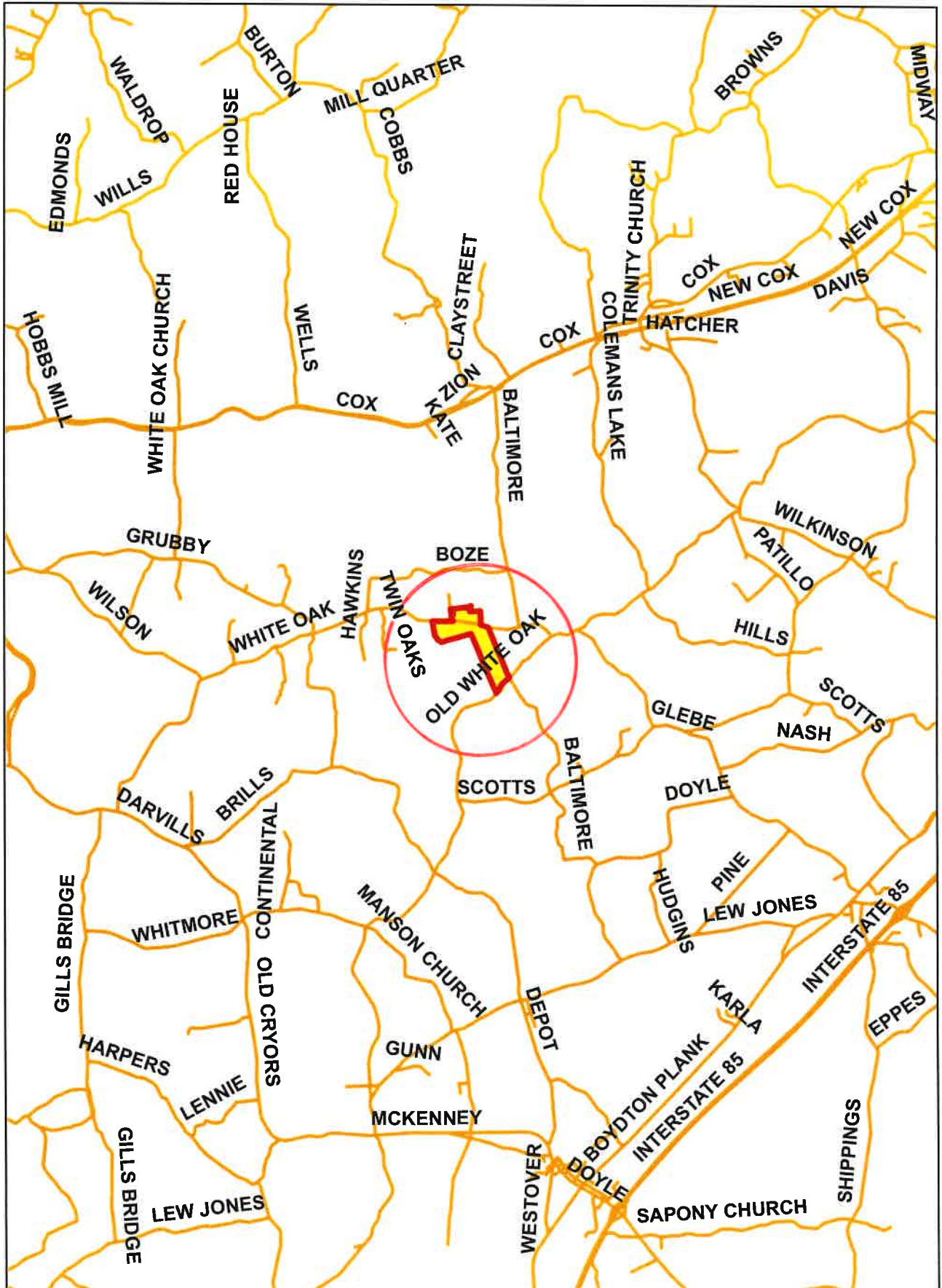
DW RAW

12-20-23

Truck Route marked in Yellow

VICINITY MAP

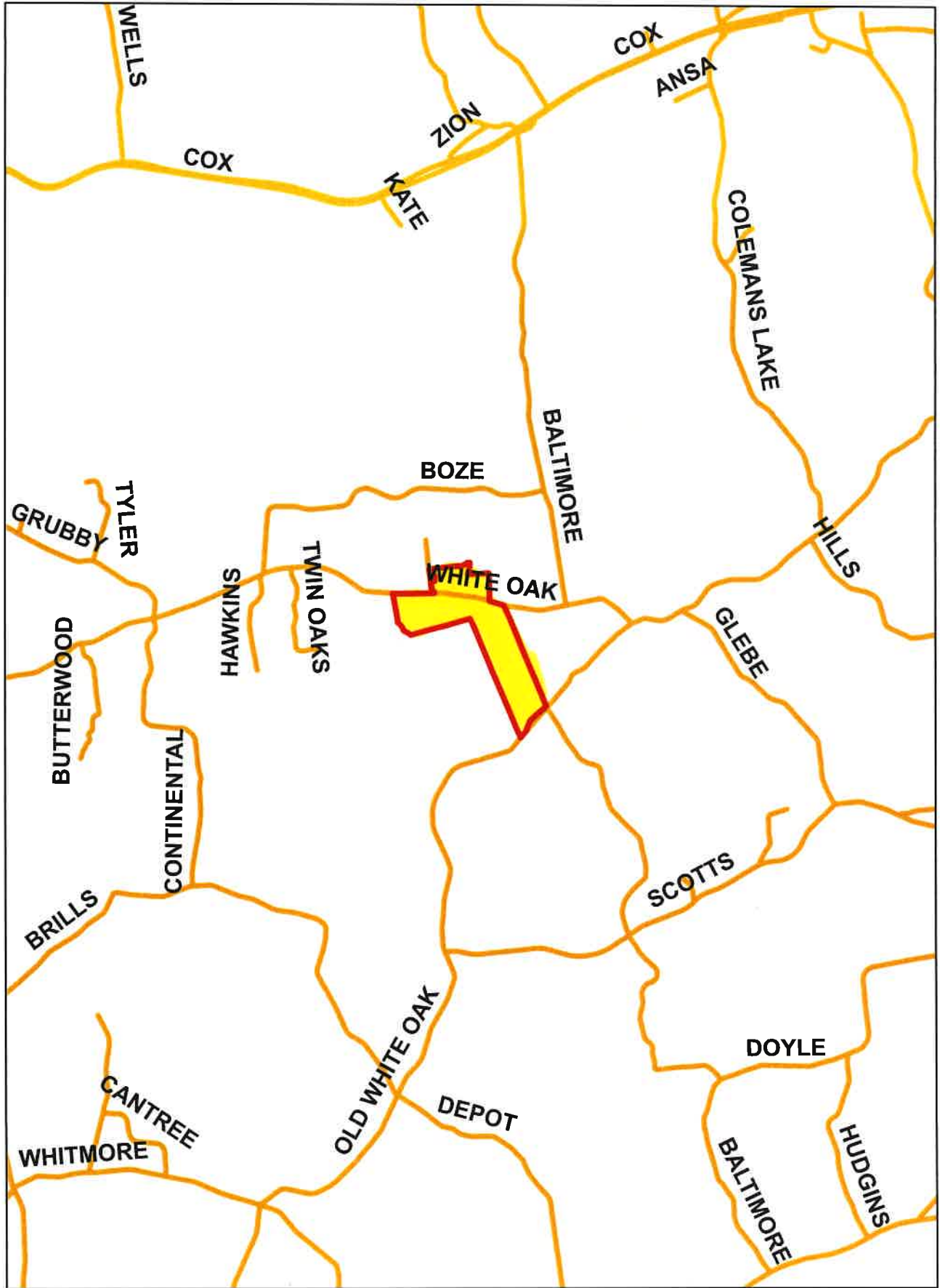




12-20-23

Vicinity Map

1 in = 2 miles

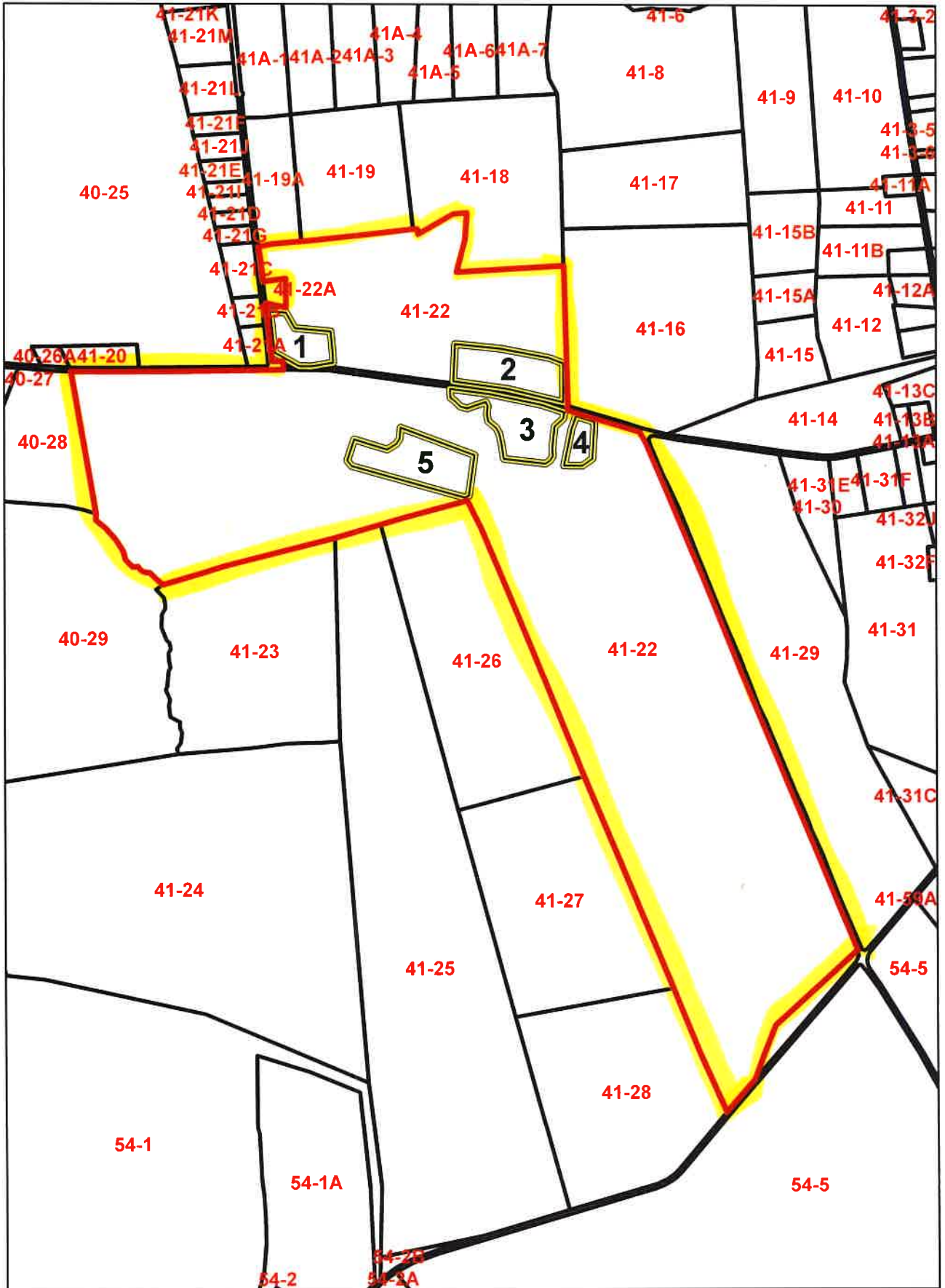


12-20-23

Vicinity Map

1 in = 1 miles

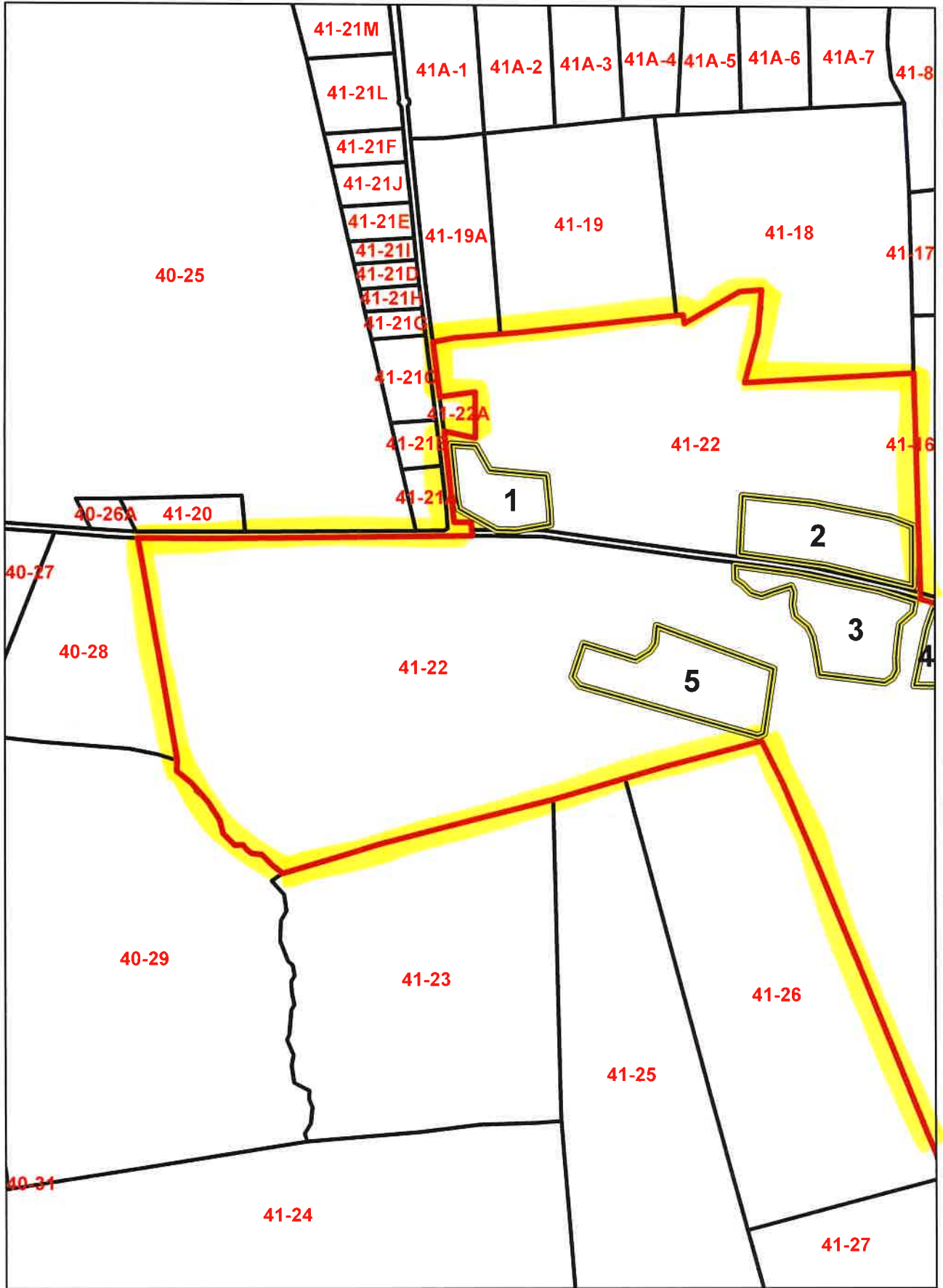




12-20-23

Tax Map

1 in = 1,042 feet

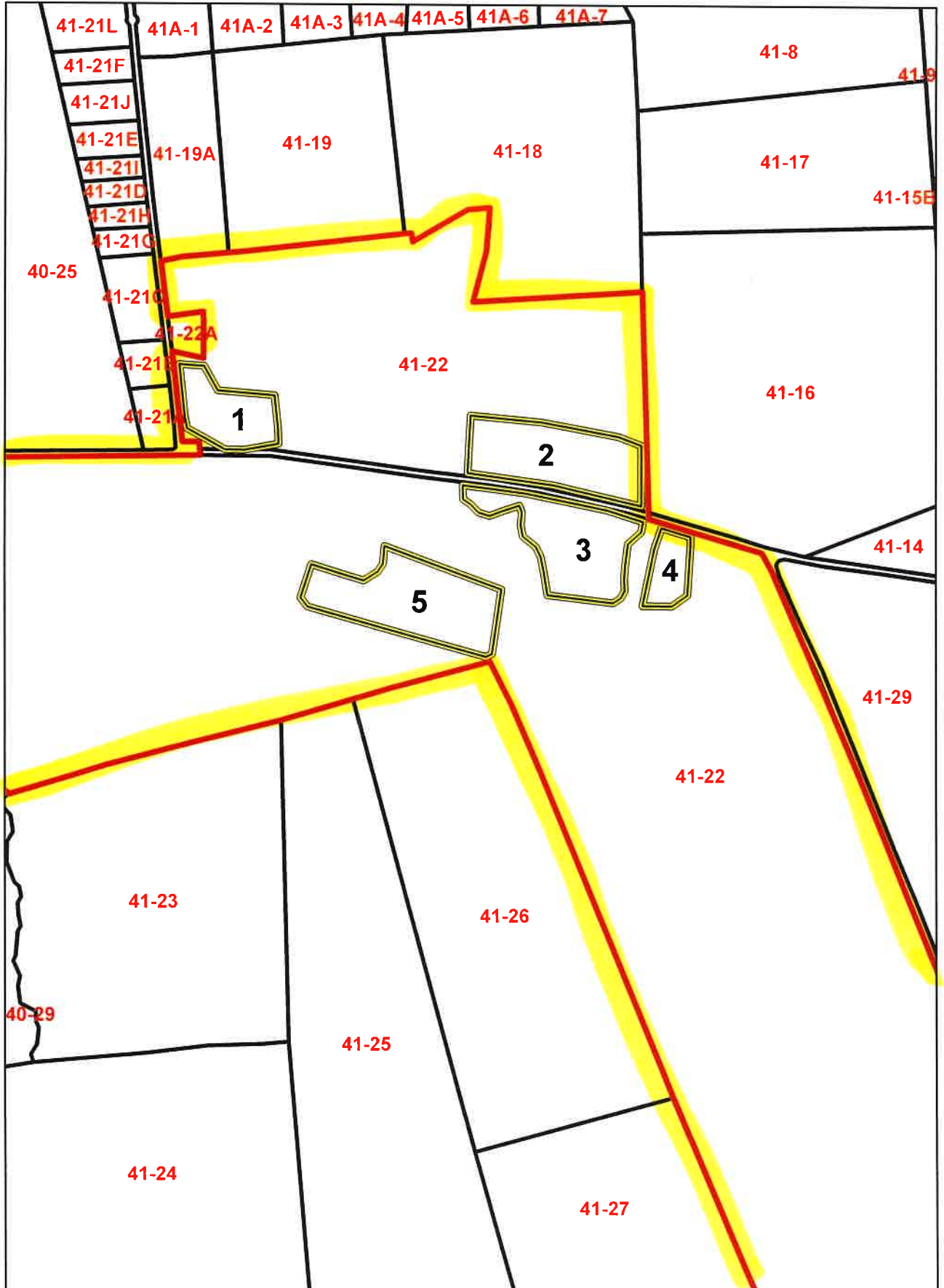


12-20-23

Tax Map

1 in = 660 feet

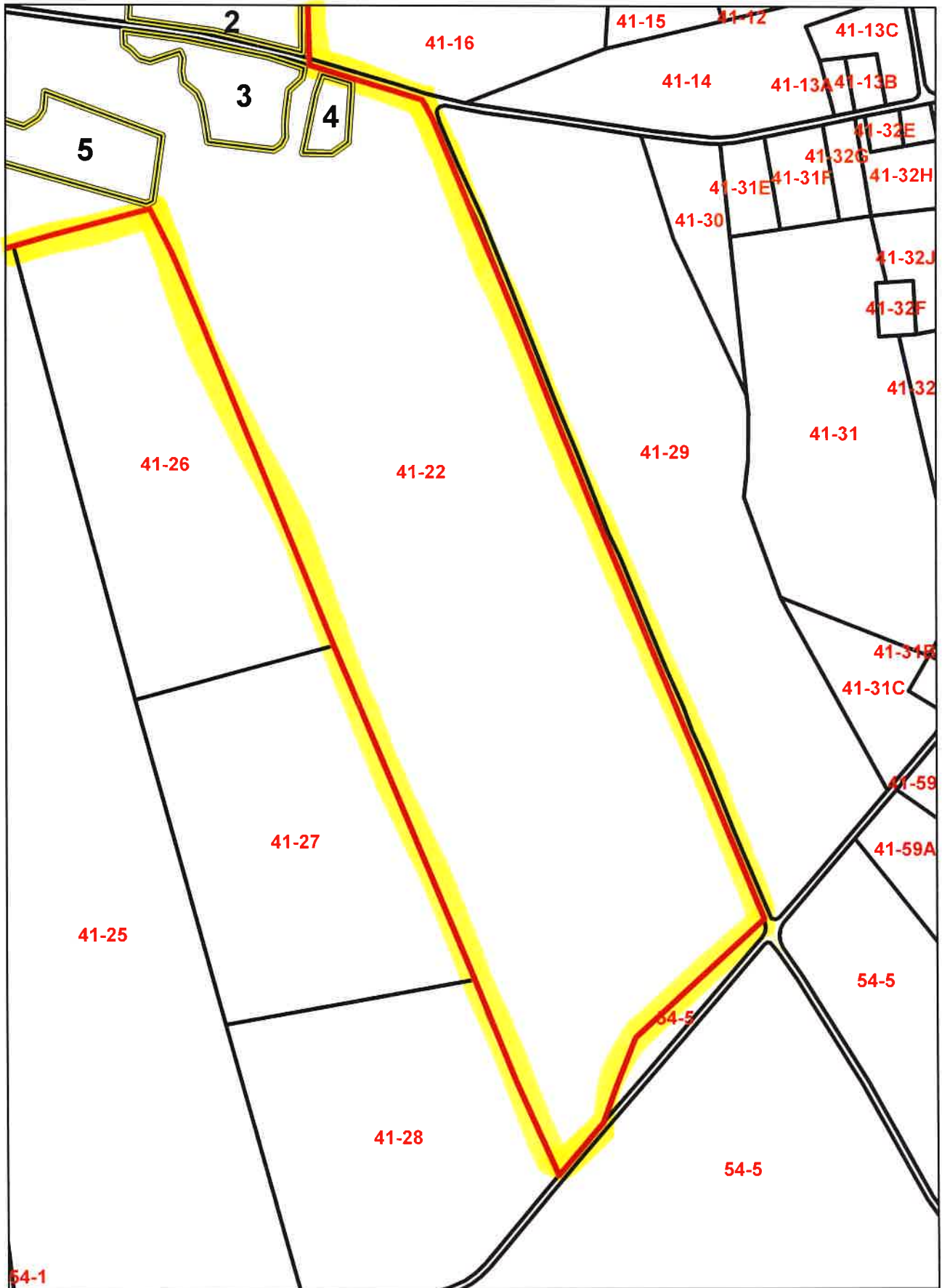




12-20-23

Tax Map

1 in = 660 feet



12-20-23

Tax Map

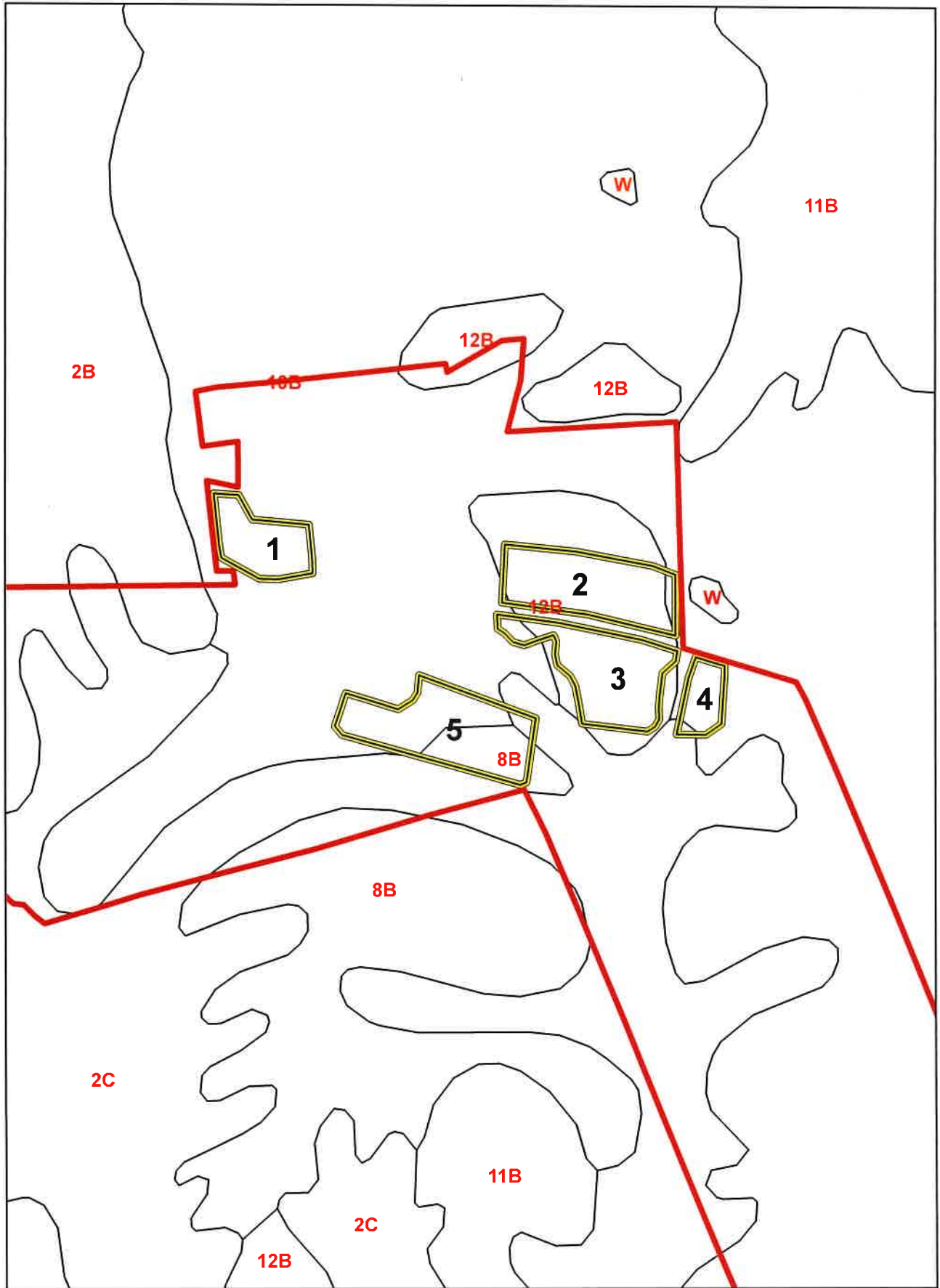
1 in = 660 feet

ADJOINING LANDOWNERS

ROBERT A. WILLIAMS JR.

DINWIDDIE COUNTY

Tax Map	Parcel #	Owner Name(s)
40	25	Linda D. Jenkins
	26A	Dinwiddie County School Board
	28	Bryant D. or Danna B. Gammon
	29	Midatlantic Ira LLC FBO Scott S. Tinsley IRA #18-10828
41	16	Walter Scott or Sandra K. Evans
	18	Heather Dawn Wells
	19	Juan J. Bajana or Renner Bajana
	19A	Dorothy R. Stith
	20	Stephanie L. Harris
	21A	Bettie Fulgham
	21B	Robert Edward Dean
	21C	Michael S. and Kelsey R. Walke
	21G	John M. or Amy I. Langley
	21H	Dylan R. Hart
	22A	Tiajuanna Wilson
	23	Robert A. Williams Jr.
	25	George T. III and Pattie L. Elder
	26	Mary Kathryn L. Bentley
27	North Country Pines LLC c/o Conservation Forestry	
28	North Country Pines LLC c/o Conservation Forestry	
29	Gill Leroy Marston	
54	5	John R. Ragsdale III Revocable Trust, Barbara F. Ragsdale Trust



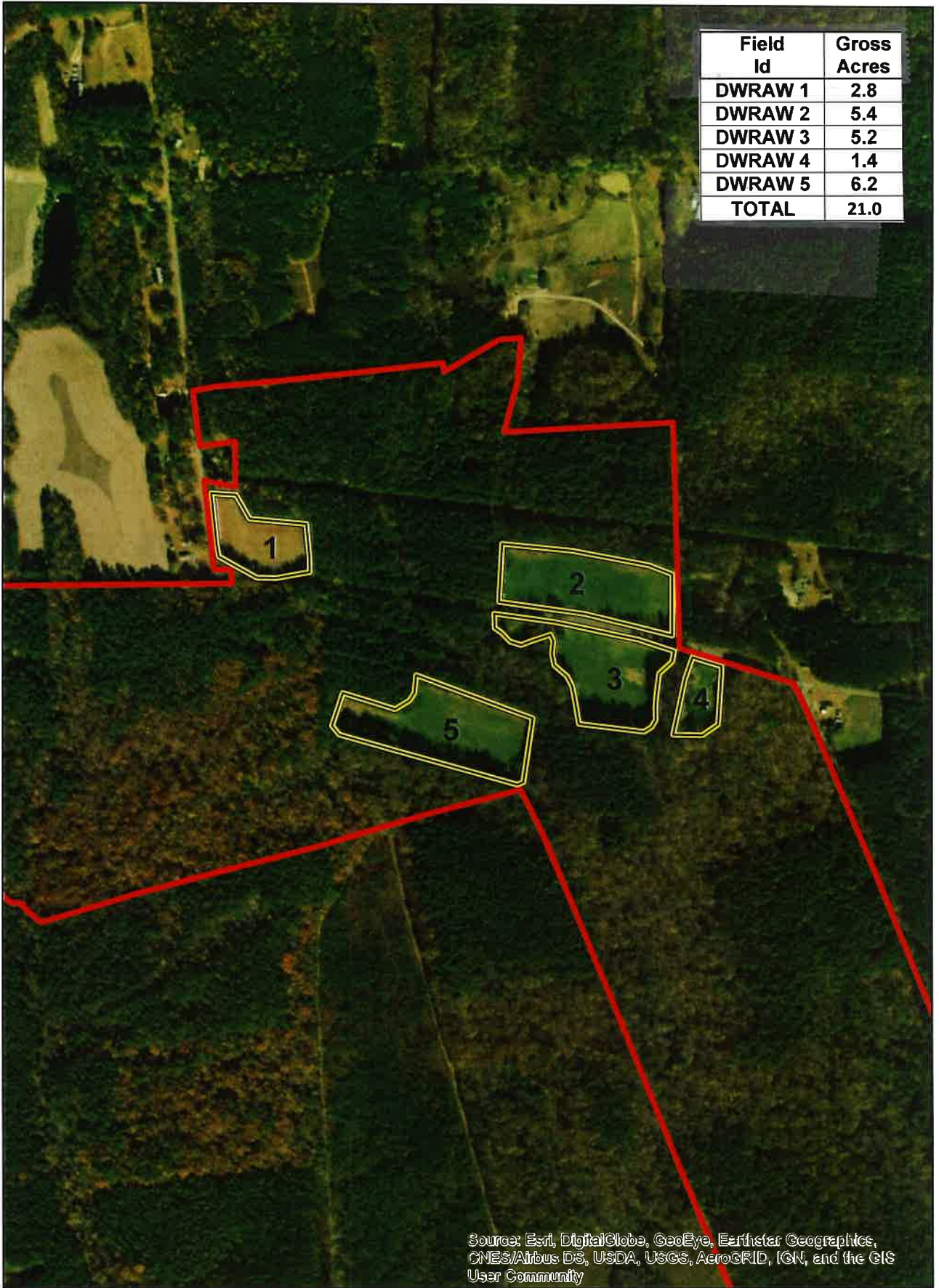
12-20-23
Frequently
Flooded

Soil Map

1 in = 660 feet



Field Id	Gross Acres
DWRAW 1	2.8
DWRAW 2	5.4
DWRAW 3	5.2
DWRAW 4	1.4
DWRAW 5	6.2
TOTAL	21.0



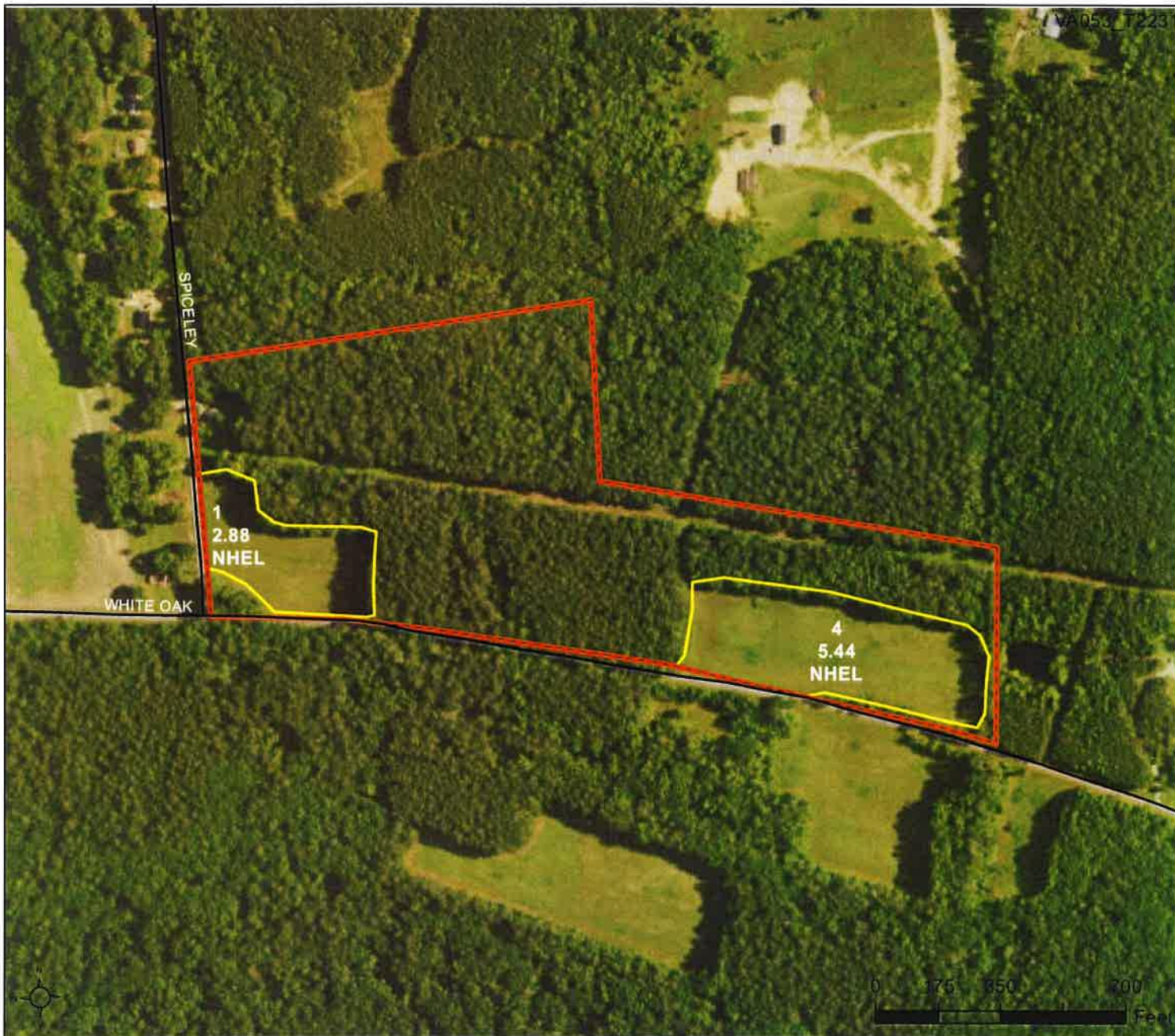
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



12-20-23

Aerial Map

1 in = 660 feet



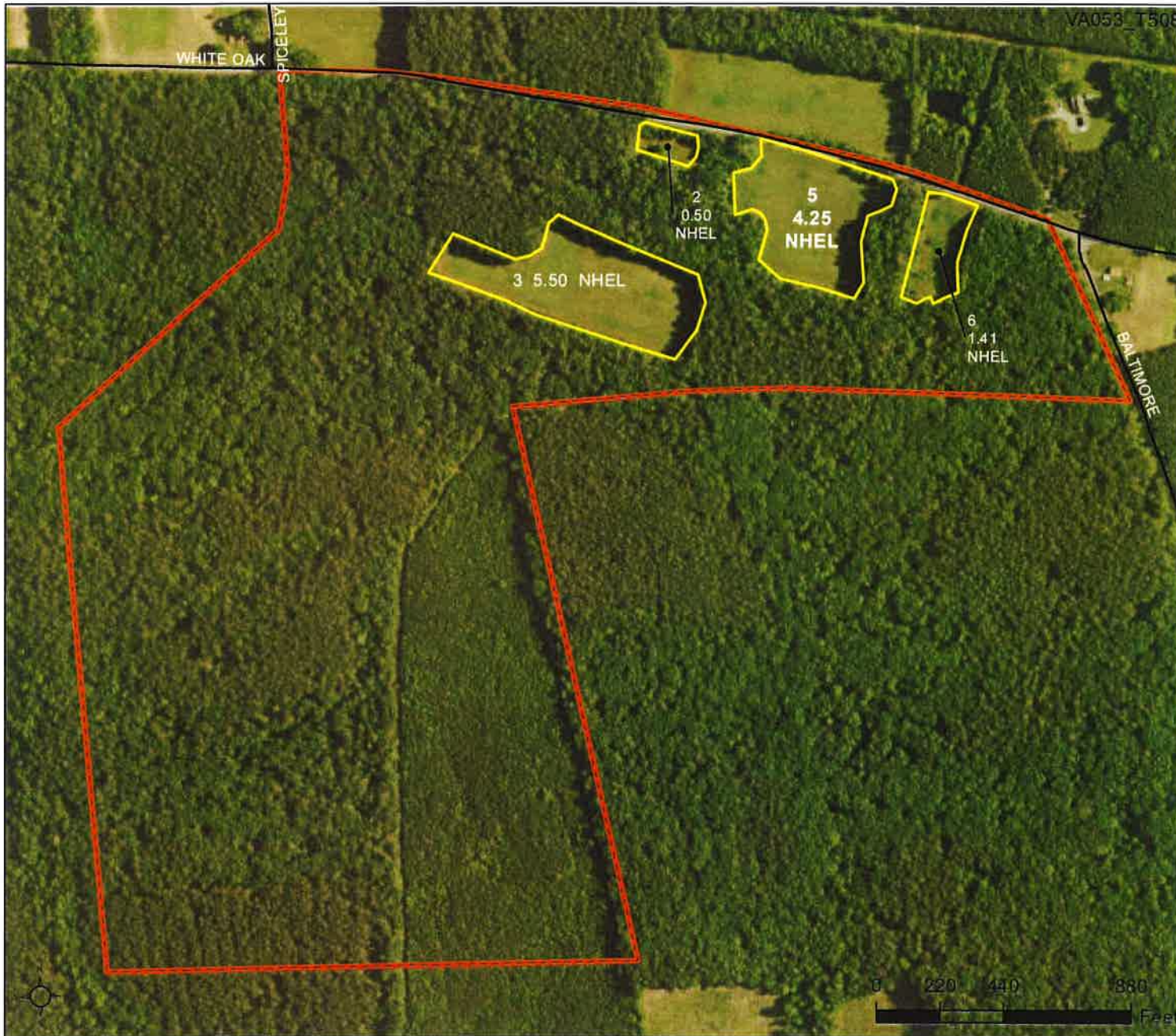
Farm 3812
Tract 2231

2024 Program Year
Map Created November 03, 2023

- rcl_l_va053
- Common Land Unit**
- Non-Cropland
- Cropland
- rcl_l_va053
- Tract Boundary

- Wetland Determination Identifiers**
 - Restricted Use
 - ▼ Limited Restrictions
 - Exempt from Conservation
 - Compliance Provisions
- Tract Cropland Total: 8.32 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).



Farm 3812
Tract 508

2024 Program Year

Map Created November 03, 2023

- rcl_l_va053
- Common Land Unit**
- Non-Cropland
- Cropland
- rcl_l_va053
- Tract Boundary

- Wetland Determination Identifiers**
 - Restricted Use
 - ▼ Limited Restrictions
 - Exempt from Conservation
 - Compliance Provisions
- Tract Cropland Total: 11.66 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

Legend For Site Plan

Symbol

Feature

Minimum Setback



House and Well

200 feet from occupied dwelling *
100 feet from water supply wells or springs



Well or Spring

100 feet from water supply wells or springs



Streams or Surface Water

35 feet with 35 foot vegetated buffer
100 feet without vegetated buffer



Wet Spot



Trees and Woods



Private Drive



Rock Area/Rock Outcrop

25 feet from rock outcrops
50 feet from limestone rock outcrops



Severely Eroded Spot

18 Inch minimum depth of soil



Sink Hole

100 feet from open sinkholes
50 feet from closed sinkholes



State Road

10 feet from side of roadway



Fence / Field Boundary



Property Line

100 feet from property line *



Slope

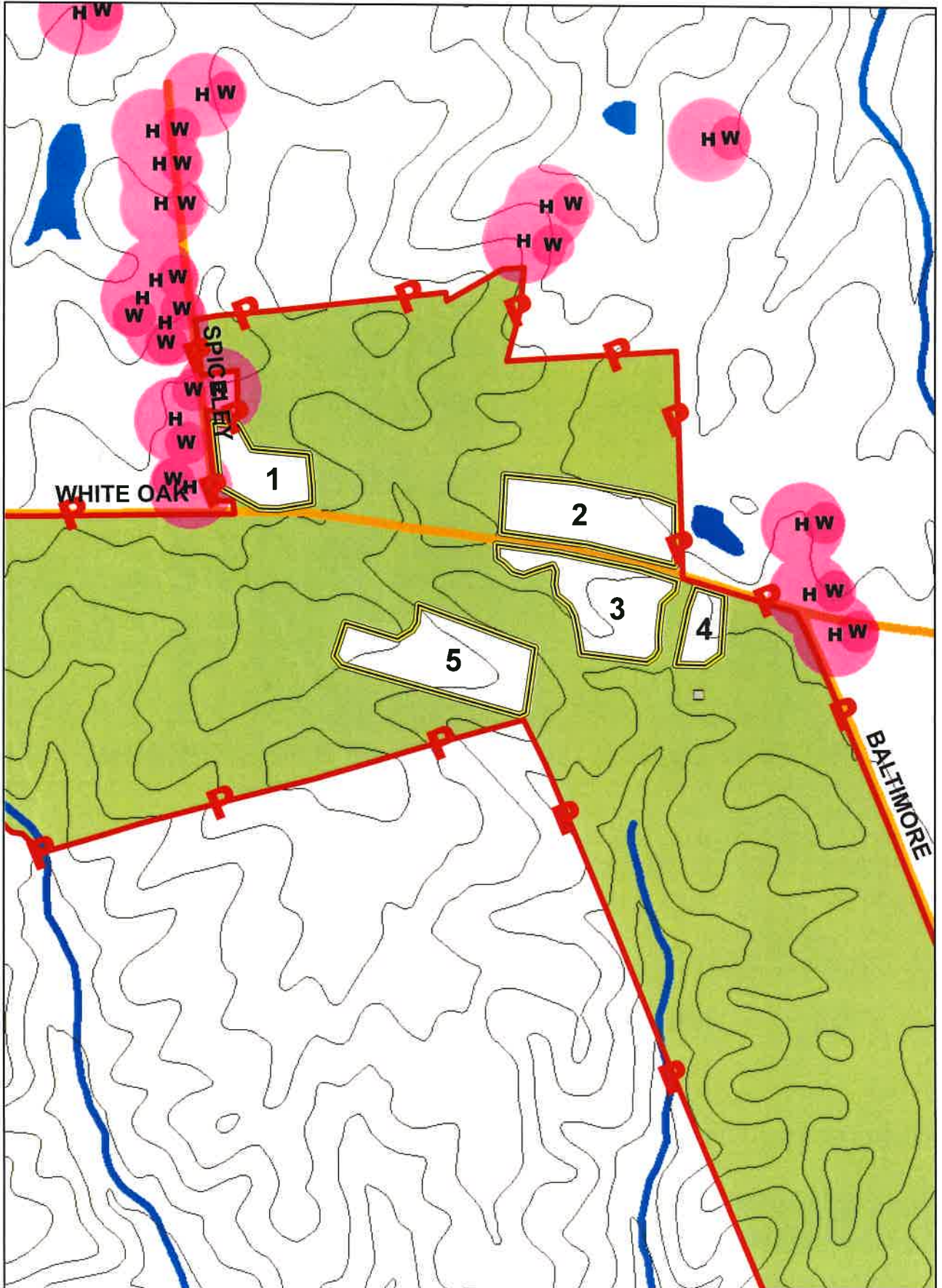
15% maximum



Hashed out Area

No application

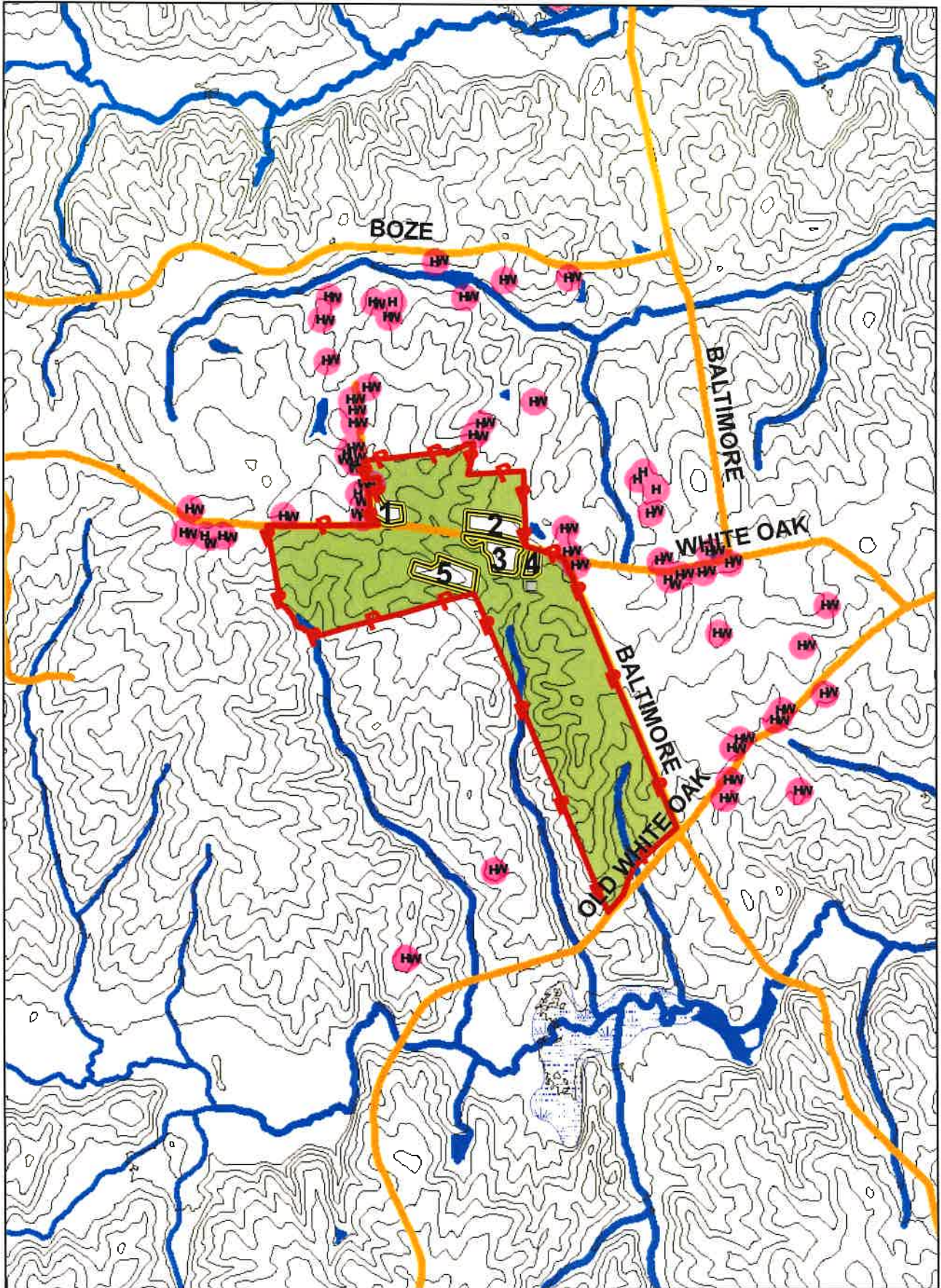
*Buffer can be reduced or waived upon written consent from landowner.



12-20-23

Site Map

1 in = 660 feet



12-20-23

Topographic Map

1 in = 2,000 feet