

LAND APPLICATION SITE

MARY JO LUNOE

CRMJL 1 & 2

CAROLINE COUNTY

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

Permittee: Recyc Systems, Inc County or City: Caroline Co.
Landowner: Mary Jo Lunsie
Patricia A. Atkins

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).

Mary Jo Lunsie
Landowner's Signature

8-10-15
Date

Patricia A. Atkins

FARM DATA SHEET

SITE NAME:	Mary Jo Lunoe	COUNTY:	Caroline
OWNER:	See below	OPERATOR:	David Beazley
OWNER'S ADDRESS:		OPERATOR'S ADDRESS:	13998 Farmer Drive Woodford Virginia 22580
OWNER'S TELEPHONE:		OPERATOR'S TELEPHONE:	
GENERAL FARM TYPE:	Row Crops	CELL PHONE:	804-381-1762
# CATTLE:	none	EMAIL:	
LAGOON or SLURRY:	None	LATITUDE:	37.962
TOPO QUAD:	Sparta	LONGITUDE:	-77.217
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
Mary Jo Lunoe		Patricia A Atkins	
25420 Lauravile Road		PO Box 1007	
Milford Virginia 22514		Bowling Green Virginia 22427	
804-633-1863		804-633-5623	

Mary Jo Lunoe

Caroline County

Field Id Changes

New Field	Old Field
part of old Maxie Broaddus Site	
1	CRMLB 16
2	CRMLB 17

MAPS

NUTRIENT MANAGEMENT PLAN IDENTIFICATION

Operator

David Beazley
13998 Farmer Drive
Woodford, VA 22580
804.381.1762

Integrator:None

Farm Coordinates

Easting: 0, Northing: 0, zone: 17

Watershed Summary

watershed: YO53
county: Caroline

Nutrient Management Planner

Susan Trumbo
Recyc Systems, Inc
PO Box 562
Remington Virginia 22734
540.547.3300

Certification Code: 103

Acreage Use Summary

Total Acreage in this plan: 40.4
Cropland: 40.4
Hayland: 0.
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 5/1/2020
Valid until 5/1/2020

Signature: _____
Planner date

**Nutrient Management Plan Balance Sheet
(Spring, 2020-Summer, 2025)**

Mary Jo Lunoe

Planner: Susan Trumbo (cert. No. 103)

Tract: 2445

Location: Caroline

(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 - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
6/MJL-01(N)	25/25	2020	Soybeans (FS)	0-60-60	0/0				0-60-60	N/A		
			Fallow	0-0-0	0/0				0-60-60	N/A		
		2021	Corn (grain)	140-60-60	20/0				120-120-120	N/A		

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 2446 Location: Caroline
 (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 - apld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
1/MJL-02(N)	15/15	2020	Soybeans (FS)	0-60-60	0/0				0-60-60	N/A		
			Fallow	0-0-0	0/0				0-60-60	N/A		
		2021	Corn (grain)	140-60-60	20/0				120-120-120	N/A		

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

Notes:

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
2445	2445/6	MJL-01	25	Kempsville	IIIa	II	Not Suited	III	
2446	2446/1	MJL-02	15	Kempsville	IIIa	II	Not Suited	III	

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, 2020 - Summer, 2025

Farm Name: Mary Jo Lunoe
Location: Caroline
Specialist: Susan Trumbo
N-based Acres: 40.4
P-based Acres: 0.0

Tract Name: 2445
FSA Number: 2445
Location: Caroline

Field Name: MJL-01
Total Acres: 25.40 Usable Acres: 25.40
FSA Number: 6
Tract: 2445
Location: Caroline
Slope Class: C Hydrologic Group: B

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

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
15	10E	Emporia Kempsville Remlik
35	11A	Emporia Kempsville
50	11B	Emporia Kempsville

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2020-Sp	39.6 bushel(s)	Soybeans (FS) - No Till
2020-Fa	0.0	Fallow - No Till
2021-Sp	138.8 bushel(s)	Corn (grain) - No Till

Tract Name: 2446
FSA Number: 2446
Location: Caroline

Field Name: MJL-02
Total Acres: 15.00 **Usable Acres:** 15.00
FSA Number: 1
Tract: 2446
Location: Caroline
Slope Class: C **Hydrologic Group:** B

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

P-Index Summary

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

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
 T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
85	11B	Emporia Kempsville
15	10E	Emporia Kempsville Remlik

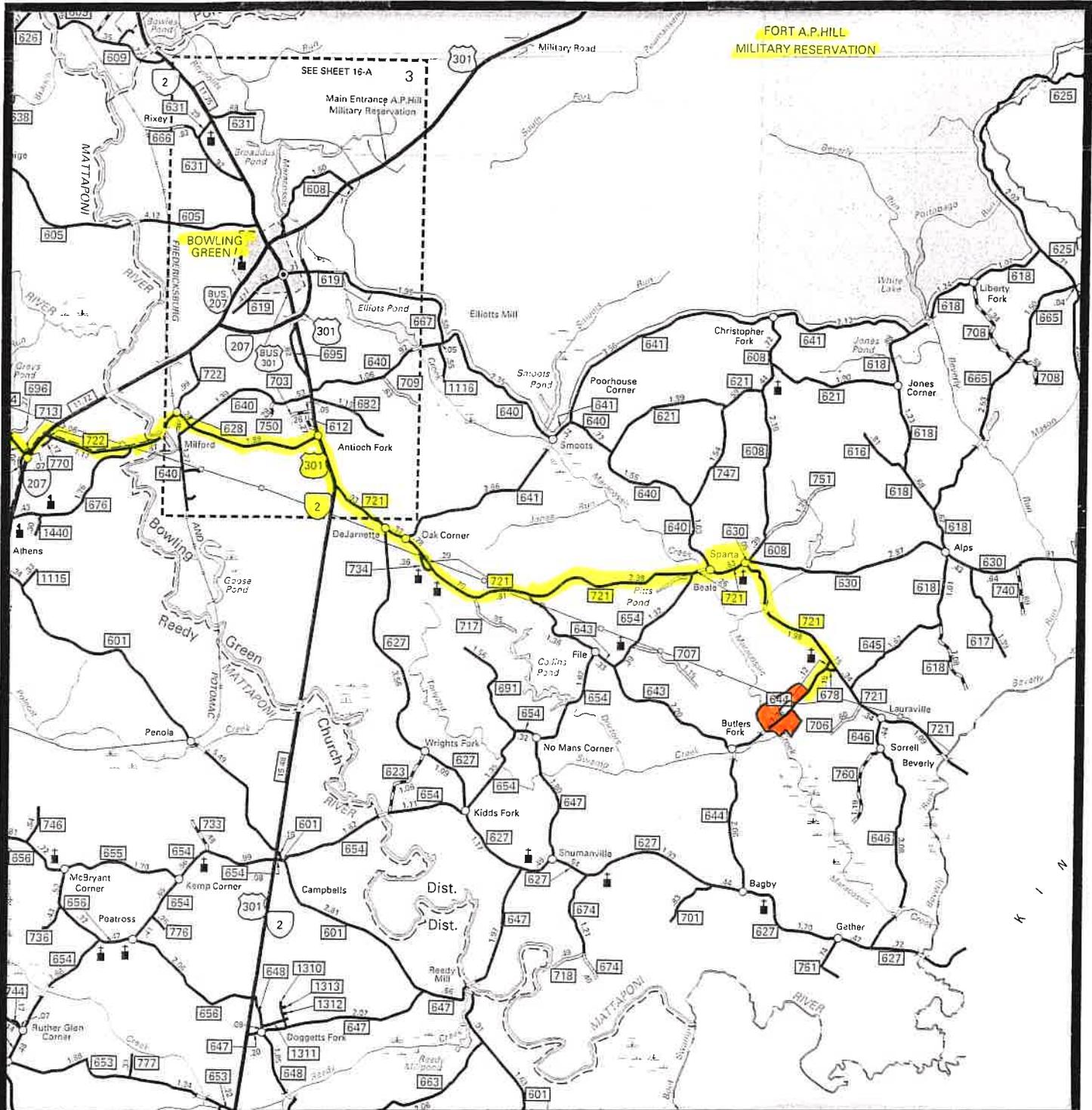
Field Warnings:

Crop Rotation:

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Recyc Systems™ Inc.

(Biosolids Land Application)



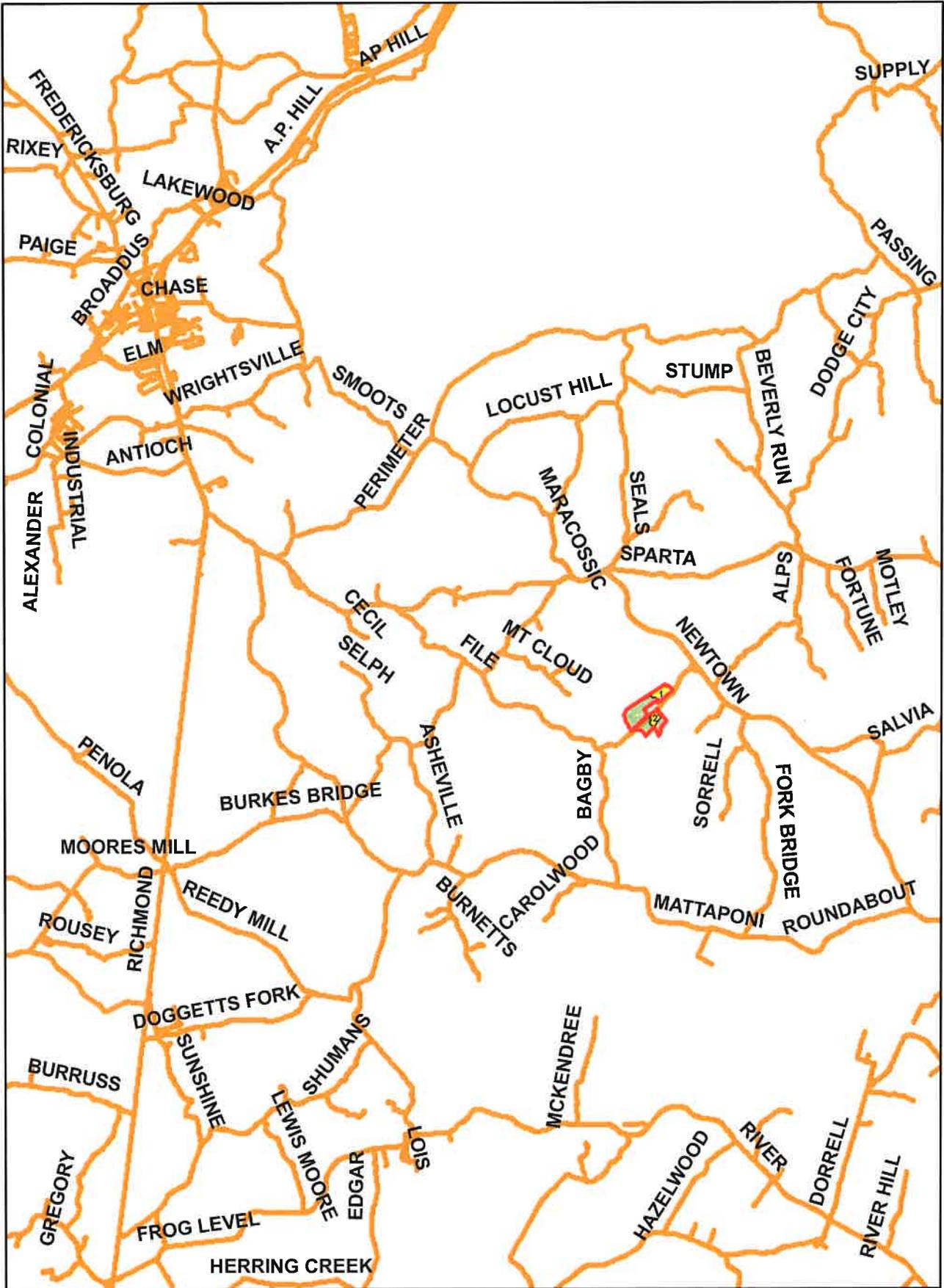
FORT A.P.HILL
MILITARY RESERVATION

Scale: 1 inch = 2 miles

Truck Route marked
in Yellow

VICINITY MAP

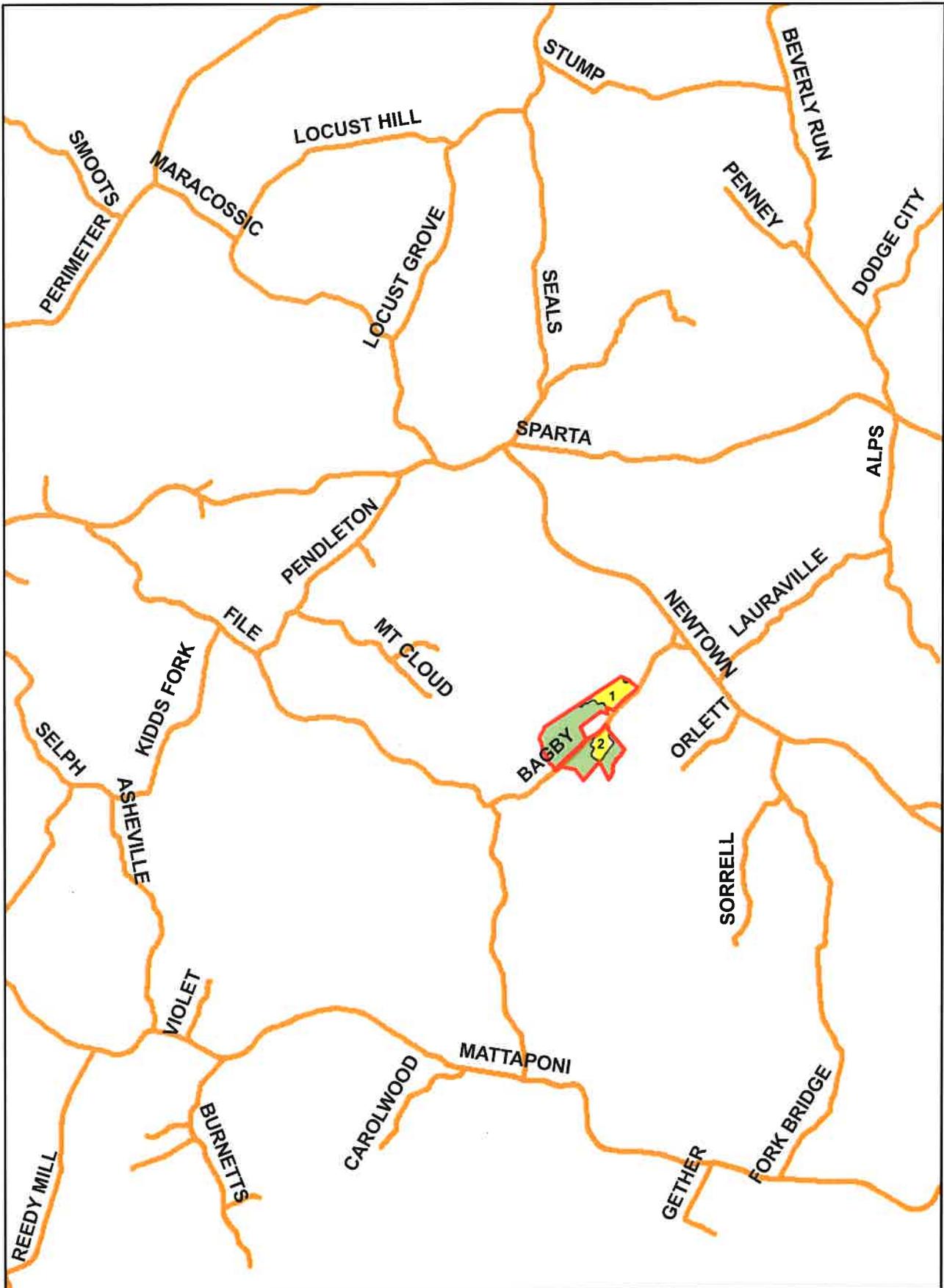


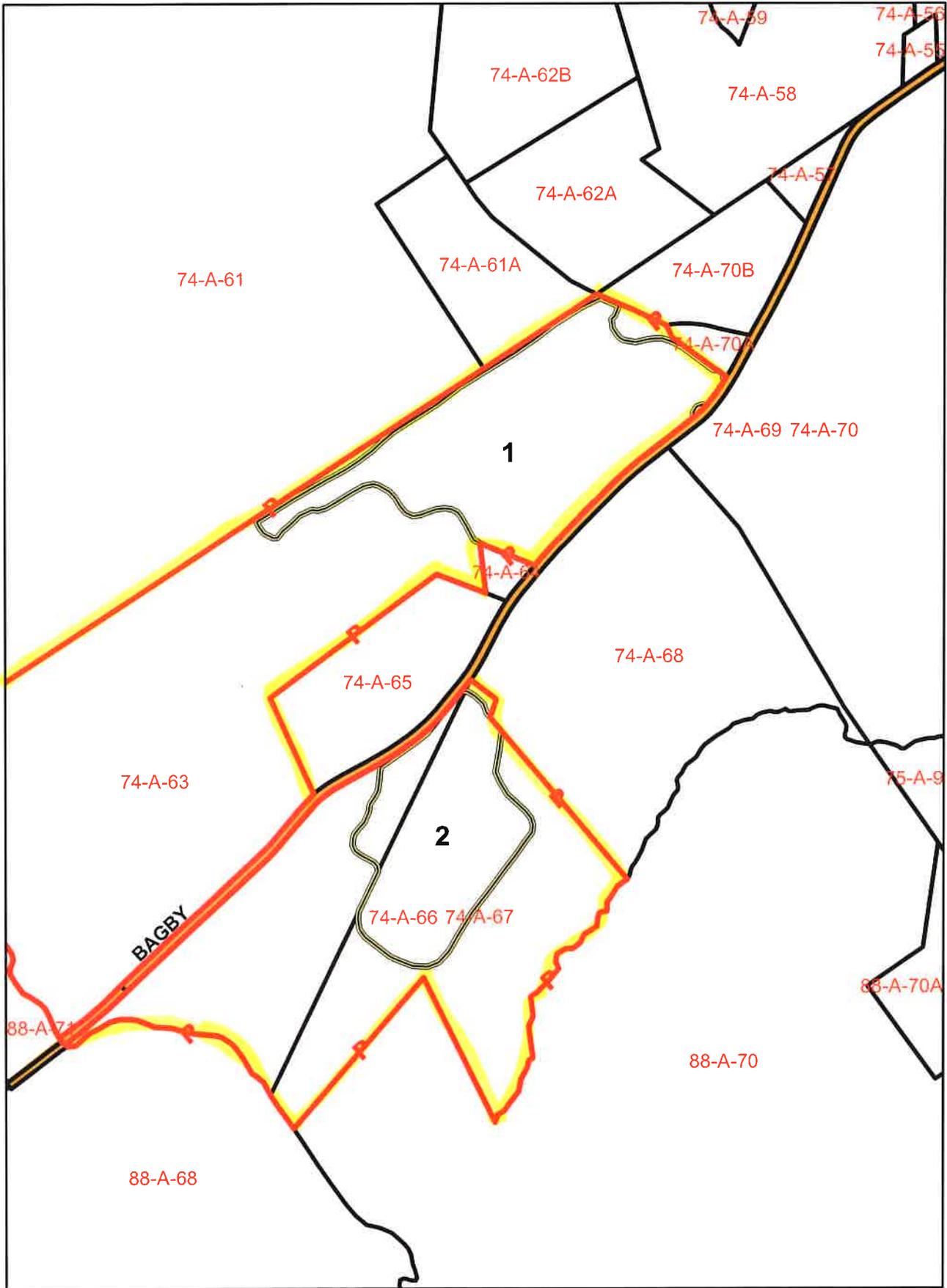


4-22-20

VICINITY MAP

1 inch = 2 miles

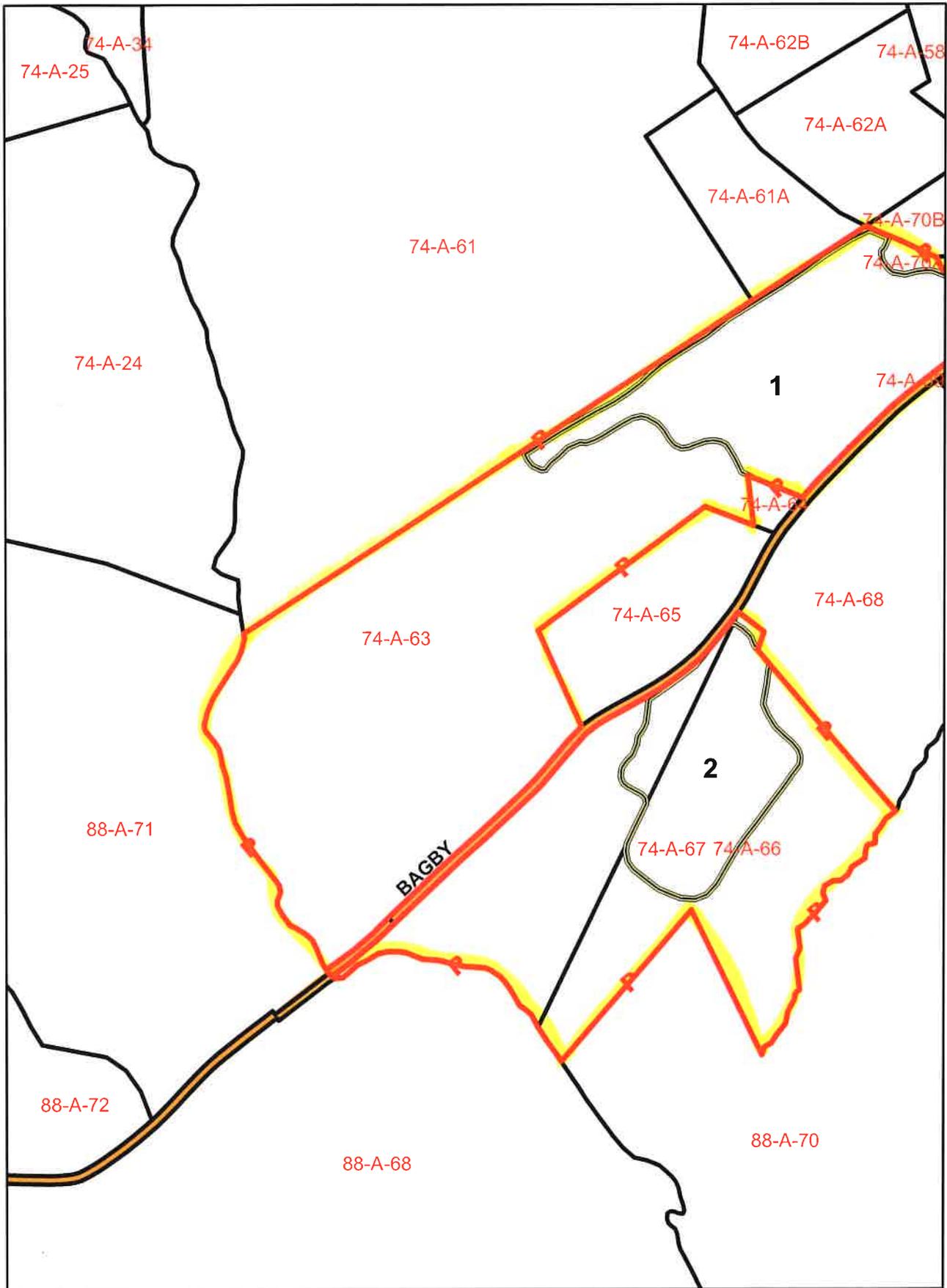




4-22-20

TAX MAP

1 inch = 660 feet

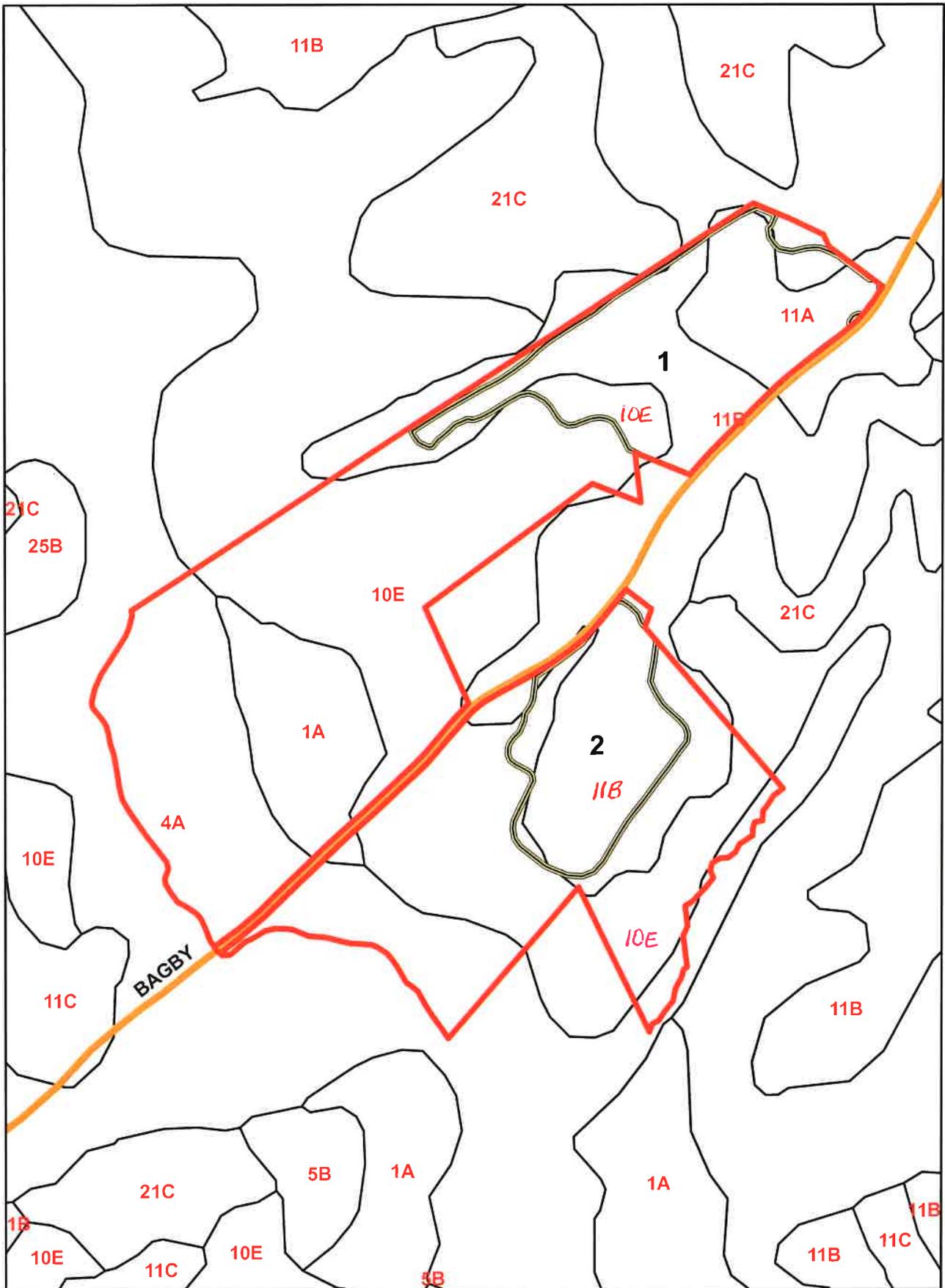


ADJOINING LANDOWNERS

Caroline County

Mary Jo Lunoe

Tax Map Number	Owner Name(s)
74-A-70	Rock Holdings East LLC
74-A-70C	Rock Holdings East LLC
74-A-68	Rock Holdings East LLC
74-A-64	John T Braver Jr etux
88-A-70	C Todd Beazley
88-A-68	Margarette C Upshaw
88-A-71	Benjamin K Adamson
74-A-24	Benjamin K Adamson
74-A-61	Jeffrey T & Linda L Murphy
74-A-61A	Jeffrey T & Linda L Murphy
74-A-62A	Jeffrey T & Linda L Murphy
74-A-65	Mary Jo Lunoe & Patricia A Atkins
74-A-70B	Jeffrey T & Linda L Murphy
74-A-70A	Nicholas Suszczewwicz



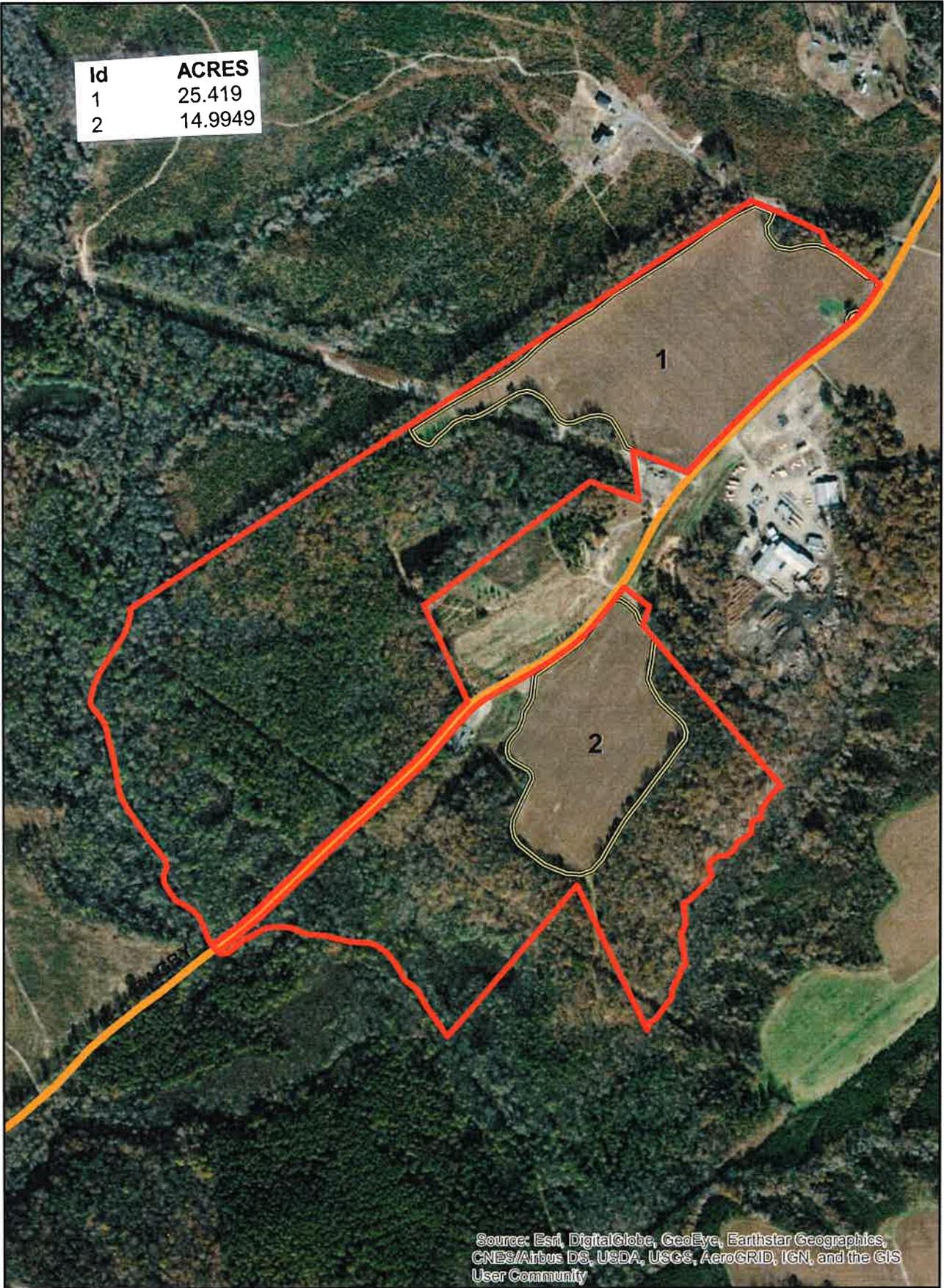
4-22-20

SOIL MAP

1 inch = 660 feet



Id	ACRES
1	25.419
2	14.9949



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



4-22-20

AERIAL MAP

1 inch = 660 feet

USDA Essex County, Virginia



Common Land Unit
 Cropland Non-cropland CRP

2019 Crop Year

Farm 3059
Tract 2445

- Wetland Determination Identifiers
- Restricted Use
 - Limited Restrictions
 - ☒ Exempt from Conservation Compliance Provisions



Tract 1 of 2

4-22-20

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).



Common Land Unit
 Cropland Non-cropland CRP

2019 Crop Year

Farm 3059
Tract 2446

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

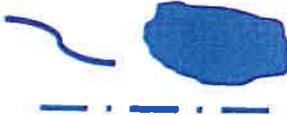


Tract 2 of 2

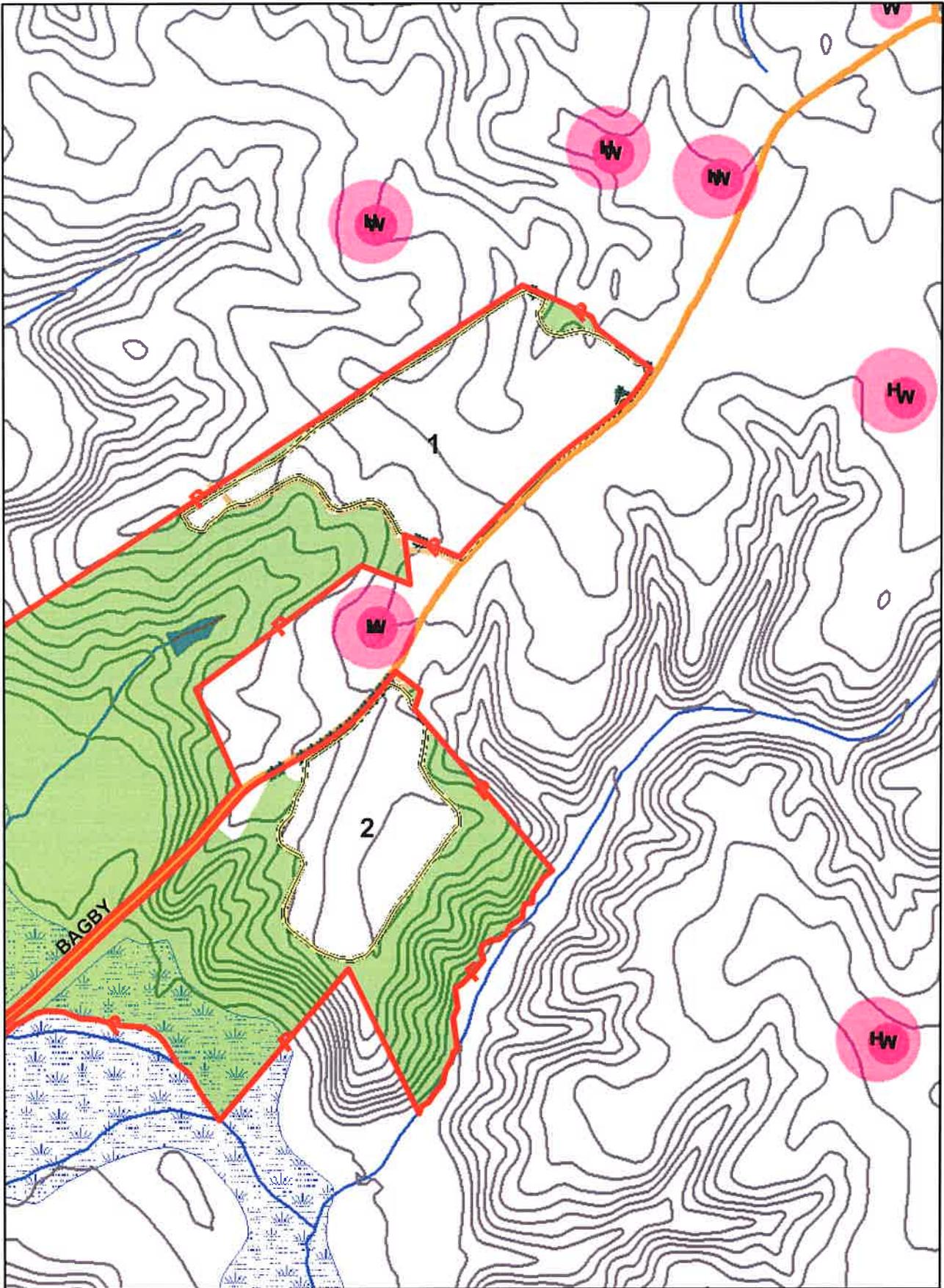
4-22-20

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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

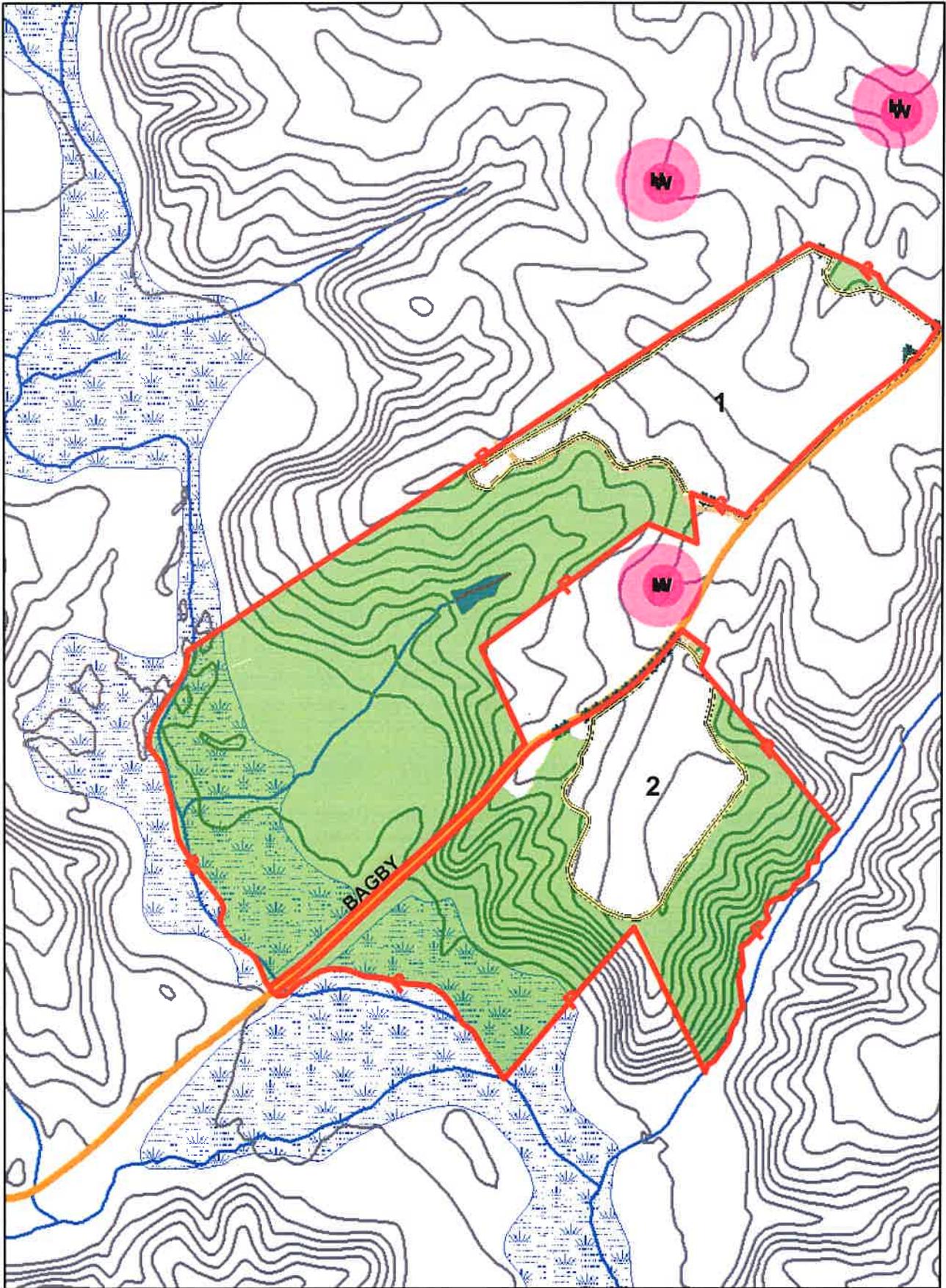
*Buffer can be reduced or waived upon written consent from landowner.



4-22-20

SITE PLAN

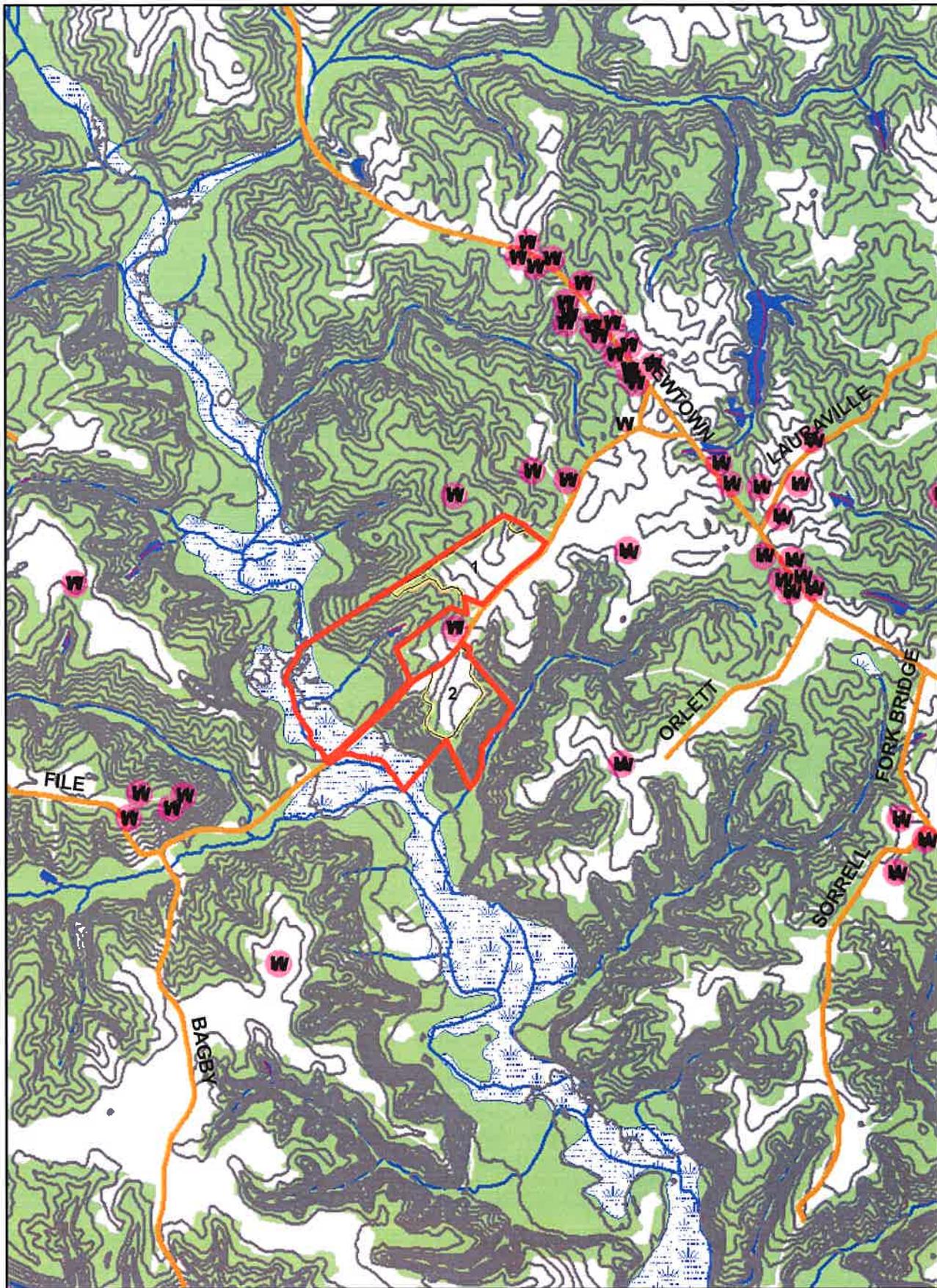
1 inch = 660 feet



4-22-20

SITE PLAN

1 inch = 660 feet



4-22-20

TOPOGRAPHIC MAP

1 inch = 2,000 feet