LAND APPLICATION OF BIOSOLIDS
STEVE WINTERS

EX 87 (FIELDS 01-03)
ESSEX COUNTY, VIRGINIA
NOVEMBER 09, 2022

1681 Tappahannock Blvd
Tappahannock, VA 22560
www.synagro.com

SYNAGRO

SEPTEMBER 1, 2021

Mr. Neil Zahradka
Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

Dear Mr. Zahradka,

Transmitted herein for your consideration is land application site for Steve Winters (designated as EX 87, fields 1-3), located in Essex County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

Hunter Davis

Technical Services Specialist

FIELD SUMMARY SHEET

STEVE WINTERS EX 87

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
87-01	185.9	185.9		Agriculture	Bestland Farm LLC
87-02	2.8	2.8		Agriculture	Bestland Farm LLC
87-03	42.8	42.8		Agriculture	Bestland Farm LLC
TOTALS:	231.5	231.5			

11/092022

SYNAGRO

VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: Stephen G. Winters PHONE: (804) 347-3323

ADDRESS: 6489 Cold Harbor Road, Mech. VA 23111

FARM LOCATION: _____

FSA TRACT #: _____

TOTAL ACRES: 200 COUNTY: Essex

CROPS: ~~Corn~~ Soybeans/ corn

1. I agree to be responsible for adhering to the following conditions, where applicable:
   a. The soil pH will be adjusted ≥6.0 when biosolids are applied. (This may be accomplished through the application of lime-treated biosolids).
   b. Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intended for dairy production should not be allowed to graze on the land or be fed chopped foliage for 60 days after the application of biosolids. Meat-producing livestock should not be fed chopped foliage for 30 days after the application of biosolids.
   c. Food crops for direct human consumption with harvested parts below the surface of the land shall not be harvested for 14 months after the application of biosolids.
   d. Food crops for direct human consumption 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 ≥ 4 months prior to incorporation into the soil or 38 months when the biosolids remain on the land surface < 4 months prior to incorporation.
   e. Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids.
   f. Public access to land with a low potential for public exposure (land the public uses infrequently including but not limited to agricultural land and forests) shall be restricted for 30 days after application of biosolids. Public access to land with a high potential for public exposure (land the public uses frequently including but not limited to a public contact site such as parks, playgrounds and golf courses) shall be restricted for 1 year. No biosolids-amended soil shall be excavated or removed from the site for 30 days following the biosolids application unless adequate provisions are made to prevent public exposure to soils, dusts or aerosols.
   g. 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 the permitting authority.
   h. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids applications such that the total crop needs fro nutrients are not exceeded as identified on the nutrient balance sheet or the nutrient management plan approved by the Virginia Department of Conservation and Recreation to be supplied to the farm operator by Synagro at the time of application of biosolids to a specific permitted site.
   i. Tobacco, because it has been shown to accumulate cadmium, should not be grown for three years following the application of biosolids-borne cadmium equal to or exceeding 0.45 lbs/acre.
2. I understand that this transaction is not contemplated by the parties to be a sale of goods, and that Synagro is willing to provide to me without charge the service of land applying biosolids which have been approved by the appropriate regulatory agencies for land application.
3. I understand that successful crop production depends on many variables, such as weather, soil conditions and specific farming practices and that while Synagro has experience with land application of biosolids, the responsibility for properly accommodating agricultural practices to biosolids utilization are solely mine. I have also read and understand the "Important Information About Using Biosolids as a Fertilizer" which is on the reverse side and incorporated by reference in this Request and Consent.

Stephen G Winters
OPERATOR'S SIGNATURE

8-29-19
DATE

IMPORTANT INFORMATION ABOUT USING BIOSOLIDS AS A FERTILIZER

Biosolids Generation

Biosolids are the accumulated, treated solids separated from water during the treatment of wastewater by public and private wastewater treatment plants (Generators). The Generator is responsible for supplying biosolids that are suitable for land application under state and federal regulations.

Benefits of Biosolids

Biosolids provide nitrogen in a form that can be taken up by plants during their growth cycle. Biosolids also add phosphorus to the soil. If lime is added to biosolids, the biosolids will have the added benefit of a liming agent. Biosolids contain primary, secondary and micronutrients that can be used by plants. Biosolids are primarily an organic material; when added to soil, they improve water and nutrient retention, reduce erosion potential and improve soil structure.

The Permitting Process

Once the farm operator requests biosolids, a Synagro representative initially evaluates the farm for truck access and field conditions. If the farm is found to be suitable and the Request for Biosolids and the Consent for Biosolids forms are signed, Synagro will collect soil samples and have them analyzed by an independent laboratory.

Synagro will then apply for any federal, state or local permits required for biosolids application. The permits will specifically identify the fields to which biosolids will be applied and will be issued to Synagro or the Generator.

After the permits are obtained (a process that may take several months or more) Synagro will apply biosolids, as they become available, to the fields. Availability of biosolids may vary because of weather conditions, contractual arrangements with biosolids generators and other factors. Although the company cannot guarantee biosolids application because of factors beyond its control, Synagro will use its best efforts to apply biosolids to the permitted fields.

The conditions outlined in the permit will apply to any and all biosolids applications made by Synagro. Synagro will note responsible for biosolids application made by any other entity.

Periodic visits to the land application site(s) by federal, state and local regulatory staff and Synagro representatives may occur for the purpose of permitting the site, inspecting the site, applying biosolids, obtaining samples at the site and testing. Proper identification will be provided upon request.

Agronomic Considerations

Tractor-trailer units are used to deliver biosolids to the fields approved for biosolids applications. Soil compaction may occur on the travel areas used by the trucks and in areas where biosolids are unloaded for transfer to the applicator vehicle.

Since some biosolids contain lime, it is important to recognize any increase in soil pH where biosolids have been applied and exercise care in using certain herbicides. If considering the use of a sulfonylurea herbicide, particular attention should be paid to any label restrictions. High soil pH and dry weather may slow decomposition of these chemicals, resulting in carryover. For soils with low manganese levels, increased soil pH from lime addition (alone or in lime treated biosolids) may reduce manganese availability and thereby potentially reduce crop yields.

In planning a herbicide program, it should be noted that seeds may sometimes survive the biosolids treatment process - for example, tomato seeds. Also, the organic matter additions from biosolids application (organic matter tends to tie up certain herbicides) may require increased herbicide application rates. Consult your extension agent or chemical representative for a specific recommendation.

Biosolids contain salts. Biosolids applications alone rarefy cause salt problems. However, if combined with other significant salt-increasing factors, such as drought, excessive soil compaction, saline irrigation water and salt-contain fertilizers, salts may reach levels that could negatively affect germination and growth of some crops.

While odors from biosolids applications are not usually significant, and typically less than that from livestock manure, it is possible that an odor from the decomposition of organic matter may be noticed. It this occurs, it generally disappears in a short time.

Since biosolids provide nitrogen that will be released slowly throughout the growing season with diminishing carry-over in subsequent years, it is important to reduce the use of nitrogen and other fertilizers to appropriate levels.

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 8/29/19 between Bestland Farm LLC referred to here as "Landowner", and Synagro Central, LLC, 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 Essex, 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
50-31	50-13	50-33	

☐ 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	Mailing Address	Landowner Signature
Bestland Farm LLC By: Stephen G. Winters Title* Manager	6489 Cold Harbor Rd. Mechanicsville, VA 23111 Phone No. 804-347-3323	Stephen G. Winters

*☐ I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.

*☑ 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:
Synagro Central, LLC, 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	Mailing Address	Permittee- Authorized Representative Signature
Wayne T. Webb Jr. Title Technical Services Manager	1681 Tappahannock Boulevard Tappahannock, VA 22560 Phone No. 804-205-2348	Wayne T. Webb

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

Permittee: Synagro Central LLC **County or City:** Essex

Landowner: Bestland Farm LLC

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).

Stephen D Winters 8-29-19

Landowner's Signature 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* 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: Synagro Central, LLC County or City: Essex (EX 87)

Please Print (Signatures not required on this page

Tax Parcel ID(s)	Landowner(s)
50-33	BESTLAND FARM LLC
50-31	BESTLAND FARM LLC
50-13	BESTLAND FARM LLC

0 BESTLAND RD RT 612

Location	0 BESTLAND RD RT 612	**Mblu**	50/ / 33/ /
Acct#	4076	**Owner**	BESTLAND FARM LLC
Class	Agricultural- 20-100 Ac	**Assessment**	$91,400
Appraisal	$91,440	**PID**	3240
Building Count	1		

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$0	$91,440	$91,440
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$0	$91,400	$91,400

Owner of Record

Owner	BESTLAND FARM LLC	**Sale Price**	$75,000
Co-Owner		**Certificate**	2022
Address	6489 COLD HARBOR RD MECHANICSVILLE, VA 23111	**Book & Page**	/
		Sale Date	03/15/2022
		Instrument	01

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
BESTLAND FARM LLC	$75,000	2022	/	01	03/15/2022
DARRELL KELLUM INC	$55,000	2021	/	01	04/15/2021
ASHLEY LOGGING COMPANY INC	$0		158/16	00	04/22/2020

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0

0 BESTLAND RD

Location	0 BESTLAND RD	**Mblu**	50/ / 31/ /
Acct#	6911	**Owner**	BESTLAND FARM LLC
Clean & Green Total	$383,200	**Class**	Agrigultural - 100+ Ac
Appraisal	$523,448	**PID**	6181
Building Count	1		

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$32,200	$491,248	$523,448

Assessment					
Valuation Year	**Improvements**	**Land**	**Total**	**Clean & Green Land**	**Clean & Green Total**
2021	$32,200	$491,248	$523,448	$351,000	$383,200

Owner of Record

Owner	BESTLAND FARM LLC
Co-Owner	
Address	6489 COLD HARBOR RD MECHANICSVILLE, VA 23111

Sale Price	$0
Certificate	10
Book & Page	218/487
Sale Date	03/26/2010
Instrument	00

Ownership History

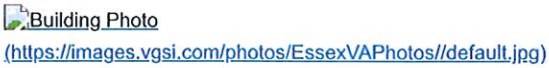
Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
BESTLAND FARM LLC	$0	10	218/487	00	03/26/2010

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0
Replacement Cost: $0
Building Percent Good:

Building Photo



(https://images.vgsi.com/photos/EssexVAPhotos//default.jpg)

0 BESTLAND RD (OFF)

Location	0 BESTLAND RD (OFF)	**Mblu**	50/ / 13/ /
Acct#	6906	**Owner**	BESTLAND FARM LLC
Clean & Green Total	$95,000	**Class**	Agricultural- 20-100 Ac
Appraisal	$160,588	**PID**	6177
Building Count	1		

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$0	$160,588	$160,588

Assessment					
Valuation Year	**Improvements**	**Land**	**Total**	**Clean & Green Land**	**Clean & Green Total**
2021	$0	$160,588	$160,588	$95,000	$95,000

Owner of Record

Owner	BESTLAND FARM LLC
Co-Owner	
Address	6489 COLD HARBOR RD MECHANICSVILLE, VA 23111

Sale Price	$0
Certificate	10
Book & Page	218/467
Sale Date	03/26/2010
Instrument	00

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
BESTLAND FARM LLC	$0	10	218/467	00	03/26/2010

Building Information

Building 1 : Section 1

Year Built:
Living Area: 1,822
Replacement Cost: $0
Building Percent Good:

Building Photo


Building Photo
(https://images.vgsi.com/photos/EssexVAPhotos//default.jpg)

EX 87 Adjoining landowners

Parcel ID	Owner Name	Owner Name	Postal Address	Postal City	State	Zip
50-12	Jean B Ball Forest LLC		19957 Tidewater Trail	Tappahannock	VA	22560
50-18	Shirley R Bowen Et Al		1590 Bestland Rd	Dunnsville	VA	22454
50-19	TFL Partners LP Et Al		1835 Mt Prospect Rd	Laneview	VA	22504
50-21	Frederick L Brooks		333 Dunbrook Road	Tappahannock	VA	22560
50-22	Frederick L Brooks		3333 Dunbrook Road	Tappahannock	VA	22560
50-22A	Carrol Lee Walker Estate		PO Box 48	Walkerton	VA	23177
50-24	Bayton Griselda		PO Box 96	Center Cross	VA	22437
50-25B	Raymond H Jenkins		PO Box 186	Bena	VA	23018
50-28	Delilah B Vandiver		2734 Cheaneys Bridge Rd	Dunnsville	VA	22454
50-28B	Regina B Lewis	Sally B Saunders R/S	8032 Holland Rd	Alexandria	VA	22306
50-29	Chris L Spencer	Kashida M Spencer	7007 Pickford Ct	Arlington	TX	76001
50-30	Samuel Gresham		6861 Drifton Ct	Centreville	VA	20121
50-32A	TFL Partners LP Et Al		1835 Mt Prospect Rd	Laneview	VA	22504
50-34	Robert Mason Mitchell		5784 Howerton Rd	Dunnsville	VA	22454
50-35	Jean B Ball Et Al		19957 Tidewater Trail	Tappahannock	VA	22560
50-36	Joesph Fairlamb	Brenda Fairlamb	9908 Alf Court	Glen Allen	VA	23060
50-37	Jean B Ball Forest LLC		19957 Tidewater Trail	Tappahannock	VA	22560
50-76	Robert Owen Durfour Sr Et Ux		1842 Bestland Rd	Dunnsville	VA	22454
50-77	Oak Grove Baptist Church			Dunnsville	VA	22454
50-8	James E & Betty Fauntleroy	James H Jr & Diane M	2836 Oldmans Creek Rd	Swedesboro	NJ	08085

TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
Bestland Farm LLC	87-01	50-31
		50-33
Bestland Farm LLC	87-02	50-31
Bestland Farm LLC	87-03	50-13

Field Number	Latitude (North)	Longitude (West)
87-01	37.803°	-76.894°
87-02	37.807°	-76.900°
87-03	37.812°	-76.901°

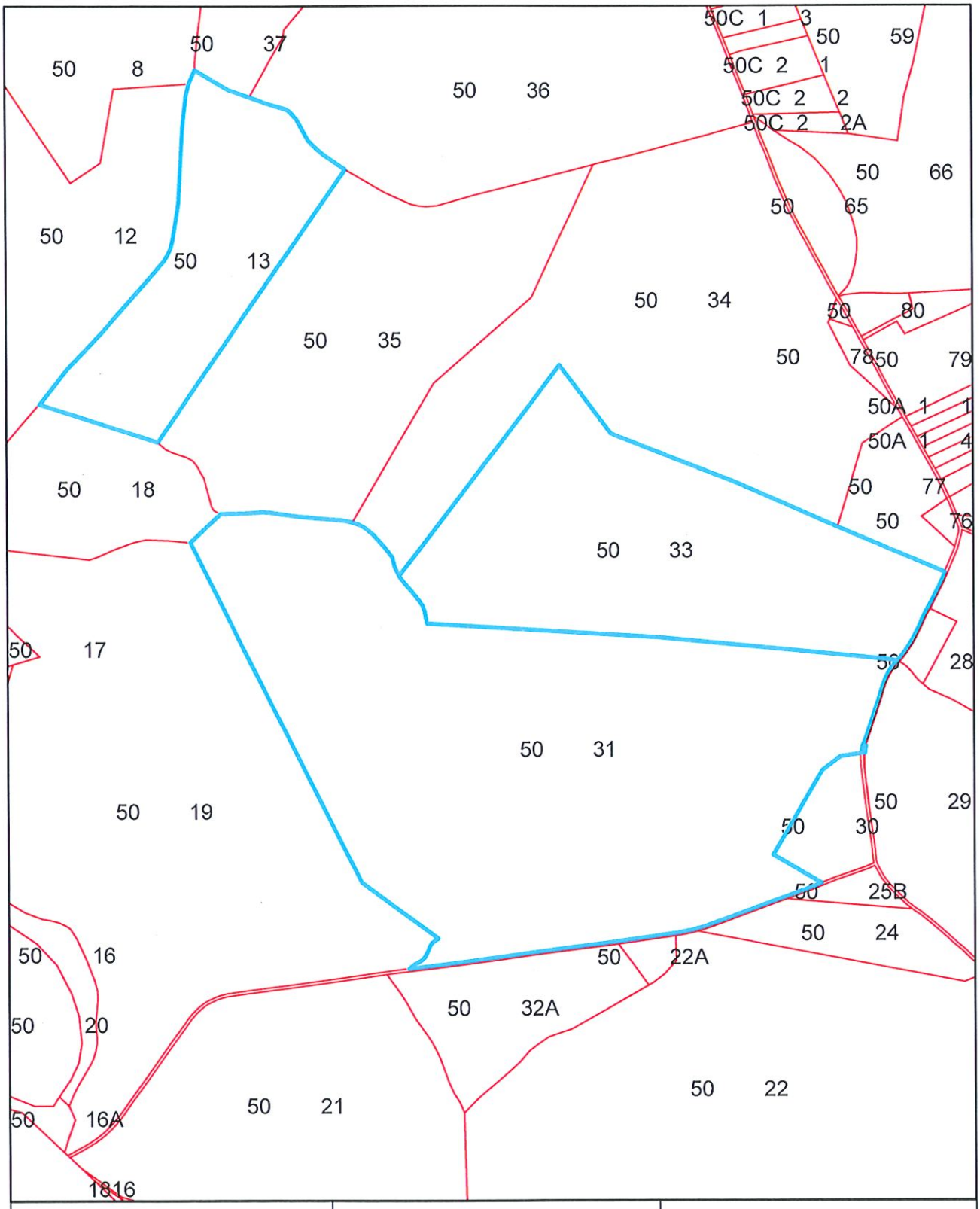
*Latitude and Longitude are a random point determined by ArcView program

Haul Route:

The Location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences: to include but not limited to all federal, state, and local granted STAA access routes.

SYNAGRO

Steve Winters
EX 87
Fields 1-3



1 inch = 1,000 feet	TAX MAP	1:12,000

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 warrented 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.

Revised 11/9/22

Farm Summary Report

Plan: **New Plan** **Spring, 2021 - Spring, 2031**

Farm Name: **New Farm**
Location: Essex
Specialist: Wayne T. Webb Jr.
N-based Acres: 231.5
P-based Acres: 0.0

Tract Name: **EX 87**
FSA Number: 0
Location: Montgomery

Field Name: **1**
Total Acres: 185.90 Usable Acres: 185.90
FSA Number: 0
Tract: EX 87
Location: Essex
Slope Class: B Hydrologic Group: C

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

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
27	1A	Atlee
9	2A	Augusta
1	3A	Bibb
16	9B	Emporia
8	9C	Emporia
13	20D	Rumford Slagle
25	21B	Slagle
2	23B	Suffolk

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: 2

Total Acres:	2.80	Usable Acres:	2.80
FSA Number:	0		
Tract:	EX 87		
Location:		Essex	
Slope Class:	C	Hydrologic Group:	C

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

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
21	20D	Rumford Slagle
79	21B	Slagle

Field Warnings:
Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: 3

Total Acres:	42.80	Usable Acres:	42.80
FSA Number:	0		
Tract:	EX 87		
Location:		Essex	
Slope Class:	B	Hydrologic Group:	C

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

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
49	1A	Atlee
21	9A	Emporia
13	9B	Emporia
5	9C	Emporia
13	10B	Kempsville

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
87-01	High Water Table (Map Unit 2A,3A - 9.9%) Flooding Potential (Map Unit 3A - 0.8%)
87-02	None
87-03	None

are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
2A	Augusta	Jan-May		
3A	Bibb	Jan-Apr, Dec	Jan-May, Dec	Drainage
4A	Bojac			Leaching
6B	Catpoint			Leaching
7A	Chickahominy	Jan-Apr,Nov-Dec		
11A	Levy		Jan-Dec	Drainage Shallow Soils
12A	Molena			Leaching
14A	Newflat	Jan-Apr, Nov-Dec		
17A	Rappahannock	Jan-Dec	Jan-Dec	Drainage Shallow Soils
18B, 19E	Rumford			Leaching
25A	Tomotley	Jan-Apr, Nov-Dec		

Map Legend

House/Dwelling with a well
- 200' buffer-dwelling (with conditions for reduction);
- 100' buffer-well

Rock Outcrop
- 25' buffer

Limestone Outcrop / Closed Sinkholes
- 50' buffer

Well/Springs/Open Sinkholes
- 100' buffer

Lake/Pond
- 35' w/vegetative buffer; 100' without vegetative buffer

Slope which exceeds 15%

"PAS" - Publicly Accessible Site
- 200' buffer

Stream/River
- 35' w/vegetative buffer; 100' without vegetative buffer

Agricultural/Drainage Ditch
- 10' buffer

Field Boundary

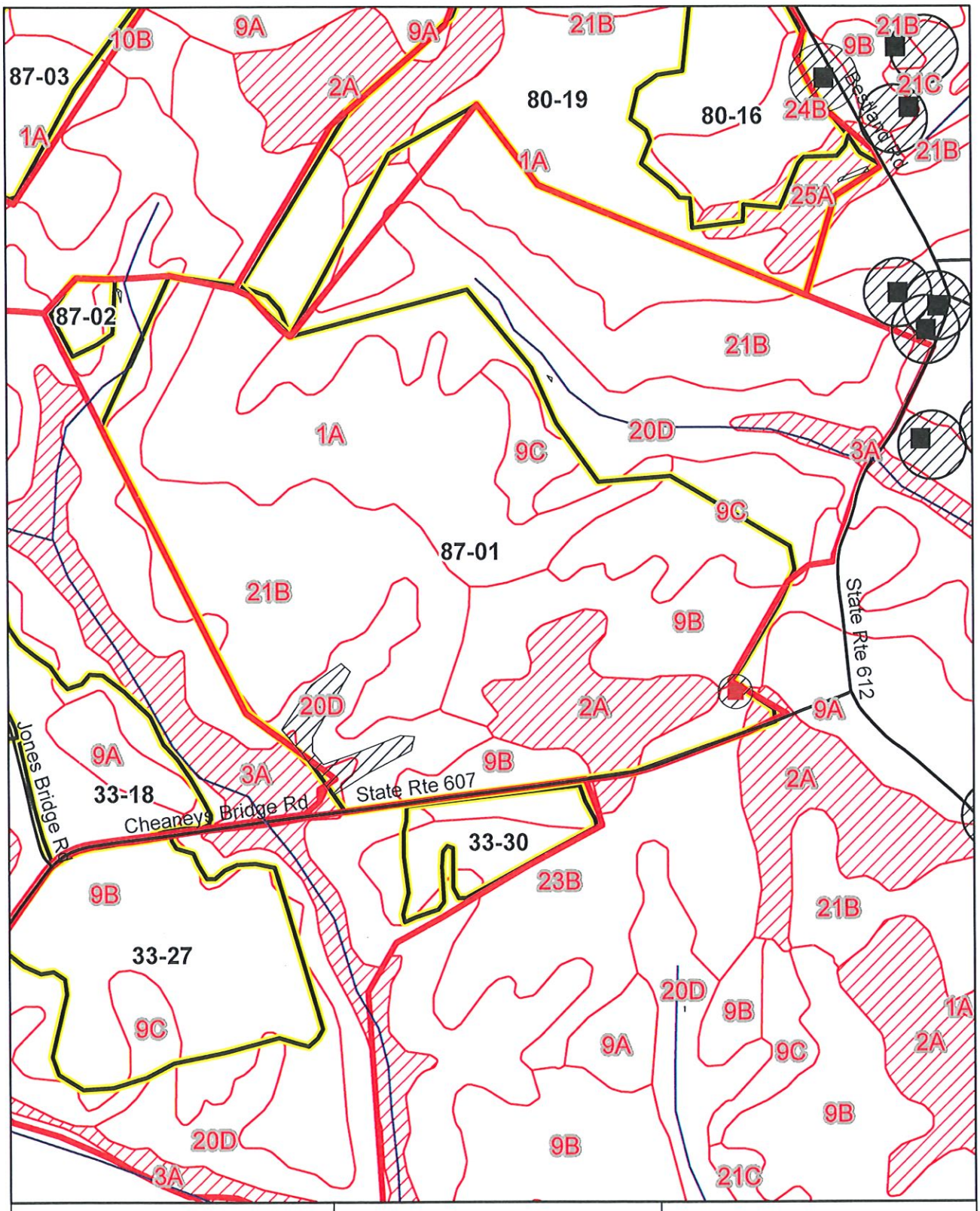
Property Line
- 100' buffer unless waiver issued

SYNAGRO

Updated July 2018

SYNAGRO

Steve Winters
EX 87
Fields 1-2



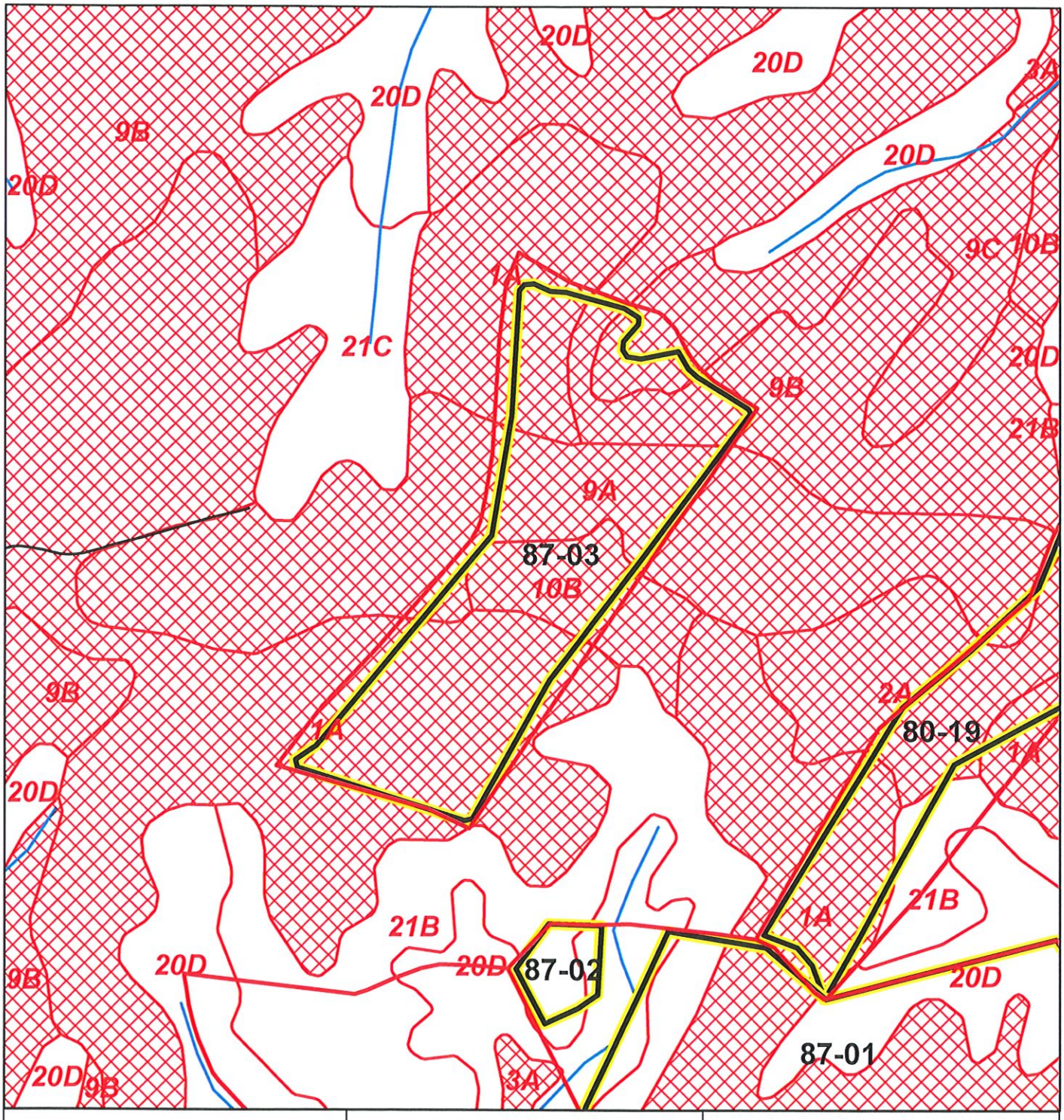
1 inch = 850 feet	SOIL MAP	1:10,200

Environmentally Sensitive Soils

Revised 11/9/22

SYNAGRO

Steve Winters
EX 87
Field 3



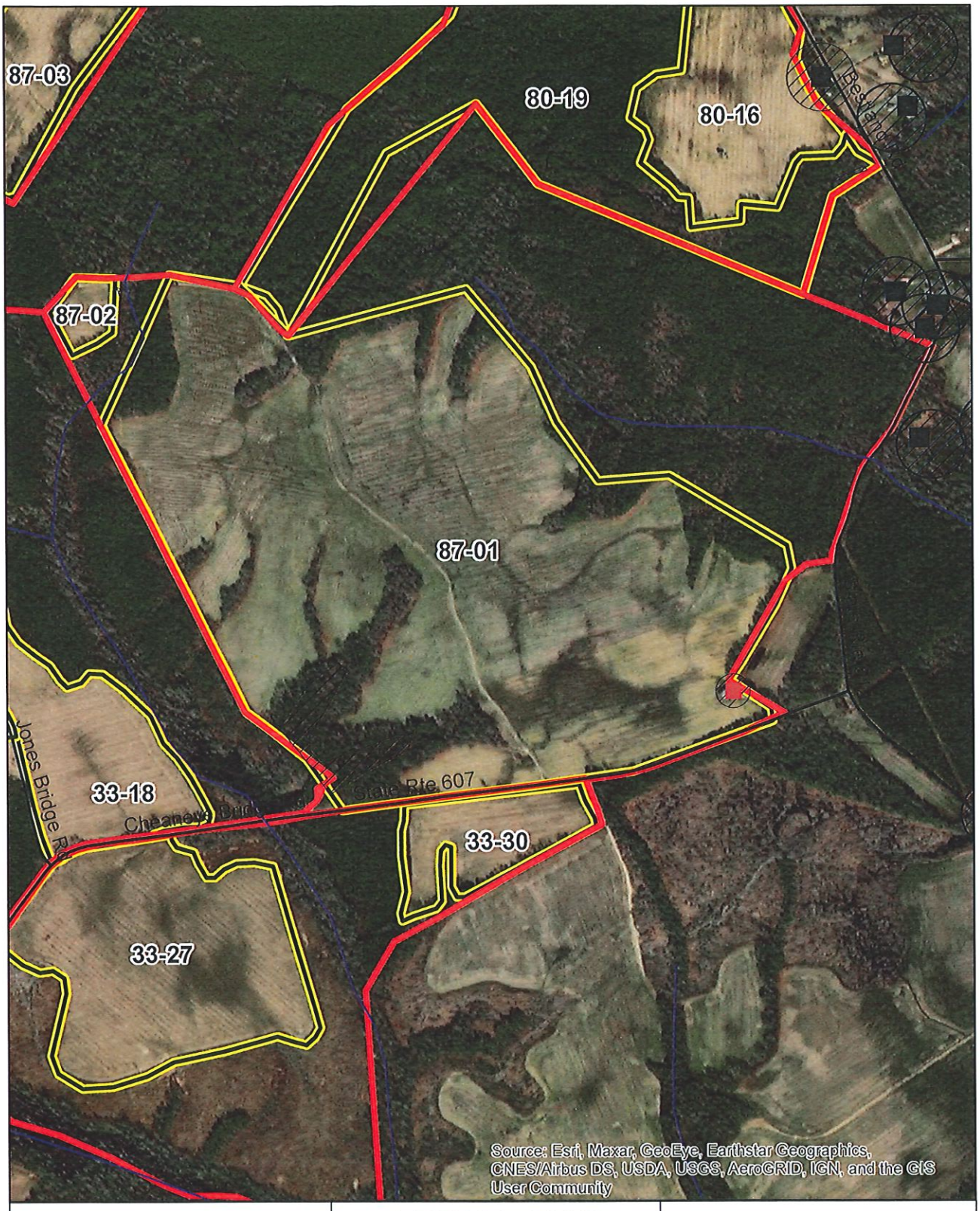
1 inch = 660 feet	SOIL MAP	1:7,920

Environmentally Sensitive Soils

5/22/23

SYNAGRO

Steve Winters
EX 87
Fields 1-2

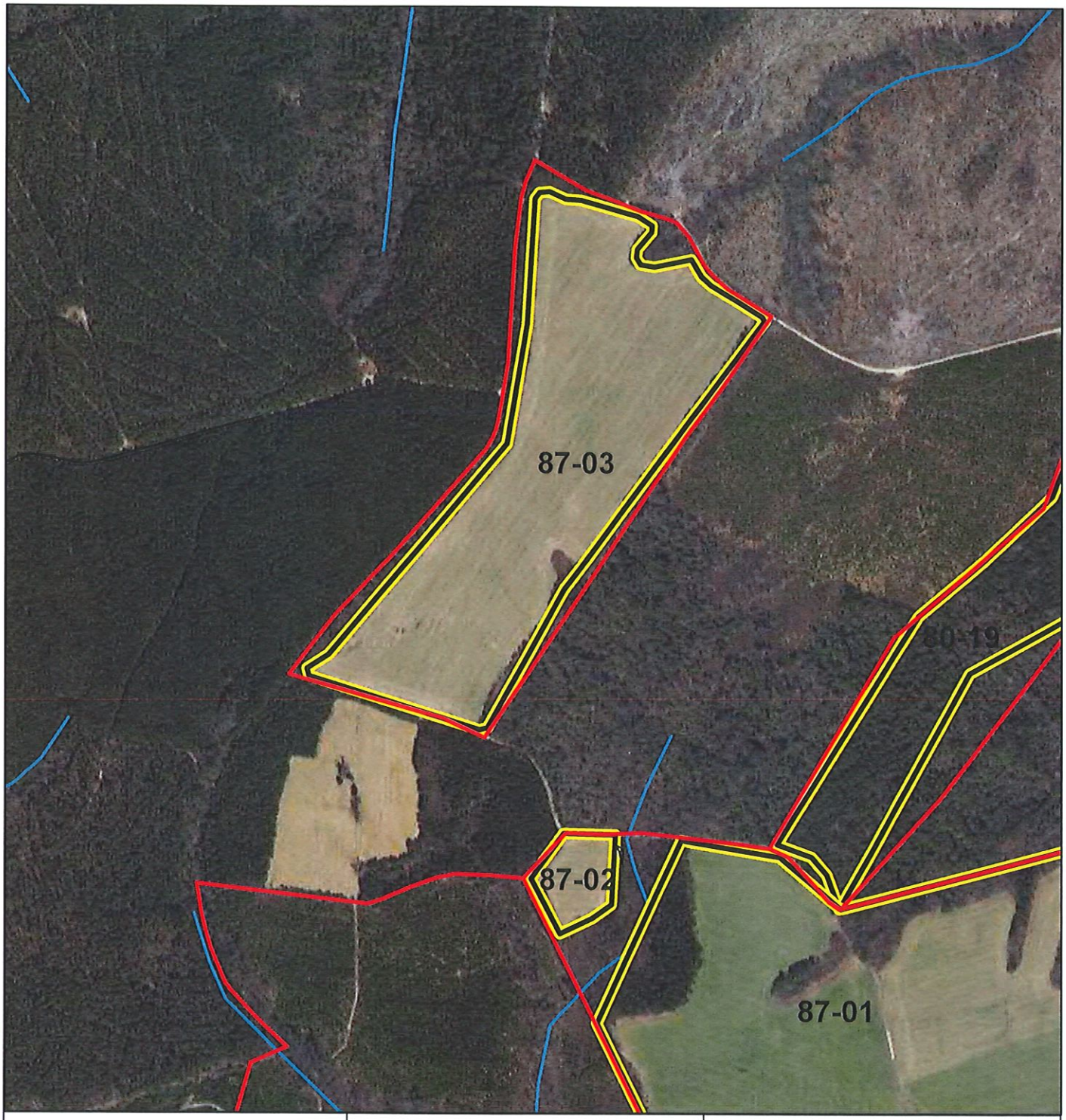


1 inch = 850 feet	AERIAL MAP	1:10,200

Revised 11/9/22

SYNAGRO

Steve Winters
EX 87
Field 3

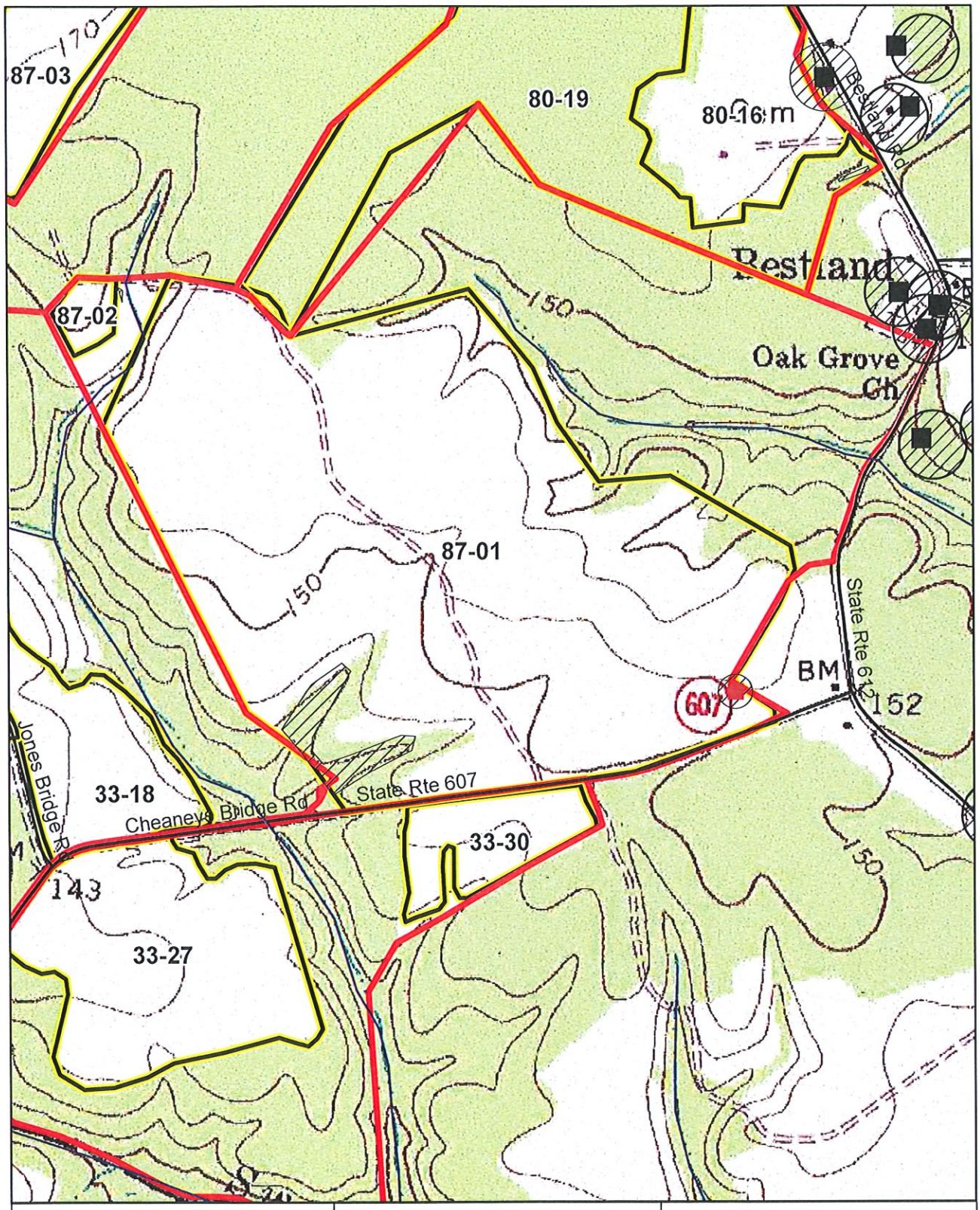


1 inch = 660 feet	AERIAL MAP	1:7,920

5/22/23

SYNAGRO

Steve Winters
EX 87
Fields 1-2



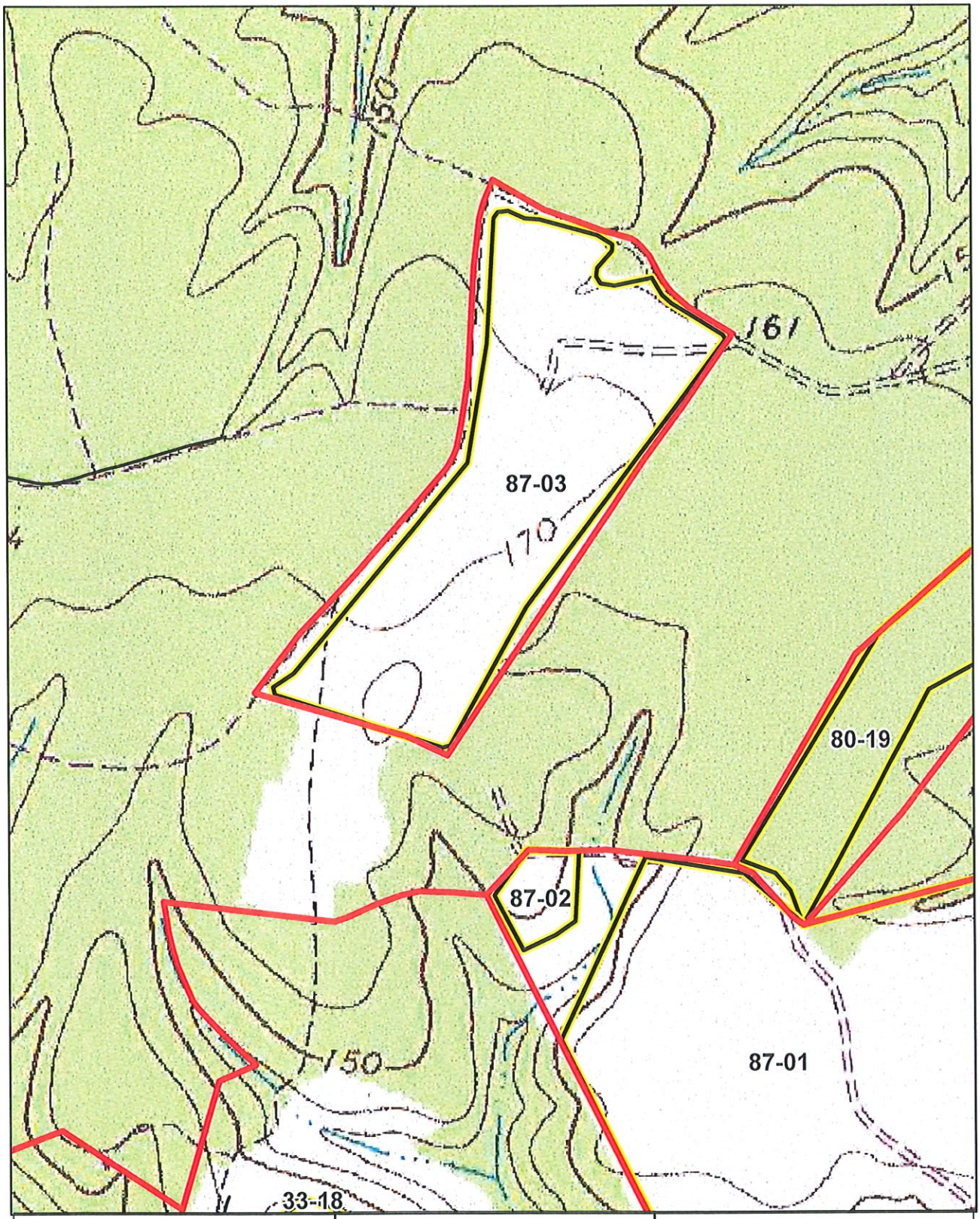
1 inch = 850 feet	TOPO MAP	1:10,200

FIELD	ACRES
87-01	185.9
87-02	2.8

Revised 11/9/22

SYNAGRO

Steve Winters
EX 87
Field 3



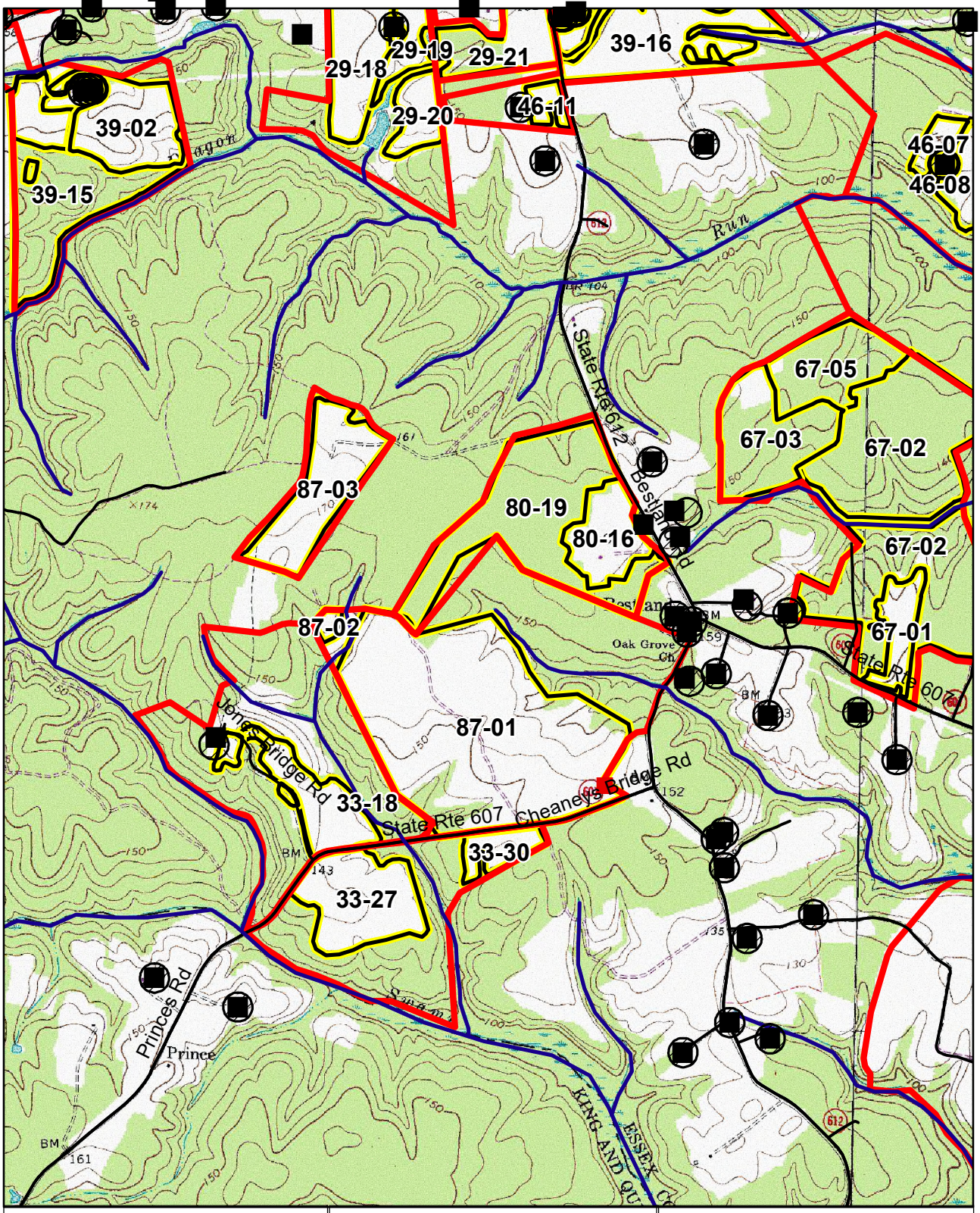
1 inch = 660 feet	TOPO MAP	1:7,920

FIELD	ACRES
87-03	42.8

5/22/23

SYNAGRO

Steve Winters
EX 87
Fields1-3

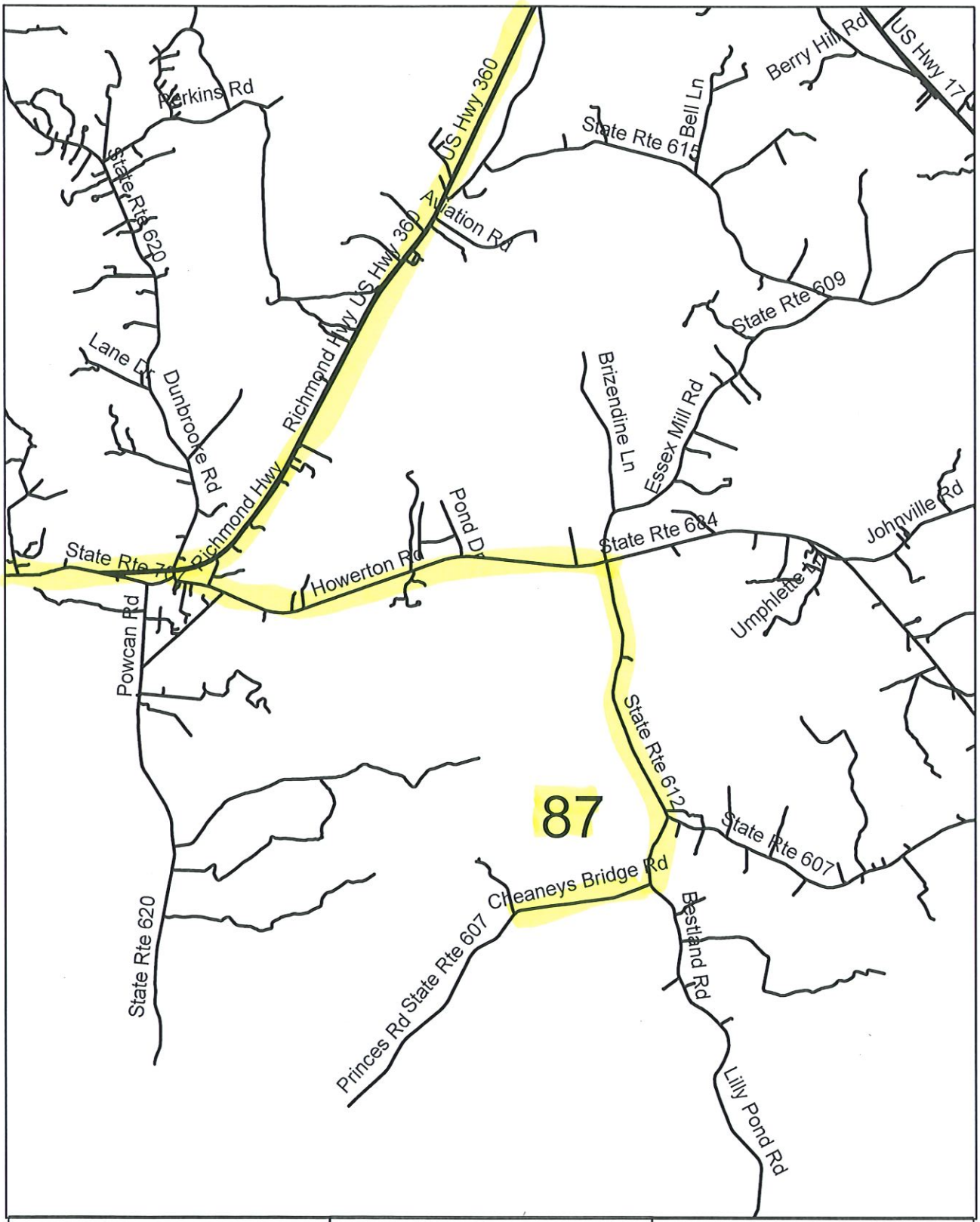


1 inch = 2,000 feet	TOPO MAP	1:24,000

Revised 3/4/2024

SYNAGRO

Steve Winters
EX 87
Fields1-3

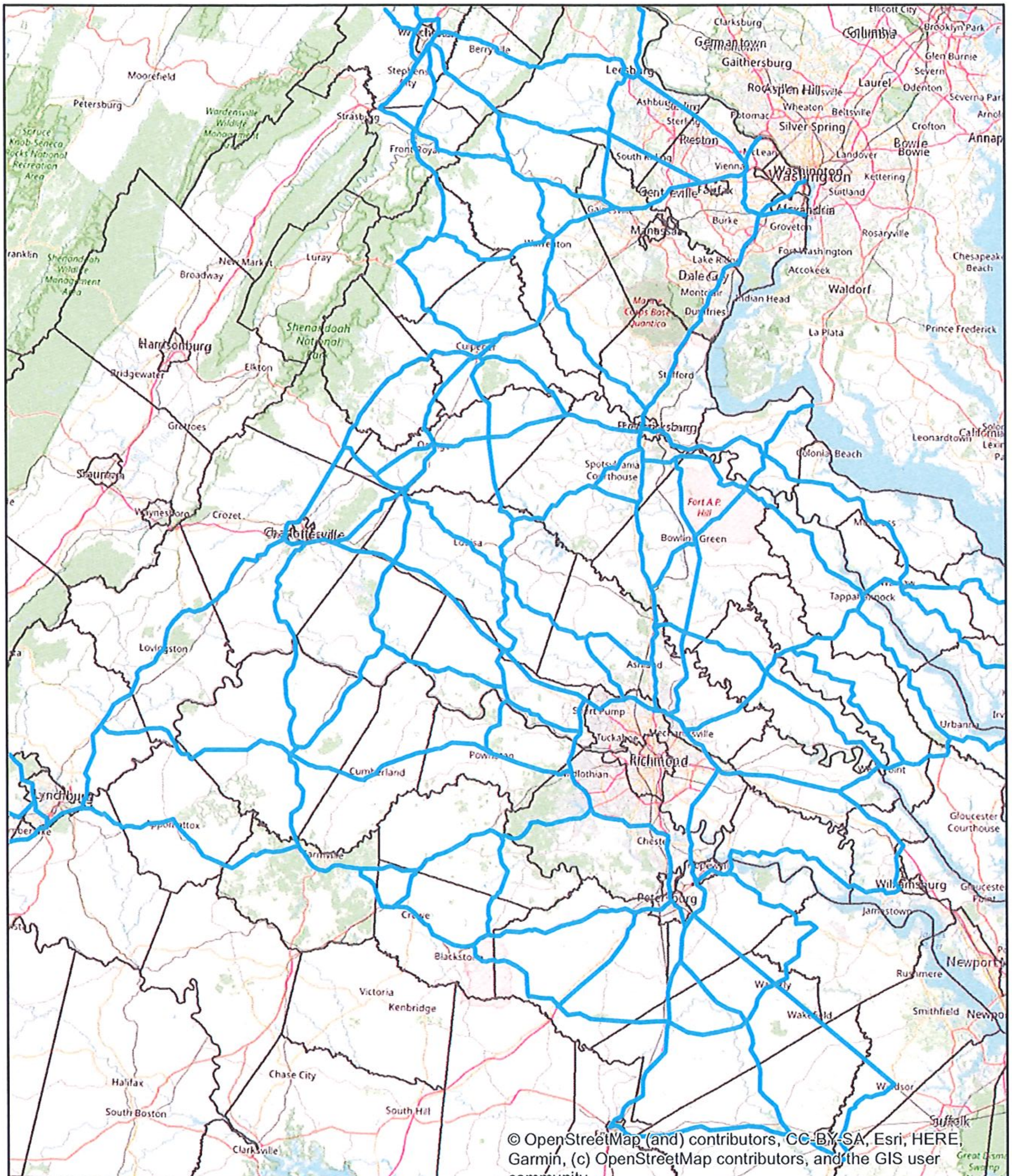


1 inch = 5,000 feet	LOCATION MAP	1:60,000

- Haul Route

5/22/23

SYNAGRO



Haul Route

HAUL ROUTE MAP

1:1,500,000

This map highlights all major routes from approved generators to the locations of permitted sites. The Highlighted routes on the Location Map will pinpoint routes closer to the site.

9-19-'22