

LAND APPLICATION OF BIOSOLIDS  
CAREY AMBERGER

OR 22 (FIELDS 11-13, 15, 17-21)  
ORANGE COUNTY, VIRGINIA  
JUNE 2024



**SYNAGRO**

YOUR PARTNER FOR A CLEANER,  
**GREENER WORLD**

**SEPTEMBER 25, 2024**

**Mr. John Thompson**  
**Department of Environmental Quality**  
**Northern Virginia Regional Office**  
**13901 Crown Court**  
**Woodbridge, Virginia 22193**

Dear Mr. Thompson,

Transmitted herein for your consideration is land application site for Carey Amberger (designated as OR 22, fields 11-13, 15, 17-21), located in Orange 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 (410) 553-7217 should you have any questions or require additional information.

Sincerely,



Carolanne M. Whiteside  
Technical Services Coordinator



# FIELD SUMMARY SHEET

# Carey Amberger

**OR 22**

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
22-11	17.7	17.7		Agriculture	Carey Shore Amberger
22-12	17.5	17.5		Agriculture	Carey Shore Amberger
22-13	16.8	16.8		Agriculture	Carey Shore Amberger
22-15	40.9	40.9		Agriculture	Carey Shore Amberger
22-17	21.4	21.4		Agriculture	Carey Shore Amberger
22-18	15.5	15.5		Agriculture	Carey Shore Amberger
22-19	14.1	14.1		Agriculture	Carey Shore Amberger
22-20	12.1	12.1		Agriculture	Carey Shore Amberger
22-21	13.2	13.2		Agriculture	Carey Shore Amberger
TOTALS:	169.2	169.2			06/28/2024

**Changes to field acreages**

<b>SYNAGRO FIELD #</b>	<b>OLD FIELD</b>	<b>OLD ACRES</b>	<b>NEW ACRES</b>	<b>NET ACRES CHANGE</b>	<b>REASON FOR CHANGE</b>
22-11	22-11	24.3	17.7	-6.6	5.0 ac. to 13 & -1.3 ac FP
22-12	22-12	15.7	17.5	1.8	Footprint (FP)
22-13	22-13	10.8	16.8	6.0	5.0 ac. from 11 & 1.0 ac FP
	22-14	29.6	0.0	-29.6	split into 18 & 19
22-15	22-15	50.9	40.9	-10.0	FP
	22-16	27.8	0.0	-27.8	split into 20 & 21 & -2.5 ac. FP
22-17	22-17	24.9	21.4	-3.5	FP
22-18			15.5	15.5	
22-19			14.1	14.1	
22-20			12.1	12.1	
22-21			13.2	13.2	
<b>TOTALS:</b>		<b>184.0</b>	<b>169.2</b>	<b>-14.8</b>	

**Fields with DEQ Control Numbers**

<b>SYNAGRO FIELD #</b>	<b>DEQ Control Number</b>
22-11	51137-00263-0000
22-12	51137-00262-0000
22-13	51137-00264-0000
22-15	51137-00258-0000
22-17	51137-00259-0000
22-18	51137-00260-0000
22-19	51137-00260-0000
22-20	51137-00261-0000
22-21	51137-00261-0000

## SYNAGRO

## VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: Carey Shore Amberger PHONE: (540) 851-4962  
 ADDRESS: 27154 Amberger Ln Rhoadesville, VA 22542  
 FARM LOCATION: Rt 621

FSA TRACT #: \_\_\_\_\_

TOTAL ACRES: 183 COUNTY: Orange

CROPS: hay pasture

1. I agree to be responsible for adhering to the following conditions, where applicable:
  - a. The soil pH will be adjusted  $\geq 6.0$  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  $\geq 4$  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 for 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.

Carey Amberger  
 OPERATOR'S SIGNATURE

June 9, 2021  
 DATE

0R22

# 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 6/9/2021 between Carey Shore Amberger 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 Orange Co., 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
02006 0000 00340			

☐ 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.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>Carey Shore Amberger</u>	Mailing Address <u>27154 Amberger Ln</u> <u>Rhoadesville VA 22942</u>	Landowner Signature 
By: Title*	Phone No. <u>540-854-4962</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:

\_\_\_\_\_, 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>Jeff Douthit</u>	Mailing Address <u>1681 Teppahawock Blvd</u> <u>Teppahawock VA 22560</u>	Permittee- Authorized Representative Signature 
Title <u>Technical Services Specialist</u>	Phone No. <u>804-443-2170</u>	

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

Permittee: Synagro Central LLC County or City: Orange  
 Landowner: Carrey Shore Amberger

**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).

Carrey Amberger  
 Landowner's Signature

June 9, 2021  
 Date

## TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
Carey Shore Amberger	22-11	02000000000340
Carey Shore Amberger	22-12	02000000000340
Carey Shore Amberger	22-13	02000000000340
Carey Shore Amberger	22-15	02000000000340
Carey Shore Amberger	22-17	02000000000340
Carey Shore Amberger	22-18	02000000000340
Carey Shore Amberger	22-19	02000000000340
Carey Shore Amberger	22-20	02000000000340
Carey Shore Amberger	22-21	02000000000340

Field Number	Latitude (North)	Longitude (West)
22-11	38.295°	-78.907°
22-12	38.297°	-78.906°
22-13	38.293°	-78.905°
22-15	38.289°	-78.908°
22-17	38.289°	-78.905°
22-18	38.291°	-78.904°
22-19	38.291°	-78.901°
22-20	38.294°	-78.903°
22-21	38.294°	-78.901°

\*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.



## 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.

Permittee: Synagro Central, LLC

County or City: Orange (OR 22)

Please Print

(Landowner signatures are not required on this page)

[illegible]



# Orange County, VA Real Estate

OR 22

## PROPERTY

### Parcel Information

Parcel Record Number (PRN) **5715** Town/District **GORDON**

Account Name **AMBERGER, CAREY SHORE**

Account Name2

Care Of

Address1 **27154 AMBERGER RD**

Address2

City, State Zip **RHOADESVILLE, VA 22542**

Business Name

Location Address(es) **27154 AMBERGER LN**

### Map Number

Map Insert	Double Circle	Block	Parcel Number
<b>02000</b>	<b>00</b>	<b>00</b>	<b>00340</b>

Total Acres **276.39**

Deed **DB-20-0000838**

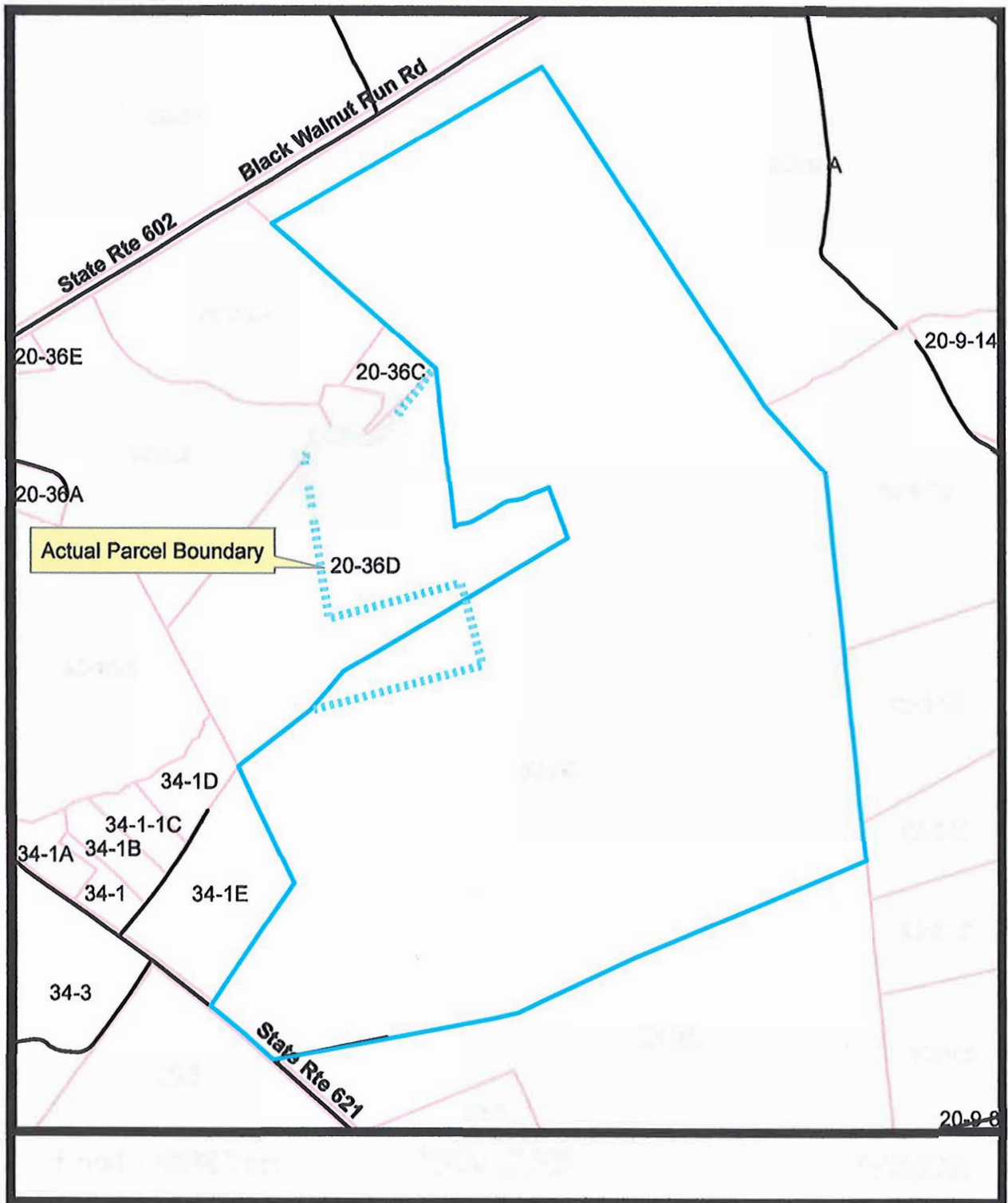
Additional Deed

Will **NONE**

### Assessed Values

Type	Current Value	Previous Value
Land Use	<b>\$205,800</b>	<b>\$205,800</b>
Land	<b>\$723,500</b>	<b>\$723,500</b>
Main Structures	<b>\$172,200</b>	<b>\$172,200</b>
Other Structures	<b>\$36,300</b>	<b>\$36,300</b>
TOTALS	<b>\$932,000</b>	<b>\$932,000</b>

<u>PIN</u>	<u>OWNER</u>	<u>ADDRESS</u>	<u>CITY</u>	<u>STATE</u>	<u>ZIP</u>
0200000000032A	NEWMAN PROPERTIES LLC	26068 CONSTITUTION HWY	RHOADESVILLE VA 22542	VA	22542
02000000000360	BICE, JOHN D	26280 CEDAR LN	RHOADESVILLE VA 22542	VA	22542
0200000000036B	JONES, MARK S	7639 BLACK WALNUT RUN RD	RHOADESVILLE VA 22542	VA	22542
0200000000036B	BALDWIN, KEITH I & SHERRY R	1339 CLYDESDALE DRIVE	LOXAHATCHEE FL 33470	FL	33470
0200000000036B	BALDWIN, KEITH I & SHERRY R	1339 CLYDESDALE DRIVE	LOXAHATCHEE FL 33470	FL	33470
02000090000100	ROSE GROUP LLC	P O BOX 460	SUMERDUCK VA 22742	VA	22742
02000090000110	ROSE GROUP LLC	P O BOX 460	SUMERDUCK VA 22742	VA	22742
02000090000120	ROSE GROUP LLC	P O BOX 460	SUMERDUCK VA 22742	VA	22742
02000090000130	ROSE GROUP LLC	P O BOX 460	SUMERDUCK VA 22742	VA	22742
0340000000001D	GUEVARA, CHRISTINA	8282 GRAHAM LN	RHOADESVILLE VA 22542	VA	22542
0340000000001E	GILL, CURTIS JAMES & TRACY A	8483 PINE STAKE RD	RHOADESVILLE VA 22542	VA	22542
03400000000020	NEWTON, THOMAS L	P O BOX 23	RHOADESVILLE VA 22542	VA	22542
0340000000007A	J AMBERGER PROPERTIES LLC	4022 BONNIE BRAE CT	FREDERICKSBURG VA 22407	VA	22407



06/28/2024

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



## Farm Summary Report

**Plan:** Revised Plan Fall, 2024 - Winter, 2025

**Farm Name:** OR 22

Location: Orange

Specialist: Jeffery R Douthit

N-based Acres: 169.2

P-based Acres: 0.0

**Tract Name:** OR 22

FSA Number: 0

Location: Orange

**Field Name:** 22-11

Total Acres: 17.70 Usable Acres: 17.70

FSA Number: 0

Tract: OR 22

Location: Orange

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
47	Cw	Chewacla
2	LgB	Lignum
22	NsB2	Nason
19	NsC2	Nason
8	WoB	Worsham
2	YoB	York

### **Field Warnings:**

**Field Name: 22-12**

Total Acres: 17.50 Usable Acres: 17.50

FSA Number: 0

Tract: OR 22

Location: Orange

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
10	NsB	Nason
49	NsB2	Nason
39	NsC2	Nason
2	YoB	York

***Field Warnings:***

**Field Name: 22-13**

Total Acres: 16.80 Usable Acres: 16.80

FSA Number: 0

Tract: OR 22

Location: Orange

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
29	Cw	Chewacla
27	MrD	Manteo
16	NsC2	Nason
15	TsB2	Tatum
13	TsC2	Tatum

**Field Warnings:***Environmentally Sensitive Soils due to:**Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock**Soils with percent slope in excess of 15%*

**Field Name: 22-15**

Total Acres: 40.90 Usable Acres: 40.90

FSA Number: 0

Tract: OR 22

Location: Orange

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

***Soil Test Results:***

DATE	PH	P	K	Lab
	[NO TEST]			

***Soils:***

PERCENT	SYMBOL	SOIL SERIES
12	NsB2	Nason
16	NsC2	Nason
1	NtC3	Nason
9	SrC	Starr
27	TsB2	Tatum
35	TsC2	Tatum

***Field Warnings:***



**Field Name: 22-17**

Total Acres: 21.40 Usable Acres: 21.40

FSA Number: 0

Tract: OR 22

Location: Orange

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

***Soil Test Results:***

DATE	PH	P	K	Lab
	[NO TEST]			

***Soils:***

PERCENT	SYMBOL	SOIL SERIES
6	LgB	Lignum
6	MrD	Manteo
1	NsB2	Nason
44	TsB2	Tatum
43	TsC2	Tatum

***Field Warnings:***

**Field Name: 22-18**

Total Acres: 15.50 Usable Acres: 15.50

FSA Number: 0

Tract: OR 22

Location: Orange

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

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
25	MrD	Manteo
42	TsB2	Tatum
33	TsC2	Tatum

**Field Warnings:***Environmentally Sensitive Soils due to:**Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock**Soils with perent slope in excess of 15%*

**Field Name: 22-19**

Total Acres: 14.10 Usable Acres: 14.10

FSA Number: 0

Tract: OR 22

Location: Orange

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
8	LgB	Lignum
24	MrD	Manteo
5	Mx	Mixed alluvial land
43	NsB2	Nason
20	NsC2	Nason

**Field Warnings:***Environmentally Sensitive Soils due to:**Soils with high potential for subsurface lateral flow based on soil texture and poor drainage**Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock**Soils with percent slope in excess of 15%*

**Field Name: 22-20**

Total Acres: 12.10 Usable Acres: 12.10

FSA Number: 0

Tract: OR 22

Location: Orange

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
16	Cw	Chewacla
45	MrD	Manteo
31	TsB2	Tatum
8	TsC2	Tatum

**Field Warnings:***Environmentally Sensitive Soils due to:**Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock**Soils with perent slope in excess of 15%*

**Field Name: 22-21**

Total Acres: 13.20 Usable Acres: 13.20

FSA Number: 0

Tract: OR 22

Location: Orange

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
3	Cw	Chewacla
2	MrD	Manteo
27	Mx	Mixed alluvial land
7	NsC	Nason
57	NsC2	Nason
4	RnC	Rock land

**Field Warnings:***Environmentally Sensitive Soils due to:**Soils with high potential for subsurface lateral flow based on soil texture and poor drainage**Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock**Soils with percent slope in excess of 15%*

**ENVIRONMENTALLY SENSITIVE AREAS**

Field	Reason for Sensitive Area
22-11	High Water Table (Map Units Cw, LgB & WoB - 57%) Frequent Flooding (Map Unit Cw - 47%)
22-12	None
22-13	High Water Table (Map Unit Cw - 29%) Frequent Flooding (Map Unit Cw - 291%) Shallow Soils (Map Unit MrD - 27%)
22-15	None
22-17	High Water Table (Map Unit LgB - 6%) Shallow Soils (Map Unit MrD - 6%)
22-18	Shallow Soils (Map Unit MrD - 25%)
22-19	High Water Table (Map Unit LgB - 8%) Shallow Soils (Map Unit MrD - 24%)
22-20	High Water Table (Map Unit Cw - 16%) Frequent Flooding (Map Unit Cw - 16%) Shallow Soils (Map Unit MrD - 45%)
22-21	High Water Table (Map Unit Cw - 3%) Frequent Flooding (Map Unit Cw - 3%) Shallow Soils (Map Unit MrD - 2%)

### Orange County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		
		High Water	Flooded	Environmental
Ab	Albano	Nov-March		
AuA, AuB	Augusta	Dec-May		
Be	Bermudian		Nov-March	
Bo	Bowmansville	Sept-May	Sept-May	Drainage
BrC, BrD	Bremo			Leaching
Bw	Buncombe			Leaching
CaB, CaC	Calverton	Dec-May		
CbB, CcC, CcD	Catoctin			Shallow
Cw	Chewacla	Nov-April	Nov-April	
CxB	Colfax	Nov-June		
Eb, Ee	Elbert	Nov-May		
HaC, HaD	Hazel			Shallow
KID, KIE	Klinesville			Shallow
LgB	Lignum	Dec-May		
LoC, LoC2, LoD, LoD2	Louisburg			Leaching
MoD	Manor			Leaching
MrB, MrC, MrD, MrE	Manteo			Shallow
OgA, OgB, OgB2, OgC2	Orange	Dec-May		
OrA, OrB, OrB2	Orange	Dec-May		
PkC, PkD	Pinkston			Leaching
Rk	Roanoke	Nov-May		
Rw	Rowland	Nov-May		
WbB, WbC, WbD	Watt			Shallow
We	Wehadkee	Nov-May	Nov-June	
WoB	Worsham	Nov-April		

# Map Legend



House/Dwelling with a well

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



Rock Outcrop

- 25' buffer



Limestone Outcrop/Closed Sinkhole

- 50' buffer



Well/Spring/Open Sinkhole

- 100' buffer



Lake/Pond

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



Slope which exceeds 15%



Publicly Accessible Site/Odor Sensitive Site

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



Stream/River

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



Agricultural/Drainage Ditch

- 10' buffer



Roadway

- 10' improved highway buffer



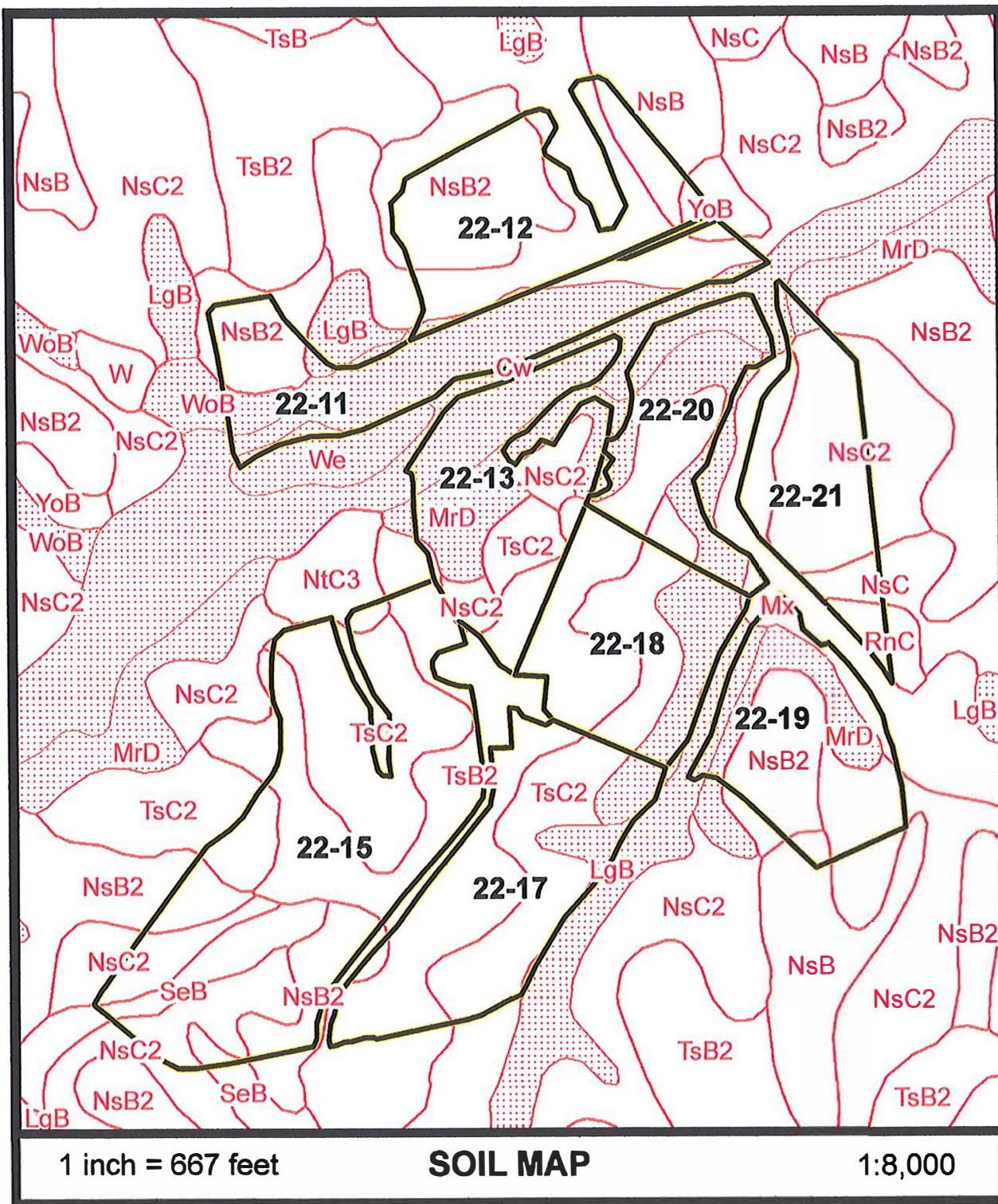
Field Boundary



Property Line

- 100' buffer unless waiver issued

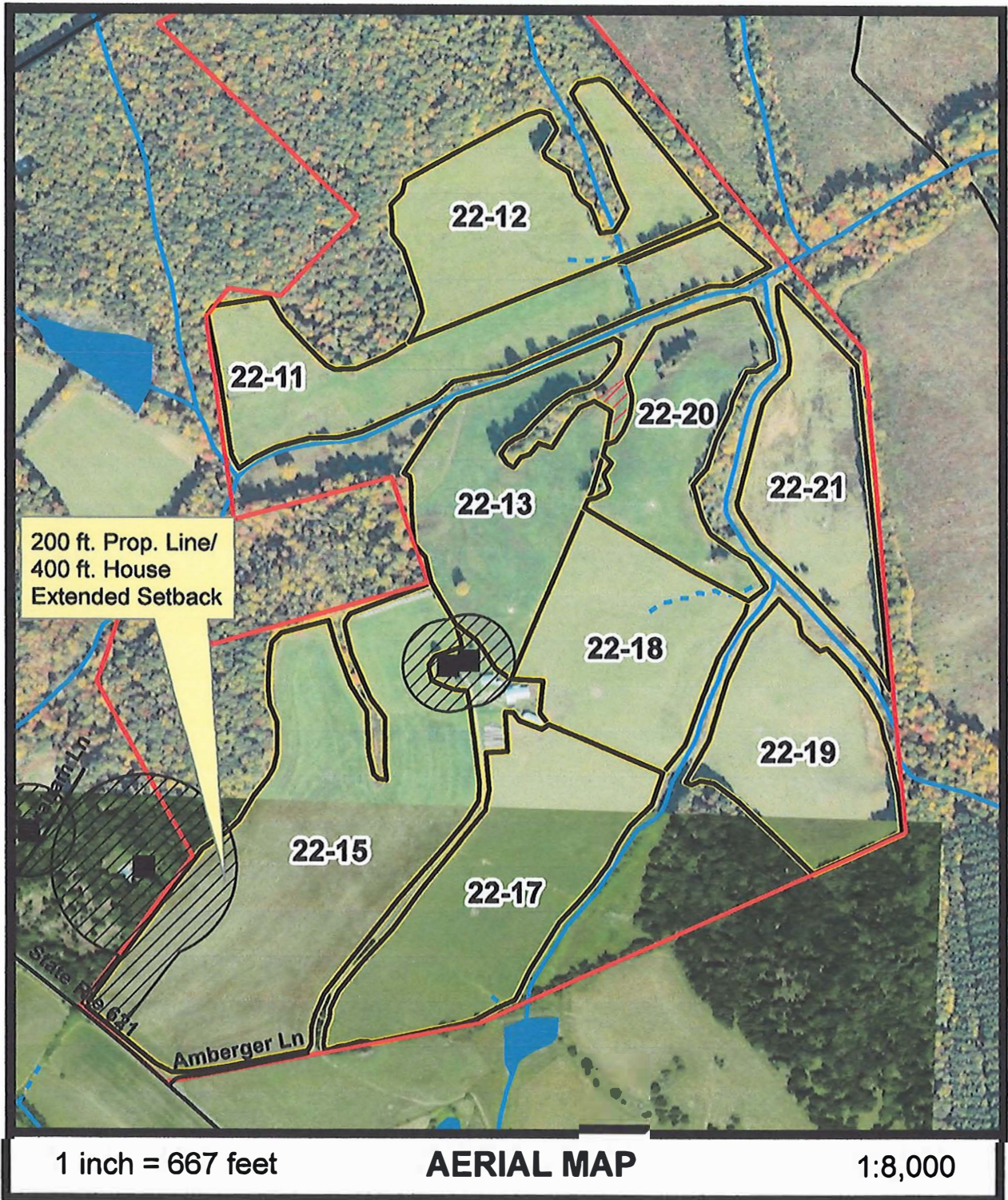




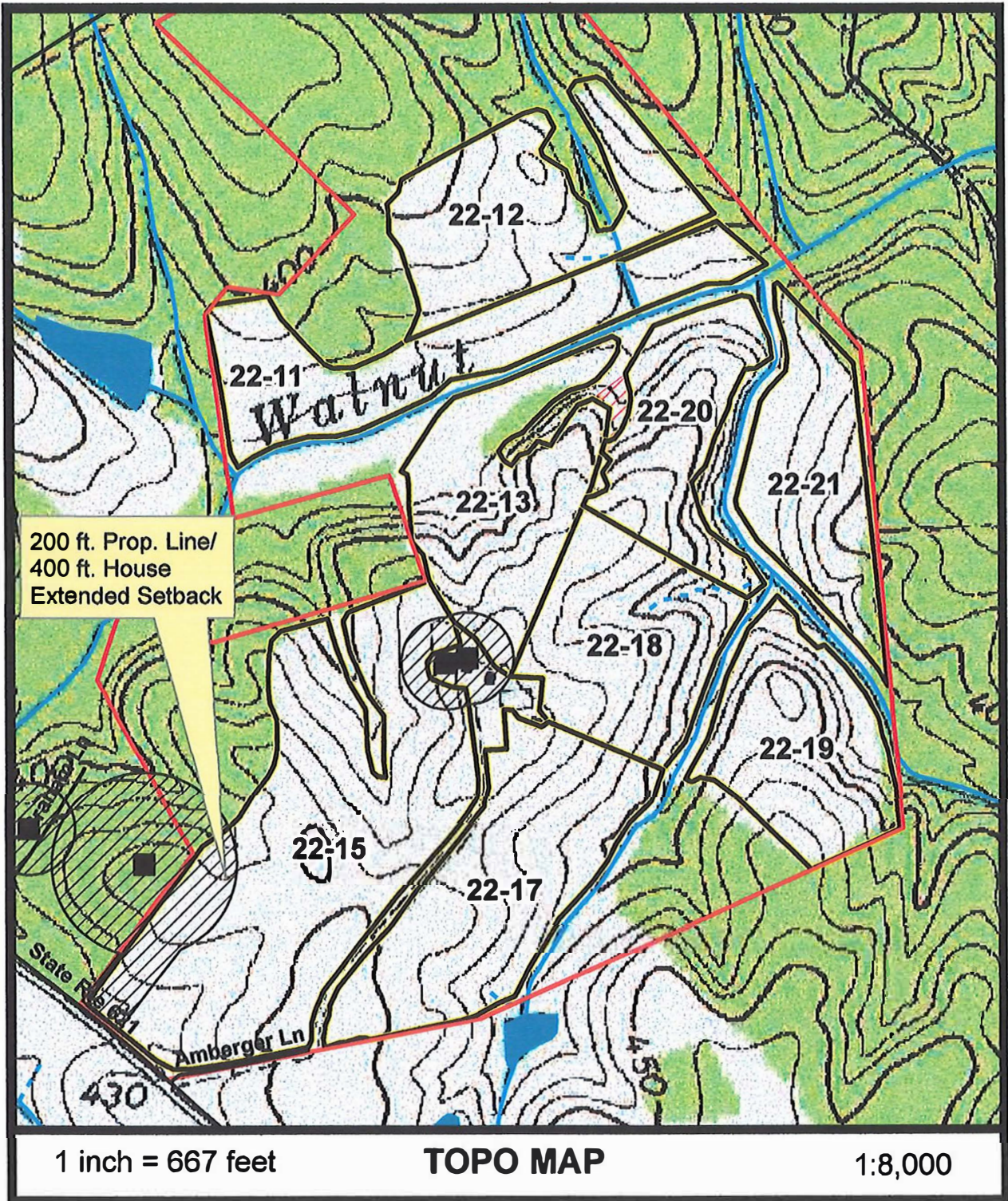
06/28/2024







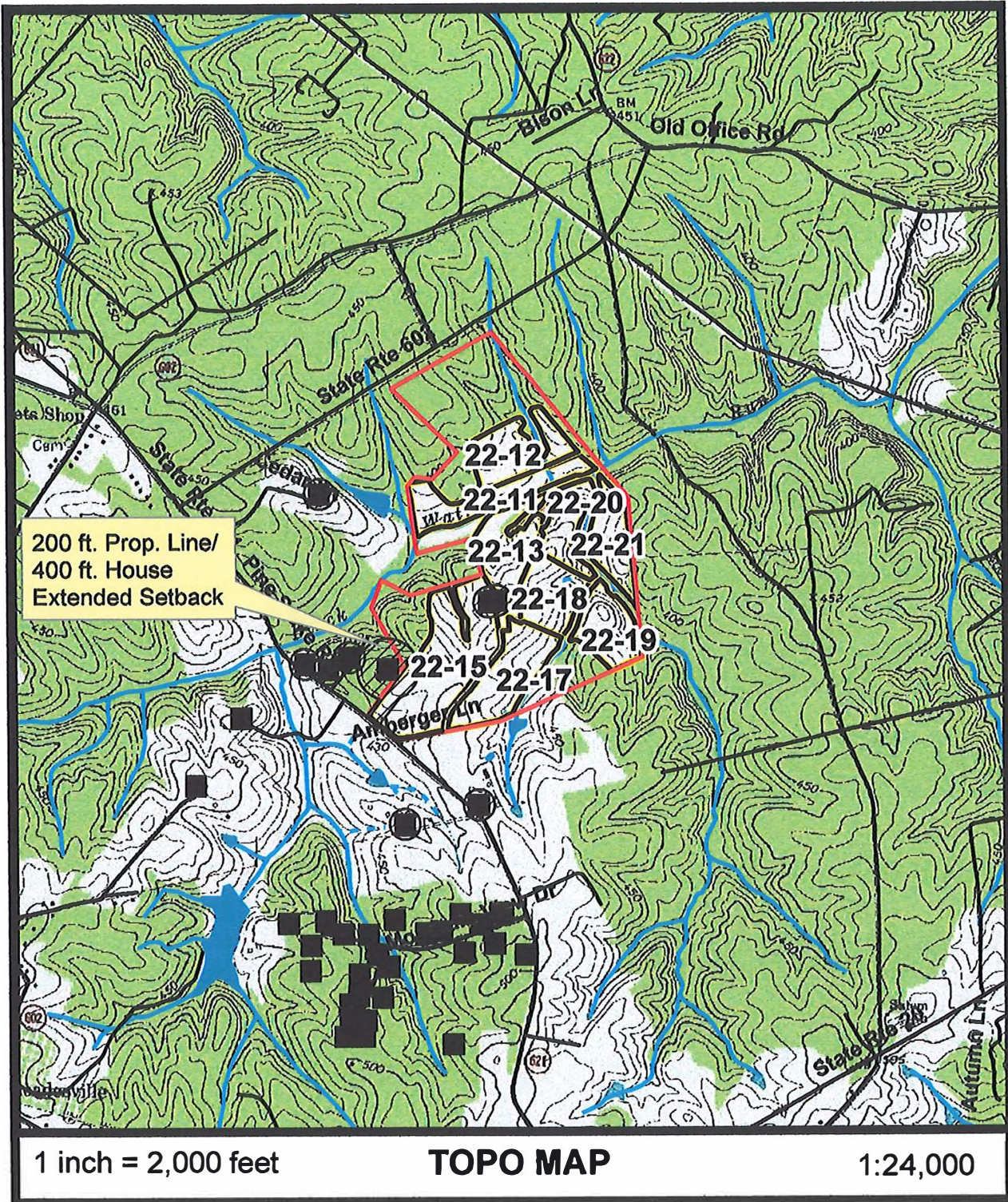




FIELD	ACRES	FIELD	ACRES	FIELD	ACRES	06/28/2024
22-11	17.7	22-15	40.9	22-19	14.1	
22-12	17.5	22-17	21.4	22-20	12.1	
22-13	16.8	22-18	15.5	22-21	13.2	







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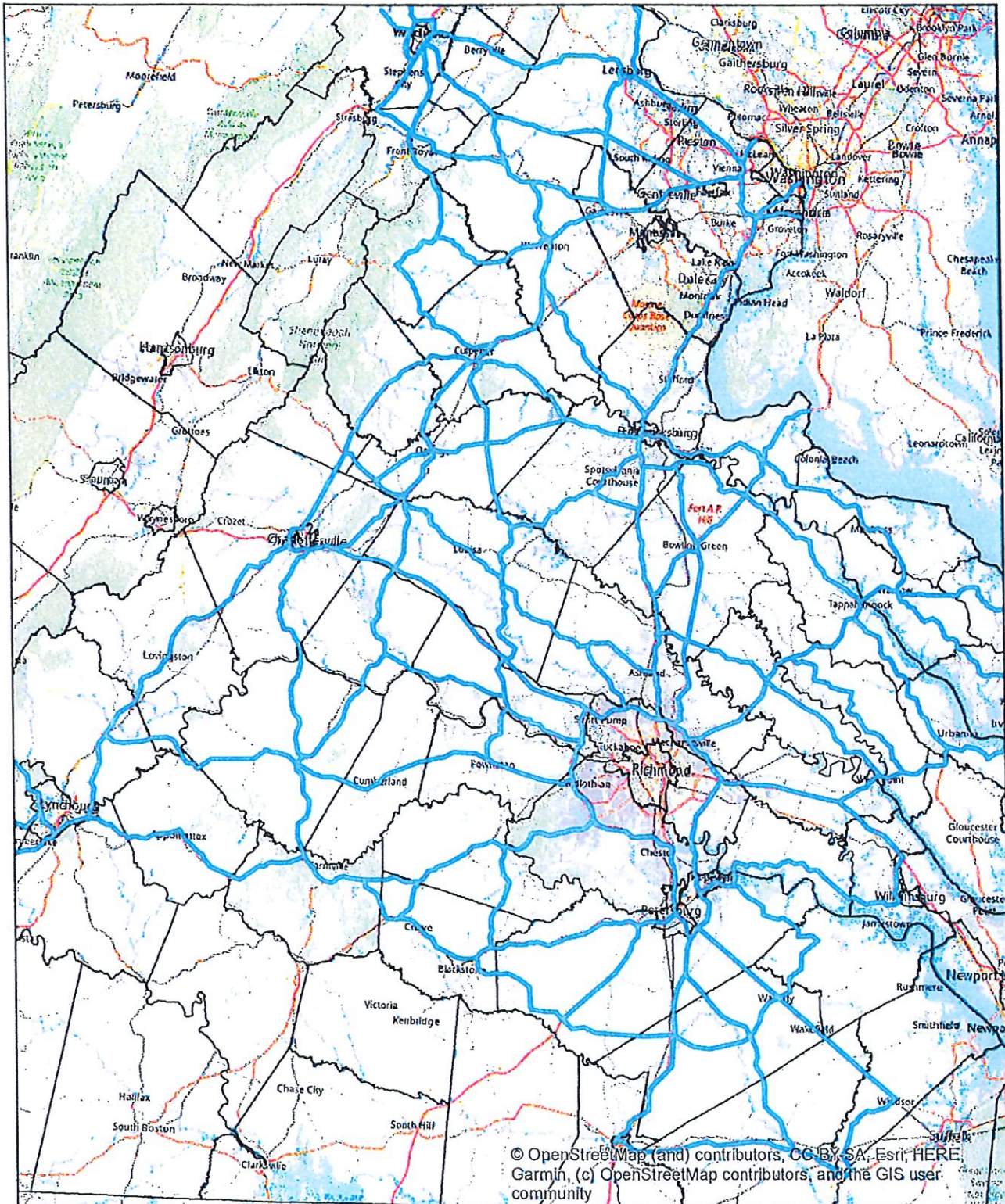


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# SYNAGRO



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.