

LAND APPLICATION OF BIOSOLIDS  
W. D. HARRIS

OR 01 (FIELDS 01-05, 08)  
ORANGE COUNTY, VIRGINIA  
MAY 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 W.D. Harris (designated as OR 01, fields 01-05, 08), 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

**W. D. Harris**

**OR 01**

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
01-01	17.8	17.8		Agriculture	Ag Land, LLC
01-02	29.0	29.0		Agriculture	Ag Land, LLC
01-03	21.3	21.3		Agriculture	Ag Land, LLC
01-04	12.4	12.4		Agriculture	Ag Land, LLC
01-05	40.0	40.0		Agriculture	Ag Land, LLC
01-08	78.4	78.4		Agriculture	William D Harris et al
TOTALS:	198.9	198.9			05/16/2024

**Changes to field acreages**

<b>SYNAGRO FIELD #</b>	<b>OLD ACRES</b>	<b>NEW ACRES</b>	<b>NET ACRES CHANGE</b>	<b>REASON FOR CHANGE</b>
01-01	17.8	17.8	0.0	
01-02	29.0	29.0	0.0	
01-03	24.3	21.3	-3.0	3 ac. to field 04
01-04	21.4	12.4	-9.0	12 ac. to field 05
01-05	21.6	40.0	18.4	Footprint
01-06	38.9	0.0	-38.9	28.8 ac. to field 08
01-07D	43.0	0.0	-43.0	33.0 ac. to field 08
01-07E	18.0	0.0	-18.0	16.6 ac. to field 08
01-08	0.0	78.4	78.4	merge 06,07D & 07E
<b>TOTALS:</b>	<b>214.0</b>	<b>198.9</b>	<b>-15.1</b>	

**Fields with DEQ Control Numbers**

<b>SYNAGRO FIELD #</b>	<b>Control Number</b>
01-01	51137-00577-0000
01-02	51137-00576-0000
01-03	51137-00578-0000
01-04	51137-00578-0000
	51137-00579-0000
01-05	51137-00579-0000
	51137-00580-0000
01-08	51137-00581-0000
	51137-00582-0000



# SYNAGRO

## VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: W. D. Harris PHONE: (540) 223-3253  
 ADDRESS: 5903 Cherry Grove Ln Mineral VA 23117  
 FARM LOCATION: Rt 612, Rt 651

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

TOTAL ACRES: 200 COUNTY: Orange

CROPS: pasture hay corn soy beans small grain

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.

W D Harris  
 OPERATOR'S SIGNATURE

3-8-2024  
 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 not be 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 rarely cause salt problems. However, if combined with other significant salt-increasing factors, such as drought, excessive soil compaction, saline irrigation water and salt-containing 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. If 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.

OR 1

# 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 3-8-2024 between Ag Land 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 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
07400000000390			
07400000000410			

☐ 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.

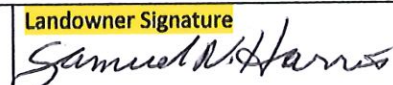
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

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.

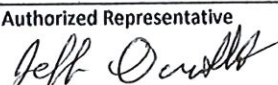
<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

Printed name: Ag Land, LLC	Mailing Address 5801 Zachary Taylor Hwy Mineral, VA 23117	Landowner Signature 
By: Samuel N. Harris	Phone No: 540-661-2820	
Title: President		
<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 checked="" 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:

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 Jeff Douthit	Mailing Address: 1681 Tappahannock Blvd Tappahannock, VA 22560	Permittee- Authorized Representative Signature 
Title: Technical Services Specialist	Phone No.: 804-443-2071	

**PLEASE SIGN BOTH PAGES**



Permittee: Synagro Central, LLC

County or City: Orange

Landowner: Ag Land, 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).

Samuel N Harris  
Landowner's Signature

3-8-'24  
Date



DR-1

**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 3-2-24 between William D Harris et al 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
07300 0000 00320			

☐ 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>
X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

Printed name: <u>William D Harris et al</u>	Mailing Address <u>5903 Cherry Grove Ln</u> <u>Mineral, VA 23117</u>	<b>Landowner Signature</b> 
By: <u>William D Harris</u>	Phone No. <u>540-223-3253</u>	
Title* ---		
<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:**

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 <u>Jeff Douthit</u>	Mailing Address: <u>1681 Tappahannock Blvd</u> <u>Tappahannock, VA 22560</u>	<b>Permittee- Authorized Representative Signature</b> 
Title <u>Technical Services Specialist</u>	Phone No.: <u>804-443-2071</u>	

**PLEASE SIGN BOTH PAGES**



Permittee: Synagro Central, LLC

County or City: Orange

Landowner: William D Harris et al

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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.
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  - 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.
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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).

William D Harris  
Landowner's Signature

3-8-24  
Date



## PROPERTY

## Parcel Information

Parcel Record Number (PRN) **15238** Town/District **TAYLOR**Account Name **HARRIS, WILLIAM D ET AL**

Account Name2

Care Of

Address1 **5800 ZACHARY TAYLOR HWY**

Address2

City, State Zip **MINERAL, VA 23117**

Business Name

Location Address(es) **0 ELLISVILLE RD**

## Assessed Values

Type	Current Value	Previous Value
Land Use	<b>\$37,000</b>	<b>\$37,000</b>
Land	<b>\$132,600</b>	<b>\$132,600</b>
Main Structures	<b>\$0</b>	<b>\$0</b>
Other Structures	<b>\$0</b>	<b>\$0</b>
TOTALS	<b>\$132,600</b>	<b>\$132,600</b>

## Map Number

Map Insert	Double Circle	Block	Parcel Number
<b>07300</b>	<b>00</b>	<b>00</b>	<b>00320</b>

Total Acres **53.023**Deed **DB-319-68**

Additional Deed

Will **NONE**Plat **NONE**

Additional Plat

Route

Legal Desc 1 **73-32 ELLIS OSE**Legal Desc 2 **DE#070011989 OSE DEED**Zoning **A; AGRICULTURAL**State Class **AGR/UNDEV 20-99 ACR**Topology **SLOPES UP**Utilities **NONE**

## Sales History

Grantor	Sale Price	Instrument	Supporting Document Number	Number of Tracts	Sale Date
---------	------------	------------	----------------------------	------------------	-----------

No data to display

## Land Segments

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

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☐ 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:

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

Printed name: <u>William D Harris et al</u>	Mailing Address <u>5801 Zachary Taylor Hwy</u> <u>Mineral, VA 23117</u>	Landowner Signature <u>Samuel N. Harris</u>
By: <u>Samuel N Harris</u>	Phone No. <u>540-661-2820</u>	
Title* ---		
* <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:**

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 <u>Jeff Douthit</u>	Mailing Address: <u>1681 Tappahannock Blvd</u> <u>Tappahannock, VA 22560</u>	Permittee- Authorized Representative Signature <u>Jeff Douthit</u>
Title <u>Technical Services Specialist</u>	Phone No.: <u>804-443-2071</u>	

**PLEASE SIGN BOTH PAGES**



Permittee: Synagro Central, LLC

County or City: Orange

Landowner: William D Harris et al

**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).

Samuel N. Harris  
Landowner's Signature

3-8-24  
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: Orange (OR 01)

Please Print

(Signatures not required on this page)

[illegible]

## PROPERTY

**Parcel Information**

Parcel Record Number (PRN) **15350** Town/District **TAYLOR**

Account Name **AG LAND LLC**

Account Name2

Care Of

Address1 **5801 ZACHARY TAYLOR HWY**

Address2

City, State Zip **MINERAL, VA 23117**

Business Name

Location Address(es) **24391 MONROVIA RD**

**Assessed Values**

Type	Current Value	Previous Value
Land Use	<b>\$22,000</b>	<b>\$22,000</b>
Land	<b>\$185,100</b>	<b>\$185,100</b>
Main Structures	<b>\$0</b>	<b>\$0</b>
Other Structures	<b>\$0</b>	<b>\$0</b>
<b>TOTALS</b>	<b>\$185,100</b>	<b>\$185,100</b>

**Map Number**

Map Insert	Double Circle	Block	Parcel Number
<b>07400</b>	<b>00</b>	<b>00</b>	<b>00390</b>

Total Acres **54.382**

Deed **DB-680-4**

Additional Deed

Will **NONE**

Plat **NONE**

Additional Plat

Route

Legal Desc 1 **74-39 & 40A C T MILLS**

Legal Desc 2

Zoning **A; AGRICULTURAL**

State Class **AGR/UNDEV 20-99 ACR**

Topology **SLOPES UP**

Utilities **NONE**

**Sales History**

Grantor	Sale Price	Instrument	Supporting Document Number	Number of Tracts	Sale Date
---------	------------	------------	----------------------------	------------------	-----------

No data to display

**Land Segments**

PROPERTY

**Parcel Information**

Parcel Record Number (PRN) **15352** Town/District **TAYLOR**  
 Account Name **AG LAND LLC**  
 Account Name2  
 Care Of  
 Address1 **5801 ZACHARY TAYLOR HWY**  
 Address2  
 City, State Zip **MINERAL, VA 23117**  
 Business Name  
 Location Address(es) **24531 MONROVIA RD**

**Assessed Values**

Type	Current Value	Previous Value
Land Use	<b>\$116,000</b>	<b>\$116,000</b>
Land	<b>\$560,400</b>	<b>\$560,400</b>
Main Structures	<b>\$0</b>	<b>\$0</b>
Other Structures	<b>\$10,700</b>	<b>\$10,700</b>
<b>TOTALS</b>	<b>\$571,100</b>	<b>\$571,100</b>

**Map Number**

Map Insert	Double Circle	Block	Parcel Number
<b>07400</b>	<b>00</b>	<b>00</b>	<b>00410</b>

Total Acres **224.14**  
 Deed **DB-680-1**  
 Additional Deed  
 Will **NONE**  
 Plat **NONE**  
 Additional Plat  
 Route  
 Legal Desc 1 **74-41 GREEN**  
 Legal Desc 2  
 Zoning **A; AGRICULTURAL**  
 State Class **AGR/UNDEV 100 UP ACR**  
 Topology **SLOPES UP**  
 Utilities **NONE**

**Sales History**

Grantor	Sale Price	Instrument	Supporting Document Number	Number of Tracts	Sale Date
---------	------------	------------	----------------------------	------------------	-----------

No data to display

**Land Segments**



## PROPERTY

## Parcel Information

Parcel Record Number (PRN) **15238** Town/District **TAYLOR**Account Name **HARRIS, WILLIAM D ET AL**

Account Name2

Care Of

Address1 **5800 ZACHARY TAYLOR HWY**

Address2

City, State Zip **MINERAL, VA 23117**

Business Name

Location Address(es) **0 ELLISVILLE RD**

## Assessed Values

Type Current Value Previous Value

Land Use **\$37,000** **\$37,000**Land **\$132,600** **\$132,600**Main Structures **\$0** **\$0**Other Structures **\$0** **\$0**TOTALS **\$132,600** **\$132,600**

## Map Number

Map Insert Double Circle Block Parcel Number  
**07300 00 00 00320**Total Acres **53.023**Deed **DB-319-68**

Additional Deed

Will **NONE**Plat **NONE**

Additional Plat

Route

Legal Desc 1 73-32 ELLIS OSE

Legal Desc 2 DE#070011989 OSE DEED

Zoning A; AGRICULTURAL

State Class AGR/UNDEV 20-99 ACR

Topology SLOPES UP

Utilities NONE

## Sales History

Grantor Sale Price Instrument Supporting Document Number Number of Tracts Sale Date

No data to display

## Land Segments

## TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
Ag Land, LLC	01-01	07400-00-00-00410
Ag Land, LLC	01-02	07400-00-00-00410
Ag Land, LLC	01-03	07400-00-00-00410
Ag Land, LLC	01-04	07400-00-00-00410
Ag Land, LLC	01-05	07400-00-00-00390
Ag Land, LLC		07400-00-00-00410
William D. Harris et al	01-08	07300-00-00-00320

Field Number	Latitude (North)	Longitude (West)
01-01	38.143°	-77.940°
01-02	38.142°	-77.943°
01-03	38.143°	-77.947°
01-04	38.137°	-77.947°
01-05	38.135°	-77.945°
01-08	38.127°	-77.982°

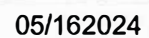
\*Latitude and Longitude are a random point determined by ArcView program

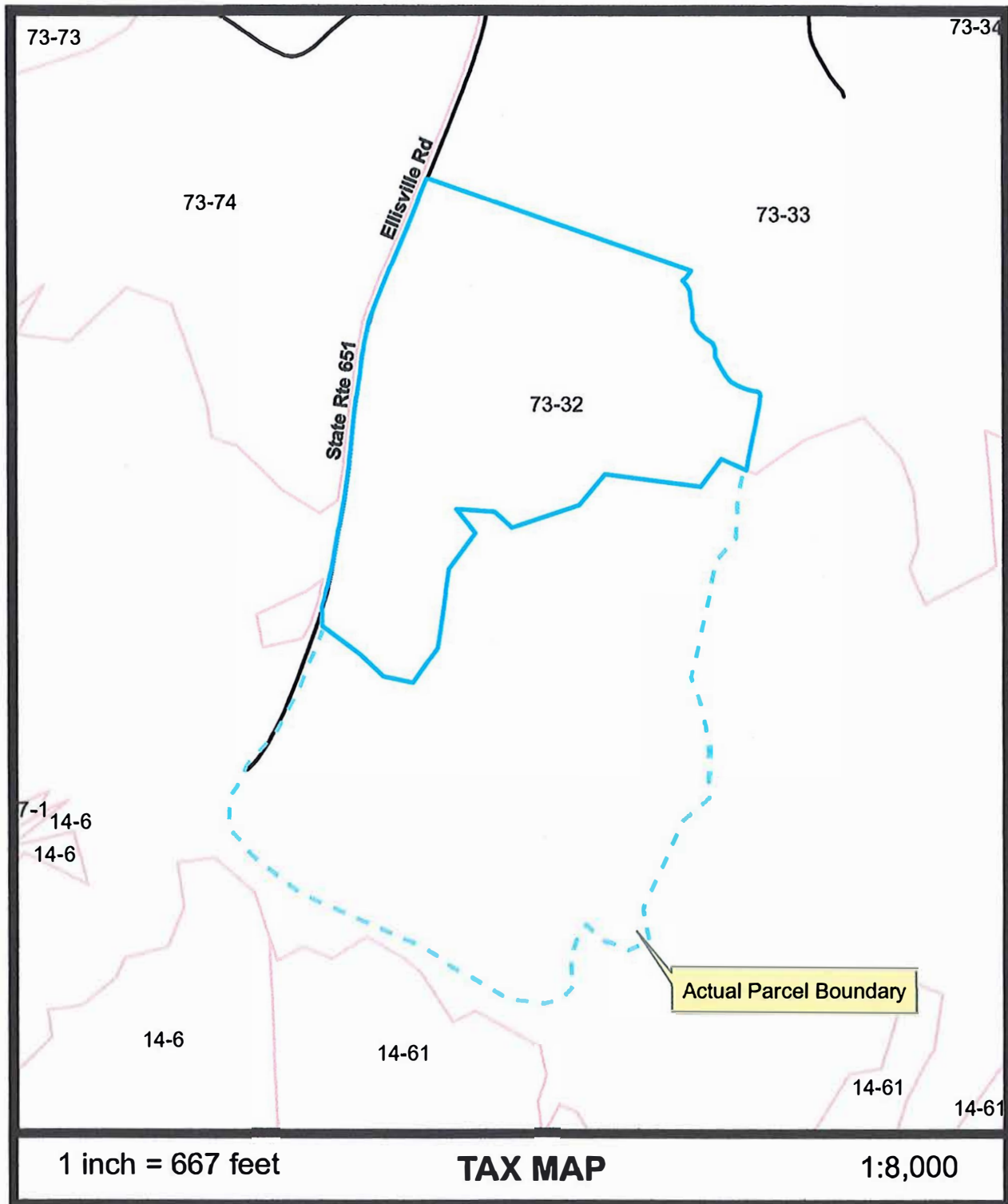
**Haul Route:**

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.

<u>PIN</u>	<u>OWNER</u>	<u>ADDRESS</u>	<u>CITY</u>	<u>STATE</u>	<u>ZIP</u>
7300000000740	PINE PARK LLC	20031 ELLISVILLE RD	ORANGE	VA	22960
7300000000330	LILLICOTCH, RYAN & ARGENTINA B	P O BOX 248	LADYSMITH	VA	22501
7400000000280	GREEN, KATHRYN S	P O BOX 114	UNIONVILLE	VA	22567
0730000000026B	GREEN PASTURES FARM LLC	23514 THORNHILL RD	ORANGE	VA	22960
7400030000010	LOPEZ, REBECCA A & ROBERT LOPEZ MIDLAND TRUST CO AS CUSTODIAN	7413 HOWELL RUN CT	MANASSAS	VA	20112
0740000000040A	AG LAND, LLC	5801 ZACHARY TAYLOR HWY	MINERAL	VA	23117
7400000000320	WAUGH, JOHN WELLS & SHARON C	5125 BUSHY MOUNTAIN RD	CULPEPER	VA	22701
7400000000380	ALTMAN, AMY B & KELLY M COLVIN & MARK A ALTMAN C/O HILDA ALTMAN	28371 SUNNYSIDE RD	UNIONVILLE	VA	22567
7400000000420	GILL, CLARENCE V & MARGARET C	6487 MCRAES RD	WARRENTON	VA	20187
0740000000042B	IRONWOOD HOMES INC	4900 COX RD STE 235	GLEN	VA	23060
7400000000430	BRADFIELD, JOHN MICHAEL & JOSEPH BRADFIELD & ELINA BRADFIELD	14377 RUTLAND	DETROIT	MI	48227
7400000000480	DIXON, NANCY & CHARLES	19473 DANIEL RD	ORANGE	VA	22960
0740000000042A	EVANS, CHRISTOPHER	25034 MONROVIA RD	ORANGE	VA	22960
7400000000490	GIRTEN, DEBRA J	25102 MONROVIA RD	ORANGE	VA	22960
7400030000150	LOT15 LLC	6111 WIGMORE LN UNIT A	ALEXANDRIA	VA	22315
7400030000120	WILLIAMS, LESA S & ELMER T	14913 CEDAR CREEK HILLS CT	MONTPELIER	VA	23192
7400030000110	HARRISON, JOSEPH A	3403 KEMPER RD	ARLINGTON	VA	22206
7400030000100	SANKEY, JAMES P	20051 OLD LINE TERR	ASHBURN	VA	20147
7400030000090	DOUGLAS, VINROY & NWE NWE DOUGLAS	14520 JANSBURY ST	GAINESVILLE	VA	20155
7400030000080	SEMAAN, LOUAY M	6616 KANAWHA WAY	GAINESVILLE	VA	20155
7400030000070	MUPPALANENI, NELLIMA & SANDHYA KARUSALA	12418 WENDELL HOLMES RD	HERNDON	VA	20171
7400030000060	NAHIDIAN, MOHAMMAD SADEGH ET ALS	3900 WESTERRE PKWY	RICHMOND	VA	23233
7400030000050	SANDY, JULIO C & DORA DEL CARMEN MEDRANO	10441 GOLDENRED DR	BRISTOW	VA	20136
7400030000040	QINGZHOU WU	9908 CHAPEL RD	POTOMAC	MD	20854
7400030000030	GILLEN, RICHARD JOSEPH JR & CHARLES W II & LISA M BARGER	47755 BLOCKHOUSE POINT PL	STERLING	VA	20165

7400030000020	RENDON, MILTON E BARRIOS & MARIA D ROTTMANN DE BARRIOS	42601 KELLAMUGH TERR	CHANTILLY	VA	20152
0740000000039A LAKE ANNA DB 253 PG 605 LAKE ANNA DB 253 PG 597	HUDSON, STACEY HARRIS & BRANDON	5801 ZACHARY TAYLOR HWY	MINERAL	VA	23117





05/16/2024  
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:** New Plan Spring, 2024 - Summer, 2025

**Farm Name:** OR 01

Location: Orange

Specialist: Jeffery R Douthit

N-based Acres: 198.9

P-based Acres: 0.0

**Tract Name:** OR 01

FSA Number: 0

Location: Orange

**Field Name:** 01-01

Total Acres: 17.80 Usable Acres: 17.80

FSA Number: 0

Tract: OR 01

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	GrB2	Grover
40	GrC2	Grover
31	LoC	Louisburg
13	MaB2	Madison
4	SeB	Seneca

### **Field Warnings:**

**Field Name: 01-02**

Total Acres: 29.00 Usable Acres: 29.00

FSA Number: 0

Tract: OR 01

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
23	GrB2	Grover
43	GrC2	Grover
26	LoC	Louisburg
8	MaB2	Madison

***Field Warnings:***

**Field Name: 01-03**

Total Acres: 21.30 Usable Acres: 21.30

FSA Number: 0

Tract: OR 01

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
18	GrB2	Grover
52	GrC2	Grover
12	LoC	Louisburg
18	MaB2	Madison

***Field Warnings:***

**Field Name: 01-04**

Total Acres: 12.40 Usable Acres: 12.40

FSA Number: 0

Tract: OR 01

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
7	GrB2	Grover
15	GrC2	Grover
54	LoC	Louisburg
10	LoD	Louisburg
14	WoB	Worsham

**Field Warnings:***Environmentally Sensitive Soils due to:**Soils with potential for leaching based on soil texture or excessive drainage**Soils with percent slope in excess of 15%*

**Field Name: 01-05**

Total Acres: 40.00 Usable Acres: 40.00

FSA Number: 0

Tract: OR 01

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
15	GrB2	Grover
42	GrC2	Grover
18	LoC	Louisburg
1	LoD	Louisburg
11	MaB2	Madison
13	MdC3	Madison

***Field Warnings:***

**Field Name: 01-08**

Total Acres: 78.40 Usable Acres: 78.40

FSA Number: 0

Tract: OR 01

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
8	AIA	Altavista
5	AIB	Altavista
28	AuA	Augusta
10	Cw	Chewacla
4	CxB	Colfax
3	EsB	Elsinboro
12	GrB2	Grover
2	GrC2	Grover
3	LoC2	Louisburg
4	MaC2	Madison
7	SeB	Seneca
5	StA	State1
7	We	Wehadkee
2	WoB	Worsham

***Field Warnings:***



## ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
01-01	Leaching (Map Unit LoC - 31%)
01-02	Leaching (Map Unit LoC - 26%)
01-03	Leaching (Map Unit LoC - 12%)
01-04	High Water Table (Map Unit WoB - 14%) Leaching (Map Units LoC & LoD - 64%)
01-05	Leaching (Map Unit LoC & LoD - 19%)
01-08	High Water Table (Map Units AuB, Cw, CxB, We & WoB - 51%) Frequent Flooding ( Map Units Cw & We - 17%) Leaching (Map Unit LoC2 - 3%)

### Orange County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
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



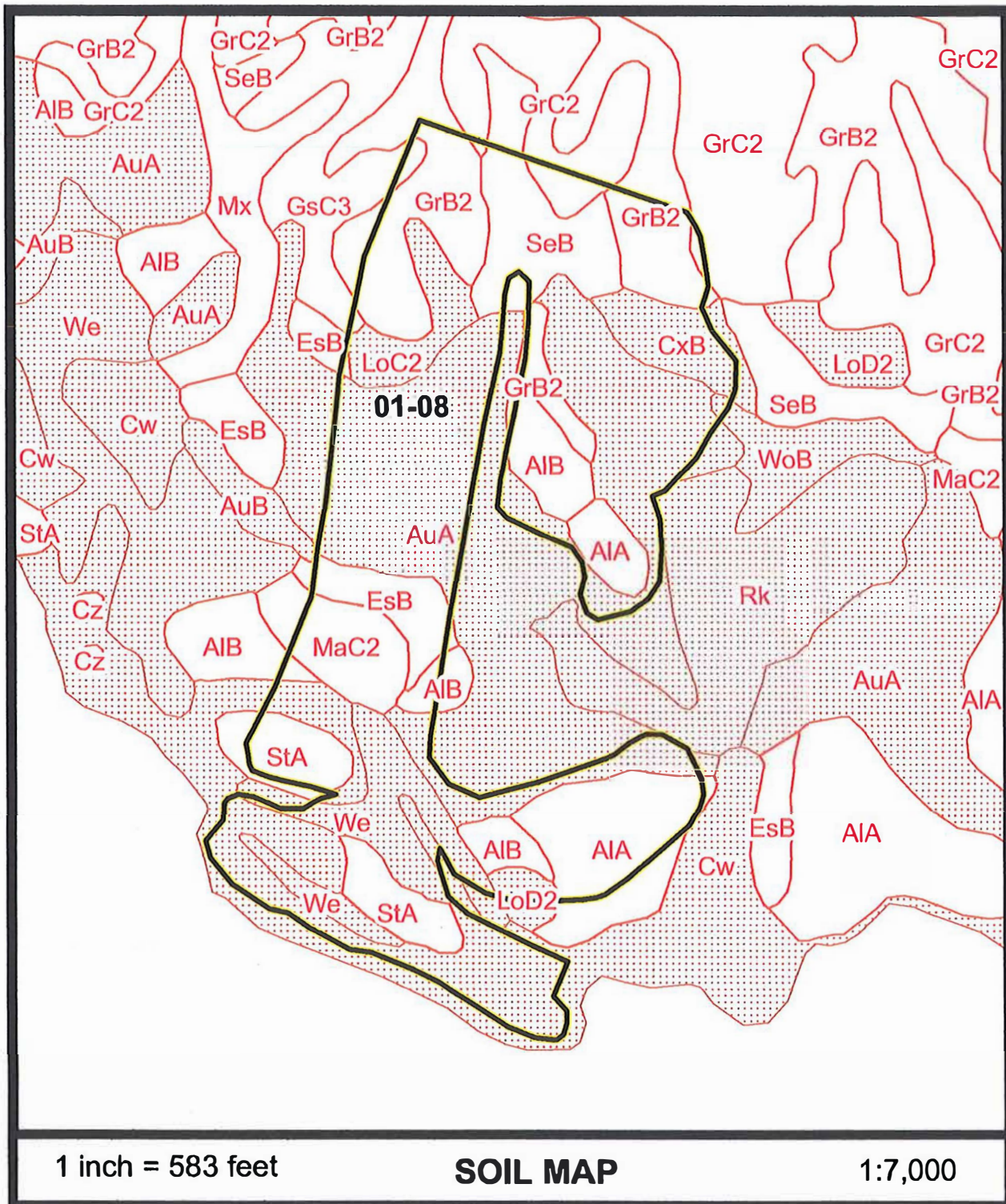


### Environmentally Sensitive Soil

05/16/2024





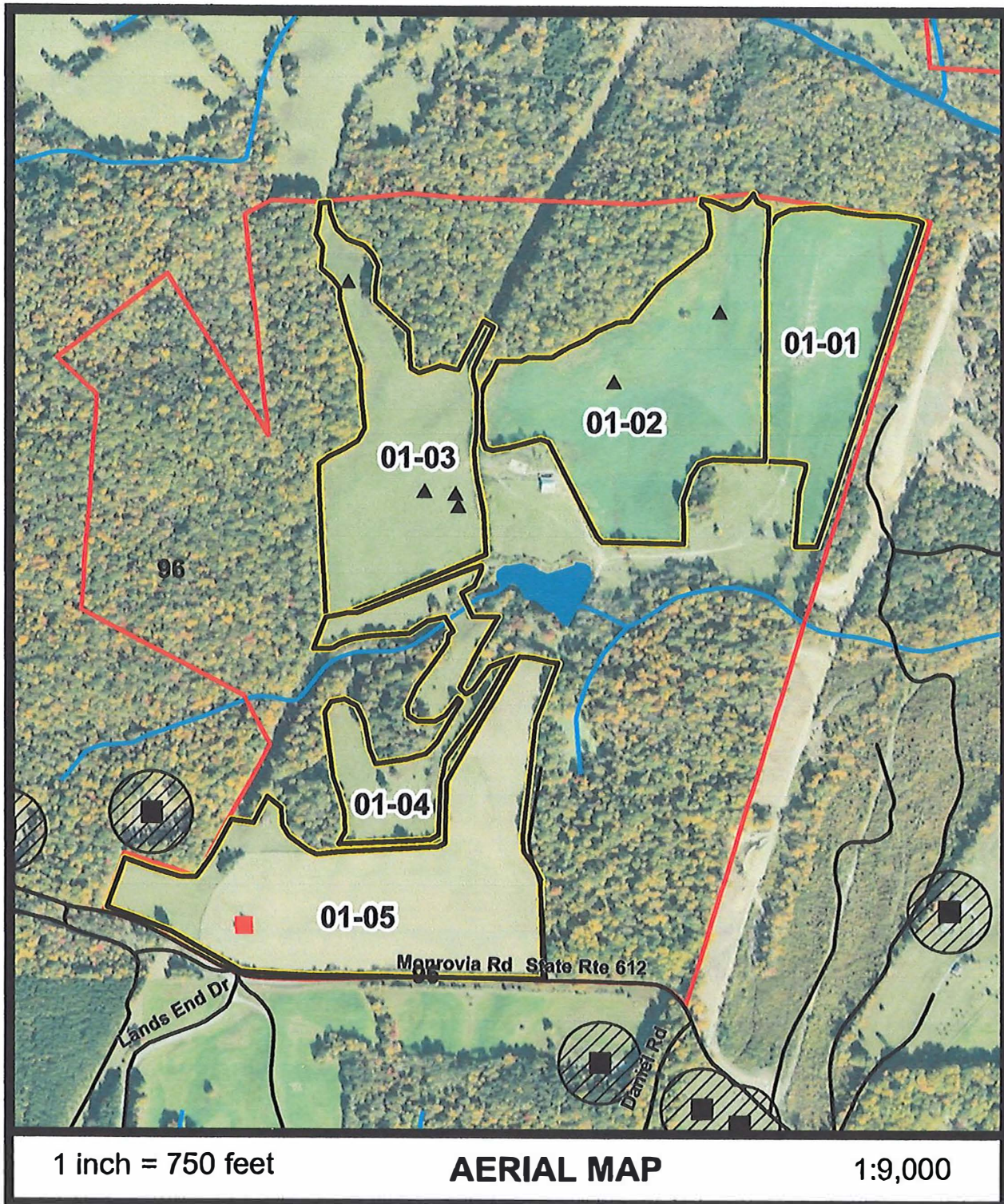


Environmentally Sensitive Soil

05/16/2024



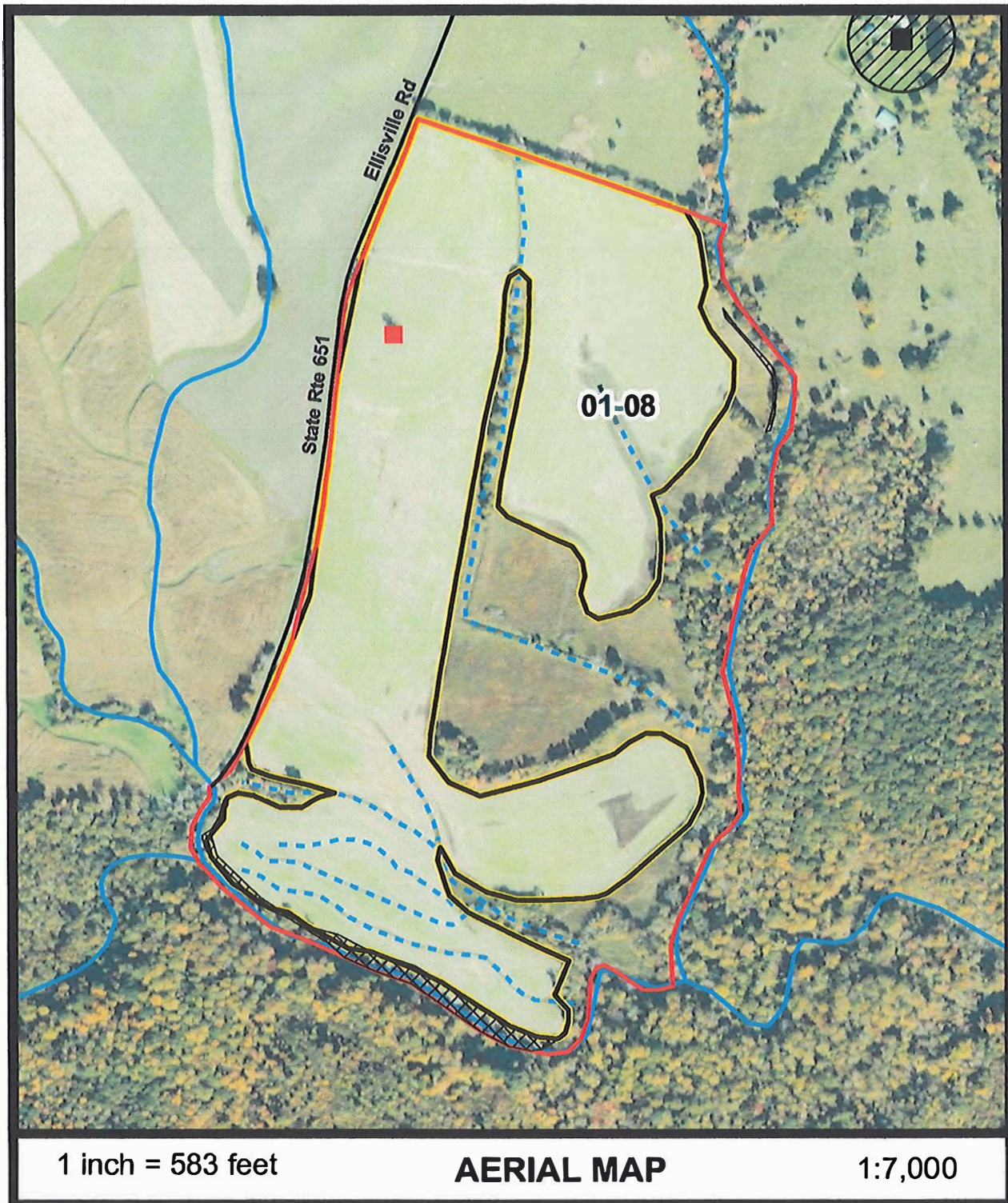




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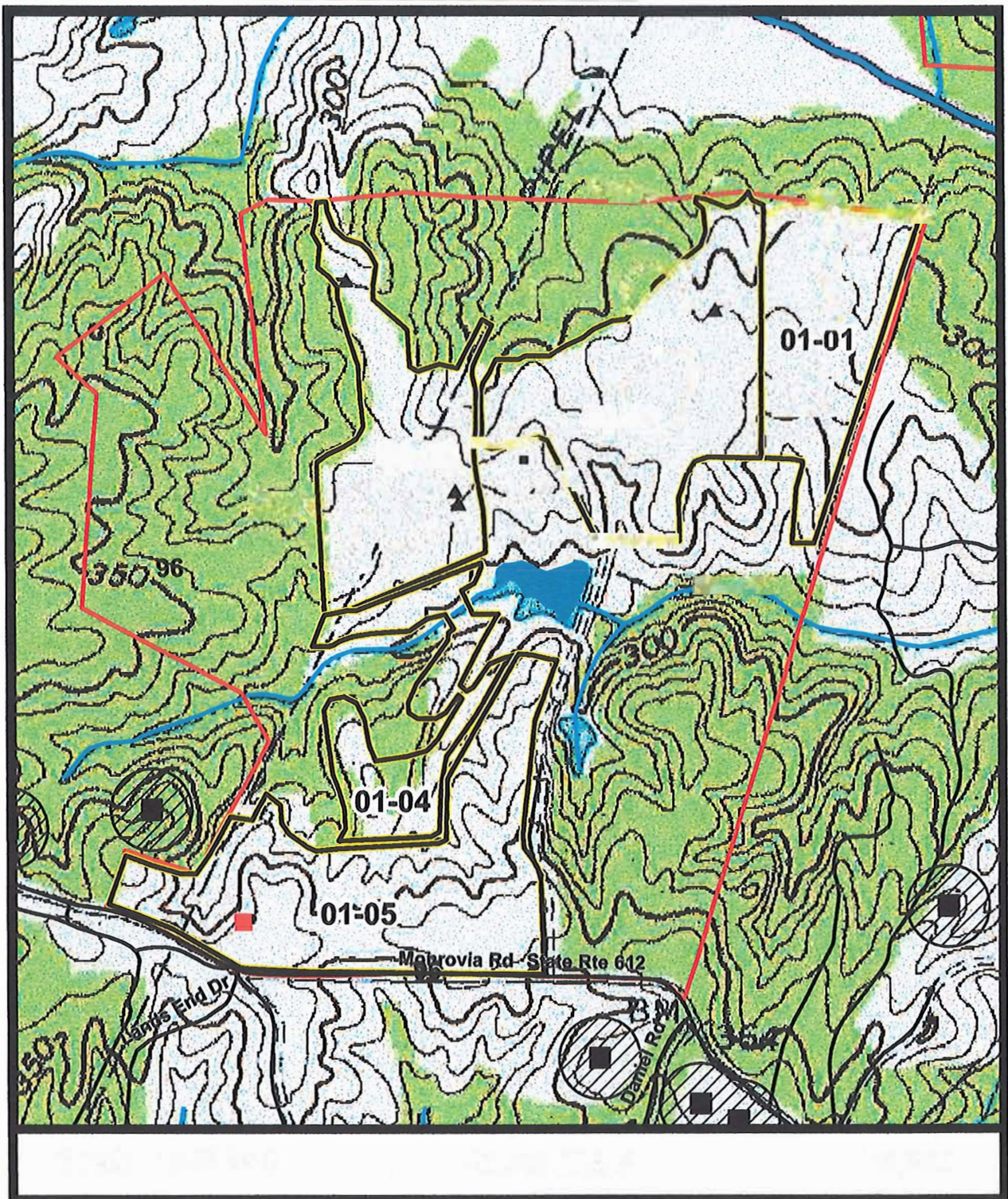




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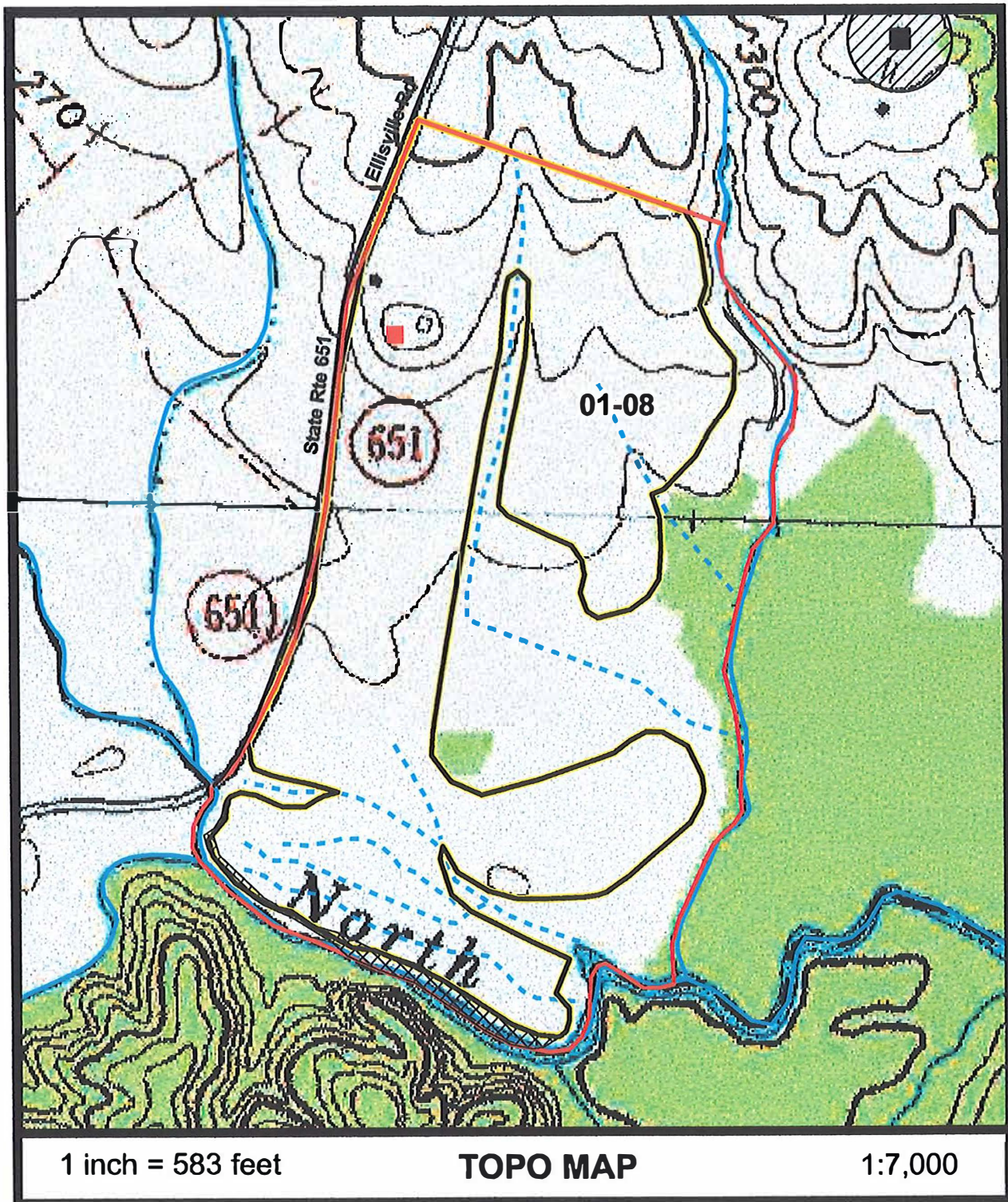


05/16/2024

01-01	17.8
01-02	29.0
01-03	21.3
01-04	12.4
01-05	40.0







1 inch = 583 feet

**TOPO MAP**

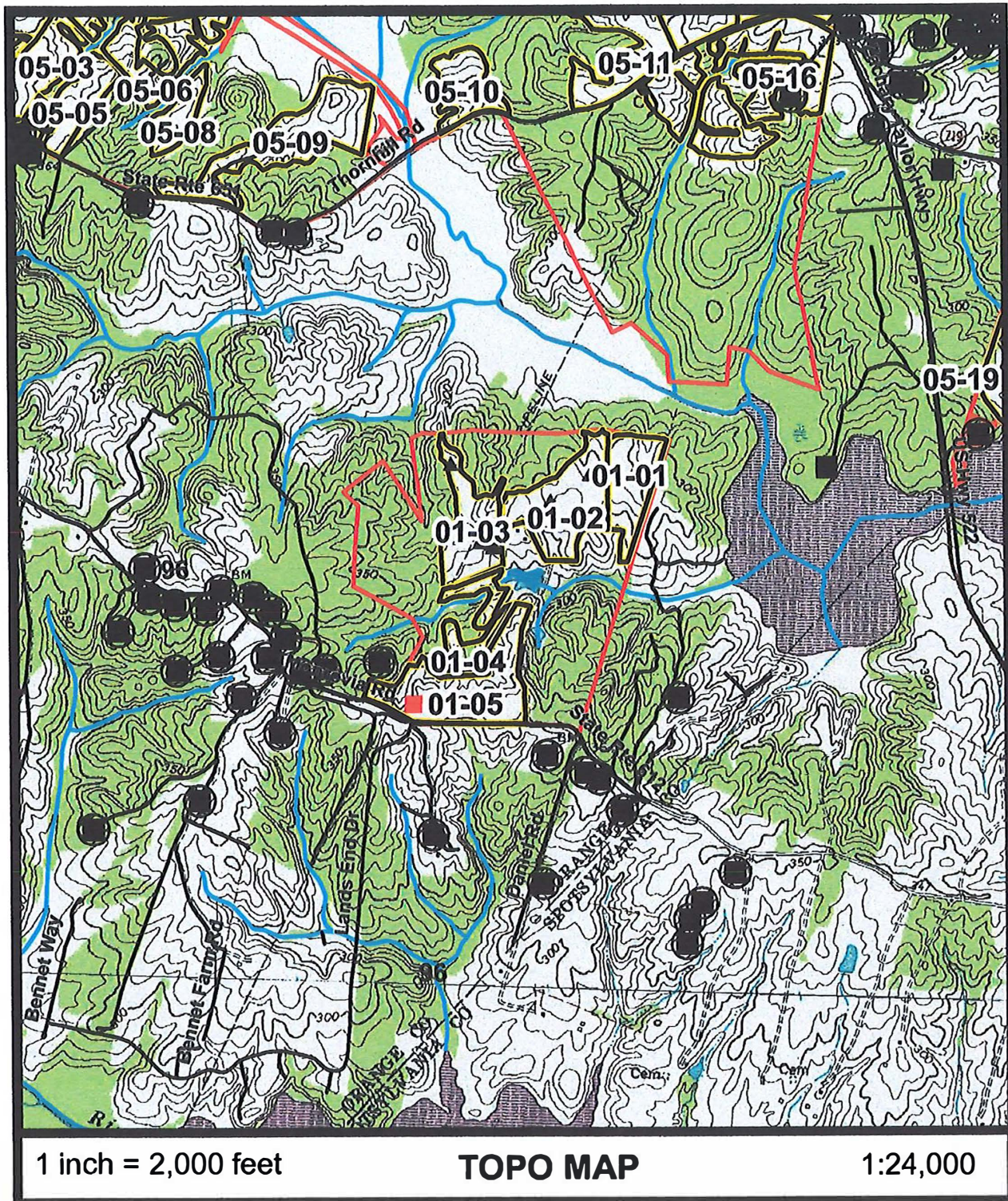
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FIELD	ACRES
01-08	78.4

05/16/2024



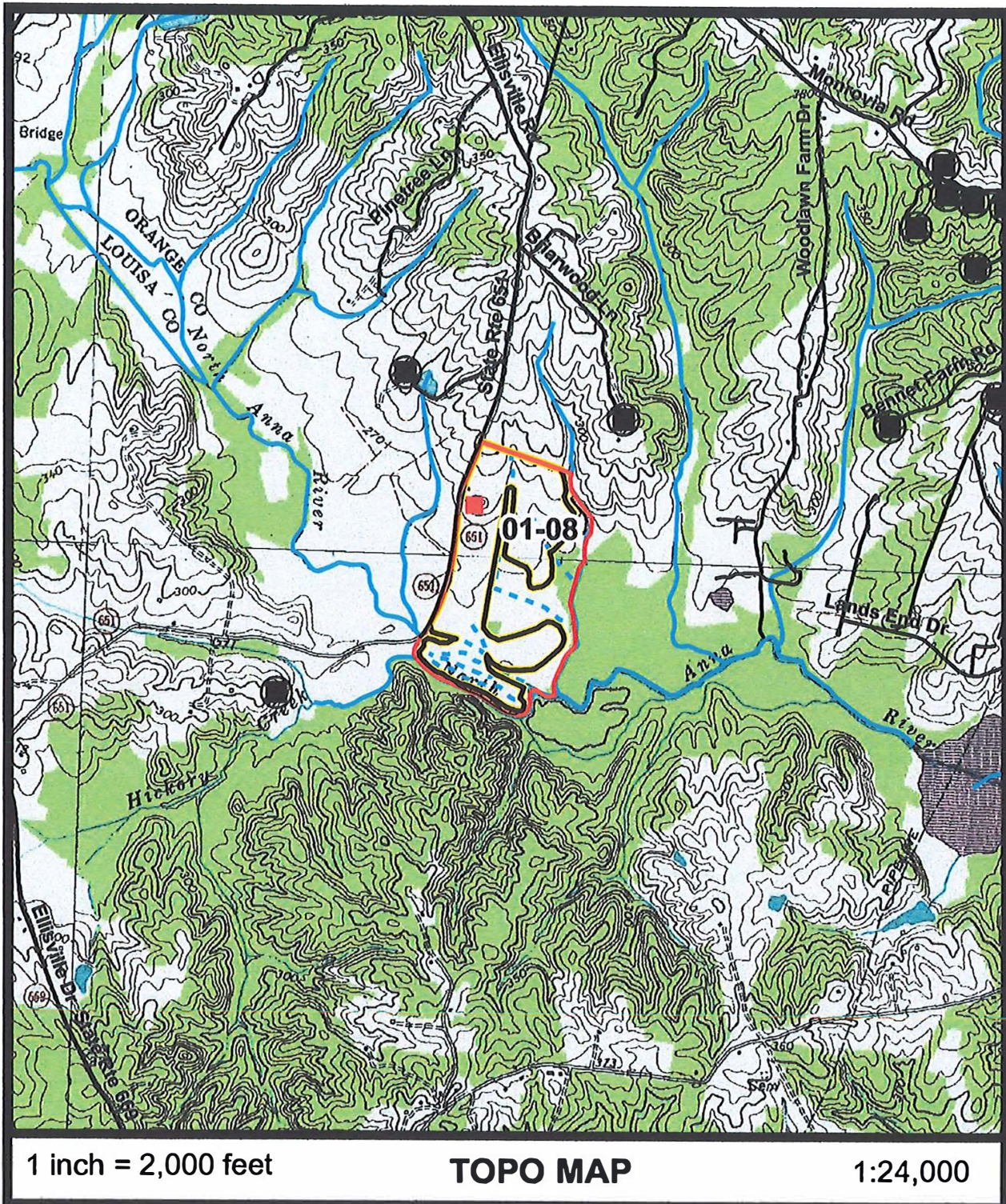




05/16/2024



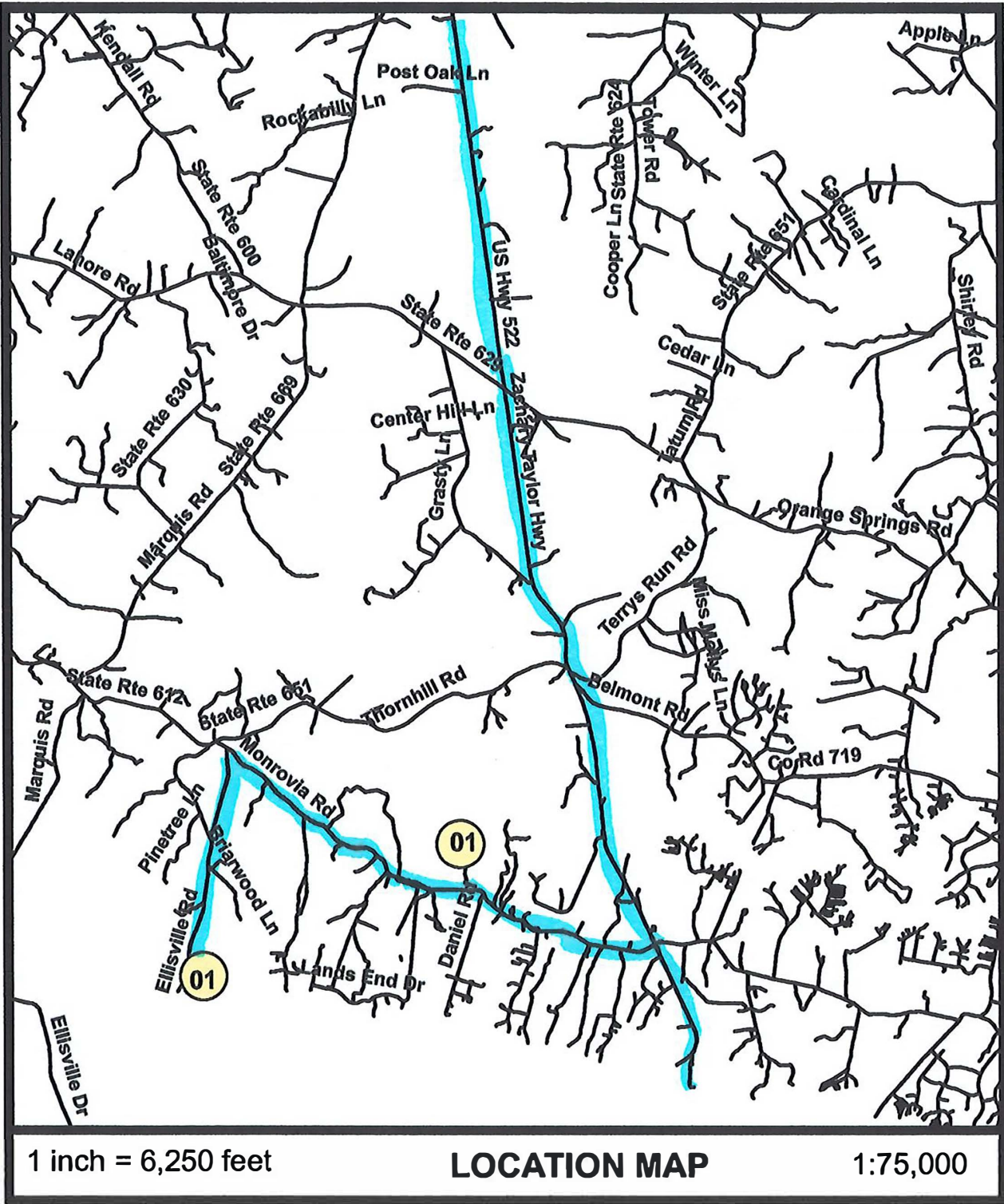




05/16/2024







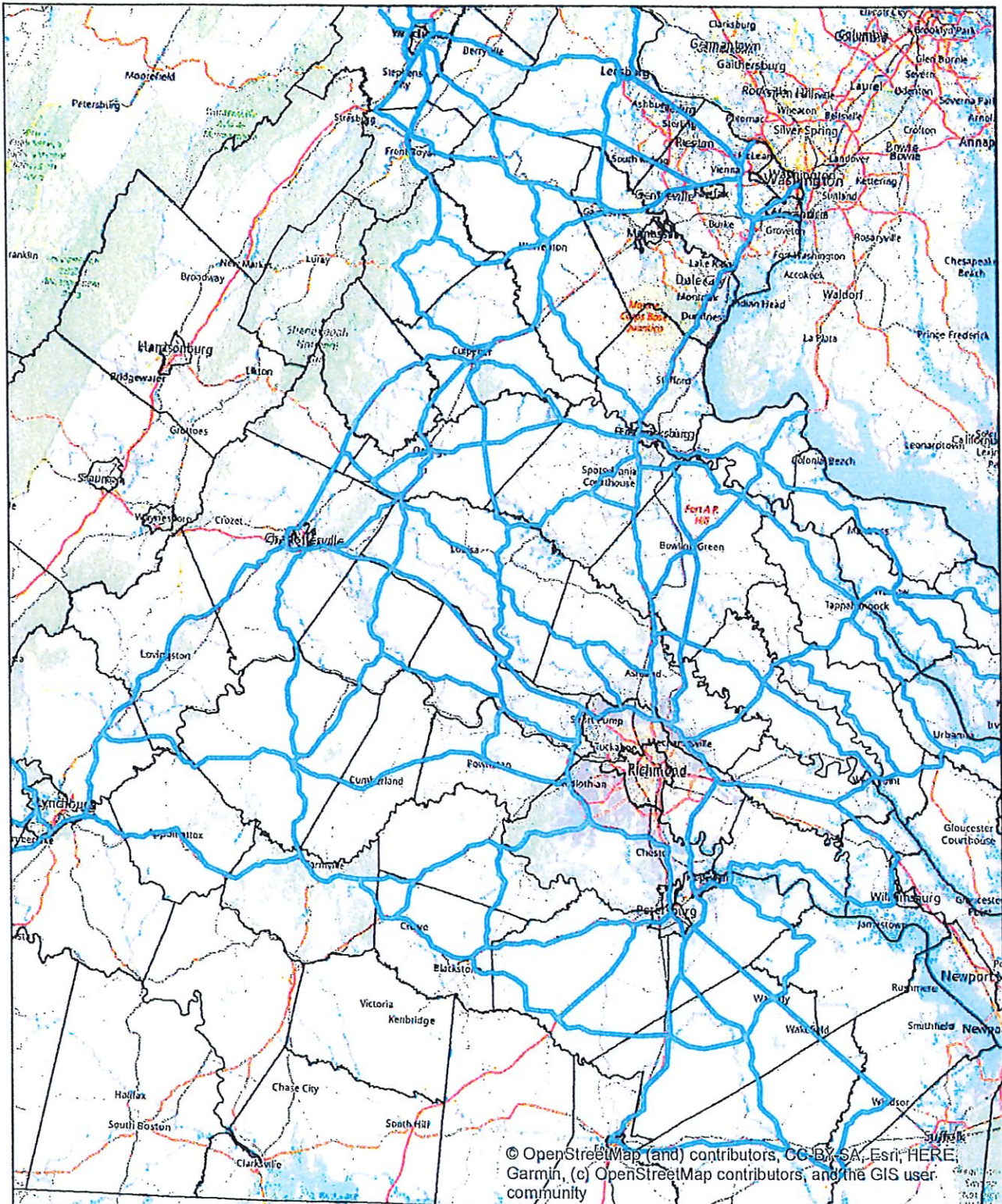
Haul Route

05/16/2024





# 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.