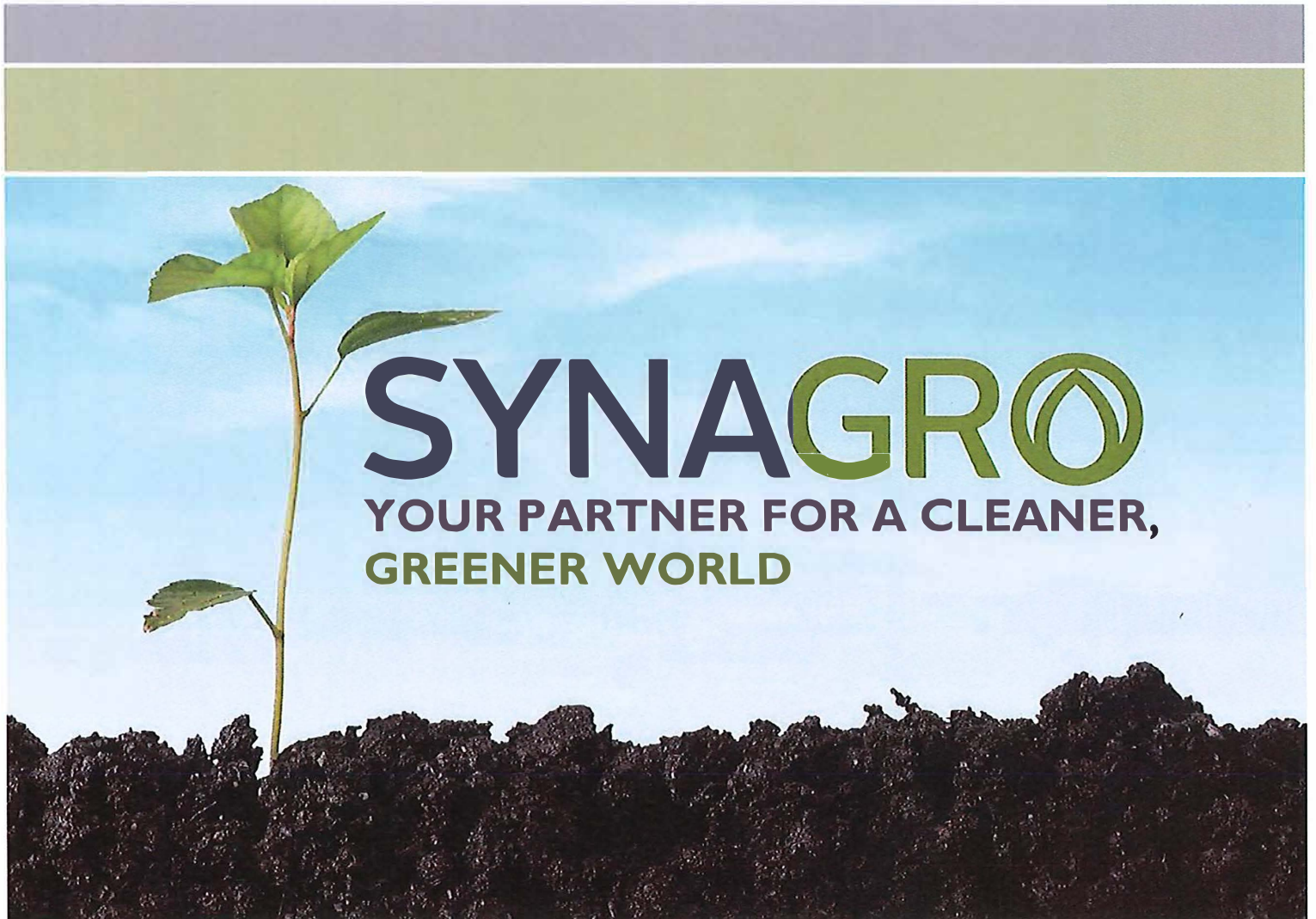


LAND APPLICATION OF BIOSOLIDS
LANE BROOKS

EX 90 (FIELDS 01-05)
ESSEX COUNTY, VIRGINIA
SEPTEMBER 01, 2021



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



AUGUST 25, 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 Lane Brooks (designated as EX 90, fields 01-05), 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,

A handwritten signature in black ink that reads "Hunter Davis". The signature is written in a cursive, flowing style.

Hunter Davis

Technical Services Specialist



FIELD SUMMARY SHEET

LANE BROOKS

EX 90

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
90-01	115.6	115.6		Agriculture	John Lane & Caroline Hope Brooks
90-02	68.7	68.7		Agriculture	John L & Caroline Hope Brooks Jr R/S
90-03	9.2	9.2		Agriculture	John L & Caroline Hope Brooks Jr R/S
90-04	34.1	34.1		Agriculture	John L & Caroline Hope Brooks Jr R/S
90-05	12.7	12.7		Agriculture	John L & Caroline Hope Brooks Jr R/S
TOTALS:	240.3	240.3			

SYNAGRO

VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: Lane Brooks PHONE: (804) 512-8360

ADDRESS: _____

FARM LOCATION: _____

FSA TRACT #: _____

TOTAL ACRES: _____ COUNTY: ESSEX VA

CROPS: _____

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 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.

Lane Brooks
OPERATOR'S SIGNATURE

8/4/2021
DATE

Synagro * 10647 Tidewater Trail * Champlain, VA 22438 * 804.443.2170

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.

**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 11/11/22 between John Lane & Caroline Hope Brooks 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 County, 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
34-54			

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 John Lane & Caroline Hope Brooks <i>Caroline Hope Brooks</i> By: Caroline Hope Brooks	Mailing Address 3336 Dunbrooke Road Tappahannock, VA 22560	Landowner Signature <i>Caroline Hope Brooks</i>
Title*	Phone No. 804-378-5124	
* <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 Wayne T. Webb Jr.	Mailing Address 1681 Tappahannock Blvd. Tappahannock, VA 22560	Permittee- Authorized Representative Signature
Title: Technical Services Manager	Phone No. 804-443-2170	<i>Wayne T. Webb Jr.</i>

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

Permittee: Synagro Central, LLC County or City: EssexLandowner: John Lane & Caroline Hope Brooks**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).

Caroline Hope Brooks
Landowner's Signature

11-11-22
Date

**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 11/11/22 between John L Brooks Jr & Caroline Hope Brooks R/S 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 County, 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
29-30			
30-35			

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 John L Brooks Jr & Caroline Hope Brooks R/S <i>Caroline Hope Brooks</i> By: Caroline Hope Brooks	Mailing Address 3726 Dunbrooke Road Tappahannock, VA 22560	Landowner Signature <i>Caroline Hope Brooks</i>
Title*	Phone No. 804-370-5134	
* <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 Wayne T. Webb Jr.	Mailing Address 1681 Tappahannock Blvd. Tappahannock, VA 22560	Permittee- Authorized Representative Signature
Title: Technical Services Manager	Phone No. 804-443-2170	<i>Wayne T. Webb Jr.</i>

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

Permittee: Synagro Central, LLC County or City: Essex

Landowner: John L Brooks Jr & Caroline Hope Brooks R/S

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:

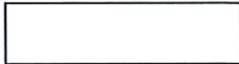
Following biosolids application to pasture or hayland sites:

 - 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).

Caroline Hope Brooks
Landowner's Signature

11-11-22
Date

**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 11/11/22 between John Lane & Caroline Hope Brooks 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 County, 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
34-54			

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 John Lane & Caroline Hope Brooks <i>John Lane Brooks</i>	Mailing Address 3226 Dunbrook Rd Tapp Va 22560	Landowner Signature <i>John Lane Brooks</i>
By: John Lane Brooks	Phone No. 804 512-8340	
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 Wayne T. Webb Jr.	Mailing Address 1681 Tappahannock Blvd. Tappahannock, VA 22560	Permittee- Authorized Representative Signature <i>Wayne T. Webb Jr.</i>
Title: Technical Services Manager	Phone No. 804-443-2170	

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

Permittee: Synagro Central, LLC County or City: Essex

Landowner: John Lane & Caroline Hope Brooks

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).


Landowner's Signature

11/11/22
Date

**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 11/11/22 between John L Brooks Jr & Caroline Hope Brooks R/S 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 County, 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
29-30			
30-35			

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 John L Brooks Jr & Caroline Hope Brooks R/S <i>John L Brooks Jr</i>	Mailing Address 3226 Dunbrooke Rd Tapp. Va 22540	Landowner Signature <i>John L Brooks Jr</i>
By: John L Brooks Jr <i>John L Brooks Jr</i>	Phone No. 804-512-8360	
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 Wayne T. Webb Jr.	Mailing Address 1681 Tappahannock Blvd. Tappahannock, VA 22560	Permittee- Authorized Representative Signature
Title: Technical Services Manager	Phone No. 804-443-2170	<i>Wayne T. Webb Jr</i>

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

Permittee: Synagro Central, LLC County or City: Essex

Landowner: John L Brooks Jr & Caroline Hope Brooks R/S

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).


Landowner's Signature

11/11/22
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 90)

Please Print

(Signatures not required on this page)

<u>Tax Parcel ID(s)</u>	<u>Landowner(s)</u>
34-54	CAROLINE HOPE & JOHN LANE BROOKS
30-35	JOHN L & CAROLINE HOPE BROOKS JR R/S
29-30	JOHN L & CAROLINE HOPE BROOKS JR R/S

0 SUNNYSIDE RD

Location 0 SUNNYSIDE RD

Mblu 34 / 54 / 1

Acct# 3700

Owner BROOKS CAROLINE HOPE

Clean & Green Total \$135,900

Class Agrigultural - 100+ Ac

Appraisal \$233,100

PID 2845

Building Count 1

Current Value

Appraisal					
Valuation Year	Improvements		Land	Total	
2021			\$0	\$233,100	\$233,100
Assessment					
Valuation Year	Improvements	Land	Total	Clean & Green Land	Clean & Green Total
2021	\$0	\$233,100	\$233,100	\$135,900	\$135,900

Owner of Record

Owner	BROOKS CAROLINE HOPE	Sale Price	\$394,500
Co-Owner	BROOKS JOHN LANE	Certificate	2021
Address	3226 DUNBROOK RD TAPPAHANNOCK, VA 22560	Book & Page	/
		Sale Date	02/02/2021
		Instrument	01

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
BROOKS CAROLINE HOPE	\$394,500	2021	/	01	02/02/2021
HENLEY ANN S ET AL	\$0		228/201	00	04/24/1998

Building Information

Building 1 : Section 1

Year Built:
 Living Area: 0
 Replacement Cost: \$0

0 CRITTENDENS MILL RD

Location 0 CRITTENDENS MILL RD

Mblu 30 / 35 / 1

Acct# 1949

Owner BROOKS JOHN L JR

Clean & Green Total \$69,600

Class Agricultural- 20-100 Ac

Appraisal \$160,000

PID 1002

Building Count 1

Current Value

Appraisal					
Valuation Year	Improvements		Land	Total	
2021	\$0		\$160,000	\$160,000	

Assessment					
Valuation Year	Improvements	Land	Total	Clean & Green Land	Clean & Green Total
2021	\$0	\$160,000	\$160,000	\$69,600	\$69,600

Owner of Record

Owner	BROOKS JOHN L JR	Sale Price	\$0
Co-Owner	BROOKS CAROLINE HOPE R/S	Certificate	18
Address	3226 DUNBROOKE RD TAPPAHANNOCK, VA 22560	Book & Page	0/0
		Sale Date	10/16/2018
		Instrument	00

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
BROOKS JOHN L JR	\$0	18	0/0	00	10/16/2018

Building Information

Building 1 : Section 1

Year Built:
 Living Area: 6,096
 Replacement Cost: \$0
 Building Percent Good:

Building Photo

 Building Photo
<https://images.vgsi.com/photos/EssexVAPhotos/default.jpg>

0 CRITTENDENS MILL RD

Location 0 CRITTENDENS MILL RD

Mblu 29 / 30 / 1

Acct# 1947

Owner BROOKS JOHN L JR

Clean & Green Total \$194,800

Class Agrigultural - 100+ Ac

Appraisal \$287,760

PID 1000

Building Count 1

Current Value

Appraisal					
Valuation Year	Improvements		Land	Total	
2021			\$0	\$287,760	\$287,760
Assessment					
Valuation Year	Improvements	Land	Total	Clean & Green Land	Clean & Green Total
2021	\$0	\$287,760	\$287,760	\$194,800	\$194,800

Owner of Record

Owner	BROOKS JOHN L JR	Sale Price	\$0
Co-Owner	BROOKS CAROLINE HOPE R/S	Certificate	18
Address	3226 DUNBROOKE RD TAPPAHANNOCK, VA 22560	Book & Page	0/0
		Sale Date	10/16/2018
		Instrument	00

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
BROOKS JOHN L JR	\$0	18	0/0	00	10/16/2018

Building Information

Building 1 : Section 1

Year Built:
Living Area: 1,056
Replacement Cost: \$0
Building Percent Good:

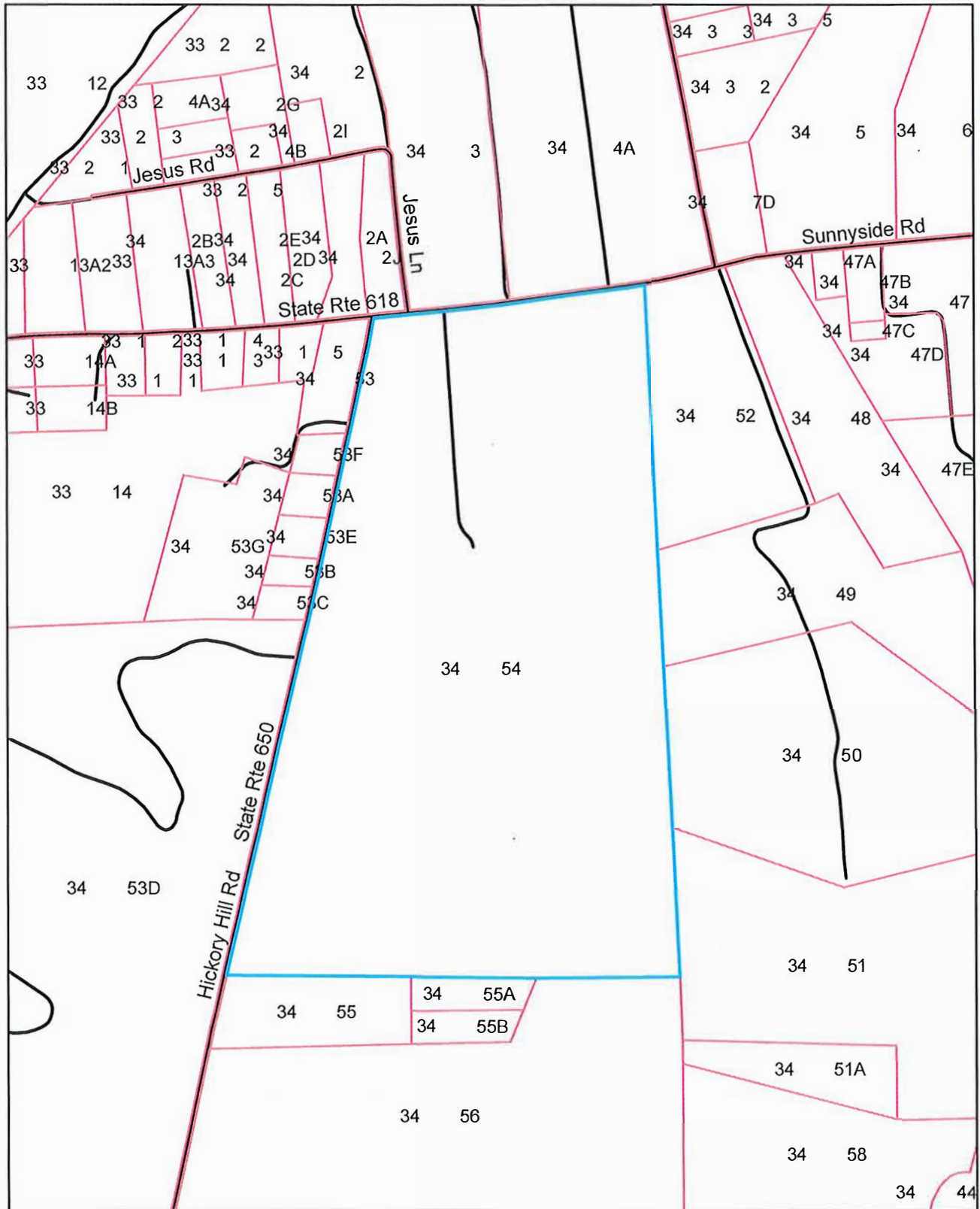
Building Photo

 Building Photo
<https://images.vgsi.com/photos/EssexVAPhotos/default.jpg>

EX 90 - Adjoining Property w/n 400'

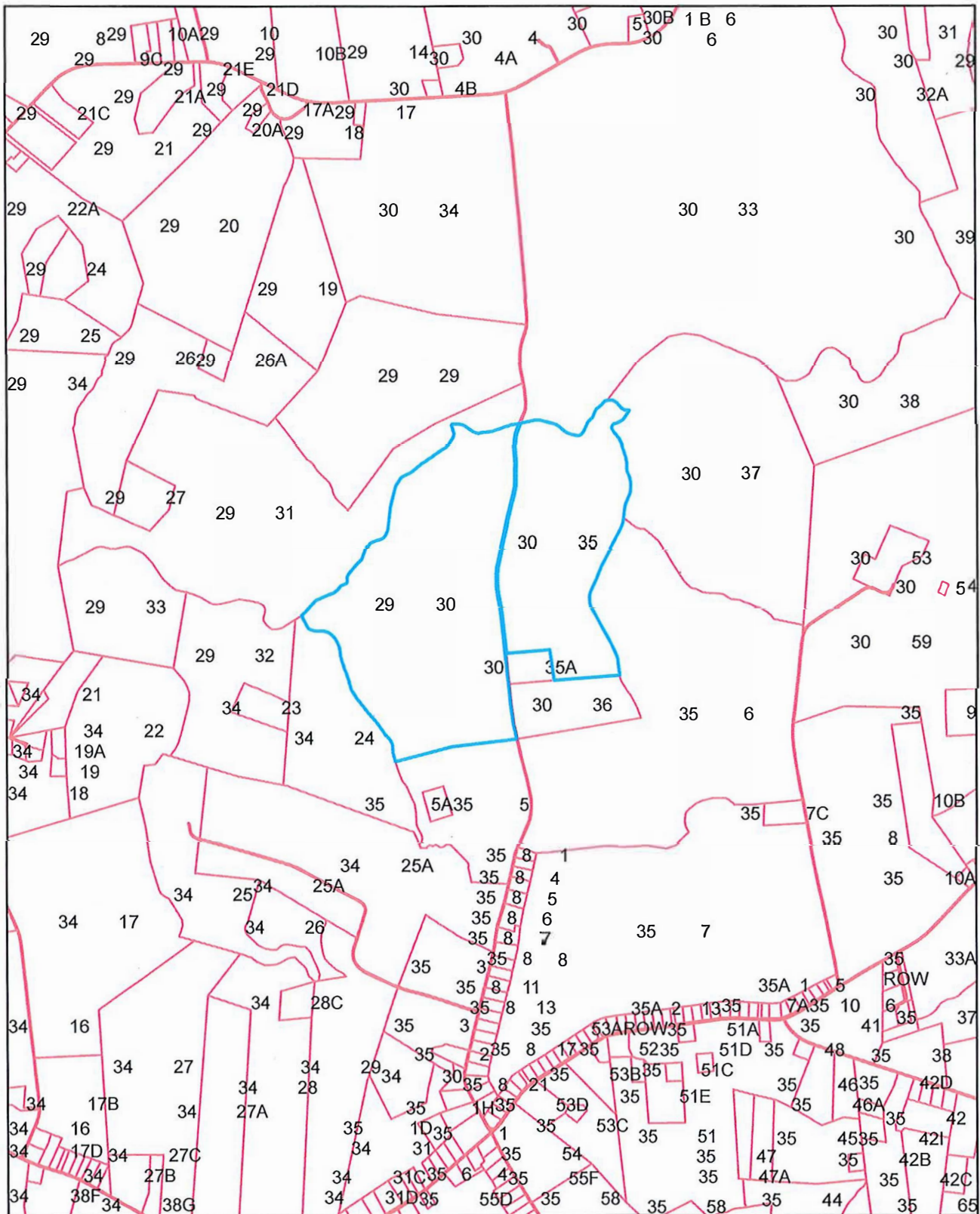
Parcel ID	Owner 1	Owner 2	Address	City	State	Zip
29-30	BROOKS JOHN L JR	BROOKS CAROLINE HOPE R/S	3226 DUNBROOKE RD	TAPPAHANNOCK	VA	22560
29-31	LOWERY ROBERT TYLER ET AL		PO BOX 283	TAPPAHANNOCK	VA	22560
29-32	GUNN DAWN REED		21280 GUNN LANE	COURTLAND	VA	23837
30-33	BROADDUS PROPERTIES LLC		P O BOX 1306	BOWLING GREEN	VA	22427
30-35	BROOKS JOHN L JR	BROOKS CAROLINE HOPE R/S	3226 DUNBROOKE RD	TAPPAHANNOCK	VA	22560
30-35A	NEW HOPE BAPTIST ASSEMBLY CHURCH		883 POPOMAN SWAMP RD	HUSTLE	VA	22476
30-36	WARE JO ANN H TRUSTEE	WARE ROBERT TYLER	228 SUNNYSIDE LANE	DUNNSVILLE	VA	22454
30-37	ARDOE LLC		3 KNOLLS RD	NEW FAIRFIELD	CT	06812
33-14	POLLARD ROY G		2130 LATANES MILL RD	TAPPAHANNOCK	VA	22560
33-1-4	HARRIS BRENDA GREGORY LIFE ESTATE		3597 SUNNYSIDE RD	TAPPAHANNOCK	VA	22560
33-1-5	HOLMES HARRY T ET AL		430 VESSELS RD	NEWTOWN	VA	23126
34-52	HODGES ALBERT E & LINDA C		3247 SUNNYSIDE RD	TAPPAHANNOCK	VA	22560
34-24	SCHOOLS MARY L		21280 GUNN LANE	COURTLAND	VA	23837
34-2A	CAMPBELL STACEY M		3578 SUNNYSIDE RD	TAPPAHANNOCK	VA	22560
34-2D	SMITH ADDISON BOYD JR		327 KANSAS DR	MEDFORD	OR	97504
34-2E	GOLDEN TRESA ANN		3580 SUNNYSIDE RD	TAPPAHANNOCK	VA	22560
34-2J	BANKS GEORGE E	BANKS AMANDA L R/S	P O BOX 3013	TAPPAHANNOCK	VA	22560
34-3	POLLARD THOMAS LEE GRANT		3436 SUNNYSIDE RD	TAPPAHANNOCK	VA	22560
34-48	WILDER TIMOTHY A		9461 INDIANFIELD DR	MECHANICSVILLE	VA	23116
34-49	WILDER TIMOTHY A		9461 INDIANFIELD DR	MECHANICSVILLE	VA	23116
34-4A	OWENS CHARLES R		8087 RAMPART CIRCLE	MECHANICSVILLE	VA	23111
34-50	MOODY JAMES LEON TRUSTEE	MOODY VERLINE H TRUSTEE	14301 NEW KENT HWY	LANEXA	VA	23089
34-51	DAVIS JUANITA S		2272 DUNBROOKE RD	TAPPAHANNOCK	VA	22560
34-53	P & P MARKET LLC		2519 LATANES MILL RD	TAPPAHANNOCK	VA	22560
34-53A	SMITH FLOYD T ET AL		1855 HICKORY HILL RD	ST STEPHENS CHURCH	VA	23148
34-53B	NORMAN JAMES H ET UX		1805 HICKORY HILL RD	ST STEPHENS CHURCH	VA	23148
34-53C	P & P MARKET LLC		3531 SUNNYSIDE RD	TAPPAHANNOCK	VA	22560
34-53D	BROOKS FARM LLC		3333 DUNBROOKE RD	TAPPAHANNOCK	VA	22560
34-53E	WILSON BERTHA MAE LIFE ESTATE		62 GREENLEAF TERRACE	STAFFORD	VA	22556
34-53F	ROANE MARY M LIFE ESTATE		1941 HICKORY HILL RD	ST STEPHENS CHURCH	VA	23148
34-53G	PUTNAM ELMER M	PUTMAN ANGELA M R/S	26060 MATTAPONI TRL	MILFORD	VA	22514

Parcel ID	Owner 1	Owner 2	Address	City	State	Zip
34-55	COLEMAN MARVA C		2429 ARNOLD ST	CAMDEN	NJ	08104
34-56	DAVIS WILLIAM TERRY	DAVIS ELLEN BAXLEY R/S	P O BOX 1588	TAPPAHANNOCK	VA	22560
34-7D	CORBIN FRANCES H		3170 SUNNYSIDE RD	TAPPAHANNOCK	VA	22560
35-5	ROWLAND MICHAEL D	ROWLAND DEBORAH J R/S	2486 CRITTENDENS MILL RD	TAPPAHANNOCK	VA	22560
35-6	ARDOE LLC		3 KNOLLS RD	NEW FAIRFIELD	CT	06812
39-39	BATES JAMES BARRY	BATES SUZANNE R/S	P O BOX 2101	TAPPAHANNOCK	VA	22560



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

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.



1 inch = 2,000 feet

TAX MAP

1:24,000

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 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.

Created 08-31-2021

TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
John Lane & Caroline Hope Brooks	90-01	34-54
John L & Caroline Hope Brooks Jr R/S	90-02	29-30
John L & Caroline Hope Brooks Jr R/S	90-03	30-35
John L & Caroline Hope Brooks Jr R/S	90-04	29-30
John L & Caroline Hope Brooks Jr R/S	90-05	30-35

Field Number	Latitude (North)	Longitude (West)
90-01	37.893°	-76.996°
90-02	37.918°	-76.957°
90-03	37.920°	-76.954°
90-04	37.922°	-76.957°
90-05	37-923	-76.953°

*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.

Farm Summary Report

Plan: New Plan Fall, 2021 - Winter, 2031

Farm Name: New Farm
Location: Essex
Specialist: Hunter Davis
N-based Acres: 217.0
P-based Acres: 0.0

Tract Name: EX90
FSA Number: 0
Location: Essex

Field Name: 1
Total Acres: 115.60 Usable Acres: 115.60
FSA Number: 0
Tract: EX90
Location: Essex
Slope Class: B 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
52	18B	Rumford
1	19E	Emporia Rumford
8	20D	Rumford Slagle
39	23A	Suffolk

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: 2
 Total Acres: 68.7 Usable Acres: 68.7
 FSA Number: 0
 Tract: EX90
 Location: Essex
 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
30	10A	Kempsville
46	10B	Kempsville
16	19E	Emporia Rumford
8	23B	Suffolk

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
---------	-------	-----------

Field Name: 3
 Total Acres: 9.20 Usable Acres: 9.20
 FSA Number: 0
 Tract: EX90
 Location: Essex
 Slope Class: B 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
40	10A	Kempsville
55	10B	Kempsville
5	19E	Emporia Rumford

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
---------	-------	-----------

Field Name: 4
 Total Acres: 34.1 Usable Acres: 34.1
 FSA Number: 0
 Tract: EX90
 Location: Essex
 Slope Class: B 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
5	19E	Emporia Rumford
61	23B	Suffolk
34	10A	Kempsville

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
---------	-------	-----------

Field Name: 5
 Total Acres: 12.70 Usable Acres: 12.70
 FSA Number: 0
 Tract: EX90
 Location: Essex
 Slope Class: B 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
53	10A	Kempsville
42	10B	Kempsville
5	19E	Emporia Rumford

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
---------	-------	-----------

ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
90-01	High Leaching Potential (Map Units 18B,19E,20D - 61%)
90-02	High Leaching Potential (Map Unit 19E - 16%)
90-03	High Leaching Potential (Map Unit 19E- 5%)
90-04	High Leaching Potential (Map Unit 19E- 5%)
90-05	High Leaching Potential (Map Unit 19E- 5%)

Essex County Soils that 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
20D	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

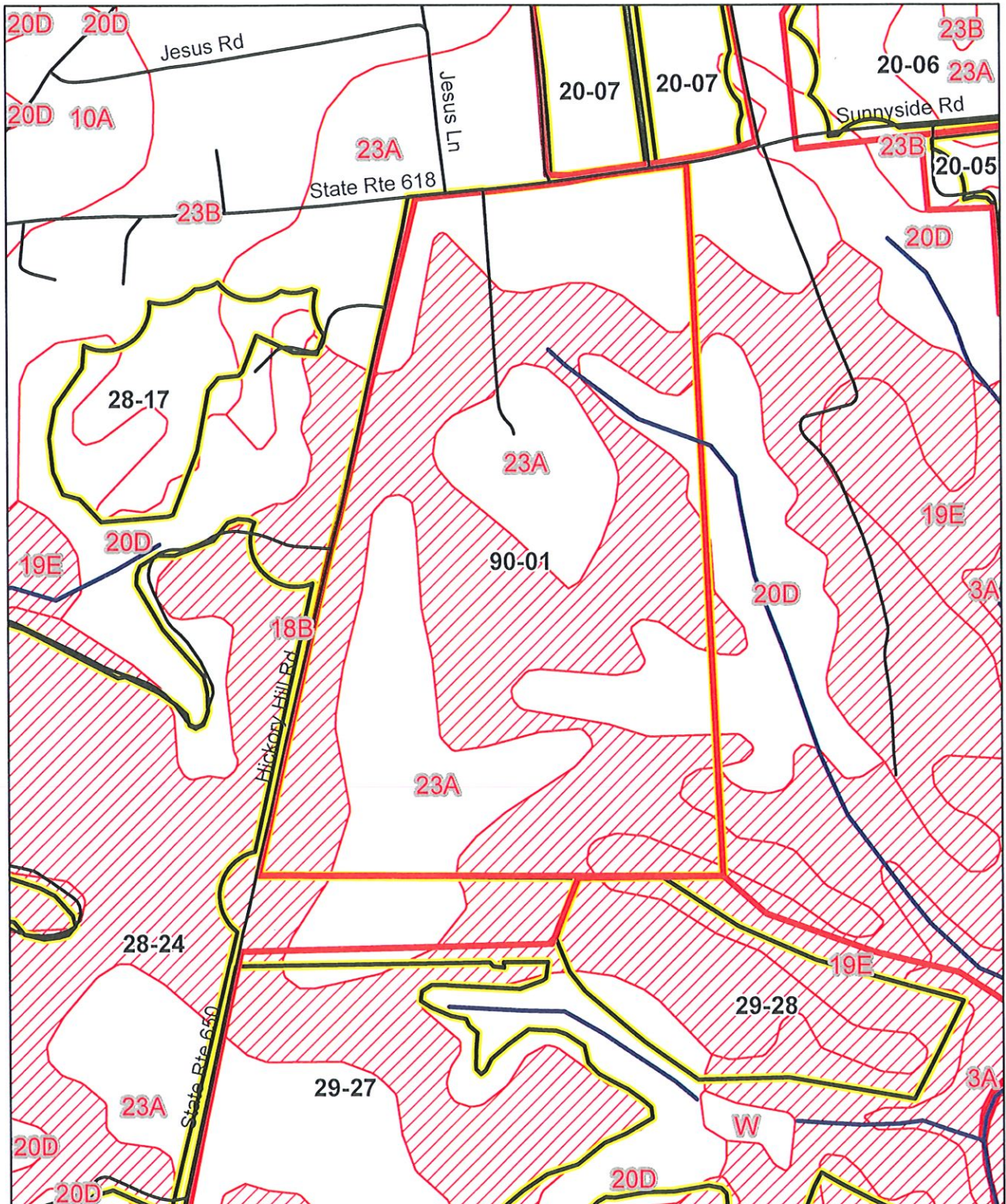


Field Boundary



Property Line

- 100' buffer unless waiver issued



1 inch = 660 feet

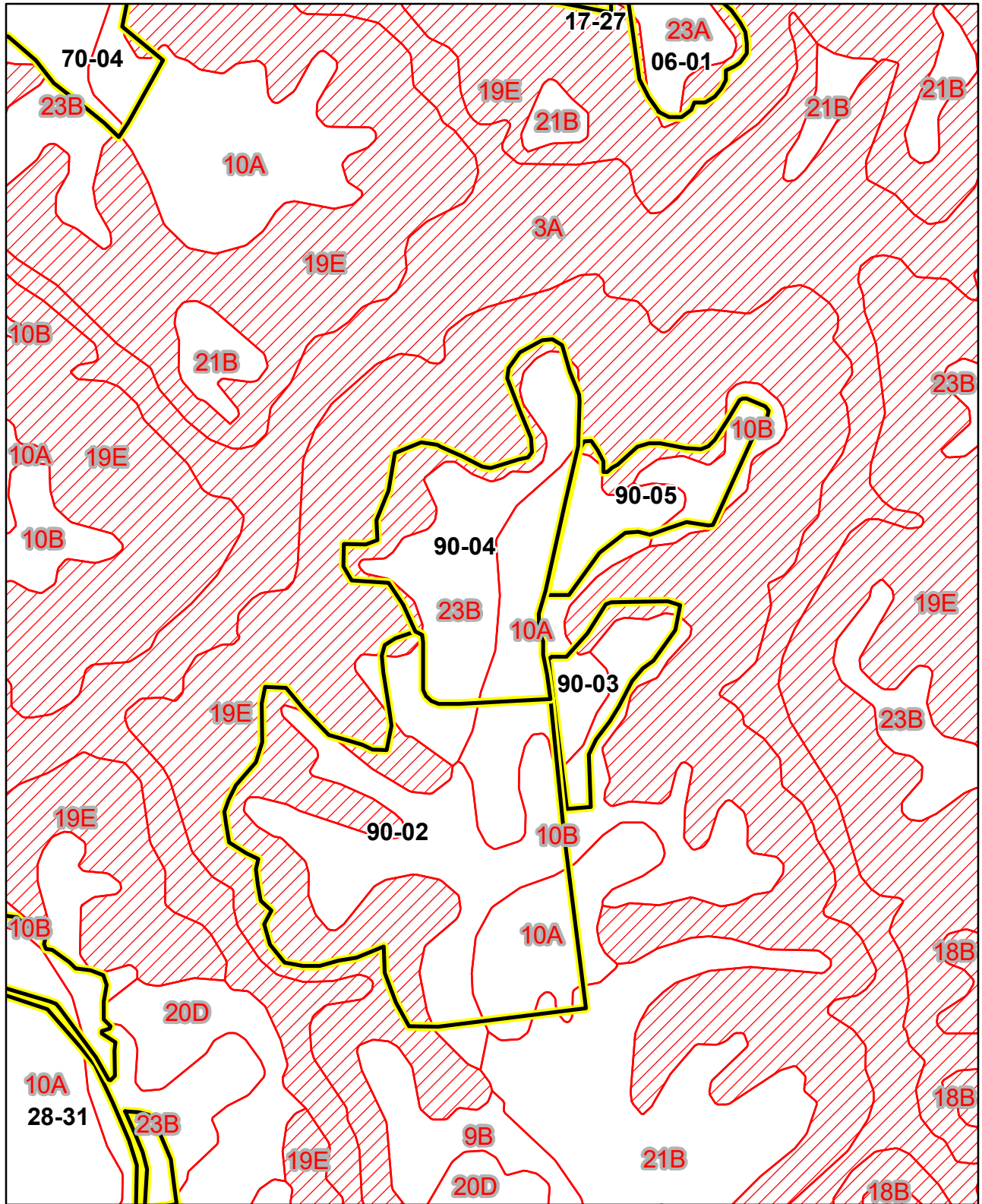
SOIL MAP

1:7,920



Environmentally Sensitive Soils

Revised 05/06/2024



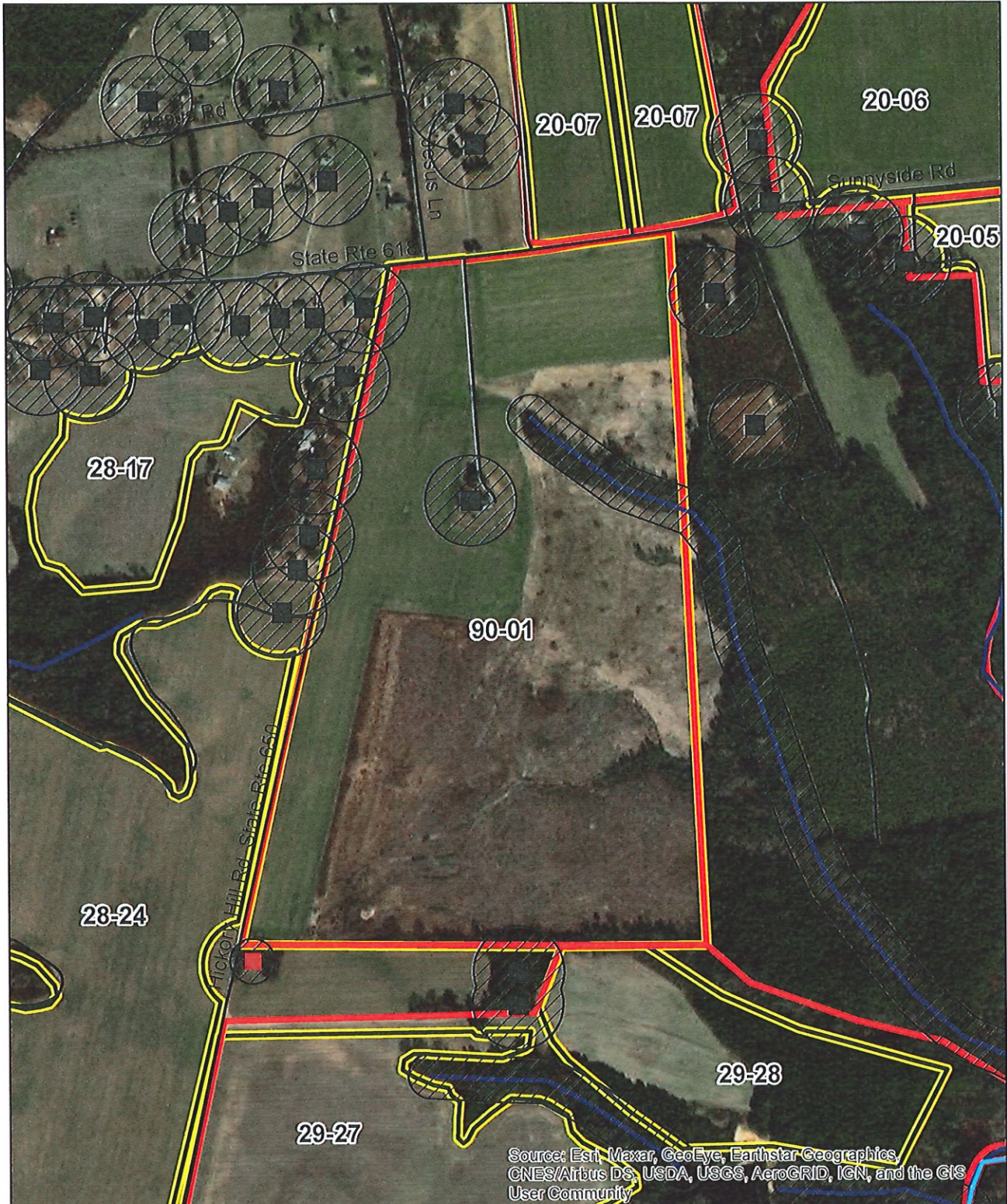
1 inch = 833 feet

SOIL MAP

1:10,000

 Environmentally Sensitive Soils

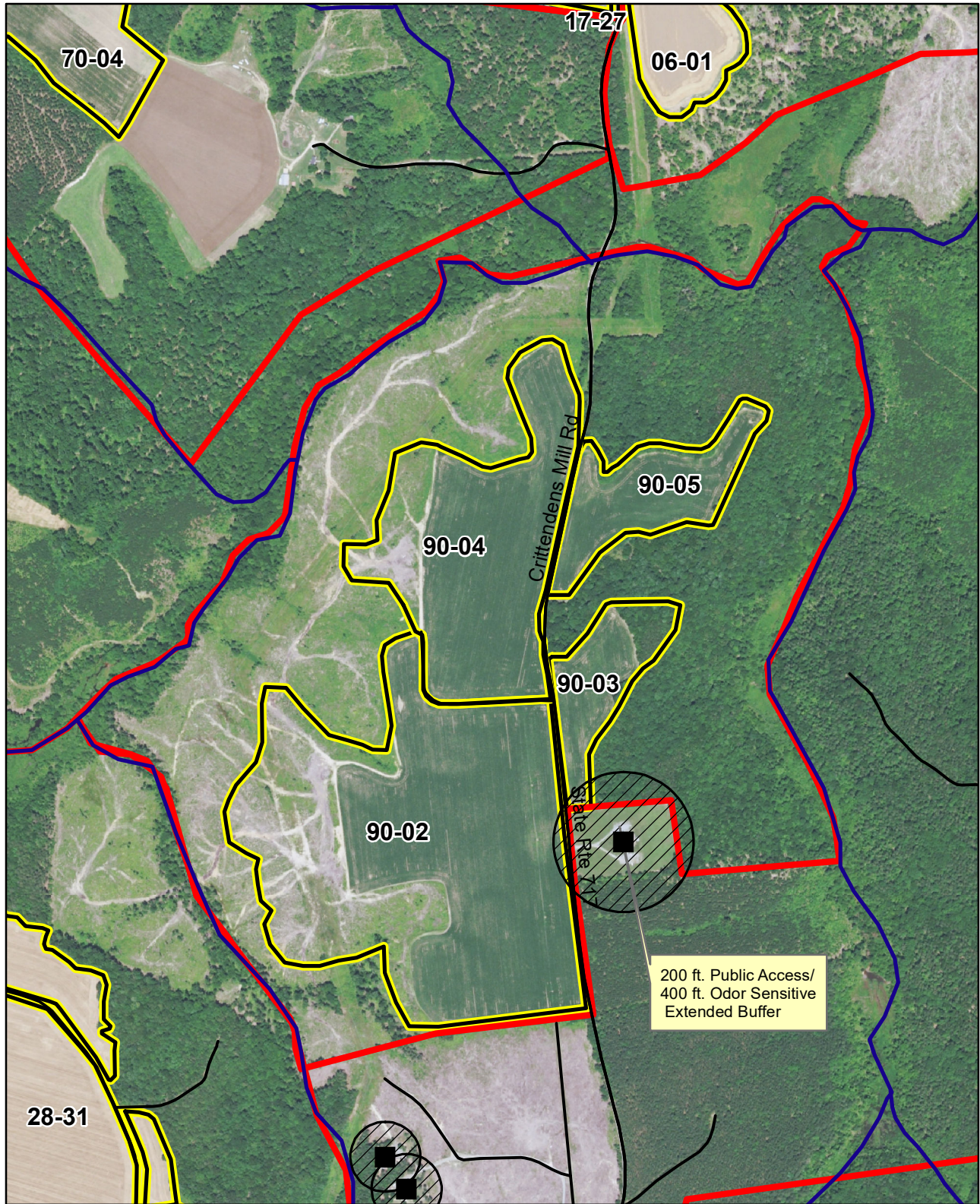
Revised 3/4/2024



1 inch = 660 feet

AERIAL MAP

1:7,920



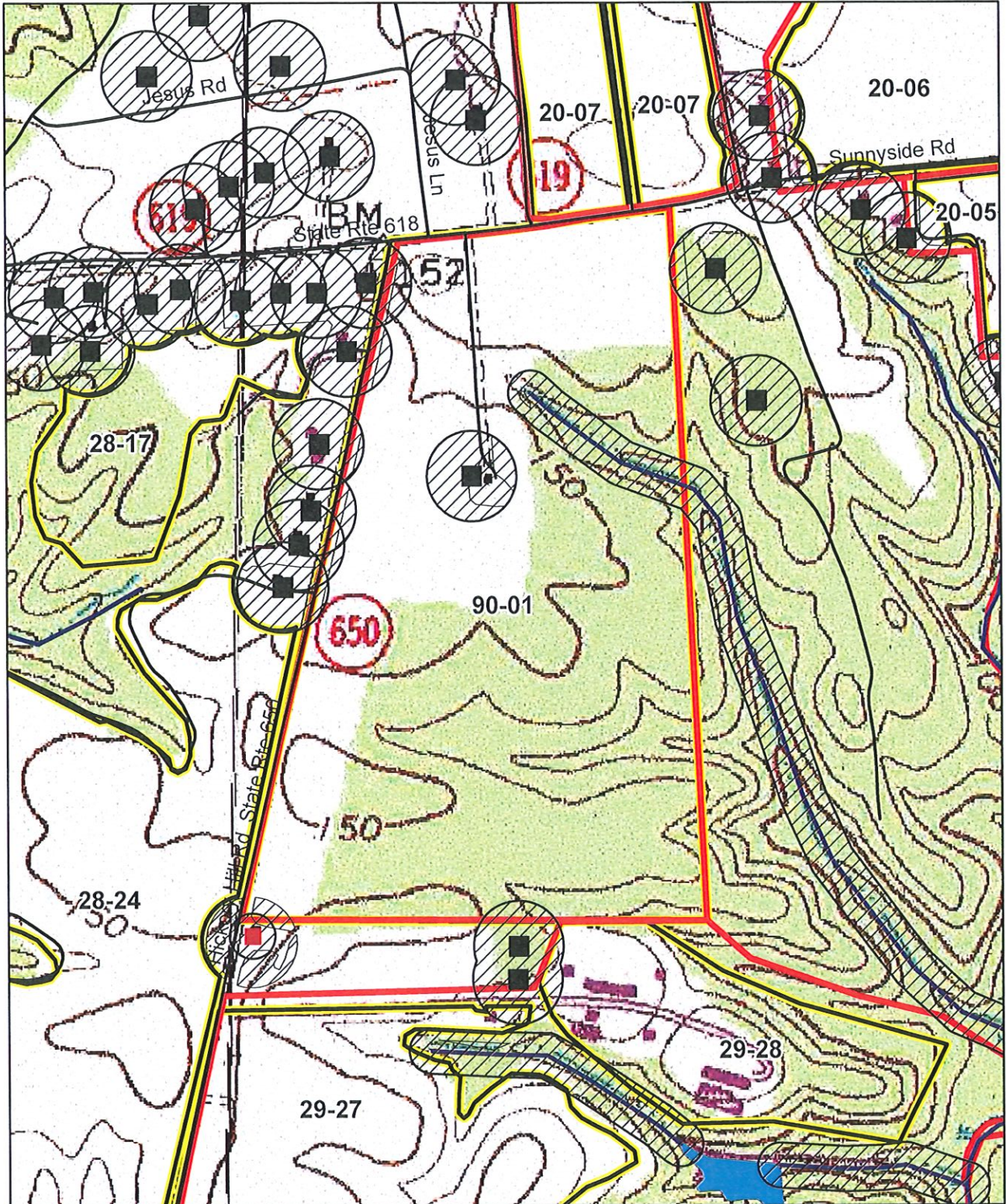
1 inch = 833 feet

AERIAL MAP

1:10,000

EXTENDED SETBACK

Revised 3/4/2024



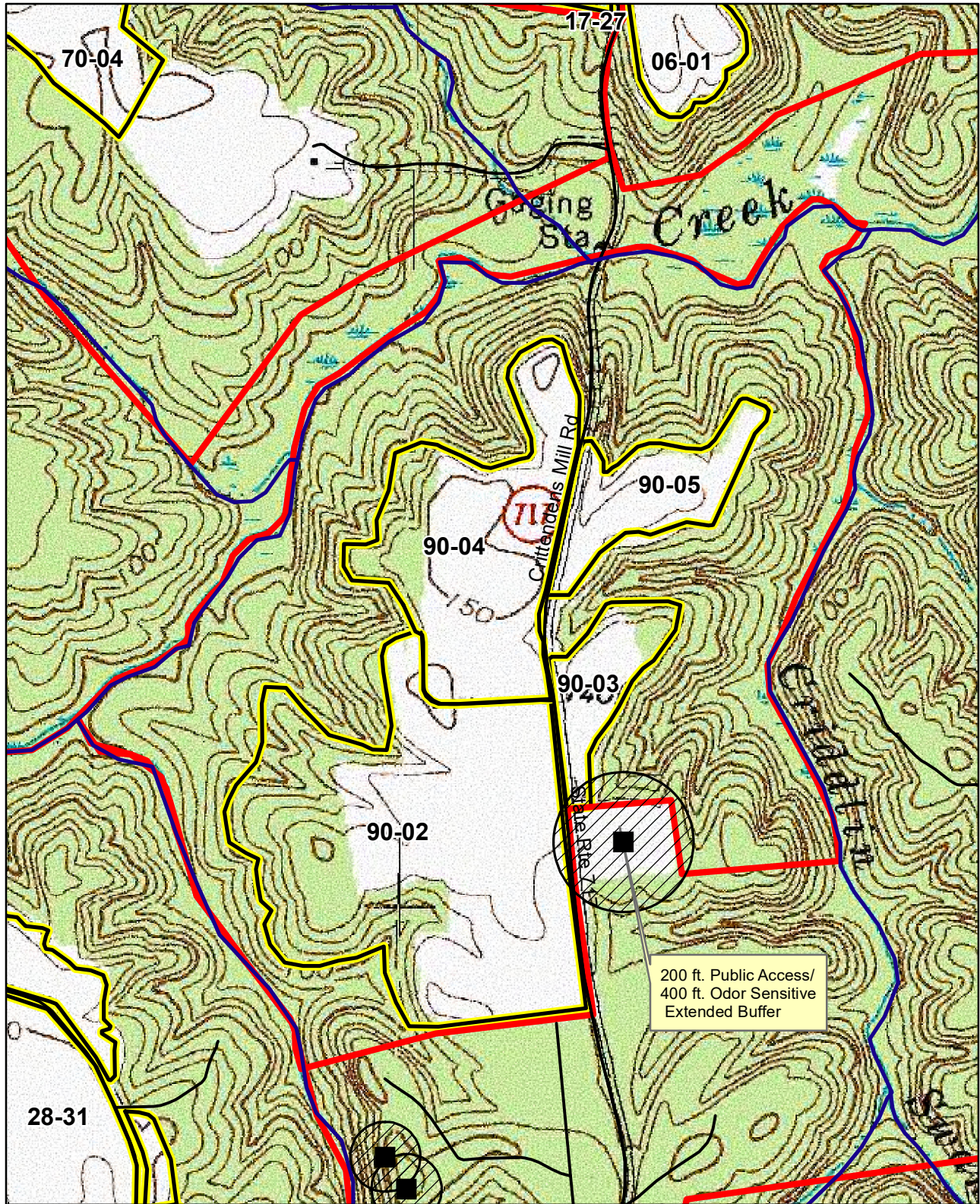
1 inch = 660 feet

TOPO MAP

1:7,920

FIELD	ACRES
90-01	115.7

Revised 05/17/2024



1 inch = 833 feet

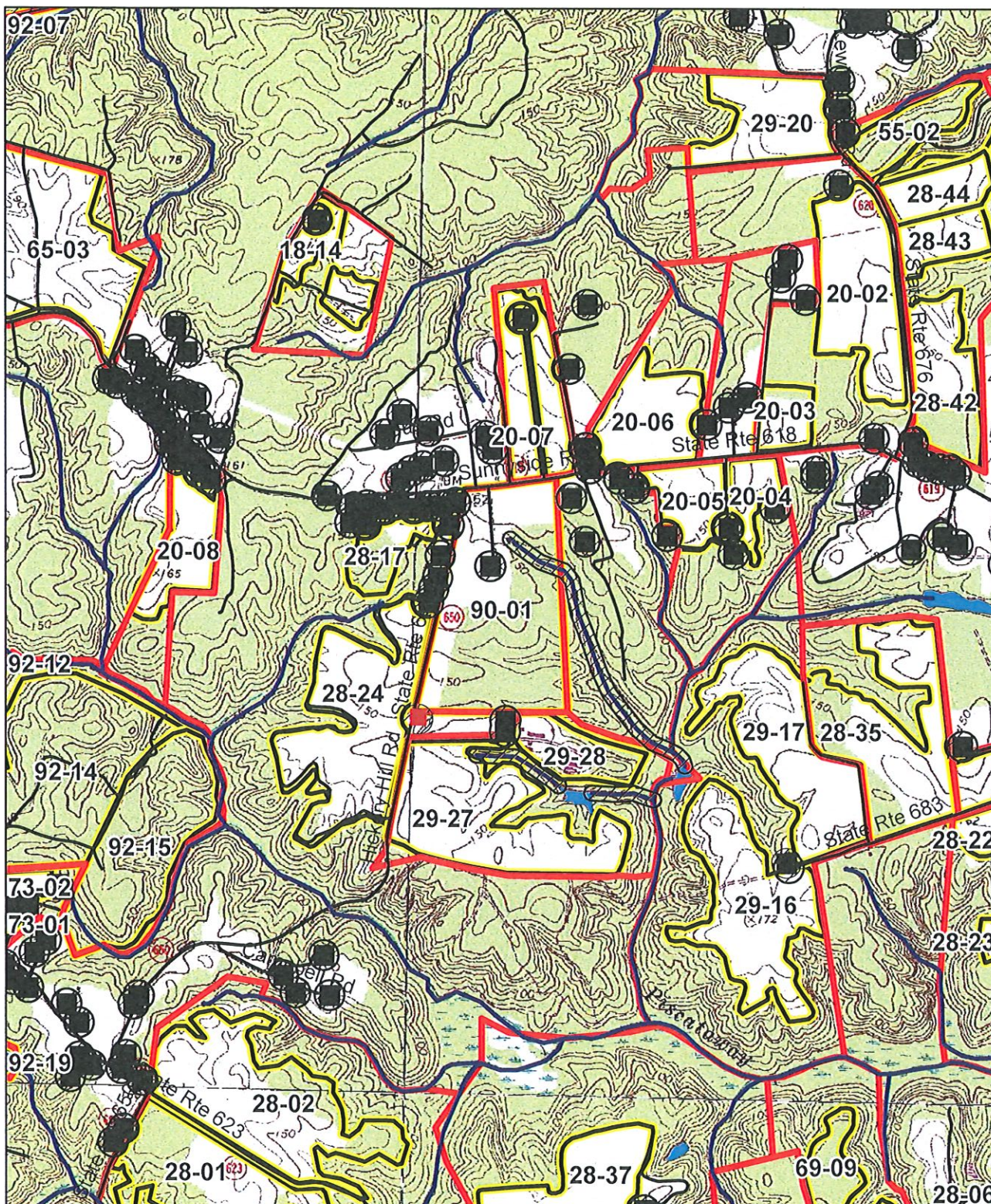
TOPO MAP

1:10,000

Field	Acres	Field	Acres
90-02	68.7	90-04	34.1
90-03	9.2	90-05	12.7

EXTENDED SETBACK

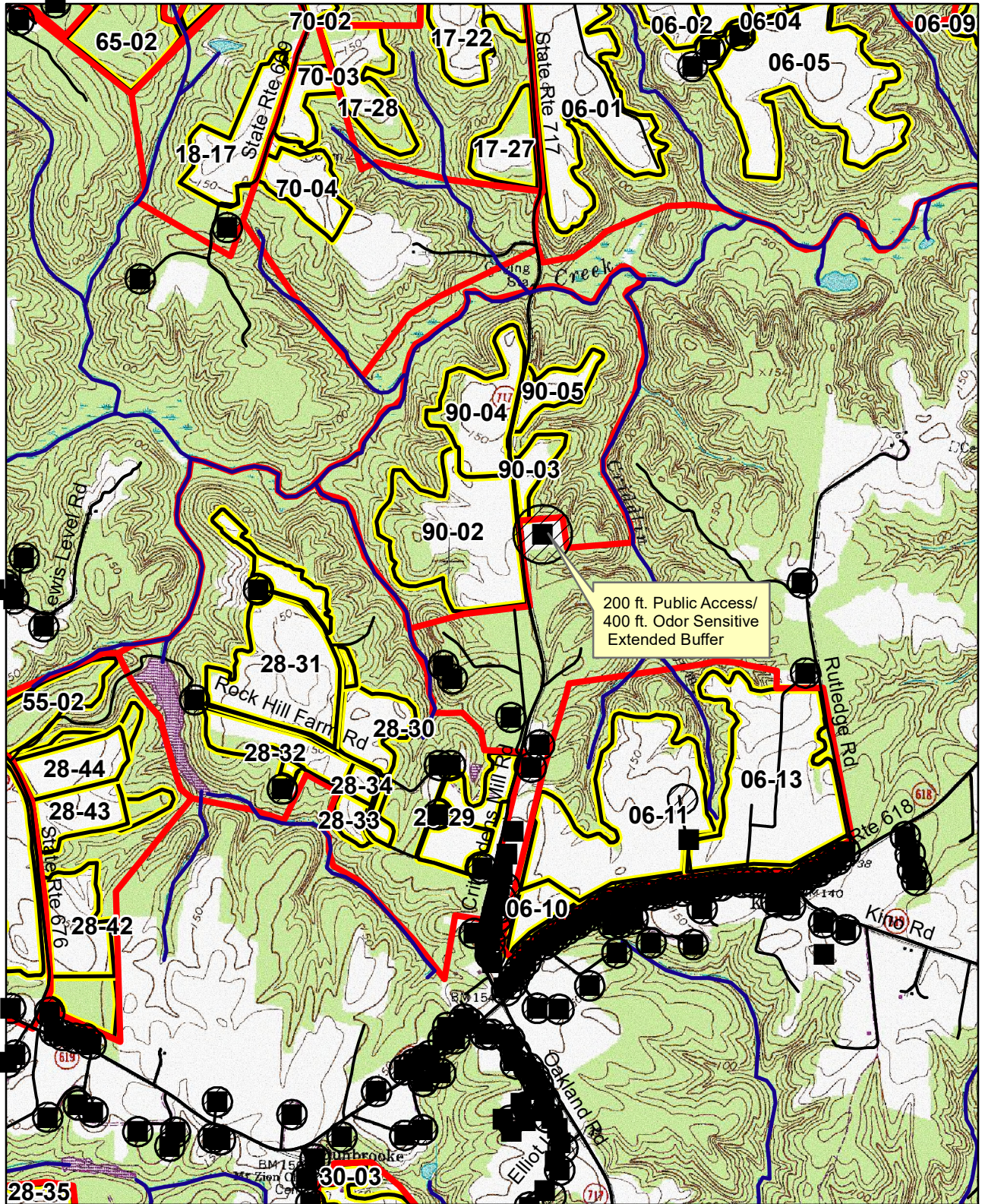
Revised 3/4/2024



1 inch = 2,000 feet

TOPO MAP

1:24,000



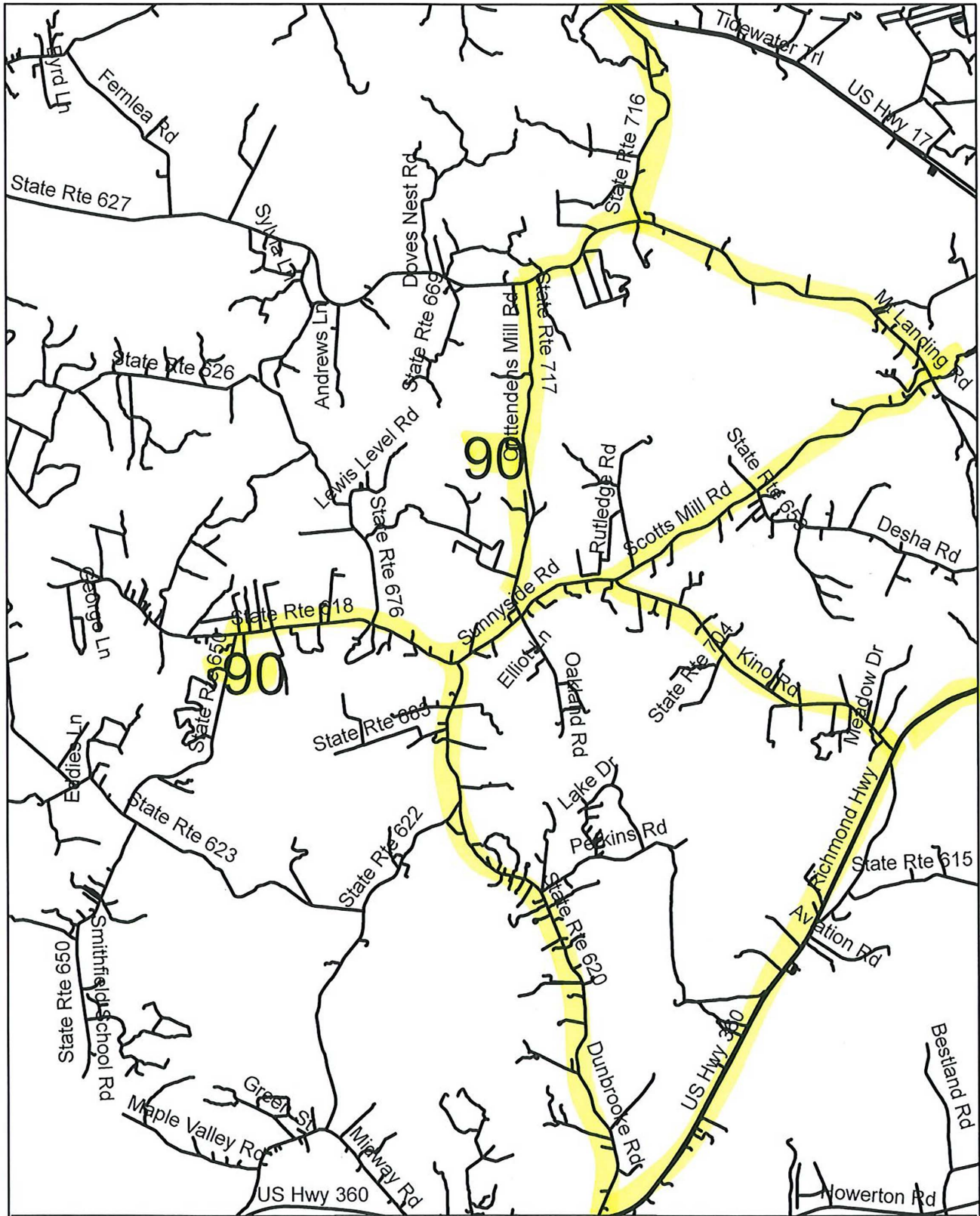
1 inch = 2,000 feet

TOPO MAP

1:24,000

EXTENDED SETBACK


Revised 3/4/2024



1 inch = 6,250 feet

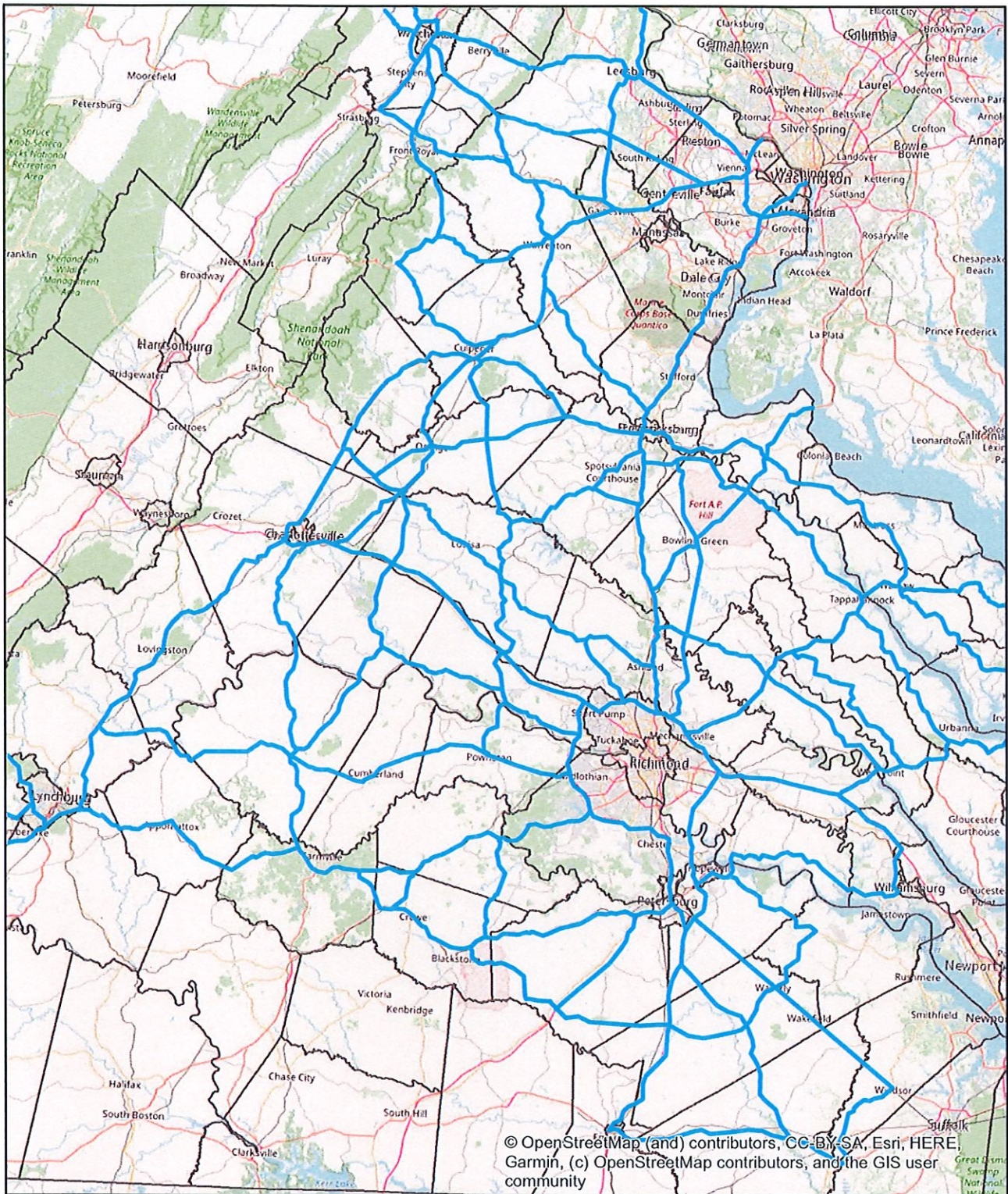
HAUL ROUTE

1:75,000

 Haul Route

Created 08/31/2021

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.