

LAND APPLICATION OF INDUSTRIAL RESIDUALS
CARTER BALL

KW 35 (FIELDS 03-04)
KING WILLIAM COUNTY, VIRGINIA
APRIL 2024



SYNAGRO
YOUR PARTNER FOR A CLEANER,
GREENER WORLD

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



APRIL 26, 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 Carter Ball (designated as KW 35, fields 03-04), located in King William 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,

A handwritten signature in blue ink, appearing to read "Caleb Snyder", followed by a long horizontal line extending to the right.

Caleb Snyder
Technical Services Manager



FIELD SUMMARY SHEET

Carter Ball

KW 35

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
35-03	277.3	277.3		Silviculture	Deborah M Ball
					Nathan Page Ball
					Deborah McClure Ball
35-04	79.9	79.9		Agriculture	Deborah M Ball
					Nathan Page Ball
TOTALS:	357.2	357.2			

Changes to field acreages

SYNAGRO OLD FIELD #	SYNAGRO NEW FIELD #	OLD ACRES	NEW ACRES	NET ACRES CHANGE
35-01	35-03	67.3	277.3	210.0
35-02		90.1		-90.1
35-03		109.9		-109.9
35-04	35-04	78.4	79.9	1.5
TOTALS:		345.7	357.2	11.5

Fields with DEQ Control Numbers

SYNAGRO FIELD #	DEQ Control Number
35-03	51101-00315-0000
	51101-00316-0000
	51101-00317-0000
35-04	51101-00125-0000

SYNAGRO

VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR Hugh Townsend PHONE: 804-512-6916
ADDRESS: 3459 Dabney's Mill Rd.
FARM LOCATION King William

FSA TRACT #: _____

TOTAL ACRES: _____ COUNTY: King William

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.

Hugh B. Townsend
OPERATOR'S SIGNATURE

2/8/16
DATE

Synagro * 10647 Tidewater Trail * Champaign, 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 8/15/2022 between DEBORAH M & NATHAN PAGE BALL 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 King William, 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
13-53			

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.

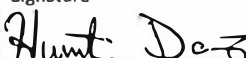
<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

Printed name <u>DEBORAH M BALL</u>	<u>Mailing Address</u> <u>170 E. Circle Dr.</u>	<u>Landowner Signature</u> 
By: <u>DEBORAH M BALL</u>	<u>Tappahannock, VA 22560</u>	
Title* <u>owner</u>	<u>Phone No. (804) 445-5186</u>	
<input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc. <input 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 <u>Hunter Davis.</u>	<u>Mailing Address: 1681 Tappahannock Blvd, Tappahannock, VA 22560</u>	<u>Permittee- Authorized Representative Signature</u> 
Title <u>Technical Services Specialist</u>	<u>Phone No. 443-2170</u>	

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

Permittee: SYNAGRO CENTRAL LLC County or City: KING WILLIAM

Landowner: DEBORAH M & NATHAN PAGE BALL

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.

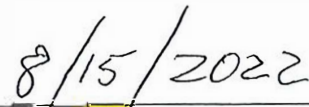
I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

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


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 6/7/2024 between DEBORAH M & NATHAN PAGE BALL 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 King William, 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
13-53			

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: The Landowner is the sole owner of the properties identified herein.
 The Landowner is one of multiple owners of the properties identified herein.

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

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

Class B biosolids Water treatment residuals Food processing waste Other industrial sludges
X Yes No X Yes No X Yes No X Yes No

Printed name <u>DEBORAH M & NATHAN PAGE BALL</u>	Mailing Address <u>170 East Circle Drive Tappahannock VA</u>	Landowner Signature <i>N. P. Ball</i>
By: <u>NATHAN PAGE BALL</u>	Phone No. <u>804 445-5185</u>	
Title* <u>Co-Owner</u>		
* <input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
* <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

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>Hunter Davis.</u>	Mailing Address: <u>1681 Tappahannock Blvd, Tappahannock, VA 22560</u>	Permittee- Authorized Representative Signature <i>Hunter Davis</i>
Title <u>Technical Services Specialist</u>	Phone No. <u>443-2170</u>	

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

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

A. This land application agreement is made on 8/15/2022 between DEBORAH MCCLURE BALL 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 King William, 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
13-54			

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.

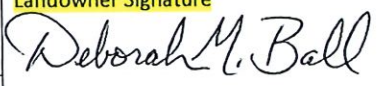
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

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 <u>DEBORAH MCCLURE BALL</u>	<u>Mailing Address</u> <u>170 E. Circle Dr.</u> <u>Tappahannock, VA 22560</u>	<u>Landowner Signature</u> 
By: <u>DEBORAH MCCLURE BALL</u>	<u>Phone No.</u> <u>(804) 445-5186</u>	
<u>Title</u> <u>owner</u>		
<input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc. <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

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>Hunter Davis.</u>	<u>Mailing Address:</u> <u>1681 Tappahannock Blvd, Tappahannock, VA 22560</u>	<u>Permittee- Authorized Representative Signature</u> 
<u>Title</u> <u>Technical Services Specialist</u>	<u>Phone No.</u> <u>443-2170</u>	

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

Permittee: SYNAGRO CENTRAL LLC County or City: KING WILLIAM

Landowner: DEBORAH MCCLURE BALL

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:

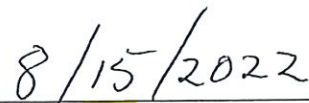
1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to 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



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: Industrial (KW 35)

Please Print

(Signatures not required on this page)

<u>Tax Parcel ID(s)</u>	<u>Landowner(s)</u>
13-53	DEBORAH M BALL & NATHAN PAGE BALL
13-54	DEBORAH BALL McCLURE

0 Unassigned

Location 0 Unassigned

Mblu 13 / / 53 / /

Acct# 4464

Owner BALL DEBORAH M

Clean & Green Total \$240,900

PBN Agricultural 100 Ac & Up

PID 5932

Building Count 1

Current Value

Assessment							
Valuation Year	Building	Extra Features	Outbuildings	Land	Total	Clean & Green Land	Clean & Green Total
2021	\$0	\$0	\$0	\$605,000	\$605,000	\$240,900	\$240,900

Owner of Record

Owner	BALL DEBORAH M	Sale Price	\$0
Co-Owner	BALL NATHAN PAGE	Certificate	
Address	19957 TIDEWATER TRAIL TAPPAHANNOCK, VA 22560-5039	Book & Page	290/128
		Sale Date	10/06/2020
		Instrument	00

Ownership History

Ownership History						
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date	Instrument #
BALL DEBORAH M	\$0		290/128	00	10/06/2020	000000000

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Building Attributes	
Field	Description
Model	
Style	Vacant Land
Grade	

Building Photo

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

Building Layout

[\(ParcelSketch.ashx?pid=5932&bid=5932\)](#)

Building Sub-Areas (sq ft)	Legend
----------------------------	------------------------

0 Unassigned

Location 0 Unassigned

Mblu 13 / 54 /

Acct# 4482

Owner BALL DEBORAH MCCLURE

Clean & Green Total \$54,200

PBN Agricultural 20-100 Ac

PID 5950

Building Count 1

Current Value

Assessment							
Valuation Year	Building	Extra Features	Outbuildings	Land	Total	Clean & Green Land	Clean & Green Total
2021	\$0	\$0	\$0	\$178,800	\$178,800	\$54,200	\$54,200

Owner of Record

Owner	BALL DEBORAH MCCLURE	Sale Price	\$0
Co-Owner		Certificate	
Address	170 EAST CIRCLE DR TAPPAHANNOCK, VA 22560	Book & Page	288/699
		Sale Date	10/14/1998
		Instrument	00

Ownership History

Ownership History						
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date	Instrument #
BALL DEBORAH MCCLURE	\$0		288/699	00	10/14/1998	000000000

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Building Attributes	
Field	Description
Model	
Style	Vacant Land
Grade	

Building Photo

 Building Photo

(<https://images.vgsi.com/photos/kingwilliamvaPhotos/default.jpg>)

Building Layout

([ParcelSketch.aspx?pid=5950&bid=5950](#))

Building Sub-Areas (sq ft)	Legend
----------------------------	--------

KW 35 Carter Ball

Tax Map Number	Owner's Name1	Owner's Name2	MailingAddress1	MailingAddress2
13-8-1A	EDWARDS JACOB L	MCDANIEL BRITTON	328 MITCHELLS MILL RD	AYLITT, VA 23009
13-8-2	BALL DEBORAH MCCLURE		170 EAST CIRCLE DR	TAPPAHANNOCK VA22560
13-8-3	H BARNES TOWNSEND JR FAMILY	ASSOOATES LLC NUMBER TWO	3298 JACKS CREEK RD	KINGWILLIAM VA 23086
13-11-5	HUGHES CHARLES M	HUGHES MARY BETH	336 MITCHELLS MILL RD	AYLITT, VA 23009
13-8-18	MCDANIEL DANIEL LEE; TRUSTEE	MCDANIEL DIEDRE G; TRUSTEE	334 MITCHELLS MILL RD	AYLITT, VA 23009
13-18C	YOUNG CHANTEL C	YOUNG SAMUEL E	791 GLOBE RD	AYLITT, VA 23009
13-23A	PORCH MICHAEL R JR	NIA	6588 DORRELL RD	AYLITT, VA 23009
13-52	FOX ELEANOR MOREN	NIA	125 CHENAULTS LN	AYLITT, VA 23009
13-21	GRESHAM PEARL ESTATE C/O DWAYNE E SIMMS		3203FOREST LODGE DR	GLEN ALLEN VA 23060
13-18A	FAUTEUX TRUCKING INC		100 GLOBE RD	AYLITT, VA 23009
13-12	MITCHELL THOMAS O TRUST	SIZER BRENDA M TRUSTEE	1964 KING WILLIAM RD	HANOVER, VA23069
13-23	ROLLINS JAMESE JR	ROLLINS LOIS ANN	1319 GLOBE RD	AYLITT, VA 23009
13-21A	GRESHAM EARLT ET ALS C/O MOSES ROOTS		PO BOX 42	AYLITT, VA 23009
13-20	ROOTHS EDWARD ET ALS C/O BRUCE ROOTHS		14813 DEMOTTE PL	UPPER MARLBORO, MD 20774
13-20B	BERKLEY JAMES E ET ALS		6129 14 ST NW	WASHINGTON, DC 20011
13-54	BALL DEBORAH MCCLURE		19957 TIDEWATER TRL	TAPPAHANNOCK, VA22560
13-24	WILLIAMS ARTHUR B	WILLIAMS JOYCE A	6204 5TH ST NW	WASHINGTON, DC 20011
13-22	BRAXTON JAMES E	C/O MOSES E ROOTS	PO BOX 42	AYLITT, VA 23009
13-21B	GRESHAM EARLT ET ALS C/O EARL GRESHAM		1227 GLOBE RD	AYLITT, VA 23009
13-25	CLEMENTS CARTER MCGEORGE		8303 STUDLEY RD	MECHANICSVILLE, VA 23116
13-4-12	WILLIAMS CALVIN L	WILLIAMS BEVERLY T	346 GLOBE RD	AYLITT, VA 23009
13-4-10	WELLS MARY JANE	N/A	588 GLOBE RD	AYLITT, VA 23009
13-4-9	HARDENLARRY	HARDEN RITA	632 GLOBE RD	AYLITT, VA 23009
13-4-6	ROWLAND JAN L	FERGUSON	744 GLOBE RD	AYLITT, VA 23009
13-4-3	DAVISKEVIN M	N/A	864 GLOBE RD	AYLITT, VA 23009

Tax Map Number	Owner's Name1	Owner's Name2	MailingAddress1	MailingAddress2
13-4-2	HILLJEANNEV	N/A	866 GLOBE RO	AYLITT, VA 23009
13-4-1	8AKERMILESK	N/A	2301 WAKEMA RD	WESTPOINT, VA 23181
13-55	N/A	N/A	N/A	N/A
13-56C	N/A	N/A	N/A	N/A
13-S2B	FOX BRIAN L	FOX ALISON W	125 CHENAULTS LN	AYLITT, VA 23009
13-52	FOX ELEANOR MOREN	N/A	125 CHENAULTS LN	AYLITT, VA 23009
13-18A	FAUTEUX TRUCKING INC		100 GLOBE RD	AYLITT, VA 23009
13-53	BALL DEBORAH M	BALL NATHAN PAGE	19957 TIDEWATER TRL	TAPPAHANNOCK, VA 22560
13-63	WALKER MARGARET TAYLOR		833 UPSHAW RD	AYLITT, VA 23009
13-4-12	WILLIAMS CAVIN L	WILLIAMS BEVERLY T	346 GLOBE RD	AYLITT, VA 23009

TAX ID LANDOWNER IDENTIFICATION SHEET

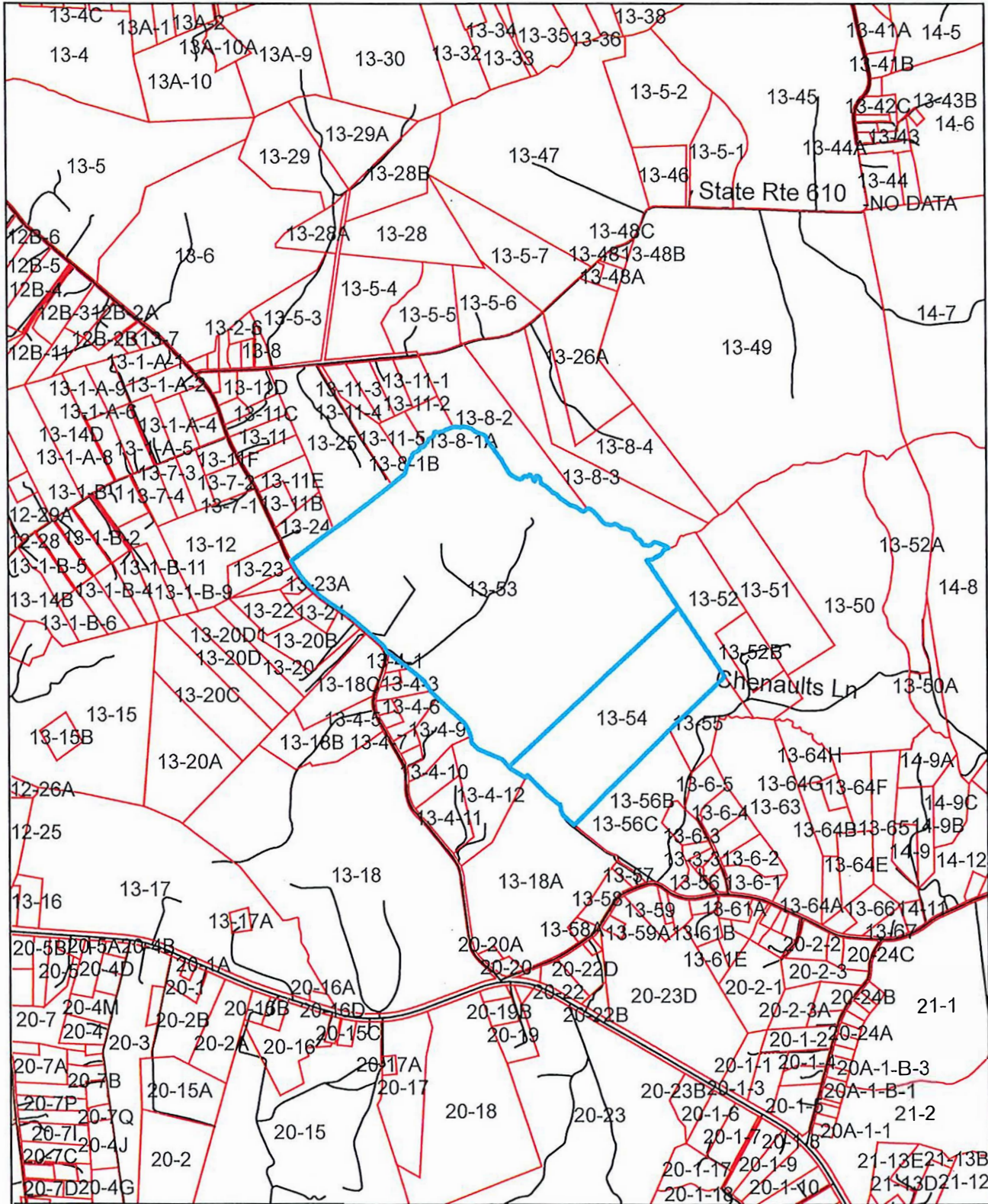
Landowner	Field Number	Tax ID
35-03	13-53	Deborah M Ball
		Nathan Page Ball
35-04	13-54	Deborah McClure
		Deborah M Ball
35-04	13-53	Nathan Page Ball

Field Number	Latitude (North)	Longitude (West)
35-03	37.804°	-77.188°
35-04	37.802°	-77.181°

*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.



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.

Farm Summary Report

Plan: New Plan Winter, 2022 - Winter, 2032

Farm Name: New Farm
Location: King William
Specialist: Hunter Davis
N-based Acres: 357.2
P-based Acres: 0.0

Tract Name: KW35
FSA Number: 0
Location: King William

Field Name: 4
Total Acres: 79.90 Usable Acres: 79.90
FSA Number: 0
Tract: KW35
Location: King William
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
9	2B	Bama
70	10B	Emporia
4	13B	Kempsville
0	22F	Nevarc Remlik
9	26B	Slagle
8	28B	Rumford Suffolk

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
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Field Name: 3
 Total Acres: 277.30 Usable Acres: 277.30
 FSA Number: 0
 Tract: KW35
 Location: King William
 Slope Class: D 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
2	2B	Bama
7	3A	Bibb Kinston
28	10B	Emporia
2	12B	Eunola
5	13B	Kempsville
12	22D	Nevarc Remlik
44	22F	Nevarc Remlik
2	26B	Slagle

Field Warnings:

Environmentally Sensitive Soils due to:

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

Soils with high potential for subsurface lateral flow based on soil texture and poor drainage

Soils with perent slope in excess of 15%

Crop Rotation:

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

ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
35-3	High Water Table (Map Unit 3A - 7%) Flooding Potential (Map Unit 3A - 7%) High Leaching Potential (Map Unit 3A,22D,22F - 63%)
35-4	None

King William County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
3A	Bibb/Kinston	Nov-June	Nov-June	Drainage
4A	Bohicket	Nov-June	Nov-June	
5A	Bojac	Jan-Dec		Leaching
6A, 6B	Bojac			Leaching
7A	Catpoint			Leaching
8A	Conetoe			Leaching
9A	Daleville	Nov-May		
14A	Kenansville			Leaching
15A	Lanexa	Jan-Dec	Jan-Dec	Drainage
16A	Mattan	Jan-Dec	Jan-Dec	Drainage
18A	Myatt	Nov-April		
20A	Osier	Nov-March		Drainage
22D, 22F	Remilk/Nevarc			Leaching
23A	Riverview		Dec-March	
24A	Roanoke	Nov-May		
29B, 29D, 29F	Tarboro			Leaching
30A	Tomotley	Nov-April		
32A	Wehadkee	Nov-May	Nov-May	

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

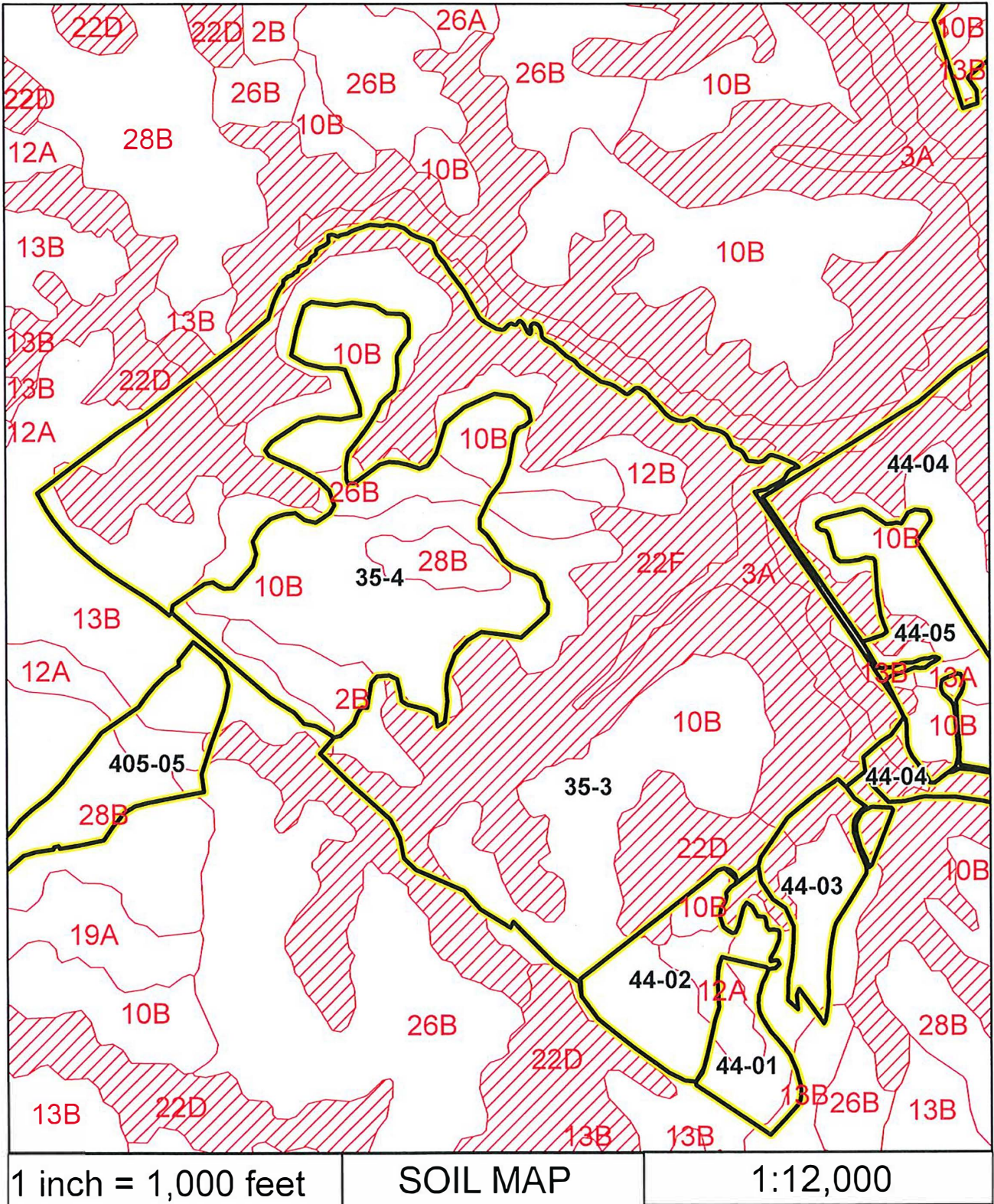


Field Boundary



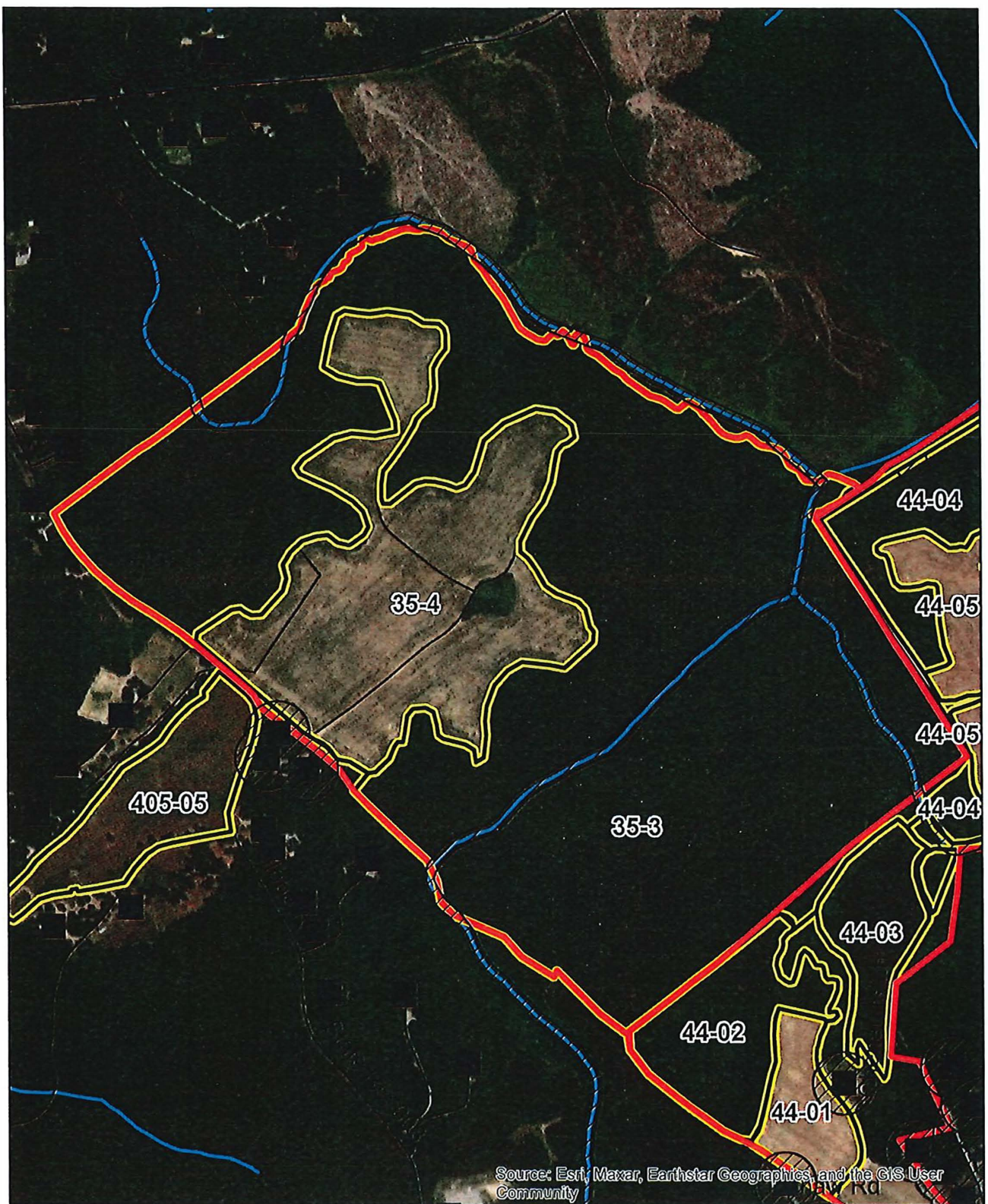
Property Line

- 100' buffer unless waiver issued

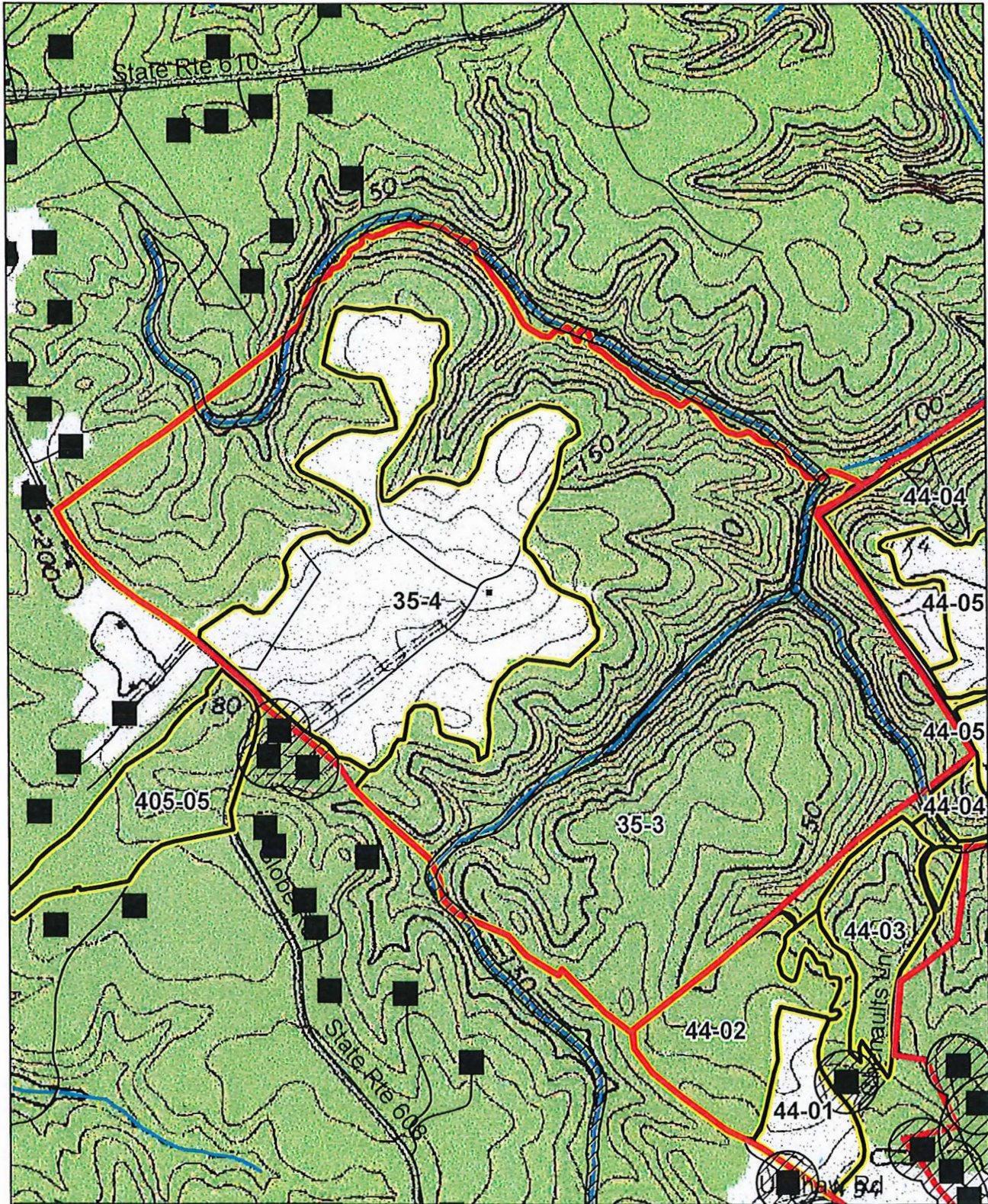


 Environmentally Sensative Soil

Revised 4/17/24



1 inch = 937.5 feet	AERIAL MAP	1:11,250
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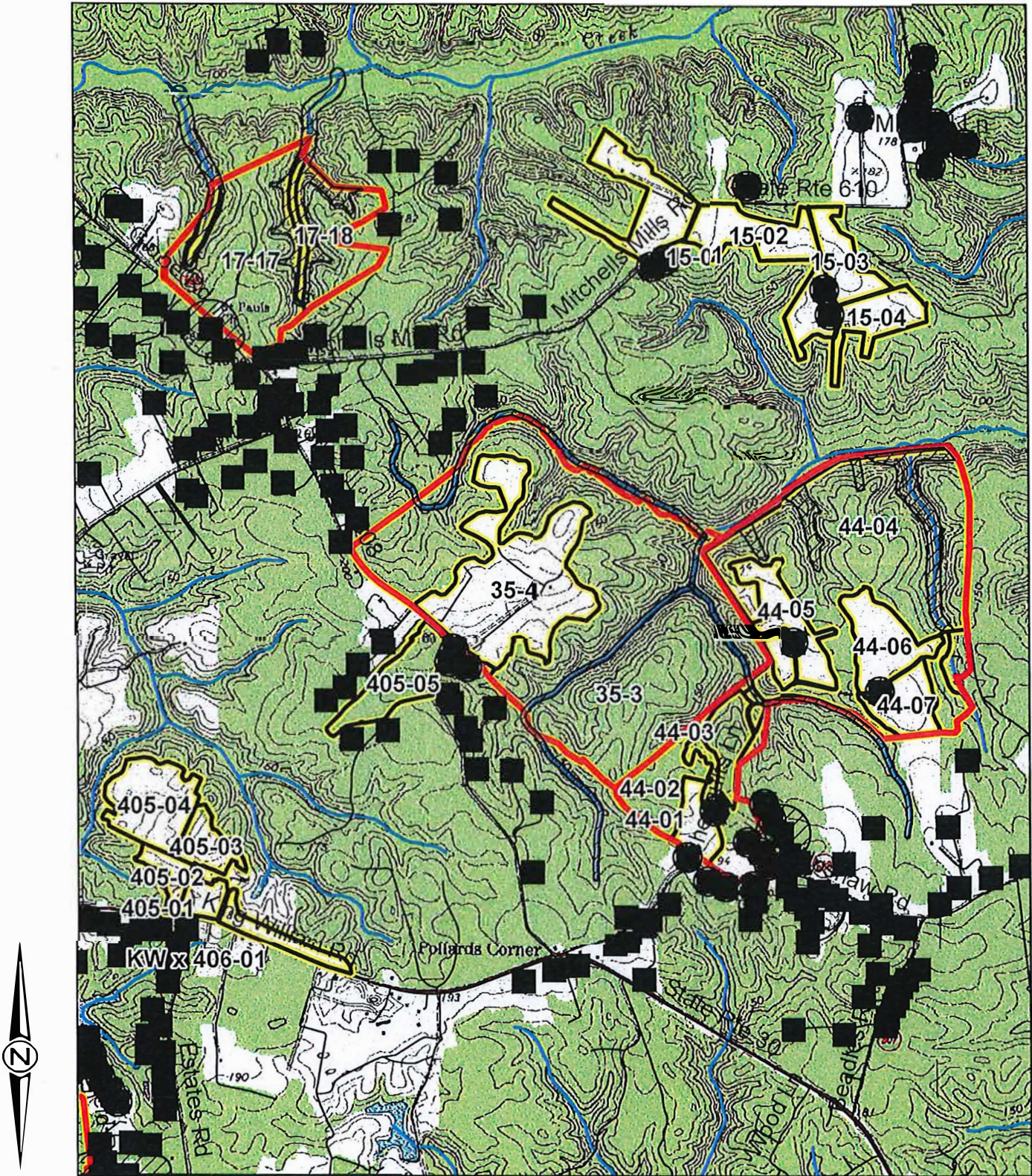


1 inch = 937.5 feet

TOPO MAP

1:11,250

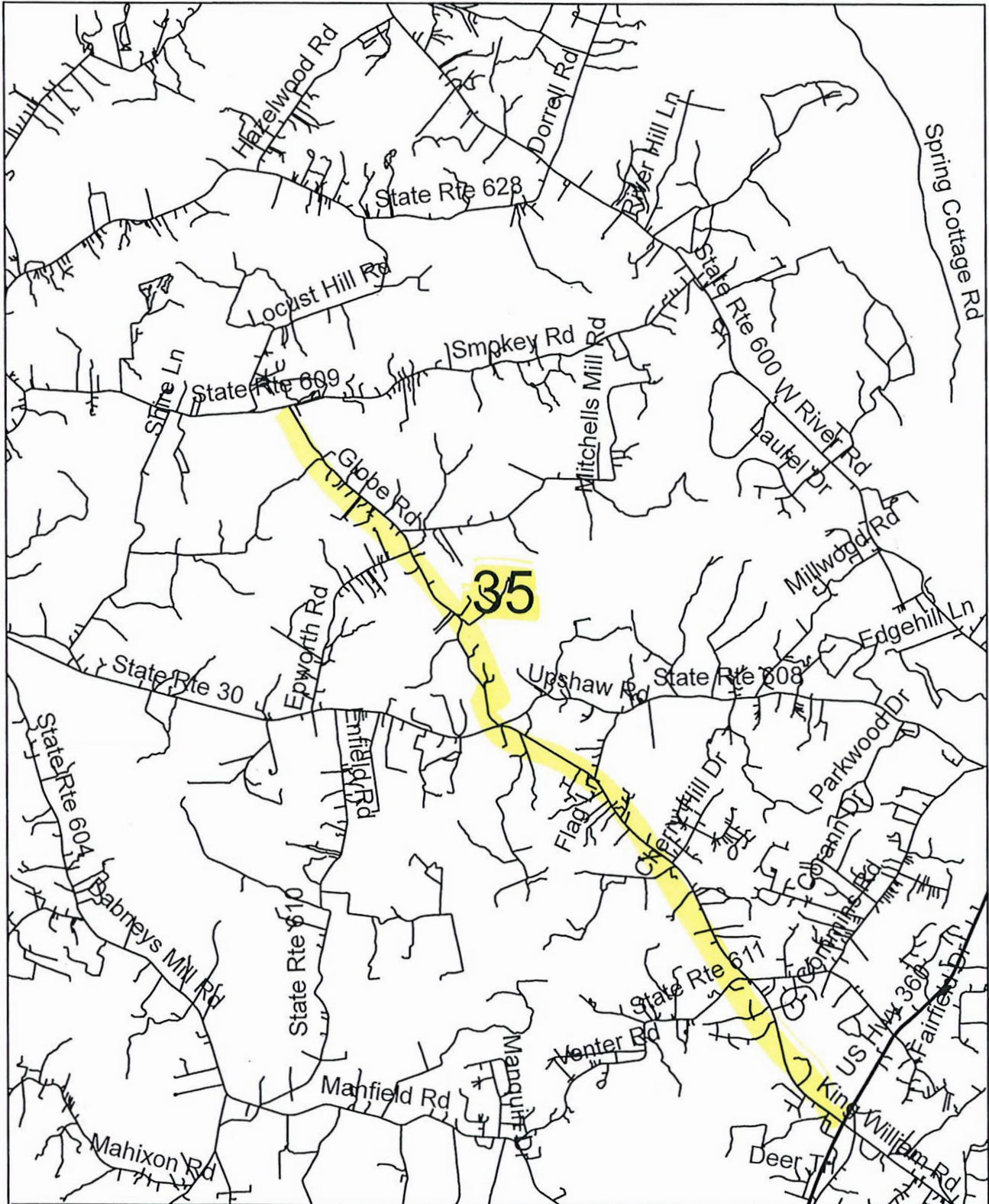
FIELD	ACRES
35-03	277.3
35-04	79.9



1 inch = 2,000 feet

TOPO MAP

1:24,000



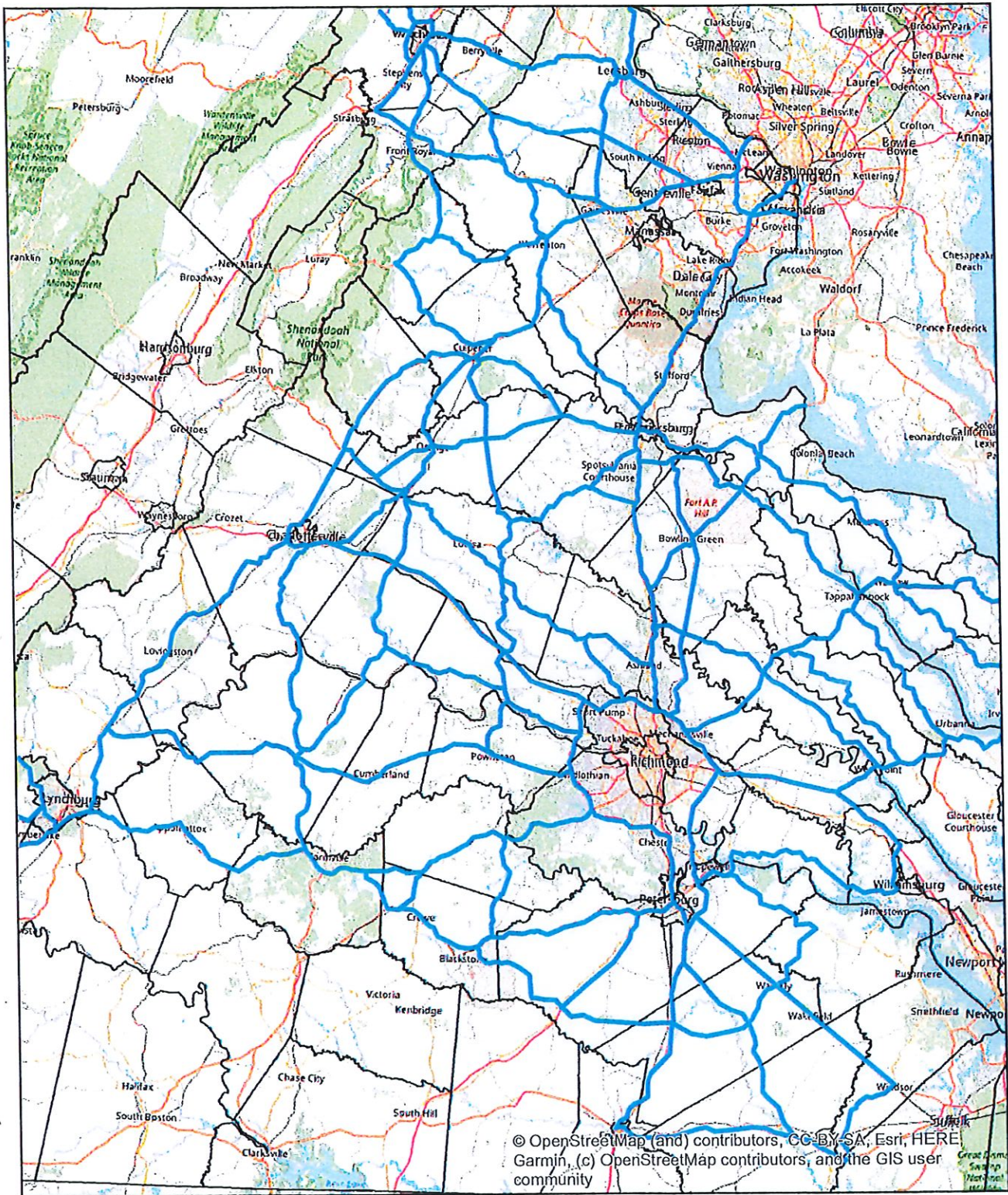
1 inch = 6,250 feet

LOCATION MAP

1:75,000

 - Haul Route

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.

Farm Summary Report

Plan: New Plan Winter, 2022 - Winter, 2023

Farm Name: KW 35
Location: King William
Specialist: Hunter Davis
N-based Acres 357.2
P-based Acres: 0.0

Tract Name: KW 35
FSA Number: 0
Location: King William

Field Name: 35-03
Total Acres: 277.30 Usable Acres: 277.30
FSA Number: 0
Tract: KW 35
Location: King William
Slope Class: D 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
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Soils with high potential for subsurface lateral flow based on soil texture and poor drainage

Soils with percent slope in excess of 15%

Field Name: 35-04
 Total Acres: 79.90 Usable Acres: 79.90
 FSA Number: 0
 Tract: KW 35
 Location: King William
 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
9	2B	Bama
70	10B	Emporia
4	13B	Kempsville
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8	28B	Rumford Suffolk

Field Warnings:

ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
35-03	High Water Table (Map Unit 3A - 7%) Flooding Potential (Map Unit 3A - 7%) High Leaching Potential (Map Units 3A, 22D, 22F - 63%)
35-04	None

King William County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
3A	Bibb/Kinston	Nov - June	Nov – June	Drainage
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5A	Bojac	Jan-Dec		Leaching
6A, 6B	Bojac			Leaching
7A	Catpoint			Leaching
8A	Conetoe			Leaching
9A	Daleville	Nov - May		
14A	Kenansville			Leaching
15A	Lanexa	Jan-Dec	Jan-Dec	Drainage
16A	Mattan	Jan-Dec	Jan-Dec	Drainage
18A	Myatt	Nov - April		
20A	Osier	Nov - March		Drainage