

LAND APPLICATION OF BIOSOLIDS
ALEX MILLER

OR 100 (FIELDS 01-08)
ORANGE COUNTY, VIRGINIA
MAY 2024



SEPTEMBER 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 Alex Miller (designated as OR 100, (fields 01-08), located in Orange County, Virginia. This submission contains strictly site-specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site-specific information.

Do not hesitate to contact me at (410) 553-7217 should you have any questions or require additional information.

Sincerely,



Carolanne M. Whiteside
Technical Services Coordinator



FIELD SUMMARY SHEET

Alex Miller

OR 100

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
100-01	34.1	34.1	2805	Agriculture	Marion Caleb Dean Trust
100-02	24.3	24.3	2805	Agriculture	Marion Caleb Dean Trust
100-03	27.0	27.0	2805	Agriculture	Marion Caleb Dean Trust
100-04	6.0	6.0	2805	Agriculture	Marion Caleb Dean Trust
100-05	12.0	12.0	2805	Agriculture	Marion Caleb Dean Trust
100-06	29.5	29.5	2805	Agriculture	Marion Caleb Dean Trust
100-07	9.3	9.3	2805	Agriculture	Marion Caleb Dean Trust
100-08	8.0	8.0	2805	Agriculture	Marion Caleb Dean Trust
TOTALS:	150.2	150.2			05/28/2024

Changes to field acreages

SYNAGRO FIELD #	OLD FIELD	OLD ACRES	NEW ACRES	NET ACRES CHANGE	REASON FOR CHANGE
100-01	96-30	34.1	34.1	0.0	
100-02	96-29	24.3	24.3	0.0	
100-03	96-24	32.9	27.0	-5.9	Footprint (FP)
100-04	96-27	6.0	6.0	0.0	
100-05	96-25	12.8	12.0	-0.8	FP
100-06	96-23	29.5	29.5	0.0	
100-07			9.3	9.3	9.3 ac from 96-26
100-08			8.0	8.0	8.0 ac from 96-26
	96-26	19.5		-19.5	Split into 07 & 08, -.2 ac.
	96-28	24.4		-24.4	remove field
TOTALS:		183.5	150.2	-33.3	

Fields with DEQ Control Numbers

SYNAGRO FIELD #	DEQ Control Number
100-01	51137-00221-0000
100-02	51137-00221-0000
100-03	51137-00221-0000
100-04	51137-00221-0000
100-05	51137-00221-0000
100-06	51137-00221-0000
100-07	51137-00221-0000
100-08	51137-00221-0000

SYNAGRO

OR 100

VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: Alexander Miller PHONE: (540) 850 2922
ADDRESS: 11215 Custers trace Spotsylvania VA 22553
FARM LOCATION: Pilgrim Church Road

FSA TRACT #: _____

TOTAL ACRES: 150 COUNTY: Orange

CROPS: Corn Soybeans

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.

Alexander Miller
OPERATOR'S SIGNATURE

5/29/24
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 5/28/24 between Marion Casey Dean Trust referred to here as "Landowner", and Synagro Central, LLC, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Orange Co., Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
0130000000040	013000000004B	0130000000050	013000000005A

☐ 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.

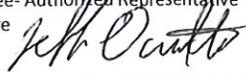
<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

Printed name: Marion Caleb Dean Trust	Mailing Address: ATTN: Alyona Bragg P. O. Box 193 Sterling, VA 20167	Landowner Signature 
By: Marion Casey Dean	Phone No. 703 628 8542	
Title* Trustee		
*X I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Synagro Central, LLC, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

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

PLEASE SIGN BOTH PAGES

Permittee: Synagro Central, LLC

County or City: Orange

Landowner: Marion Caleb Dean Trust

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

5/28/2024

Date

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A *Land Application Agreement - Biosolids and Industrial Residuals* form with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee: Synagro Central, LLC

County or City: Orange (OR 100)

Please Print

(Landowner signatures are not required on this page)

[illegible]

PROPERTY**Parcel Information**

Parcel Record Number (PRN) **5290** Town/District **GORDON**

Account Name **DEAN, MARION CALEB TRUSTEE**

Account Name2 **MARION CALEB DEAN TRUST**

Care Of

Address1 **ATTN:ALYONA BRAGG**

Address2 **P O BOX 196**

City, State Zip **STERLING, VA 20167**

Business Name

Location Address(es) **3120 PILGRIM CHURCH RD**

Map Number

Map Insert	Double Circle	Block	Parcel Number
01300	00	00	00040

Total Acres **189.832**

Deed **DB-2004-8591**

Additional Deed

Will **NONE**

Plat **NONE**

Additional Plat

Route

Legal Desc 1 **13-4 MASTERS**

Legal Desc 2

Zoning **A; AGRICULTURAL**

State Class **AGR/UNDEV 100 UP ACR**

Topology **SLOPES UP**

Utilities **NONE**

Assessed Values

Type	Current Value	Previous Value
Land Use	\$138,200	\$138,200
Land	\$1,118,200	\$1,118,200
Main Structures	\$221,000	\$221,000
Other Structures	\$23,200	\$23,200
TOTALS	\$1,362,400	\$1,362,400

Sales History

Grantor	Sale Price	Instrument	Supporting Document Number	Number of Tracts	Sale Date
	\$0	DEED BOOK-2004-8591		3	08/24/2004

Land Segments

PROPERTY**Parcel Information**Parcel Record Number (PRN) **18801** Town/District **GORDON**Account Name **DEAN, MARION CASEY TRUSTEE**

Account Name2

Care Of

Address1 **P O BOX 196**

Address2

City, State Zip **STERLING, VA 20167**

Business Name

Location Address(es) **3116 PILGRIM CHURCH RD****Map Number**

Map Insert	Double Circle	Block	Parcel Number
01300	00	00	0004B

Total Acres **7.048**Deed **DB-22-0003300**

Additional Deed

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

Additional Plat

Route

Legal Desc 1 **13-4B MASTERS**

Legal Desc 2

Zoning **A; AGRICULTURAL**State Class **SINGLE FAMILY SUBURB**Topology **ROLLING /SLOPING**Utilities **NONE****Assessed Values**

Type	Current Value	Previous Value
Land Use	\$70,000	\$70,000
Land	\$107,300	\$107,300
Main Structures	\$536,500	\$536,500
Other Structures	\$23,000	\$23,000
TOTALS	\$666,800	\$666,800

Sales History

Grantor	Sale Price	Instrument	Supporting Document Number	Number of Tracts	Sale Date
MARGENAU, N CASEY	\$1,100,000	DEED BOOK-22- 0003300		1	05/04/2022
PALERMO, ROBIN DIANE	\$500,000	DEED BOOK-2013- 9495		1	12/05/2013

PROPERTY**Parcel Information**

Parcel Record Number (PRN) **5293** Town/District **GORDON**

Account Name **DEAN, MARION CALEB TRUSTEE**

Account Name2 **MARION CALEB DEAN TRUST**

Care Of

Address1 **ATTN:ALYONA BRAGG**

Address2 **P O BOX 196**

City, State Zip **STERLING, VA 20167**

Business Name

Location Address(es) **0 PILGRIM CHURCH RD**

Map Number

Map Insert	Double Circle	Block	Parcel Number
01300	00	00	00050

Total Acres **91.229**

Deed **DB-2004-8591**

Additional Deed

Will **NONE**

Plat **NONE**

Additional Plat

Route

Legal Desc 1 **13-5 WILLIS**

Legal Desc 2 **PC C 35/36**

Zoning **C2; GENERAL COMMERCIAL**

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

Topology **SLOPES UP**

Utilities **NONE**

Assessed Values

Type	Current Value	Previous Value
Land Use	\$1,124,900	\$1,124,900
Land	\$1,383,800	\$1,383,800
Main Structures	\$0	\$0
Other Structures	\$0	\$0
TOTALS	\$1,383,800	\$1,383,800

Sales History

Grantor	Sale Price	Instrument	Supporting Document Number	Number of Tracts	Sale Date
	\$0	DEED BOOK-2004-8591		3	08/24/2004

Land Segments

PROPERTY

Parcel Information

Parcel Record Number (PRN) **5291** Town/District **GORDON**

Account Name **DEAN, MARION CALEB TRUSTEE**

Account Name2 **MARION CALEB DEAN TRUST**

Care Of

Address1 **ATTN:ALYONA BRAGG**

Address2 **P O BOX 196**

City, State Zip **STERLING, VA 20167**

Business Name

Location Address(es) **0 PILGRIM CHURCH RD**

Map Number

Map Insert	Double Circle	Block	Parcel Number
01300	00	00	0005A

Total Acres **117.81**

Deed **DB-2004-8591**

Additional Deed

Will **NONE**

Plat **NONE**

Additional Plat

Route

Legal Desc 1 **13-5A WILLIS**

Legal Desc 2 **PC A-158**

Zoning **A; AGRICULTURAL**

State Class **AGR/UNDEV 100 UP ACR**

Topology **LEVEL**

Utilities **NONE**

Assessed Values

Type	Current Value	Previous Value
Land Use	\$68,800	\$68,800
Land	\$629,800	\$629,800
Main Structures	\$0	\$0
Other Structures	\$0	\$0
TOTALS	\$629,800	\$629,800

Sales History

Grantor	Sale Price	Instrument	Supporting Document Number	Number of Tracts	Sale Date
	\$0	DEED BOOK-2004-8591		3	08/24/2004

Land Segments

TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
Marion Caleb Dean Trust	100-01	0130000000005A
Marion Caleb Dean Trust	100-02	0130000000005A
Marion Caleb Dean Trust	100-03	01300000000050
		0130000000005A
Marion Caleb Dean Trust	100-04	01300000000040
Marion Caleb Dean Trust	100-05	01300000000040
Marion Caleb Dean Trust	100-06	01300000000040
Marion Caleb Dean Trust	100-07	01300000000040
Marion Caleb Dean Trust	100-08	0130000000004B
		0130000000005A

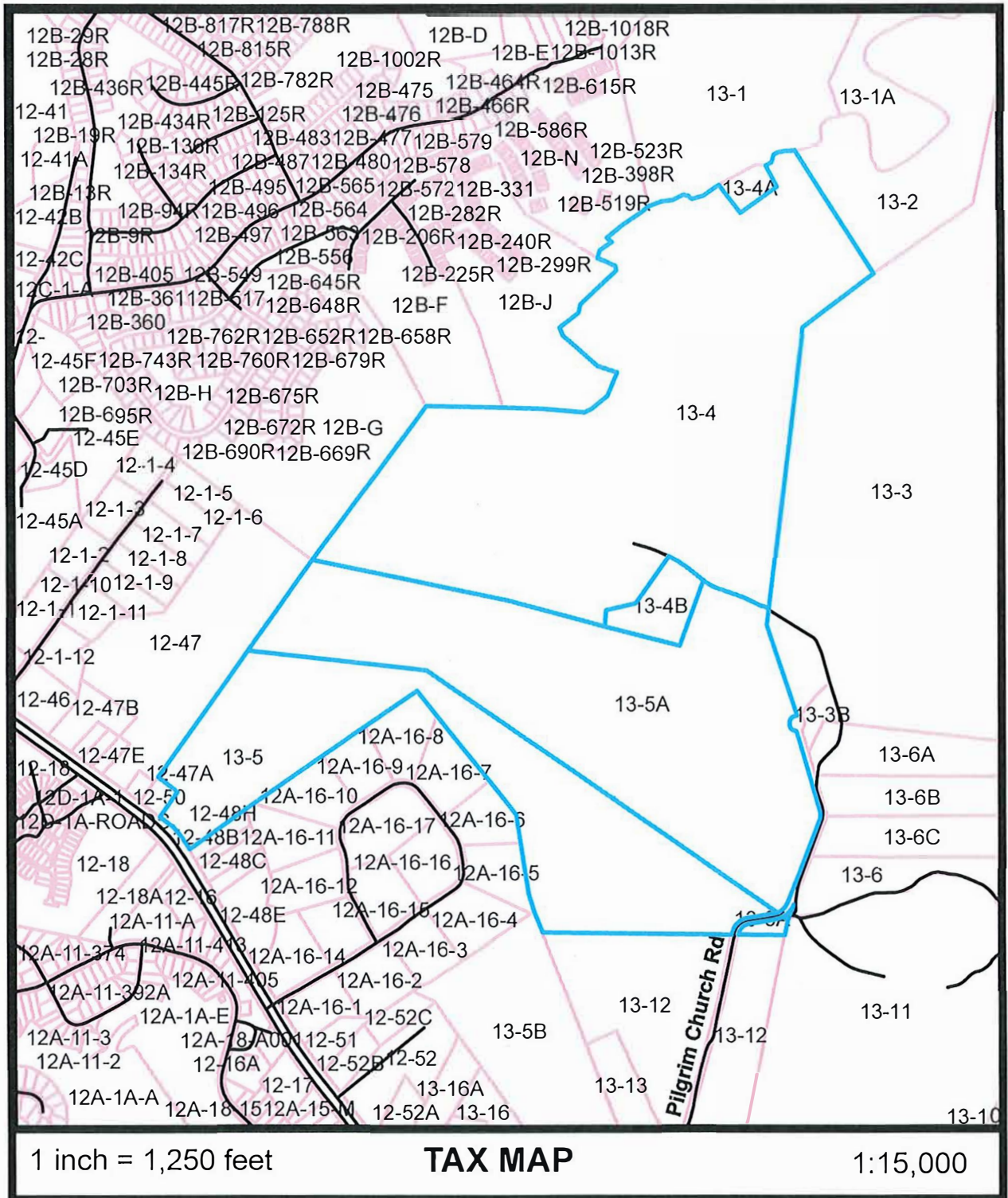
Field Number	Latitude (North)	Longitude (West)
100-01	38.356°	-77.738°
100-02	38.358°	-77.742°
100-03	38.359°	-77.747°
100-04	38.362°	-77.746°
100-05	38.364°	-77.743°
100-06	38.368°	-77.740°
100-07	38.362°	-77.739°
100-08	38.361°	-77.739°

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

Haul Route:

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

<u>PIN</u>	<u>Owner Name</u>	<u>Address</u>	<u>City</u>	<u>STATE</u>	<u>ZIP</u>
1300000000010	BRUMBELOE, LORI W ET ALS	13411 CUNARD CT	BRISTOW	VA	20136
1300000000020	EVANS, JAN A K TRUSTEE ET ALS	4918 SHERIER PL NW	WASHINGTON	DC	20016
1300000000030	EVANS, JAN A K TRUSTEE ET ALS	4918 SHERIER PL NW	WASHINGTON	DC	20016
012B00000000J0	TRICORD INCORPORATED	P O BOX 42150	FREDERICKSBURG	VA	22404
0130000000004A	RIVENBARK, BENJAMIN LEE	709 ARCHER CT	HERNDON	VA	20170
12000000000470	SHIN, TESTU Y	5115 SHEPPARD LN	ELLCOTT CITY	MD	21042
0130000000003B	CASTILLENITI, THOMAS A ET ALS	27841 W STANMOOR	LIVONIA	MI	48154
012A0001600080	BUENG, JARED & RACHEL BUENG	P O BOX 387	LOCUST GROVE	VA	22508
13000000000110	EVANS KING LLC	4918 SHERIER PL NW	WASHINGTON	DC	20016
012A0001600070	BUONGIOVANNI, JAMES J & LAUREL B	7 RAPIDAN ROAD	LOCUST GROVE	VA	22508
012A0001600090	POOR, SARAH K	9 RAPIDAN RD	LOCUST GROVE	VA	22508
012A0001600100	CHARQUERO RIVERO, JONATHAN &	10 RAPIDAN RD	LOCUST GROVE	VA	22508
0120000000047A	HOY, GERALD	13035 MARQUIS RD	UNIONVILLE	VA	22567
012A0001600060	SHUMAKER, PAUL JOSEPH &	6 RAPIDAN RD	LOCUST GROVE	VA	22508
12000000000500	POWERS, JAMES D & BONNIE L	P O BOX 14454	GREENVILLE	SC	29610
012A0001600110	LOW ASSOCIATION INC	102 LAKEVIEW PARKWAY	LOCUST GROVE	VA	22508
0120000000048H	ORTIZ, CARLOS A	225 BEACHSIDE COVE	LOCUST GROVE	VA	22508
0120000000048B	YOUNG, WILLIAM H JR & GRETCHAN R	27351 SIERRA MADRE DR	MURRIETA	CA	92563
012A0001600050	STANDISH, JAMES A	5 RAPIDAN RD	LOCUST GROVE	VA	22508
012A0001600040	YARROW, ROBERT T & KAY	4 RAPIDAN RD	LOCUST GROVE	VA	22508
0130000000005B	EVANS KING LLC	4918 SHERIER PL NW	WASHINGTON	DC	20016
13000000000060	KING, CHARLES B JR ET AL	4918 SHERIER PL NW	WASHINGTON	DC	20016
0130000000006A	KING, CHARLES B JR ET AL	4918 SHERIER PL NW	WASHINGTON	DC	20016
0130000000006B	KING, CHARLES B JR ET AL	4918 SHERIER PL NW	WASHINGTON	DC	20016
0130000000006C	KING, CHARLES B JR ET AL	4918 SHERIER PL NW	WASHINGTON	DC	20016
13000000000120	CASTILLENITI, THOMAS A ET ALS	27841 W STANMOOR	LIVONIA	MI	48154
012B00000000G0	DENALI CAPITAL GROUP LLC	P O BOX 42150	FREDERICKSBURG	VA	22404
012B00000000F0	TRICORD INCORPORATED	P O BOX 42150	FREDERICKSBURG	VA	22404
012B00000000N0	TRICORD INCORPORATED	P O BOX 42150	FREDERICKSBURG	VA	22404
012B00000000N0	TRICORD INCORPORATED	P O BOX 42150	FREDERICKSBURG	VA	22404



05/28/2024

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Farm Summary Report

Plan: Revised Plan Spring, 2024 - Spring, 2025

Farm Name: OR 100

Location: Orange

Specialist: Jeffery R Douthit

N-based Acres: 150.2

P-based Acres: 0.0

Tract Name: OR 100

FSA Number: 2805

Location: Orange

Field Name: 100-01

Total Acres: 34.10 Usable Acres: 34.10

FSA Number: 0

Tract: OR 100

Location: Orange

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
Sp-2020	6.4	L+(16 P ppm)	H(159 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
22	TsC2	Tatum
44	TsB2	Tatum
21	NsC2	Nason
13	NsB	Nason

Field Warnings:

Field Name: 100-02

Total Acres: 24.30 Usable Acres: 24.30

FSA Number: 0

Tract: OR 100

Location: Orange

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2020	6.4	L+(18 P ppm)	H(166 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
15	NsB2	Nason
32	NsC2	Nason
24	TsB2	Tatum
29	TsC2	Tatum

Field Warnings:

Field Name: 100-03

Total Acres: 27.00 Usable Acres: 27.00

FSA Number: 0

Tract: OR 100

Location: Orange

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2020	5.6	L-(11 P ppm)	H-(139 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
12	FIC2	Fluvanna
32	OgA	Orange
30	OgB	Orange
15	TsB2	Tatum
11	TsC2	Tatum

Field Warnings:

Field Name: 100-04

Total Acres: 6.00 Usable Acres: 6.00

FSA Number: 0

Tract: OR 100

Location: Orange

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2020	6.1	L(14 P ppm)	M+(109 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
57	FIC2	Fluvanna
1	LgB	Lignum
42	OgB	Orange

Field Warnings:

Field Name: 100-05

Total Acres: 12.00 Usable Acres: 12.00

FSA Number: 0

Tract: OR 100

Location: Orange

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2020	6.2	L-(11 P ppm)	H(175 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
29	OgC2	Orange
31	OgB2	Orange
10	NsC2	Nason
9	FIC2	Fluvanna
21	FIB2	Fluvanna

Field Warnings:

Field Name: 100-06

Total Acres: 29.50 Usable Acres: 29.50

FSA Number: 0

Tract: OR 100

Location: Orange

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2020	5.9	L+(19 P ppm)	M+(110 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
4	FIB2	Fluvanna
20	LmB3	Lloyd
7	OgB	Orange
35	OgB2	Orange
34	OgC2	Orange

Field Warnings:

Field Name: 100-07

Total Acres: 9.30 Usable Acres: 9.30

FSA Number: 0

Tract: OR 100

Location: Orange

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
27	NsC2	Nason
42	TsB2	Tatum
31	TsC2	Tatum

Field Warnings:

Field Name: 100-08

Total Acres: 8.00 Usable Acres: 8.00

FSA Number: 0

Tract: OR 100

Location: Orange

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
13	LgB	Lignum
57	NsC2	Nason
2	TsB	Tatum
15	TsB2	Tatum
13	TsC2	Tatum

Field Warnings:

ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
100-01	None
100-02	None
100-03	High Water Table (Map Units OgB2 & OgC2 - 85%)
100-04	High Water Table (Map Units LgB & OgB - 43%)
100-05	High Water Table (Map Units OgB2 & OgC2 - 60%)
100-06	High Water Table (Map Units OgB, OgB2 & OgC2 - 65%)
100-07	None
100-08	High Water Table (Map UnitLgB - 13%)

Orange County Soils that are Environmentally Sensitive

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

Map Legend



House/Dwelling with a well

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



Rock Outcrop

- 25' buffer



Limestone Outcrop/Closed Sinkhole

- 50' buffer



Well/Spring/Open Sinkhole

- 100' buffer



Lake/Pond

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



Slope which exceeds 15%



Publicly Accessible Site/Odor Sensitive Site

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



Stream/River

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



Agricultural/Drainage Ditch

- 10' buffer



Roadway

- 10' improved highway buffer

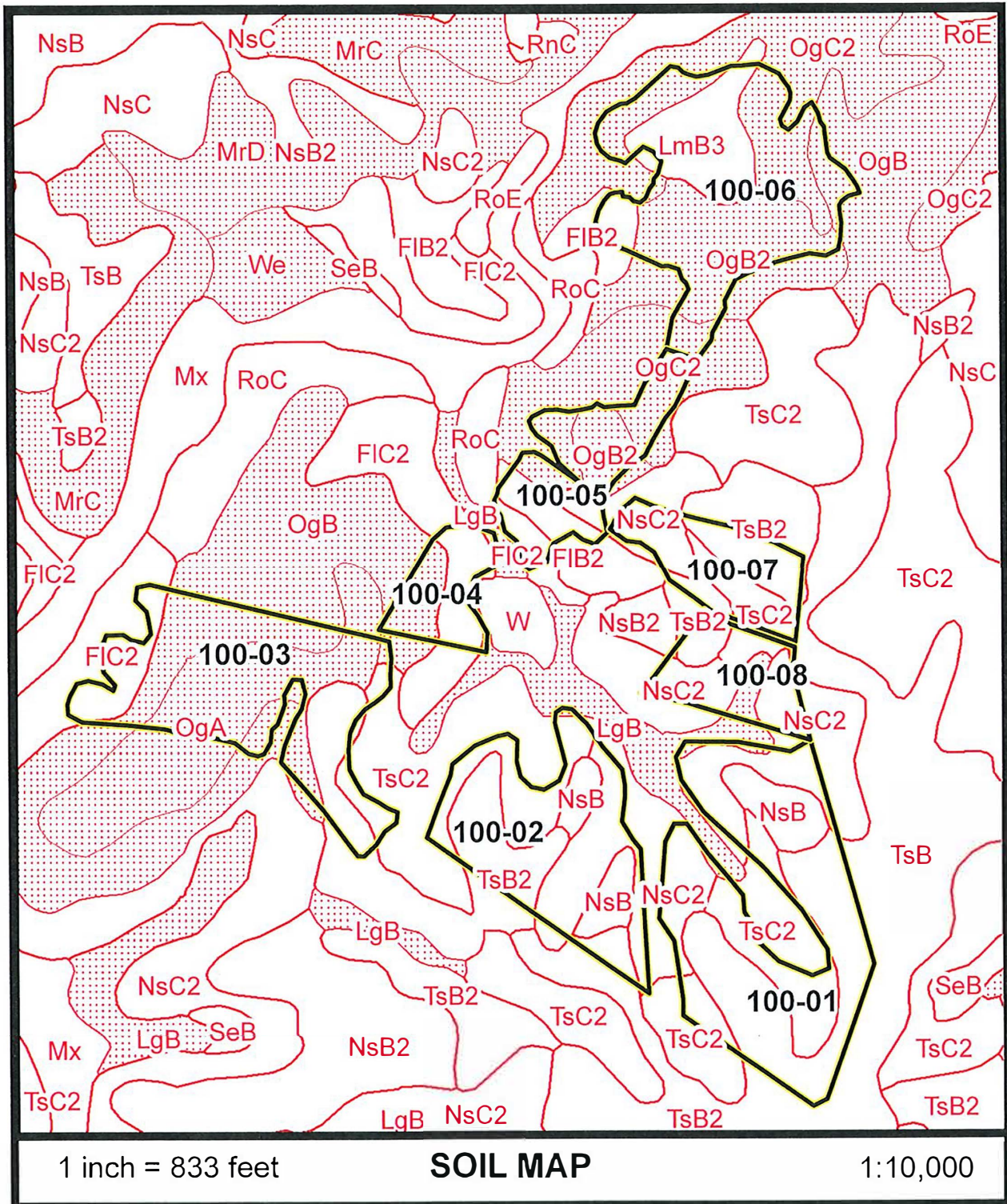


Field Boundary



Property Line

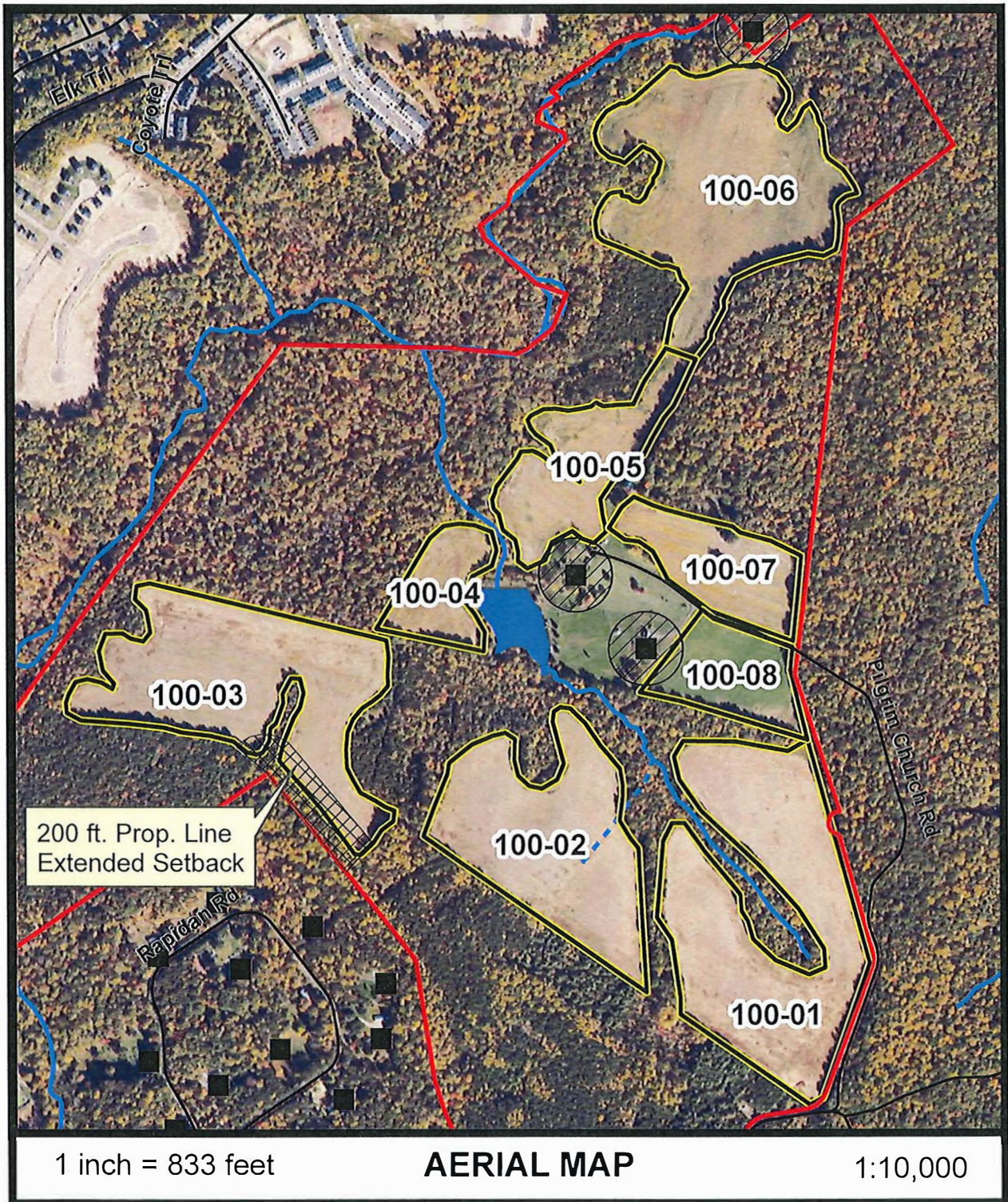
- 100' buffer unless waiver issued



Environmentally Sensitive Soil

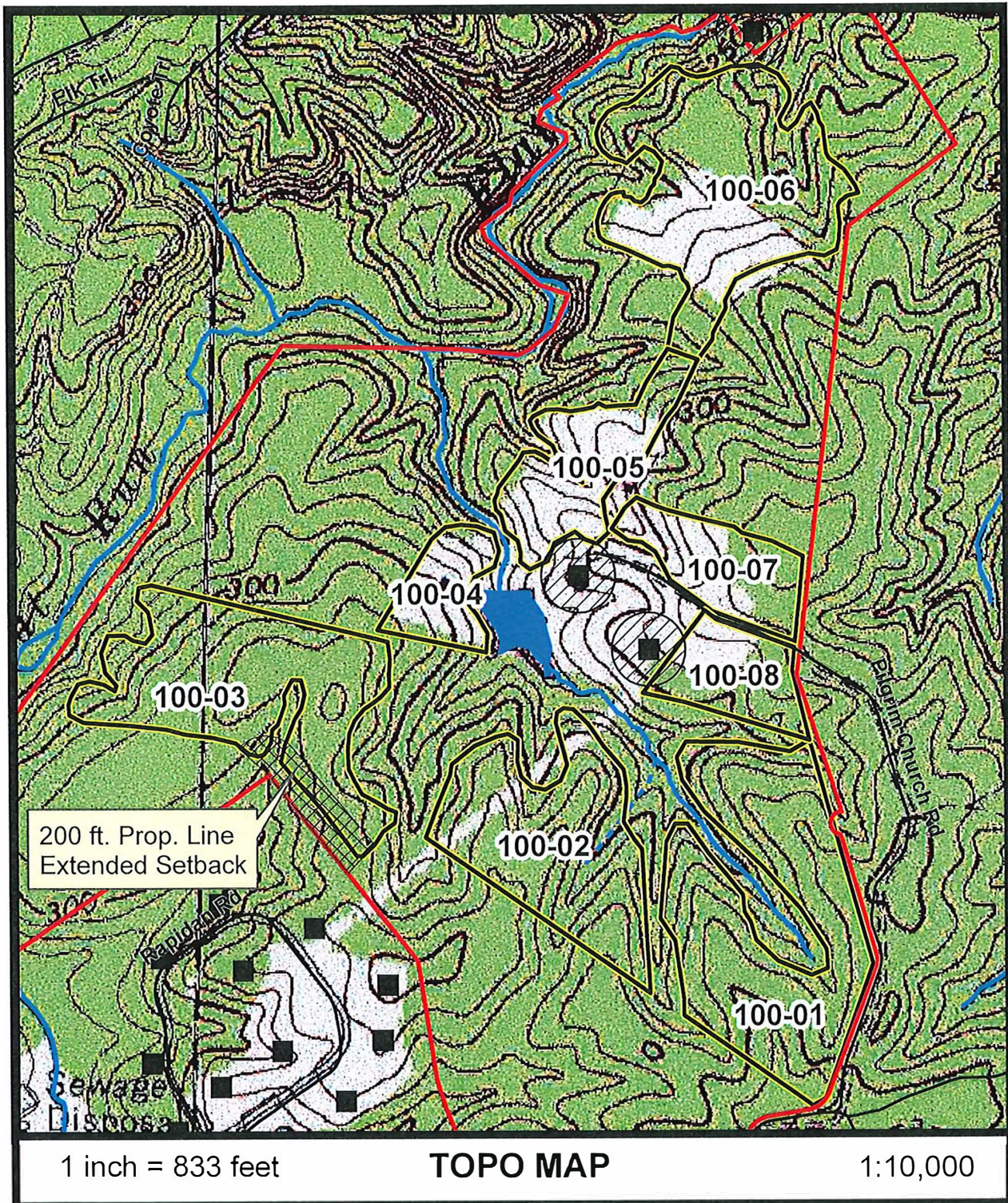
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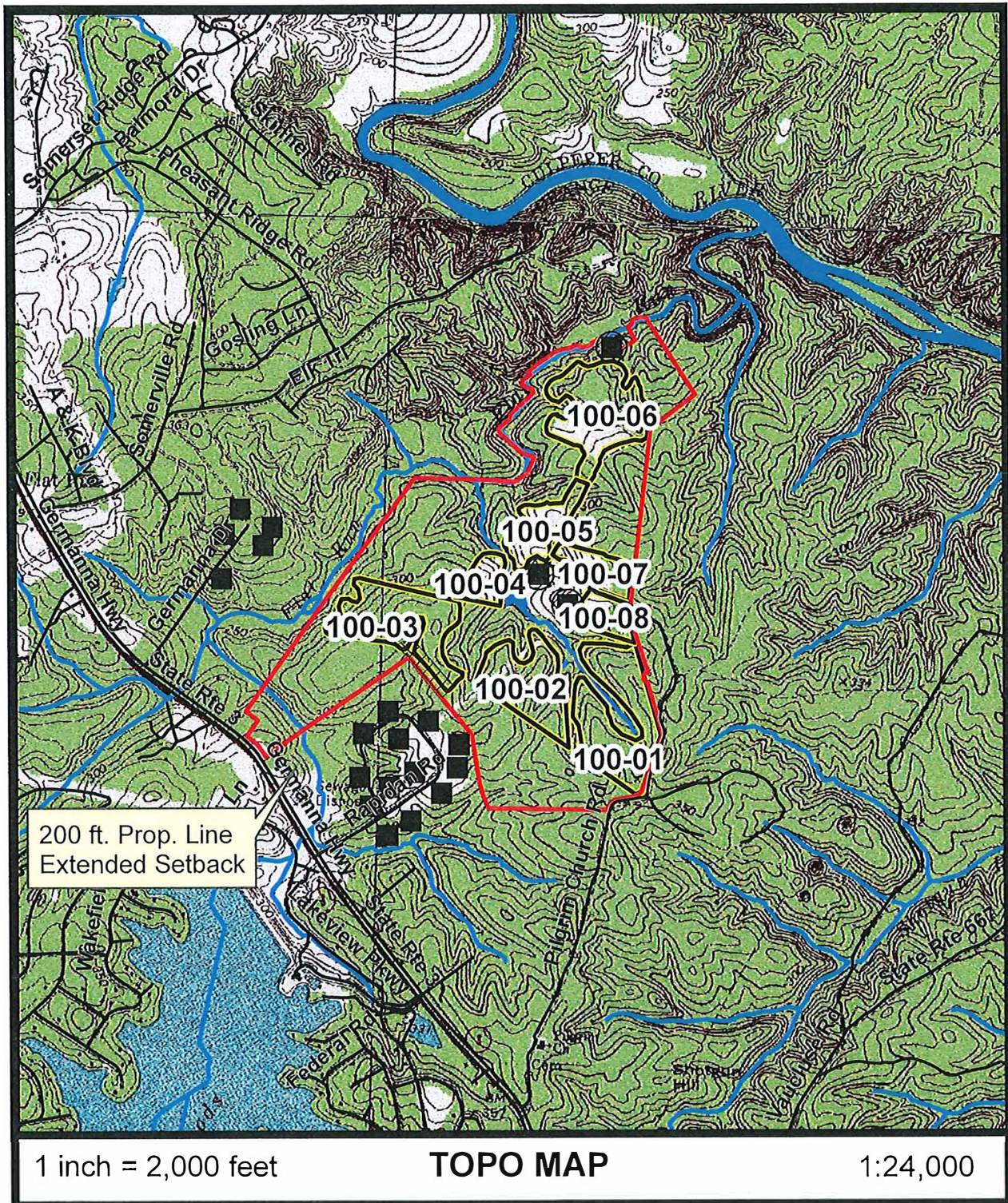


FIELD	ACRES
100-01	34.1
100-02	24.3
100-03	27.0
100-04	6.0

FIELD	ACRES
100-05	12.0
100-06	29.5
100-07	9.3
100-08	8.0

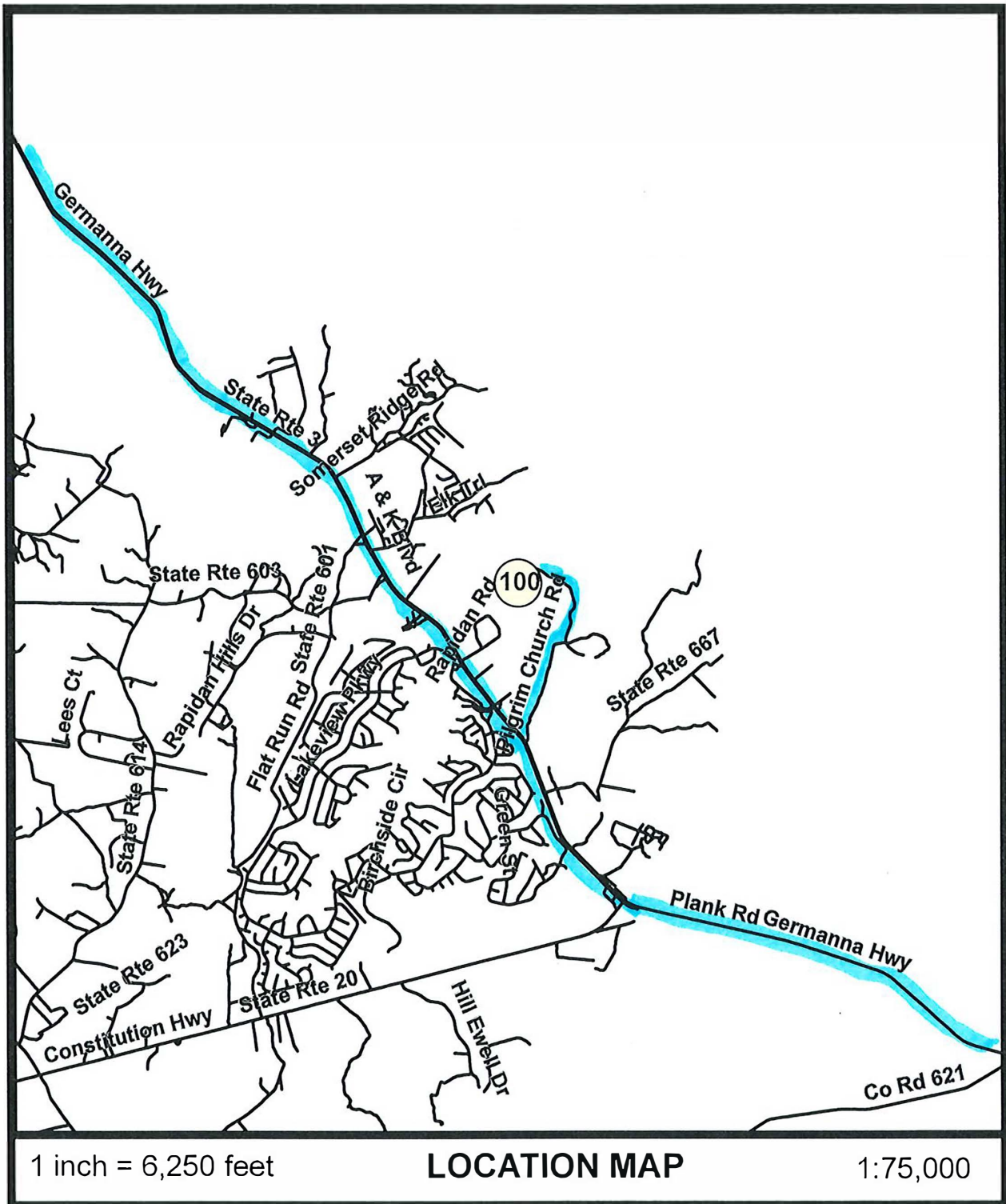
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