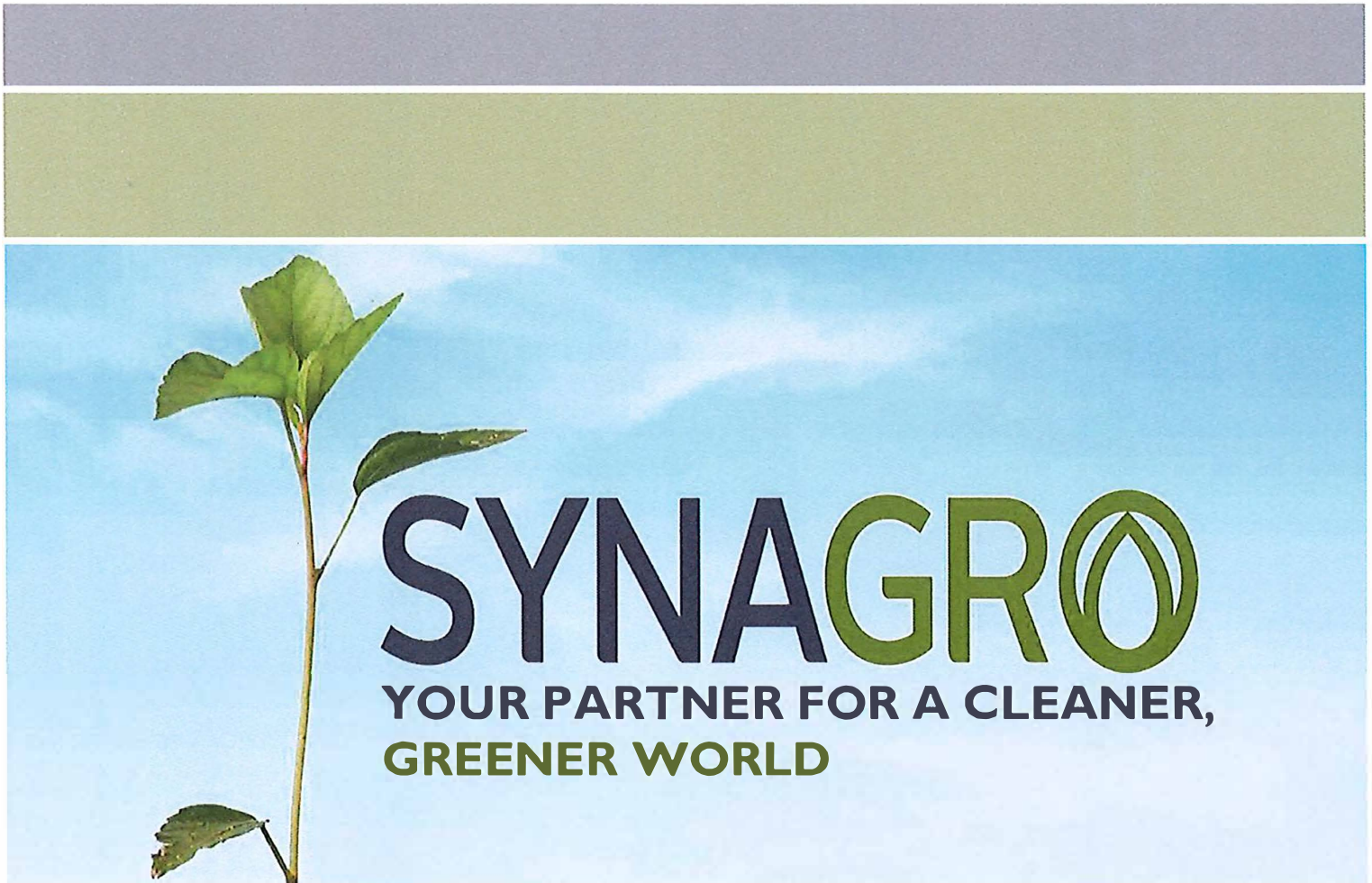


LAND APPLICATION OF INDUSTRIAL RESIDUALS
PHIL MINOR

KQ 58 (FIELDS 03-20)
KING AND QUEEN COUNTY, VIRGINIA
APRIL 2024



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



APRIL 1, 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 Phil Minor (designated as KQ 58, fields 03-20), located in King and Queen 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".

Caleb Snyder
Technical Services Manager



FIELD SUMMARY SHEET

Phil Minor

KQ 58

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
58-03	63.4	63.4	2749	Agriculture	Mount Glenwood LLC
58-04	54.0	54.0	2749	Agriculture	Mount Glenwood LLC
58-05	32.9	32.9	2749	Agriculture	Mount Glenwood LLC
58-06	11.2	11.2	2749	Agriculture	Mount Glenwood LLC
58-07	26.9	26.9	2749	Agriculture	Mount Glenwood LLC
58-08	33.4	33.4	2749	Agriculture	Mount Glenwood LLC
58-09	41.3	41.3	2749	Agriculture	Mount Glenwood LLC
58-10	60.6	60.6	2749	Agriculture	Mount Glenwood LLC
58-11	37.9	37.9	2749	Agriculture	Mount Glenwood LLC
58-12	18.8	18.8	2749	Agriculture	Mount Glenwood LLC
58-13	19.3	19.3	2749	Agriculture	Mount Glenwood LLC
58-14	145.6	145.6	2749	Agriculture	Mount Glenwood LLC
58-15	7.8	7.8	2749	Agriculture	Mount Glenwood LLC
58-16	4.1	4.1	2749	Agriculture	Mount Glenwood LLC
58-17	21.1	21.1	2749	Agriculture	Mount Glenwood LLC
58-18	15.8	15.8	2749	Agriculture	Mount Glenwood LLC
58-19	7.6	7.6	2749	Agriculture	Mount Glenwood LLC
58-20	7.2	7.2	2749	Agriculture	Mount Glenwood LLC
TOTALS:	608.9	608.9			

Revised 2/3/2017

Changes to field acreages

SYNAGRO OLD FIELD #	SYNAGRO NEW FIELD #	OLD ACRES	NEW ACRES	NET ACRES CHANGE
58-03	58-03	62.1	63.4	1.3
58-04	58-04	56.1	54	-2.1
58-05	58-05	32.9	32.9	0.0
58-06	58-06	11.2	11.2	0.0
58-07	58-07	26.9	26.9	0.0
58-08	58-08	33.4	33.4	0.0
58-09	58-09	41.3	41.3	0.0
58-10	58-10	60.6	60.6	0.0
58-11	58-11	37.9	37.9	0.0
58-12	58-12	18.8	18.8	0.0
58-13	58-13	19.3	19.3	0.0
58-14	58-14	145.6	145.6	0.0
58-15	58-15	7.8	7.8	0.0
58-16	58-16	4.1	4.1	0.0
58-17	58-17	21.1	21.1	0.0
58-18	58-18	15.8	15.8	0.0
58-19	58-19	7.6	7.6	0.0
58-20	58-20	7.2	7.2	0.0
TOTALS:		609.7	608.9	-0.8

Fields with DEQ Control Numbers

SYNAGRO FIELD #	DEQ Control Number
58-03	51097-00027-0000
58-04	51097-00027-0000
58-05	51097-00027-0000
58-06	51097-00027-0000
58-07	51097-00027-0000
58-08	51097-00028-0000
58-09	51097-00028-0000
58-10	51097-00028-0000
58-11	51097-00028-0000
58-12	51097-00028-0000
58-13	51097-00028-0000
58-14	51097-00028-0000
58-15	51097-00028-0000
58-16	51097-00028-0000
58-17	51097-00028-0000
58-18	51097-00028-0000
58-19	51097-00028-0000
58-20	51097-00028-0000

SYNAGRO

VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: Phil Minor PHONE: (804) 337-1999

ADDRESS: PO BOX 99 St Stephens Ch VA 23148

FARM LOCATION: _____

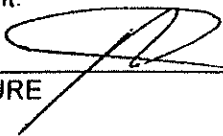
FSA TRACT #: _____

TOTAL ACRES: _____ COUNTY: King & Queen

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.

OPERATOR'S SIGNATURE



DATE

4-1-24

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 4/1/24 between Mount Glenwood LLC referred to here as "Landowner", and Synagro Central, LLC, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in King and Queen, 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			
<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>
1632-10L-557			
1632-10L-584			

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.

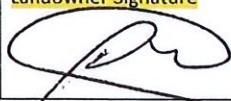
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

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>Mount Glenwood LLC</u>	Mailing Address <u>PO Box 99 St Stephens Ch VA 23148</u>	Landowner Signature 
By: <u>Phil Minor</u>	Phone No. <u>804-337-1999</u>	
Title* <u>Manager</u>		

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

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

Permittee: SYNAGRO CENTRAL LLC County or City: King and Queen

Landowner: Mount Glenwood LLC

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

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

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).



Landowner's Signature

4/11/24

Date

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

Landowner Coordination Form

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

This form is not required when Form D - VPA Permit Application Workbook, Tabs 13.a and/or 13.b, are submitted. The information on that form supersedes the need to complete this Landowner Coordination Form.

Permittee: Synagro Central, LLC County or City: Industrial (KQ 58)

Please Print

(Signatures not required on this page)

<u>Tax Parcel ID(s)</u>	<u>Landowner(s)</u>
32 10 -557	MOUNT GLENWOOD LLC
32 10L 584	MOUNT GLENWOOD LLC



983 GLENWOOD FARM ROAD

Parcel Information

Map ID: 32 10L 584

Physical Address: 983 GLENWOOD FARM ROAD

Physical City, St, Zip: ST STEPHENS CH, VA 23148

Plat:

Account Number: 6399

Magisterial District: NEWTOWN

Zoning: AGRICULTURE

Ownership

Owner Name: MOUNT GLENWOOD LLC

Mailing Address: P O BOX 99

Mailing City, St, Zip: ST STEPHENS CH VA 23148

Deed Book and Page: 0201 483

Will Book and Page: 0

Plat Book and Page: 0000 0

Instrument Number: 19 0 689

Valuation

Sequence Number: 1

Current Value

Building Value: \$96,100

Improvement Value: \$10,000

Land Value: \$1,962,300

Total Value: \$2,068,400

Commercial Value: N/A

Average Price Per Acre: \$2,674

Consideration Date: 20130410

Consideration Amount: \$0

Consideration Acreage: 696.75

Recorded Date: 20130410

Physical Depreciation %: 0.48

Previous Value

Review Date: 0

Previous Improvement Value: \$84,900

Previous Land Value: \$1,353,300

Legal Description: GLENWOOD

N/A

N/A

N/A

Building

This information is provided for convenience only. No representation whatsoever is made as to accuracy and this information is not a replacement for a title examination and/or consultation with the Zoning Office and should not be relied upon for any purpose.

USE AT YOUR OWN RISK.

For more information, please contact the Commissioner of the Revenue at 804.785.5976.



Parcel Information

Map ID: 32 10L 557

Account Number: 4337

Physical Address:

Magisterial District: NEWTOWN

Physical City, St, Zip: N/A

Zoning: AGRICULTURE

Plat:

Ownership

Owner Name: MOUNT GLENWOOD LLC

Deed Book and Page: 0108 742

Mailing Address: PO BOX 99

Will Book and Page: 0

Mailing City, St, Zip: ST STEPHENS CH VA 23148

Plat Book and Page: 13 113

Instrument Number: 13 0 313

Valuation

Sequence Number: 1

Current Value

Building Value: N/A

Improvement Value: N/A

Land Value: \$479,600

Total Value: \$479,600

Commercial Value: N/A

Average Price Per Acre: \$1,959

Consideration Date: 20130410

Consideration Amount: \$0

Consideration Acreage: 285

Recorded Date: 20130410

Physical Depreciation %: 0

Previous Value

Review Date: 0

Previous Improvement Value: N/A

Previous Land Value: \$322,800

Legal Description: MOUNT

N/A

N/A

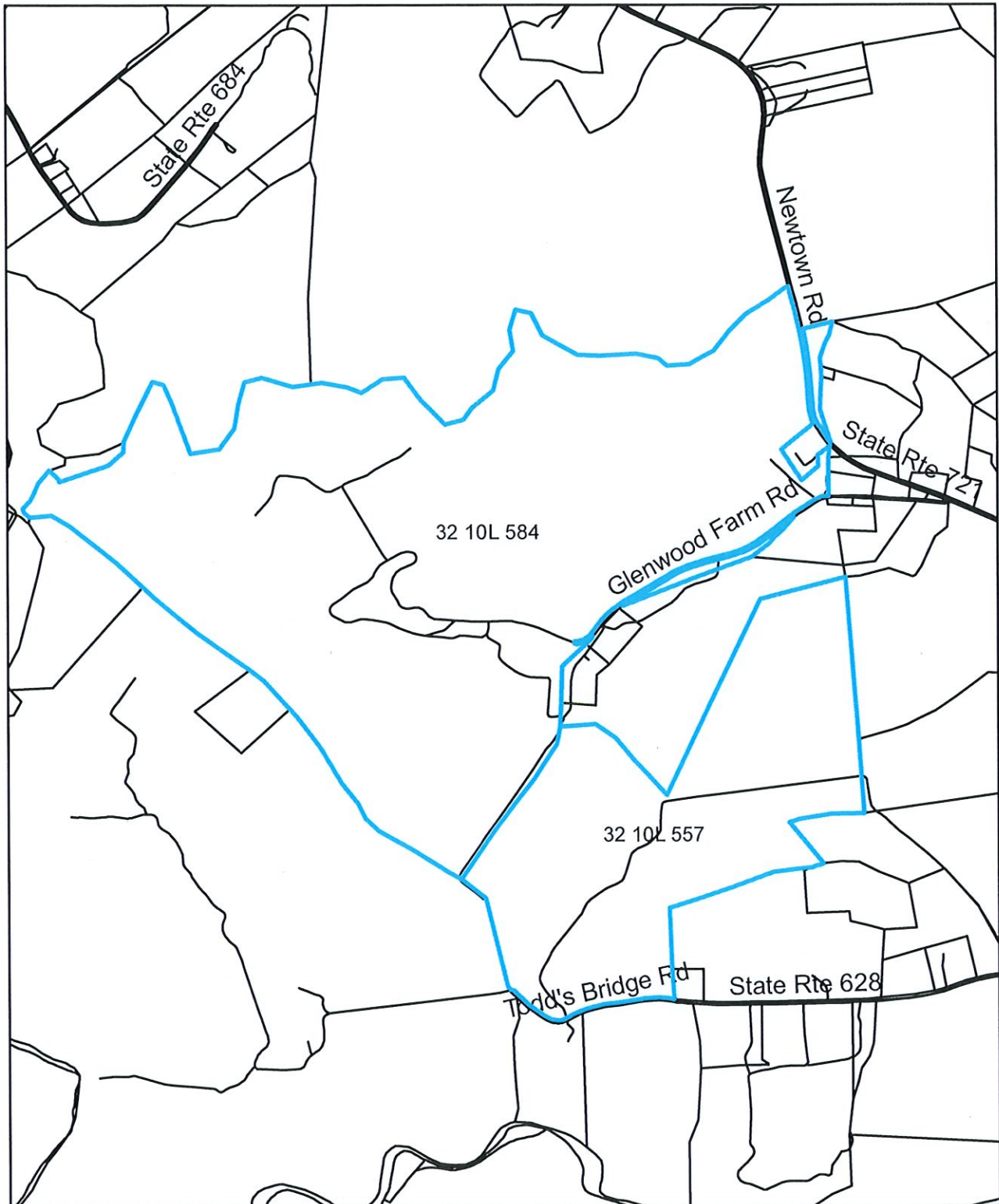
N/A

Building

This information is provided for convenience only. No representation whatsoever is made as to accuracy and this information is not a replacement for a title examination and/or consultation with the Zoning Office and should not be relied upon for any purpose.

USE AT YOUR OWN RISK.

For more information, please contact the Commissioner of the Revenue at 804.785.5976.



1 inch = 2,000 feet

Tax Map

1:24,000

Revised 4/17/24

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.

TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
Mount Glenwood LLC	58-03	1632-10L 557
Mount Glenwood LLC	58-04	1632-10L 557
Mount Glenwood LLC	58-05	1632-10L 557
Mount Glenwood LLC	58-06	1632-10L 557
Mount Glenwood LLC	58-07	1632-10L 557
Mount Glenwood LLC	58-08	1632-10L 584
Mount Glenwood LLC	58-09	1632-10L 584
Mount Glenwood LLC	58-10	1632-10L 584
Mount Glenwood LLC	58-11	1632-10L 584
Mount Glenwood LLC	58-12	1632-10L 584
Mount Glenwood LLC	58-13	1632-10L 584
Mount Glenwood LLC	58-14	1632-10L 584
Mount Glenwood LLC	58-15	1632-10L 584
Mount Glenwood LLC	58-16	1632-10L 584
Mount Glenwood LLC	58-17	1632-10L 584
Mount Glenwood LLC	58-18	1632-10L 584
Mount Glenwood LLC	58-19	1632-10L 584
Mount Glenwood LLC	58-20	1632-10L 584

Field Number	Latitude (North)	Longitude (West)
58-03	37.825°	-77.098°
58-04	37.827°	-77.090°
58-05	37.825°	-77.091°
58-06	37.819°	-77.099°
58-07	37.819°	-77.096°
58-08	37.825°	-77.102°
58-09	37.829°	-77.102°
58-10	37.830°	-77.108°
58-11	37.836°	-77.113°
58-12	37.838°	-77.108°
58-13	37.834°	-77.106°
58-14	37.835°	-77.099°
58-15	37.832°	-77.103°
58-16	37.831°	-77.099°
58-17	37.839°	-77.100°
58-18	37.837°	-77.094°
58-19	37.836°	-77.093°
58-20	37.836°	-77.091°

*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.

KQ 58 Adjoining landowners

Parcel ID	Owner Name	Postal Address	Postal City	State	Zip
32 10L 582C	ELLIOTT NORMAN W & SHIRLEY L	PO BOX 83	ST STEPHENS CH	VA	23148
32 10L 582D	COPELAND ELIZABETH J	P O BOX 87	WALKERTON	VA	23177
32 10L 582E	ELLIOTT ALAN FRANCIS & WARNER	P O BOX 134	ST STEPHENS CH	VA	23148
32 10L 583	FOGG ROBERTA NANCY ET AL	3269 NEWTOWN ROAD	ST STEPHENS CH	VA	23148
32 10L 583B	FOGG BOBBIE JO	3439 NEWTOWN ROAD	ST STEPHENS CH	VA	23148
32 10L 584A	MINOR PHILIP R (TOD)	P O BOX 99	ST STEPHENS CH	VA	23148
32 10L 585	POLLARD LULA	C/O SUSAN B POLLARD PIERCE	TOWSON	MD	21204
32 10L 587	MITCHELL CLYDE SCOTT	P O BOX 6	WALKERTON	VA	23177
32 10L 588	GILMAN LAND AND TIMBER LLC	13423 FARRINGTON RD	ASHLAND	VA	23005
32 10L 600	MITCHELL SCOTT	P O BOX 6	WALKERTON	VA	23177
32 10L 602	PORTERFIELD FOREST LLC	117 WILLIAM CLAIBORNE	WILLIAMSBURG	VA	23148
32 10L 765	ELLIOTT ALAN F & CAROLYN H	P O BOX 134	ST STEPHENS CH	VA	23148
32 10R 764D	MINOR JOHN DANIEL	2415 REMLIK DRIVE	URBANNA	VA	23175
32 10R 766	SHOUSE RAYMOND L & CAROLYN K	3430 NEWTOWN ROAD	ST STEPHENS CH	VA	23148
32 10R 767	SHOUSE RAYMOND L & CAROLYN K	3430 NEWTOWN ROAD	ST STEPHENS CH	VA	23148
32 10R 768	SHOUSE RAYMOND L & CAROLYN K	3430 NEWTOWN ROAD	ST STEPHENS CH	VA	23148
32 10R 778A	DANIEL ROLAND	9330 CLIFFORD DRIVE	WHITE PLAINS	MD	20695
32 10L 582	ELLIOTT NORMAN W & SHIRLEY L	P O BOX 83	ST STEPHENS CH	VA	23148
32 10R 565	CIRCLE M PROPERTIES LLC	5595 SANDY VALLEY ROAD	MECHANICSVILLE	VA	23111
32 10R 581	HUDSON C W III (TOD)	7198 SHANNONDALE ROAD	MECHANICSVILLE	VA	23116
32 10R 581A	WATKINS TERRY G & KATHRYN C	P O BOX 293	ST STEPHENS CH	VA	23148
32 11L 552	GRIGG WILLIAM F III	P O BOX 159	TODDS BRIDGE	VA	23148
32 11L 560	HESS MURRAY A & CATHY T	P O BOX 941	AYLETT	VA	23009
32 11L 560A	MATHIS WILLIAM C JR & KRISTY R	2090 TODDS BRIDGE ROAD	ST STEPHENS CH	VA	23148
32 11R 562	ELLIOTT WARNER CURTIS (TOD)	9083 FAYEMONT DRIVE	MECHANICSVILLE	VA	23116
32 11R 563	MINOR PHILIP R (TOD)	P O BOX 99	ST STEPHENS CH	VA	23148

Farm Summary Report

Plan: New Plan Spring, 2015 - Spring, 2016

Farm Name: KQ 58
Location: King & Queen
Specialist: D. Steve McMahon
N-based Acres: 608.8
P-based Acres: 0.0

Tract Name: KQ 58
FSA Number:
Location: King & Queen

Field Name: 03
Total Acres: 63.40 Usable Acres: 63.40
FSA Number: 3
Tract: KQ 58
Location: King & Queen
Slope Class: A 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
40	1A	Augusta
20	7A	Bibb Kinston
15	19A	Tetotum
15	2A	Bojac1
10	20A	Tomotley

Field Warnings:

Field Name: 04
 Total Acres: 54.00 Usable Acres: 54.00
 FSA Number: 0
 Tract: KQ 58
 Location: King & Queen
 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	5D	Emporia Slagle
10	4C	Emporia
5	4A	Emporia
80	17A	Suffolk

Field Warnings:

Field Name: 05
 Total Acres: 32.90 Usable Acres: 32.90
 FSA Number: 0
 Tract: KQ 58
 Location: King & Queen
 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
50	17B	Suffolk
15	15A	Slagle
15	4A	Emporia
20	3B	Craven

Field Warnings:

Field Name: 06
 Total Acres: 11.20 Usable Acres: 11.20
 FSA Number: 0
 Tract: KQ 58
 Location: King & Queen
 Slope Class: A 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
20	8A	Levy
50	3A	Craven
30	13A	Roanoke

Field Warnings:

Field Name: 07

Total Acres: 26.90 Usable Acres: 26.90

FSA Number: 0

Tract: KQ 58

Location: King & Queen

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
60	14B	Rumford
20	17A	Suffolk
15	5D	Emporia Slagle
5	5E	Emporia Slagle

Field Warnings:

Environmentally Sensitive Soils due to:

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

Soils with percent slope in excess of 15%

Field Name: 08
 Total Acres: 33.40 Usable Acres: 33.40
 FSA Number: 0
 Tract: KQ 58
 Location: King & Queen
 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
60	2B	Bojac1
20	19A	Tetotum
10	20A	Tomotley
10	7A	Bibb Kinston

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

Field Name: 09
 Total Acres: 41.30 Usable Acres: 41.30
 FSA Number: 5
 Tract: KQ 58
 Location: King & Queen
 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
40	19A	Tetotum
40	2B	Bojac1
15	1A	Augusta
5	5D	Emporia Slagle

Field Warnings:

Environmentally Sensitive Soils due to:

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

Soils with percent slope in excess of 15%

Field Name: 10
 Total Acres: 60.60 Usable Acres: 60.60
 FSA Number: 4
 Tract: KQ 58
 Location: King & Queen
 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
60	2B	Bojac1
5	19B	Tetotum
15	19A	Tetotum
5	16B	State1
15	16A	State

Field Warnings:

Environmentally Sensitive Soils due to:

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

Field Name: 11
 Total Acres: 37.90 Usable Acres: 37.90
 FSA Number: 1
 Tract: KQ 58
 Location: King & Queen
 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
50	18B	Tarboro
30	7A	Bibb Kinston
10	16A	State1
10	14C	Rumford

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

Field Name: 12
 Total Acres: 18.80 Usable Acres: 18.80
 FSA Number: 0
 Tract: KQ 58
 Location: King & Queen
 Slope Class: B Hydrologic Group: A

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	14B	Rumford
12	14C	Rumford
83	18B	Tarboro

Field Warnings:

Environmentally Sensitive Soils due to:

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

Field Name: 13
 Total Acres: 19.30 Usable Acres: 19.30
 FSA Number: 3
 Tract: KQ 58
 Location: King & Queen
 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-2015	6.6	H-(54 P ppm)	M(102 K ppm)	A & L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
90	17A	Suffolk
10	5D	Emporia Slagle

Field Warnings:

Field Name: 14
 Total Acres: 145.60 Usable Acres: 145.60
 FSA Number: 0
 Tract: KQ 58
 Location: King & Queen
 Slope Class: A 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	1A	Augusta
5	17B	Suffolk
10	4A	Emporia
60	17A	Suffolk
20	19A	Tetotum

Field Warnings:

Field Name: 15
 Total Acres: 7.80 Usable Acres: 7.80
 FSA Number: 0
 Tract: KQ 58
 Location: King & Queen
 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
5	1A	Augusta
5	17A	Suffolk
90	5D	Emporia Slagle

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with percent slope in excess of 15%

Field Name: 16
 Total Acres: 4.10 Usable Acres: 4.10
 FSA Number: 0
 Tract: KQ 58
 Location: King & Queen
 Slope Class: A 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
95	17A	Suffolk
5	5D	Emporia Slagle

Field Warnings:

Field Name: 17
 Total Acres: 21.10 Usable Acres: 21.10
 FSA Number: 13
 Tract: KQ 58
 Location: King & Queen
 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-2015	6.6	H-(52 P ppm)	L+(47 K ppm)	A & L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
50	3B	Craven
30	5D	Emporia Slagle
20	17A	Suffolk

Field Warnings:

Field Name: 18
 Total Acres: 15.80 Usable Acres: 15.80
 FSA Number: 0
 Tract: KQ 58
 Location: King & Queen
 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	1A	Augusta
45	17B	Suffolk
38	17A	Suffolk
12	17C	Suffolk

Field Warnings:

Field Name: 19
 Total Acres: 7.60 Usable Acres: 7.60
 FSA Number: 0
 Tract: KQ 58
 Location: King & Queen
 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
40	17C	Suffolk
60	5D	Emporia Slagle

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with perent slope in excess of 15%

Field Name: 20
 Total Acres: 7.20 Usable Acres: 7.20
 FSA Number: 0
 Tract: KQ 58
 Location: King & Queen
 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
100	17B	Suffolk

Field Warnings:

ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
58-03	High Water Table (Map Units 1A, 7A, 20A - 70%) High Leaching Potential (Map Unit 2A - 15%)
58-04	None
58-05	None
58-06	High Water Table (Map Units 8A, 13A - 50%)
58-07	High Leaching Potential (Map Unit 14B - 60%)
58-08	High Water Table (Map Units 7A, 20A - 20%) High Leaching Potential (Map Unit 2B - 60%)
58-09	High Water Table (Map Unit 1A - 15%) High Leaching Potential (Map Unit 2B - 60%)
58-10	High Leaching Potential (Map Unit 2B - 60%)
58-11	High Water Table (Map Unit 7A - 30%) High Leaching Potential (Map Units 14C, 18B - 60%)
58-12	High Leaching Potential (Map Units 14B, 14C, 18B - 100%)
58-13	None
58-14	High Water Table (Map Unit 1A - 5%)
58-15	High Water Table (Map Unit 1A - 5%)
58-16	None
58-17	None
58-18	High Water Table (Map Unit 1A - 5%)
58-19	None
58-20	None

King & Queen County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
1A	Augusta	Dec – May		
2A, 2B	Bojac			Leaching
7A	Kinston	Nov – June	Nov – June	
8A	Levy	Jan – Dec	Jan – Dec	Drainage
12A	Rappahannoc	Jan – Dec	Jan – Dec	Drainage
13A	Roanoke	Nov – May		
14B, 14C	Rumford			Leaching
18B	Tarboro			Leaching
20A	Tomotley	Nov – April		
21A	Wahee	Dec – March		

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

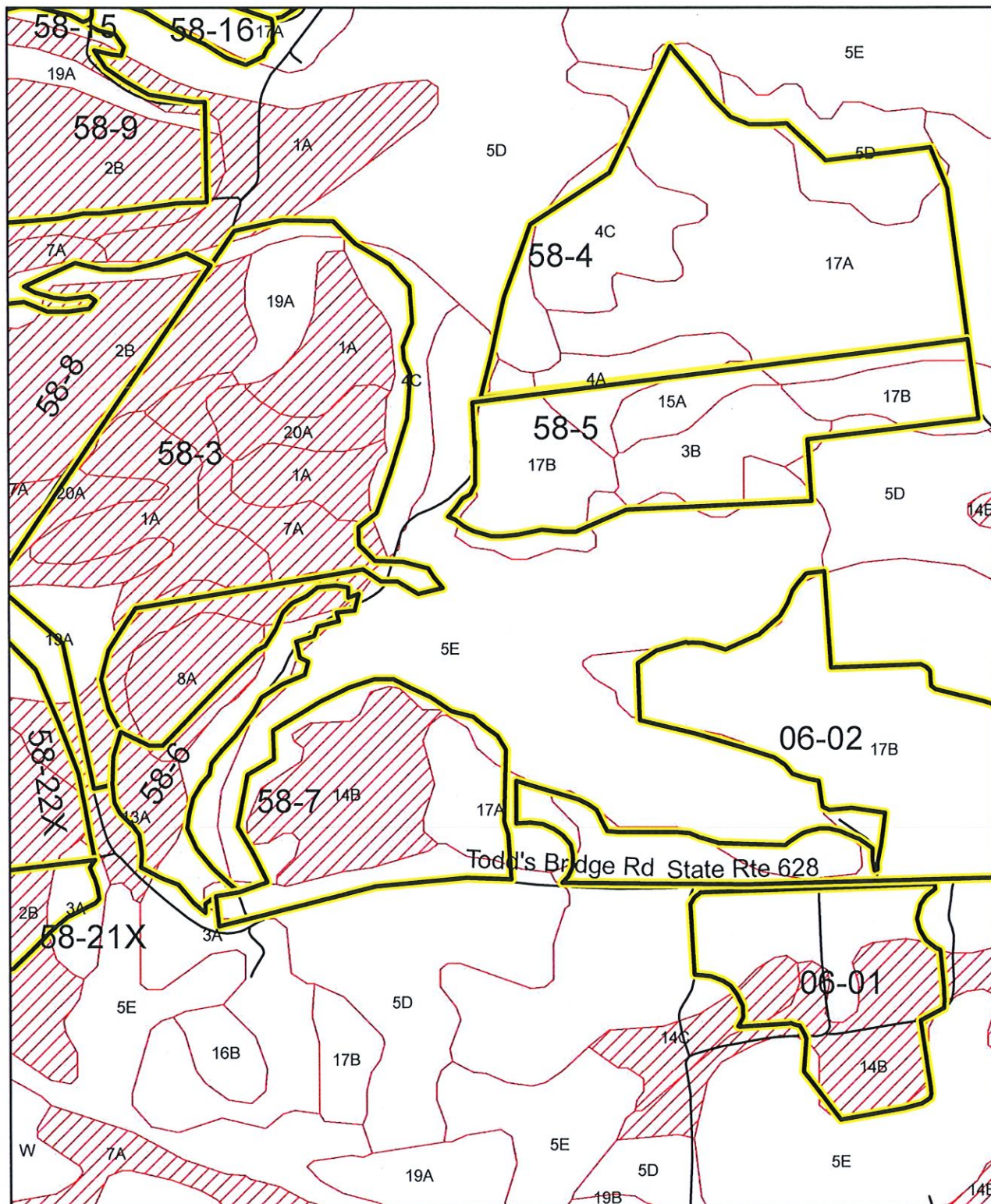


Field Boundary



Property Line

- 100' buffer unless waiver issued



1 inch = 833 feet

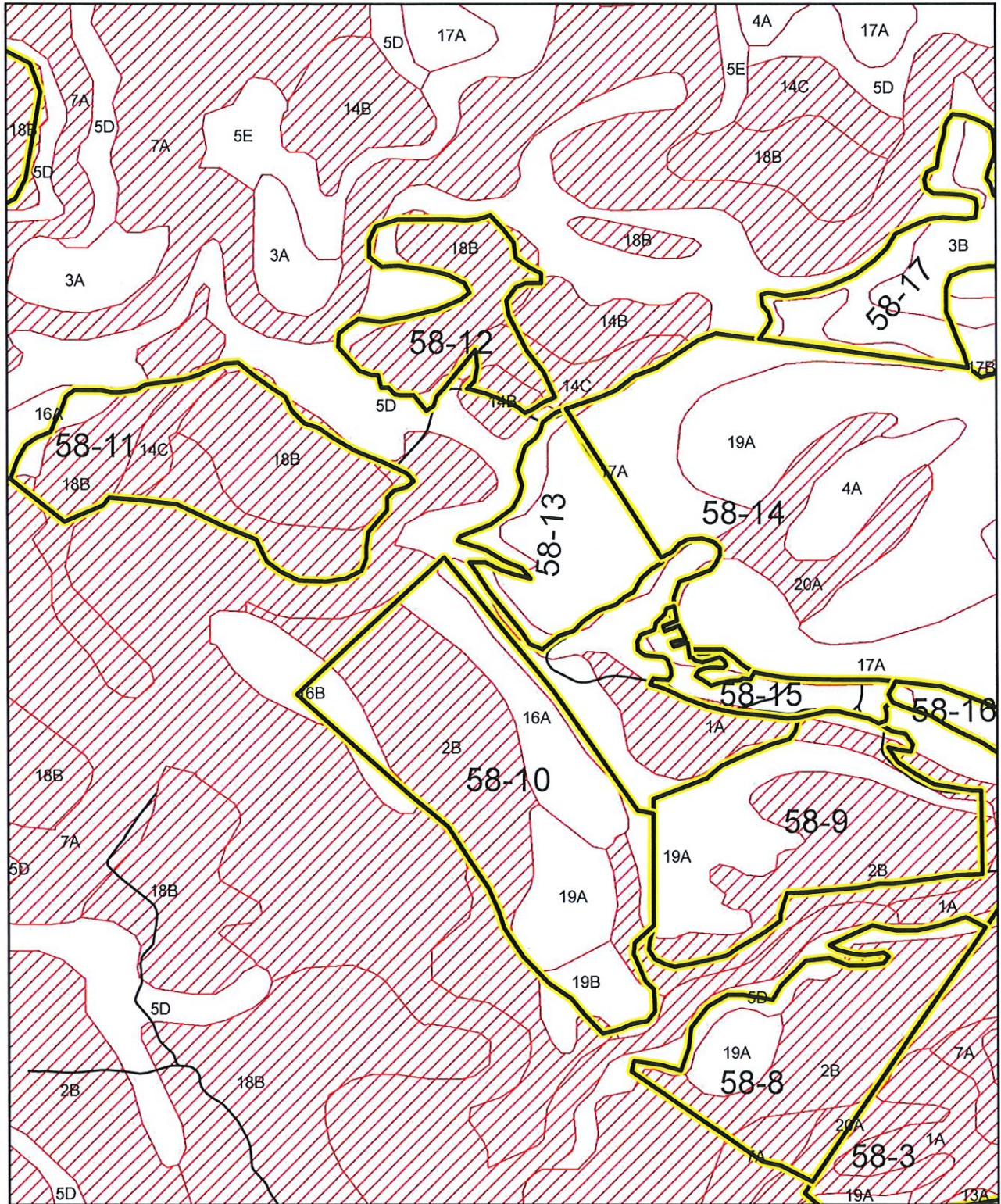
Soil Map

1:10,000

Revised 4/17/24



Environmentally Sensitive Soils



1 inch = 1,000 feet

Soil Map

1:12,000

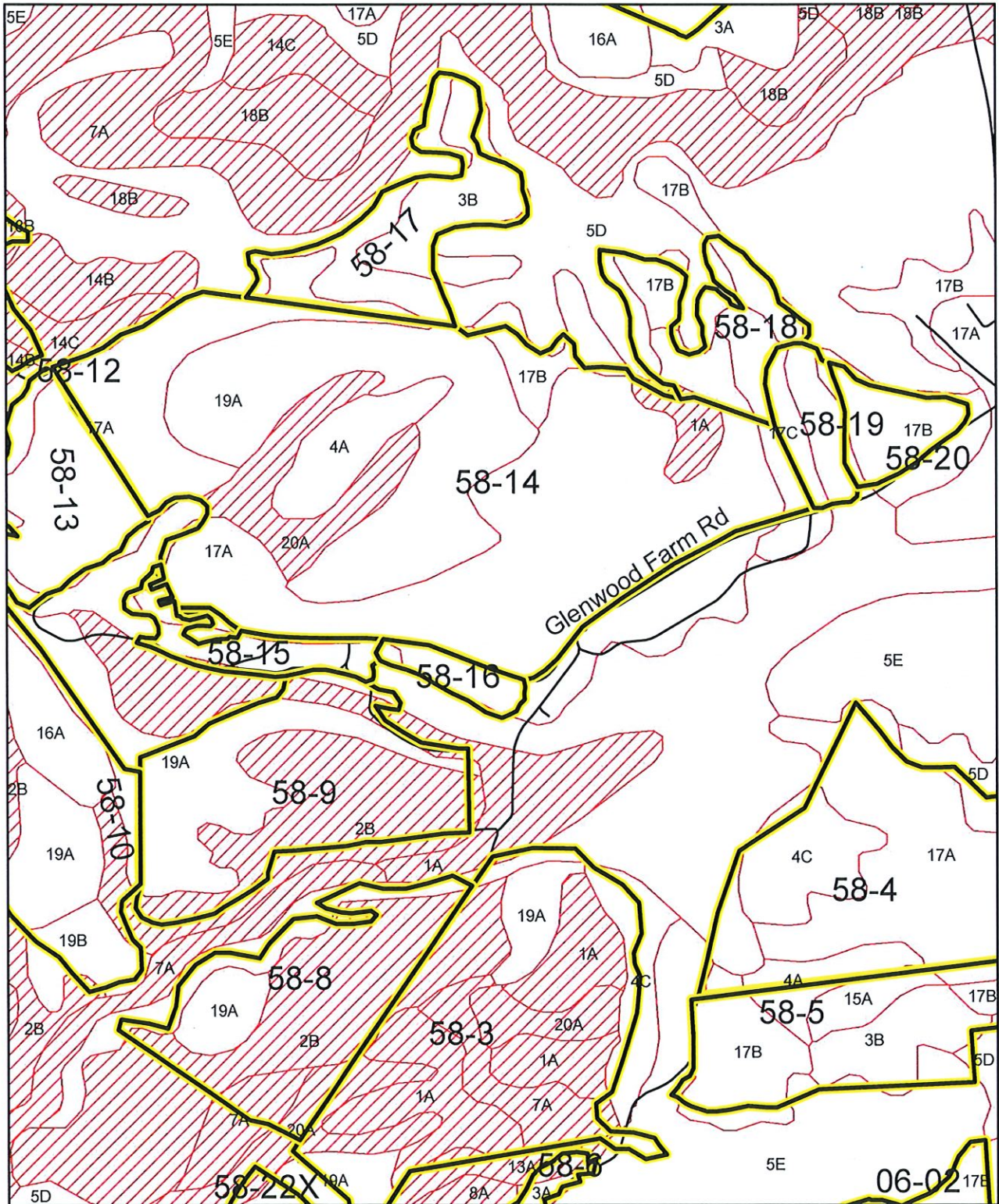
Revised 4/17/24



Environmentally Sensitive Soils

SYNAGRO

Phil Minor
KQ 58
Field 09, 14-20



1 inch = 1,000 feet

Soil Map

1:12,000

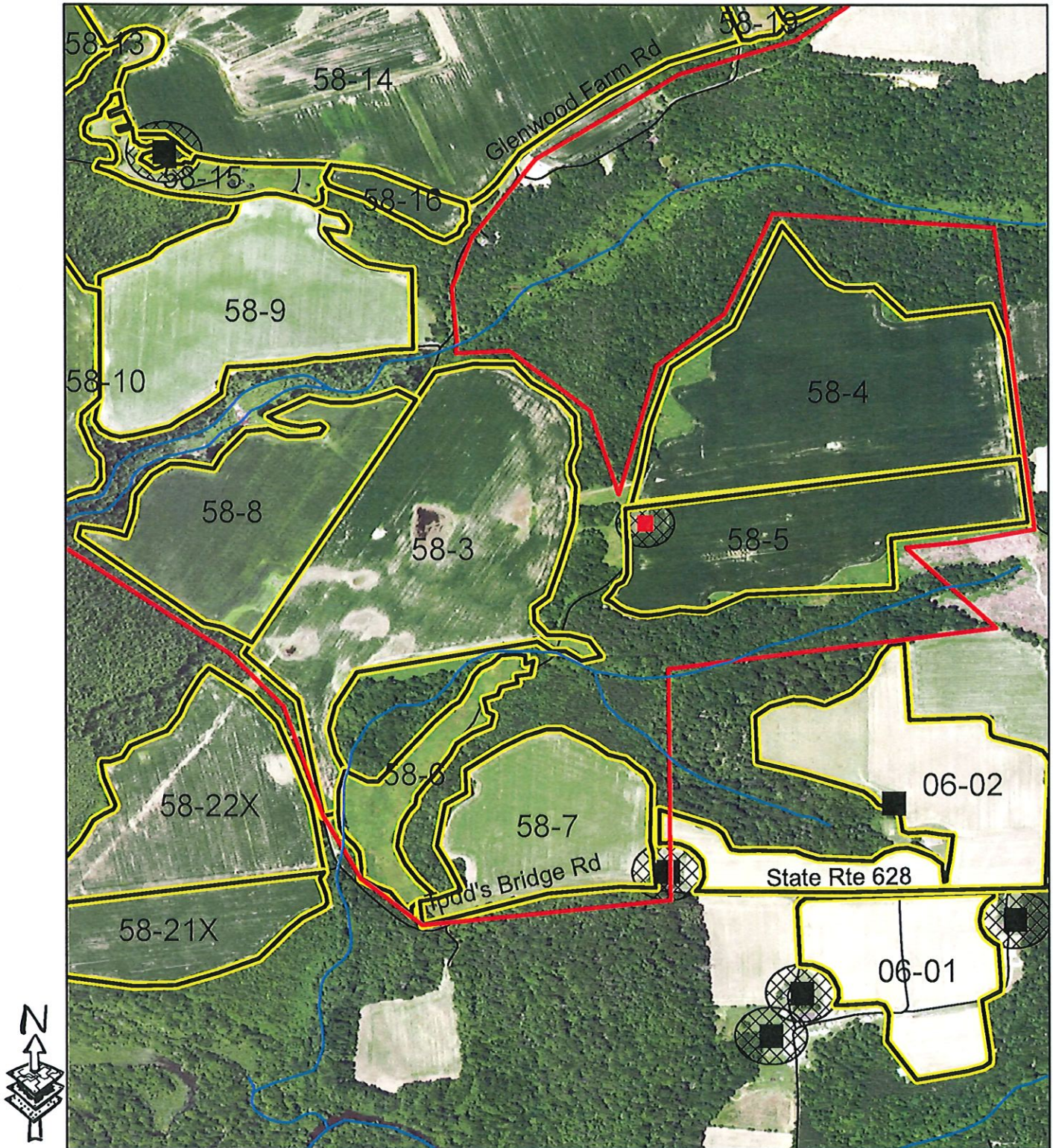
Revised 4/17/24



Environmentally Sensitive Soils

SYNAGRO

Phil Minor
KQ 58
Field 03-07

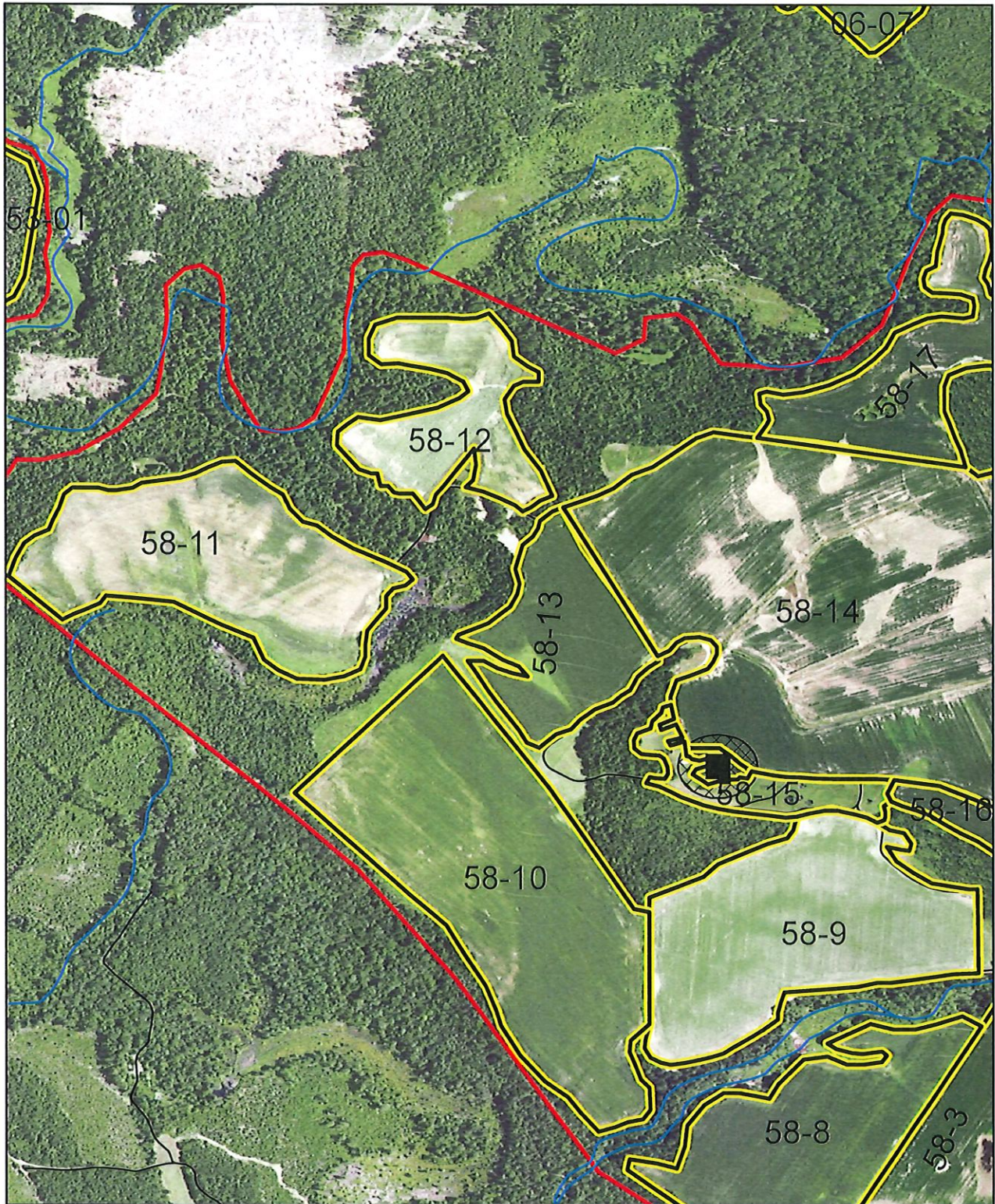


1 inch = 1,000 feet

Aerial Map

1:12,000

Revised 4/17/24

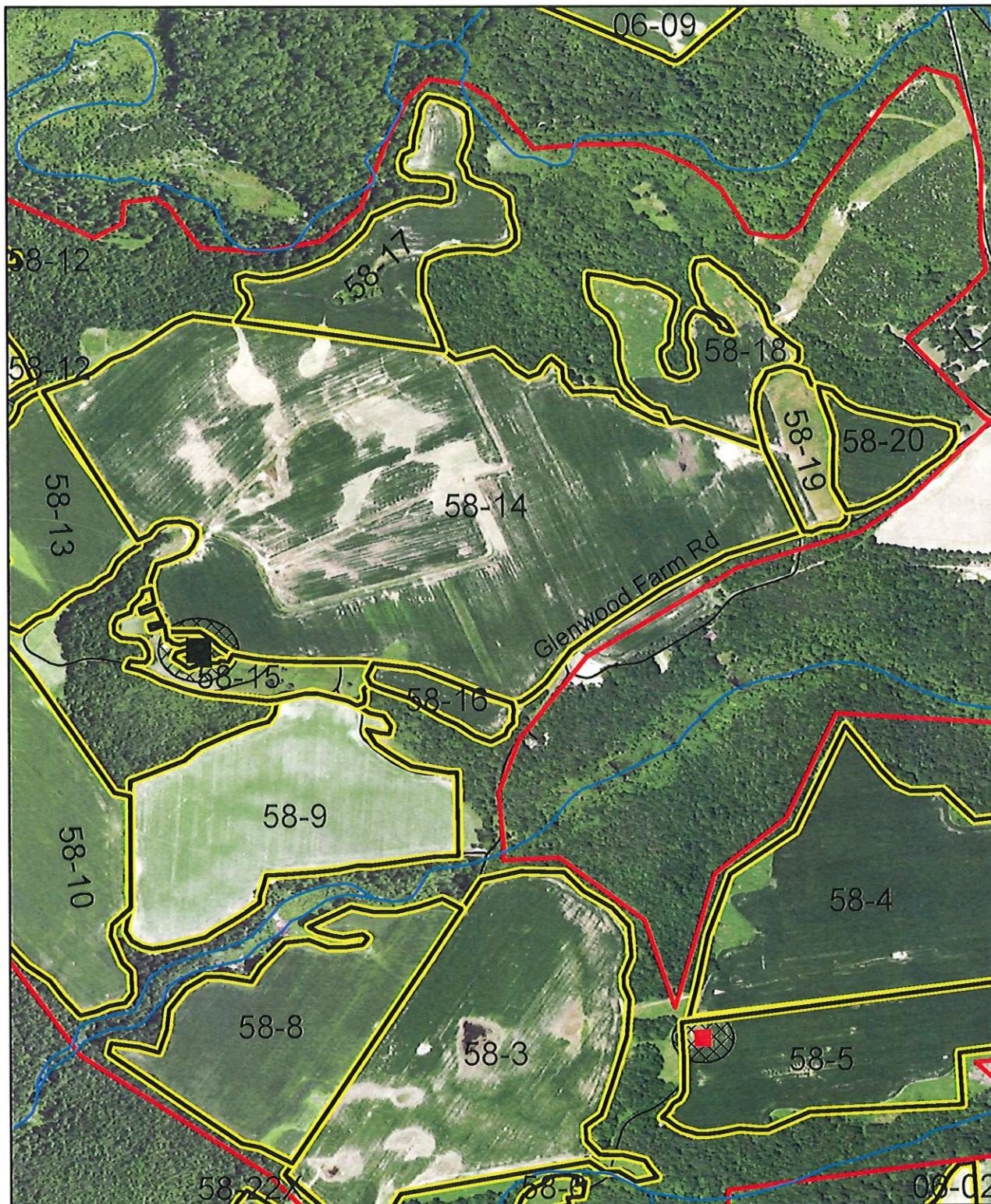


1 inch = 1,000 feet

Aerial Map

1:12,000

Revised 4/17/24



1 inch = 1,000 feet

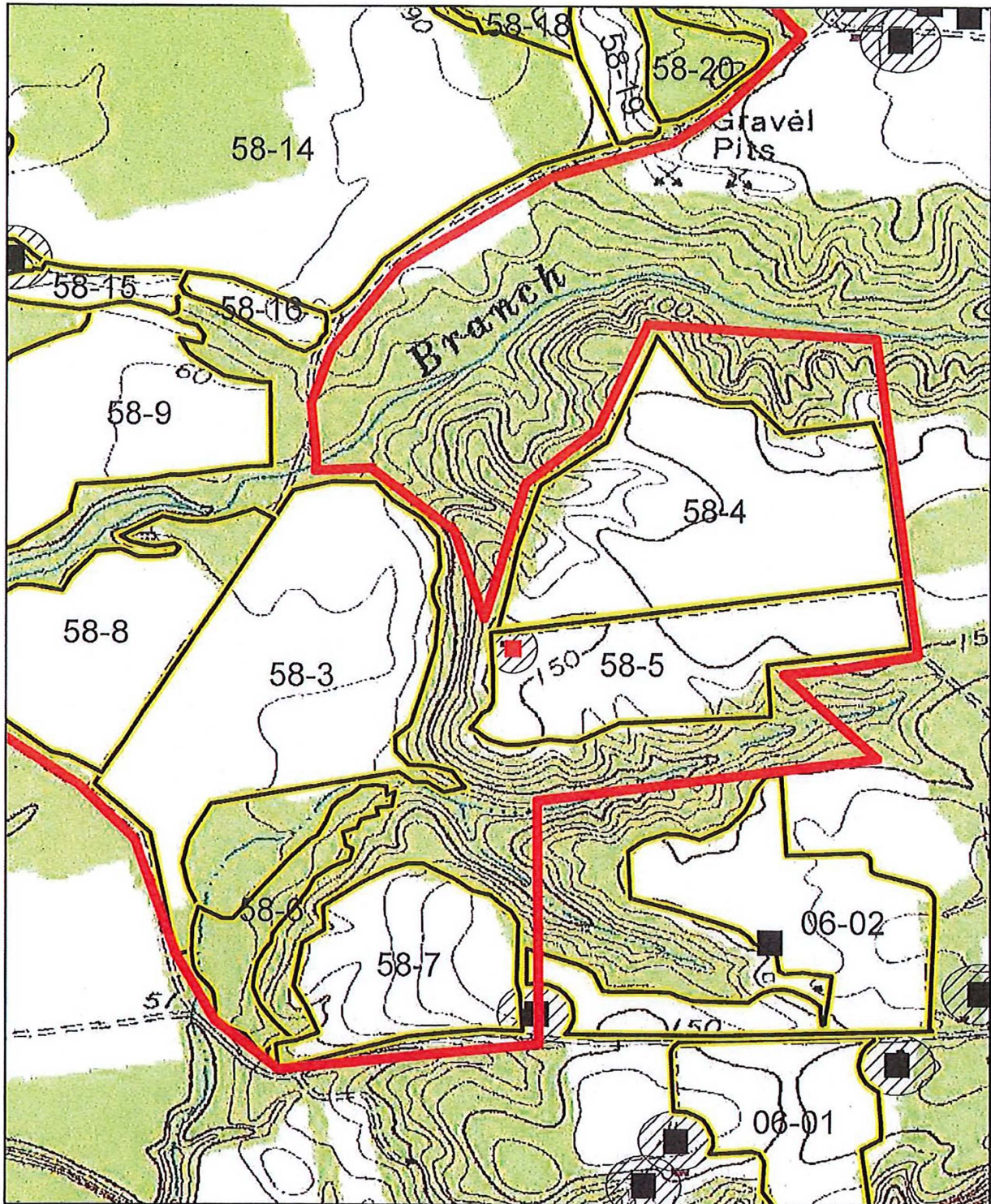
Aerial Map

1:12,000

Revised 4/17/24

SYNAGRO

Phil Minor
KQ 58
Fields 03-07



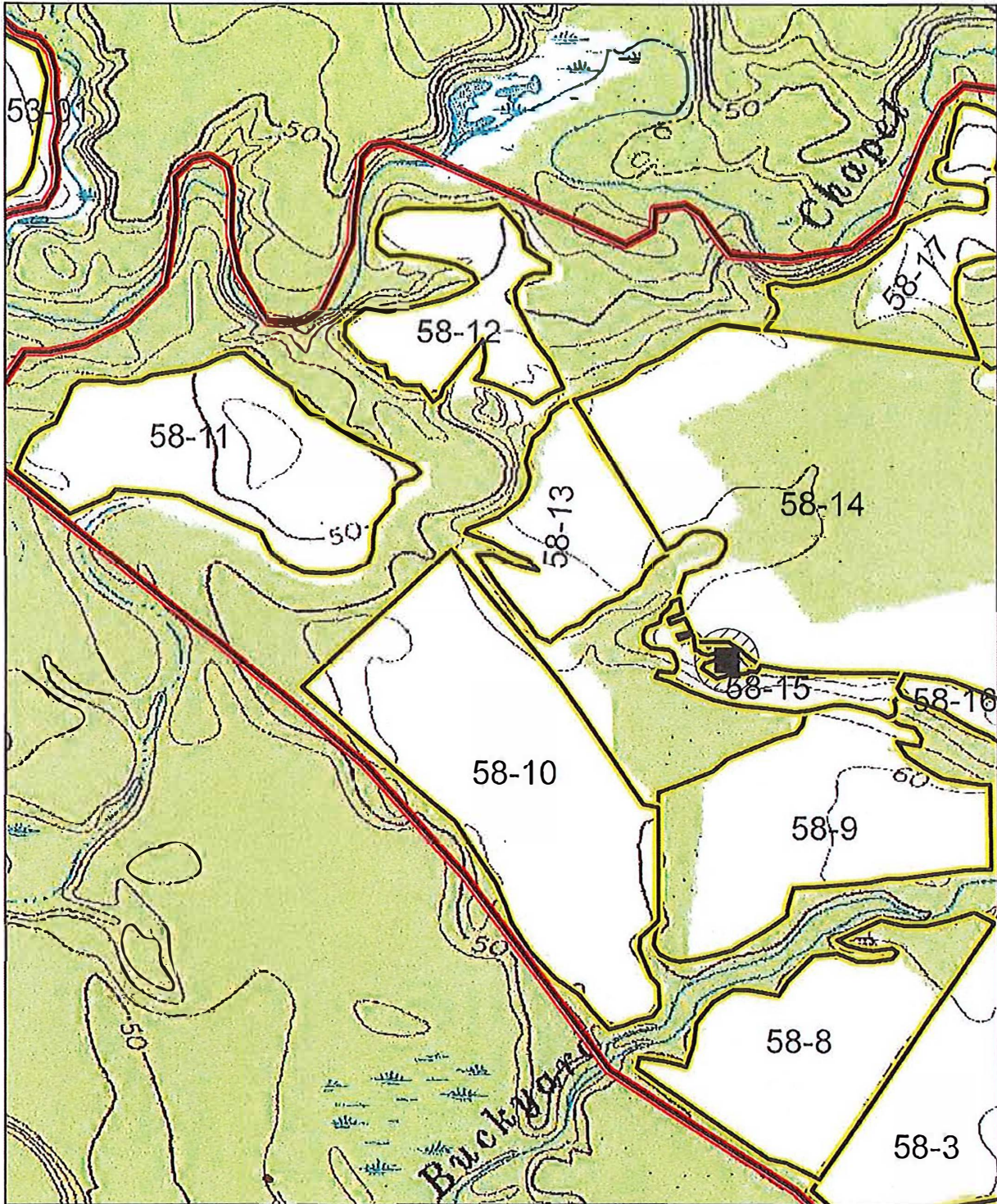
1 inch = 1,000 feet

Field #	Gross Acres	Field #	Gross Acres
58-03	63.4	58-06	11.2
58-04	54.0	58-07	26.9
58-05	32.9		

1:12,000
Rev. 4/17/24

SYNAGRO

Phil Minor
KQ 58
Fields 08-13,15



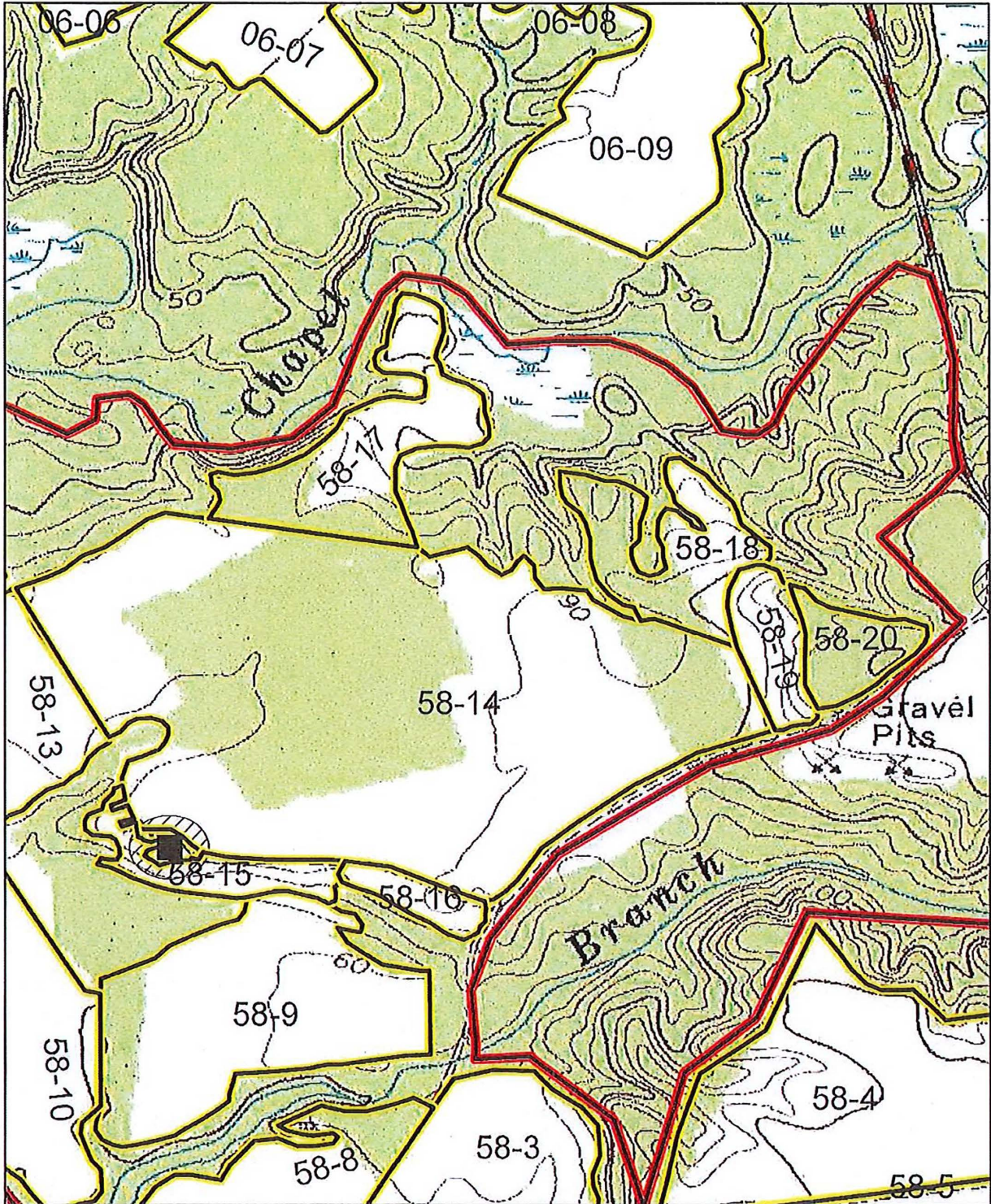
1 inch = 1,000 feet

Field #	Gross Acres	Field #	Gross Acres
58-08	33.4	58-12	18.8
58-09	41.3	58-13	19.3
58-10	60.6	58-15	7.8
58-11	37.9		

1:12,000
Rev 4/17/24

SYNAGRO

Phil Minor
KQ 58
Fields 9,14-20



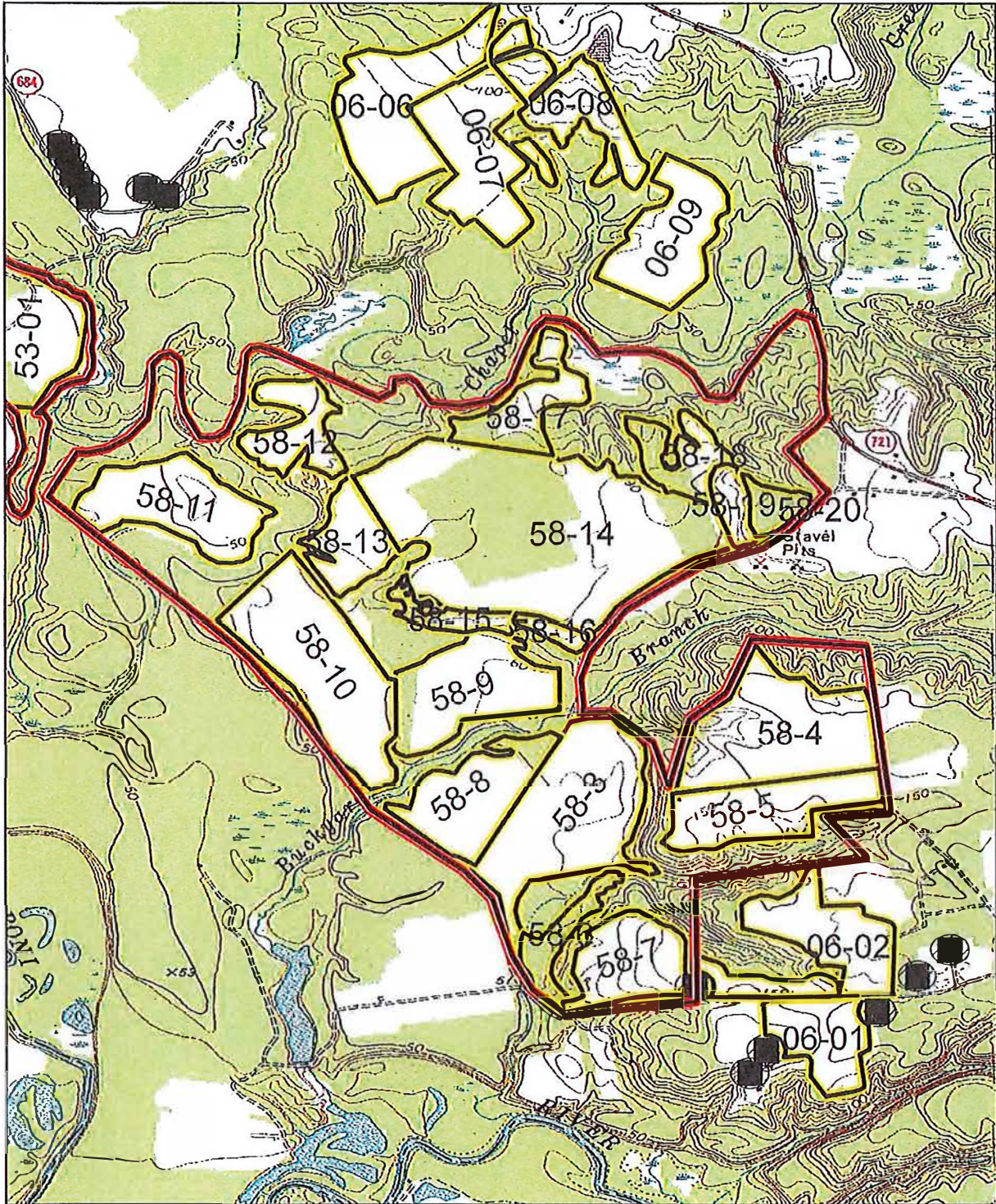
1 inch = 1,000 feet

Field #	Gross Acres	Field #	Gross Acres
58-09	41.3	58-17	21.1
58-14	145.6	58-18	15.8
58-15	7.8	58-19	7.6
58-16	4.1	58-20	7.2

1:12,000
Rev 4/17/24

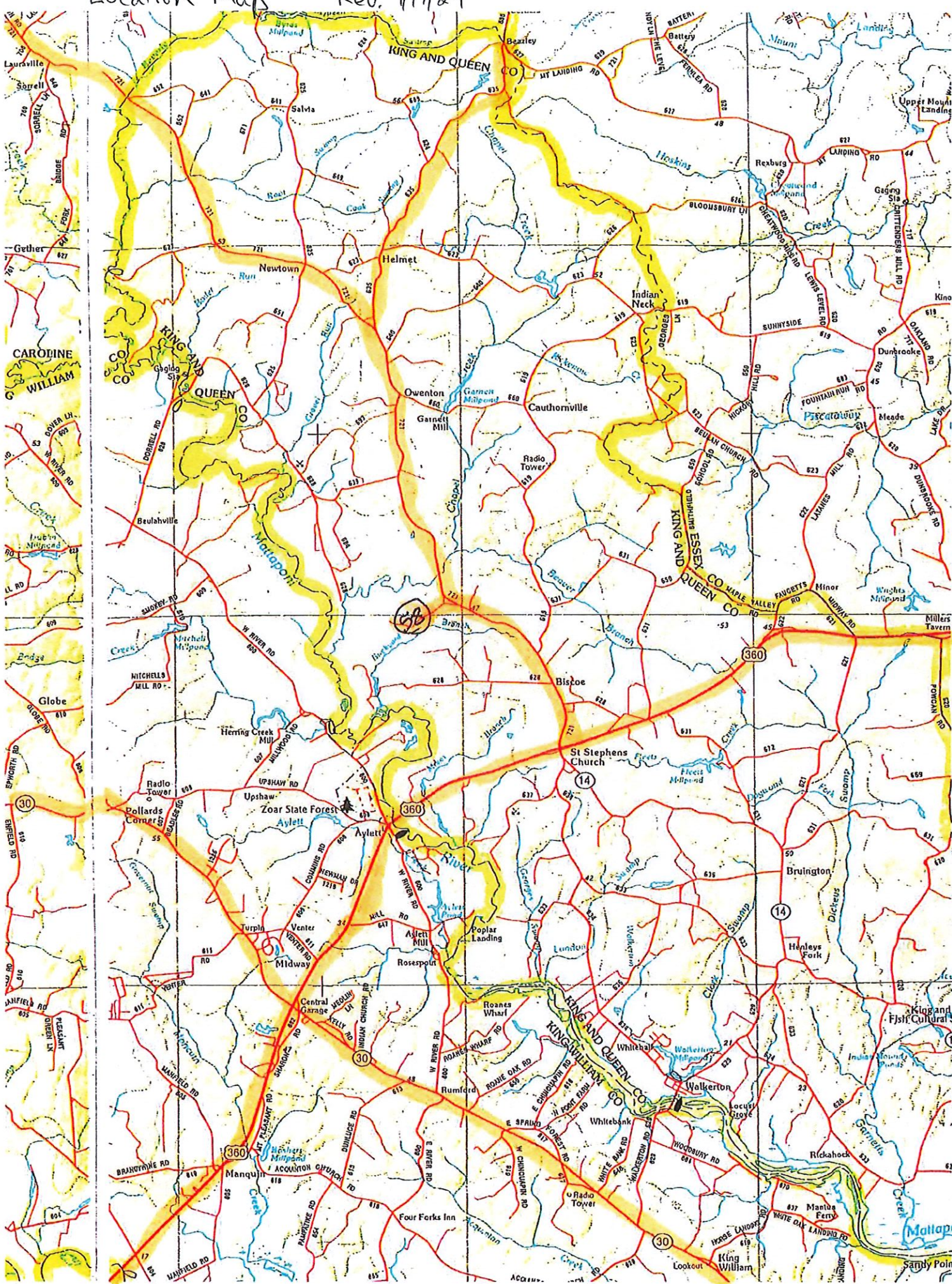
SYNAGRO

Phil Minor
KQ 58
Fields 3-20

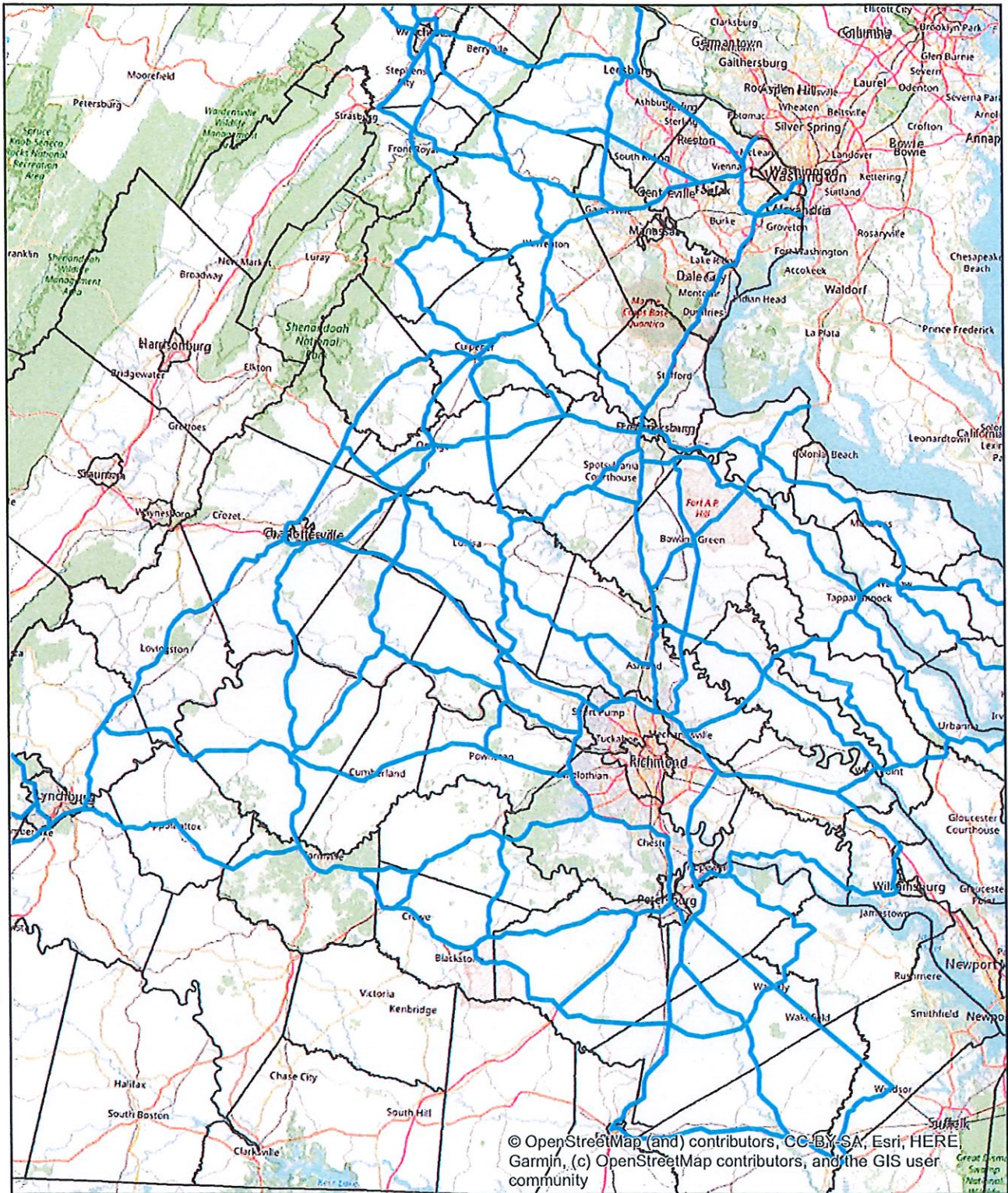


1 inch = 2,000 feet

1:24,000
Rev 4/17/24



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.