

LAND APPLICATION OF BIOSOLIDS  
WILLIAM C. COLEMAN

LO 05 (FIELDS 1-10, 14-17, 21-27,  
31, 33-35)  
LOUISA COUNTY, VIRGINIA  
JUNE 2012





March 8, 2013

Mr. Ed Stuart  
Dept of Environmental Quality  
Northern Virginia Regional Office  
13901 Crown Court  
Woodbridge, VA 22193

Dear Mr. Stuart:

Transmitted herein for your consideration is land application site for William C. Coleman (designated as LO 05, Fields 1-10, 14-17, 21-27, 31, 33, 34 & 35), located in Louisa County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

A handwritten signature in cursive script that reads "Madison K Holsinger".

Madison K Holsinger  
Technical Services Manager

# SYNAGRO

## FIELD SUMMARY SHEET

William C. Coleman

LO05

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FSA FIELD #	TOPO QUAD	OWNER
05-01	15.0	15.0			Mineral	Coleman, William Carson ET ALS
05-02	25.1	23.0			Mineral	Coleman, William Carson ET ALS
05-03	35.5	35.3			Mineral	Coleman, William Carson ET ALS
05-05	19.9	19.8			Mineral	Coleman, William C
05-06	16.0	15.7			Mineral	Coleman, William C
05-07	17.7	15.8			Mineral	Coleman, William C
05-08	24.7	23.7			Mineral	Coleman, William C
05 - 09A	37.8	36.1			Mineral	Coleman, William C Coleman, Nicole L
05 - 09B	9.1	9.1			Mineral	Coleman, William C
05-10	21.6	21.6			Mineral	Coleman, William C
05-14	39.3	39.3			Mineral	Coleman, William Carson
05-15	17.7	17.7			Mineral	Winston Land Corp
05-16	34.1	34.1			Mineral	Winston Land Corp
05-17	46.0	43.7			Mineral	Palmore, William Allen Jr Austin Land and Cattle Company
05-21	36.9	31.9			Mineral Louisa	Wilson, Cary C
05-22	19.8	19.8			Mineral Louisa	Coleman, William C
05-23	19.1	19.1			Mineral Louisa	Coleman, William C
05-24	35.2	34.1			Mineral	Coleman, William C
05-25	45.0	45.0			Mineral	Anderson, Anna C
05-26	13.3	13.2			Mineral	Anderson, Anna C
05-27	14.9	14.0			Mineral	Coleman, Emily Peyton ET ALS
05-31	61.4	61.4			Mineral	Winston Land Corp

<b>SYNAGRO FIELD #</b>	<b>GROSS ACRES</b>	<b>NET ACRES</b>	<b>FSA TRACT #</b>	<b>FSA FIELD #</b>	<b>TOPO QUAD</b>	<b>OWNER</b>
05-33	6.5	5.8			Mineral	Coleman, William C
05-34	10.3	10.3			Mineral	Coleman, William C
05-35	14.4	14.4			Mineral	Coleman, William C
<b>TOTALS:</b>	636.3	618.9				

VIRGINIA POLLUTION ABATEMENT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

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

A. This biosolids/industrial residuals land application agreement is made on 2/3/12 between Jesse R. Austin referred to here as "Landowner", and Superao referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or 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:**

I am the registered owner of real property known as 2014 & 205, located in Louisa Virginia, which includes the agricultural sites identified below in Table 1 and identified on the tax map(s) 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
27-56	27-9	27-63	27-66
27-61	27-12	27-64	27-67
27-22	27-62	27-65	27-68

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

Check one  I am the sole owner of the properties identified herein  
 I am one of multiple owners of the properties identified herein.

In the event that I, the landowner, sell or transfer all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, I shall:

1. Notify the purchaser of the applicable public access and crop management restrictions no later than the closing date, and
2. Notify the permit holder of the sale within two weeks following closing

I have no other agreements for land application on the fields identified herein. I 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

I hereby grant permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. I also grant permission for DEQ staff to conduct inspections on my land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance.

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

Landowner - Printed Name: Jesse R. Austin    Signature: Gene R. Austin    Mailing Address: 3870 Chalk Level Rd Louisa VA 23093  
Austin Land & Cattle Company, Inc.

**Permittee:**

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. Permittee will provide a copy of the NMP to the landowner within 30 days after land application has commenced. If the plan requires modification to reflect the actual application rates or farming practices at the site, a revised plan will be provided within 2 weeks of the modification.

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

Permittee - Authorized Representative: Lee C. Ross    Signature: Lee C. Ross    Mailing Address: 10647 Tidewater Trail Champlain, VA 22438  
Printed Name

VIRGINIA POLLUTION ABATEMENT APPLICATION  
PART D-VI LAND APPLICATION AGREEMENT

Page 2 of 2

Permittee: Synagro

Permit # or County: Louisa

Landowner: Jesse R Austin

Farm name or address: 3870 Chalk Level Rd  
LOUISA VA 23093

**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, at least 30 days after land application at that site was 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 the permitting authority.
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).
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 landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Jesse R Austin  
Landowner's Signature

02/03/12  
Date

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

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

A. This biosolids/industrial residuals land application agreement is made on 2/28/12 between Coleman referred to here as "Landowner", and Synagro referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or 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:**

I am the registered owner of real property known as LO-5, located in Louisa Virginia, which includes the agricultural sites identified below in Table 1 and identified on the tax map(s) 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
15-13	See Tax Id. Sheet in site Book		
13-84			
15-28			

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

Check one  I am the sole owner of the properties identified herein.  
 I am one of multiple owners of the properties identified herein.

In the event that I, the landowner, sell or transfer all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, I shall:

1. Notify the purchaser of the applicable public access and crop management restrictions no later than the closing date; and
2. Notify the permit holder of the sale within two weeks following closing.

I have no other agreements for land application on the fields identified herein. I 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.

I hereby grant permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. I also grant permission for DEQ staff to conduct inspections on my land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance.

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

Will Coleman 824 Winston Drive  
 Landowner - Printed Name Signature Mailing Address  
Louisa, VA 23093

**Permittee:**

Synagro, 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. Permittee will provide a copy of the NMP to the landowner within 30 days after land application has commenced. If the plan requires modification to reflect the actual application rates or farming practices at the site, a revised plan will be provided within 2 weeks of the modification.

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

Will Coleman 2/28/12  
 Permittee - Authorized Representative Signature Mailing Address  
 Printed Name

Heri C. Plessner  
Synagro

Permittee: Synagro

Permit # or County: Louisa

Landowner: Will C. Coleman

Farm name or address: \_\_\_\_\_

**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, at least 30 days after land application at that site was 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 the permitting authority.
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).
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 landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Will Coleman  
Landowner's Signature

2/29/12  
Date

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

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

A. This biosolids/industrial residuals land application agreement is made on 3/1/12 between Coleman referred to here as "Landowner", and Synagro referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or 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:**

I am the registered owner of real property known as LO-5, located in Louisa Virginia, which includes the agricultural sites identified below in Table 1 and identified on the tax map(s) 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
15-13A	See Tax Id. sheet in	Book.	
15-13			

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

Check one

- I am the sole owner of the properties identified herein  
 I am one of multiple owners of the properties identified herein

In the event that I, the landowner, sell or transfer all or part of the property to which biosolids have been applied within 36 months of the latest date of biosolids application, I shall:

1. Notify the purchaser of the applicable public access and crop management restrictions no later than the closing date, and
2. Notify the permit holder of the sale within two weeks following closing.

I have no other agreements for land application on the fields identified herein. I 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.

I hereby grant permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. I also grant permission for DEQ staff to conduct inspections on my land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance.

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

William C. Coleman    Nicole Coleman    814 Winston Rd  
 Landowner - Printed Name    Signature    Mailing Address    Louisa VA 23098

**Permittee:**

Synagro, 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. Permittee will provide a copy of the NMP to the landowner within 30 days after land application has commenced. If the plan requires modification to reflect the actual application rates or farming practices at the site, a revised plan will be provided within 2 weeks of the modification.

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

Lee C. Ross    10647 Tidewater Trail  
 Permittee - Authorized Representative    Signature    Mailing Address    Champlain, VA 22438  
 Printed Name

Permittee: Synagro

Permit # or County: Louisa

Landowner: Coleman

Farm name or address: LO-5

**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, at least 30 days after land application at that site was 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 the permitting authority
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).
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 landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare)

William C. Coleman & Nicole H. Coleman  
Landowner's Signature

3/1/12  
Date



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

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

A. This biosolids/industrial residuals land application agreement is made on 3/1/12 between Wilson referred to here as "Landowner", and Synagro referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or 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:**

I am the registered owner of real property known as LO-5, located in Louisa Virginia, which includes the agricultural sites identified below in Table 1 and identified on the tax map(s) 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
<u>25-89</u>	<u>See</u>	<u>Tax ID</u>	<u>sheet in site Book</u>

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

Check one

- I am the sole owner of the properties identified herein.  
 I am one of multiple owners of the properties identified herein.

In the event that I, the landowner, sell or transfer all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, I shall

1. Notify the purchaser of the applicable public access and crop management restrictions no later than the closing date; and
2. Notify the permit holder of the sale within two weeks following closing

I have no other agreements for land application on the fields identified herein. I 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

I hereby grant permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. I also grant permission for DEQ staff to conduct inspections on my land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance.

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

Cory Wilson  
 Landowner - Printed Name

Cory Wilson  
 Signature

2011 Ellisville Dr  
 Mailing Address  
Louisa VA 23093

**Permittee:**

Synagro, 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. Permittee will provide a copy of the NMP to the landowner within 30 days after land application has commenced. If the plan requires modification to reflect the actual application rates or farming practices at the site, a revised plan will be provided within 2 weeks of the modification.

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

Lee Ross  
 Permittee - Authorized Representative  
 Printed Name

Signature

10647 Tidewater Trail  
Champlain, VA 22438  
 Mailing Address

Permittee: SyNagro

Permit # or County: Louisa

Landowner: Wilson

Farm name or address: LO-5

**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, at least 30 days after land application at that site was 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 the permitting authority.
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).
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 landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare)

Cary Wilson  
Landowner's Signature

3/1/12  
Date



Permittee: Synagro  
Landowner: Anderson

Permit # or County: Louisa  
Farm name or address: LO-5

**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, at least 30 days after land application at that site was 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 the permitting authority.
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).
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 landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Anna Anderson  
Landowner's Signature

3/1/12  
Date

VIRGINIA POLLUTION ABATEMENT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

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

A. This biosolids/industrial residuals land application agreement is made on 3/1/12 between MAY referred to here as "Landowner", and SYNAGRO referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or 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:**

I am the registered owner of real property known as LO-5 located in LOUISA Virginia, which includes the agricultural sites identified below in Table 1 and identified on the tax map(s) 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
<u>See Tax Id. Sheet in site Book.</u>			
<u>15-5A</u>			

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

Check one:  I am the sole owner of the properties identified herein  
 I am one of multiple owners of the properties identified herein

In the event that I, the landowner, sell or transfer all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, I shall

1. Notify the purchaser of the applicable public access and crop management restrictions no later than the closing date, and
2. Notify the permit holder of the sale within two weeks following closing

I have no other agreements for land application on the fields identified herein. I 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.

I hereby grant permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. I also grant permission for DEQ staff to conduct inspections on my land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance.

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

Landowner - Printed Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

**Permittee:**

SYNAGRO 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. Permittee will provide a copy of the NMP to the landowner within 30 days after land application has commenced. If the plan requires modification to reflect the actual application rates or farming practices at the site, a revised plan will be provided within 2 weeks of the modification.

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

Kenneth E. Emily May    [Signature]    795 Westover Rd  
 Permittee - Authorized Representative    Signature    Mailing Address  
 Printed Name

See C. Rossor  
SYNAGRO

VIRGINIA POLLUTION ABATEMENT APPLICATION  
PART D-VI LAND APPLICATION AGREEMENT

Page 2 of 2

Permittee: Synagro

Permit # or County: Louisa

Landowner: MAY

Farm name or address: LO-5

**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, at least 30 days after land application at that site was 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 the permitting authority.
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).
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 landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare)

Emily C May  
Landowner's Signature

Emily C May

3/1/12  
Date

### Multiple Owner Coordination Form

Where there are multiple owners, this form is used by the Permittee to identify properties that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those properties. 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  
 County: Louisa  
 Farm name/address: LD-05

Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
15-5	41-231	13-84	26-18-2
15-13	41-232	14-38	26-18-1
15-5A	41-233	14-3	15-12
15-28	26-7A	26-18-3	
15-19	26-7B	26-18-4	
16-6	25-89	26-18-5	

Additional Land Application Sites are identified on Supplement B (check if applicable)

Legal landowners of properties authorized to receive biosolids and/or industrial residuals

William C. Coleman 824 Winston Rd Louisa VA  
 Landowner - Printed Name Mailing Address

Emily C. + Kevin K May Winston Rd Louisa  
 Landowner - Printed Name Mailing Address

Nicole L. Coleman 824 Winston Rd Louisa  
 Landowner - Printed Name Mailing Address

Winston Land Corp Winston Rd Louisa VA  
 Landowner - Printed Name Mailing Address

\_\_\_\_\_  
 Landowner - Printed Name Mailing Address

Austin Land + Cattle Company 3870 Chalk Level Rd Louisa VA  
 Landowner - Printed Name Mailing Address

\_\_\_\_\_  
 Landowner - Printed Name Mailing Address

Additional Land owners are identified on Supplement B (check if applicable)

## Tax ID Landowner Identification Sheet

<u>Landowner</u>	<u>Field #</u>	<u>Tax ID</u>
COLEMAN, WILLIAM CARSON ET ALS	05-01	15 - 5
COLEMAN, WILLIAM CARSON ET ALS	05-02	15 - 5
COLEMAN, WILLIAM CARSON ET ALS	05-03	15 - 5, 13
MAY, KEVIN K & EMILY C	05-04	15 - 5A
COLEMAN, WILLIAM C	05-05	15 - 13
COLEMAN, WILLIAM C	05-06	15 - 13
COLEMAN, WILLIAM C	05-07	15 - 13
COLEMAN, WILLIAM C	05-08	15 - 13
COLEMAN, NICOLE L	05-09A	15 - 13A
COLEMAN, WILLIAM C		15 - 13
COLEMAN, WILLIAM C	05-09B	15 - 13
COLEMAN, WILLIAM C	05-10	15 - 13
COLEMAN, WILLIAM CARSON	05-14	15 - 28
WINSTON LAND CORP	05-15	15 - 19
WINSTON LAND CORP	05-16	16 - 6
AUSTIN LAND AND CATTLE COMPANY INC	05-17	41 - 231 41 - 232, 233
WILSON, CARY C	05-21	25 - 89
COLEMAN, WILLIAM C	05-22	13 - 84
COLEMAN, WILLIAM C	05-23	13 - 84
COLEMAN, WILLIAM C	05-24	13 - 84
ANDERSON, ANNA C	05-25	14 - 38
ANDERSON, ANNA C	05-26	14 - 38

<u>Landowner</u>	<u>Field #</u>	<u>Tax ID</u>
COLEMAN, EMILY PEYTON ET ALS	05-27	14 - 3
WINSTON LAND CORP	05-31	16 - 6
COLEMAN, WILLIAM C	05-33	15 - 13
COLEMAN, WILLIAM C	05-34	15 - 12
COLEMAN, WILLIAM C	05-35	14 - 32

<b>Field #</b>	<b>Latitude (n<sup>o</sup>rth)</b>	<b>L<sup>o</sup>ngitude (west)</b>
05-01	38° 05' 35.94"	77° 56' 57.77"
05-02	38° 05' 45.49"	77° 56' 48.67"
05-03	38° 05' 58.05"	77° 56' 38.65"
05-04	38° 06' 16.47"	77° 56' 54.58"
05-05	38° 05' 59.68"	77° 56' 08.15"
05-06	38° 06' 06.92"	77° 56' 19.76"
05-07	38° 06' 08.49"	77° 56' 07.05"
05-08	38° 06' 21.40"	77° 56' 11.22"
05 - 09A	38° 06' 23.08"	77° 56' 22.25"
05 - 09B	38° 06' 13.58"	77° 56' 25.56"
05-10	38° 06' 16.42"	77° 56' 33.42"
05-14	38° 05' 17.59"	77° 55' 25.16"
05-15	38° 05' 52.12"	77° 55' 01.21"
05-16	38° 06' 13.80"	77° 55' 02.15"
05-17	38° 01' 18.05"	77° 57' 35.06"
05-21	38° 03' 31.69"	78° 00' 17.18"
05-22	38° 05' 45.13"	77° 59' 54.89"
05-23	38° 05' 48.55"	77° 59' 55.81"
05-24	38° 05' 54.36"	77° 59' 57.51"
05-25	38° 05' 10.04"	77° 58' 32.14"
05-26	38° 05' 20.01"	77° 58' 15.37"
05-27	38° 07' 13.49"	77° 59' 34.12"
05-28	38° 03' 58.97"	77° 57' 57.94"
05-30	38° 04' 11.09"	77° 57' 41.58"
05-31	38° 06' 06.72"	77° 54' 55.13"
05-33	38° 06' 13.63"	77° 56' 05.14"
05-34	38° 05' 46.12"	77° 56' 14.96"
05-35	38° 05' 45.13"	77° 59' 54.89"



TAX MAP ID 15-5A



Scale: 1:9027.977411

Date: 08/14/2014

Printed By: Carolanne Whiteside

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TAX MAP ID 15-13, 13A



Scale: 1:18055.954822

Date: 08/14/2014

Printed By: Carolanne Whiteside

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TAX MAP ID 15-5



Scale: 1:18055.954822

Date: 08/14/2014

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TAX MAP ID 15-12



Scale: 1:18055.954822

Date: 08/15/2014

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TAX MAP ID 15-19



Scale: 1:9027.977411

Date: 08/15/2014

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TAX MAP ID 15-28



Scale: 1:9027.977411

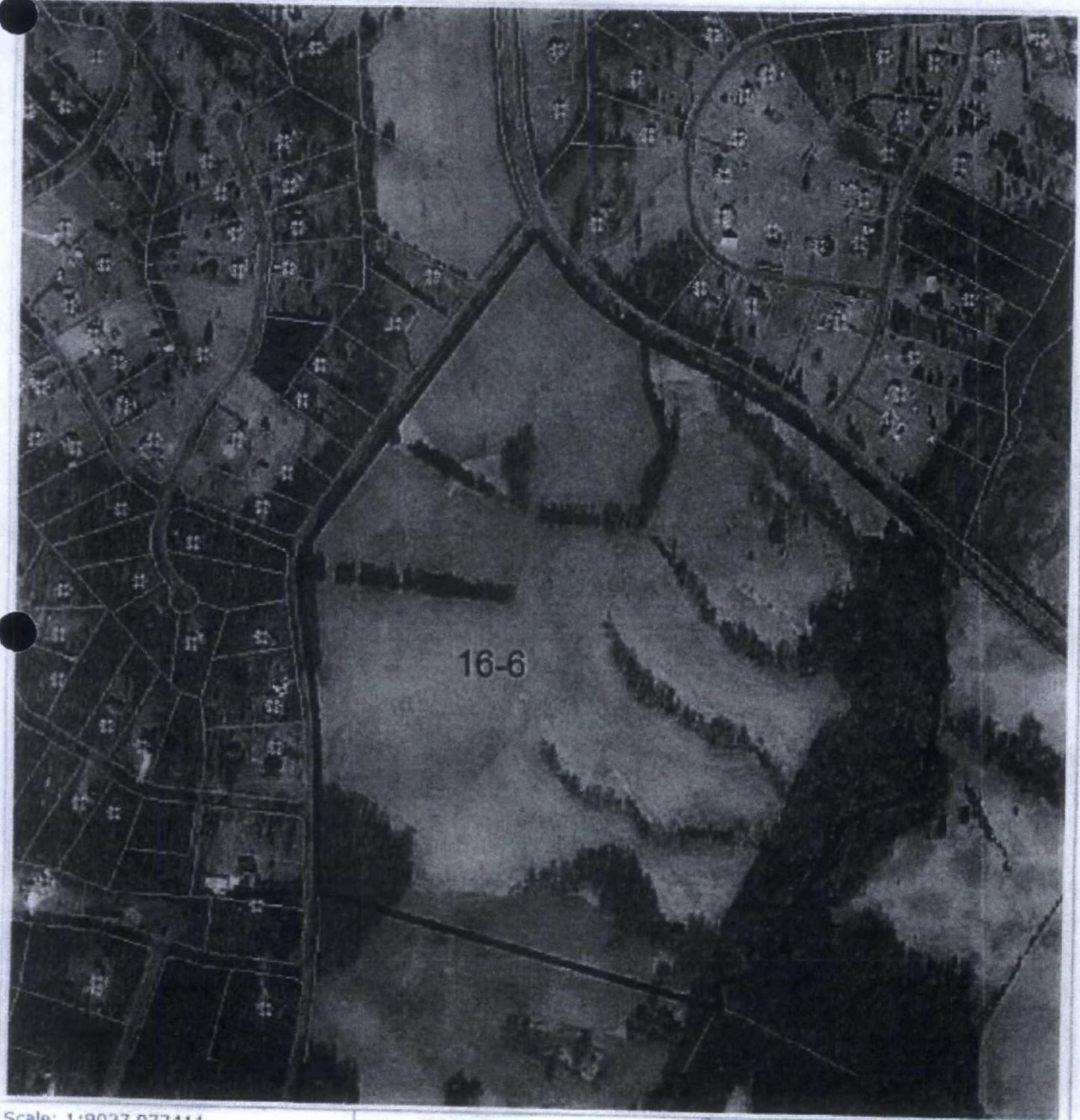
Date: 08/15/2014

Printed By: Carolanne Whiteside

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Tax Map ID 16-6



Scale: 1:9027.977411

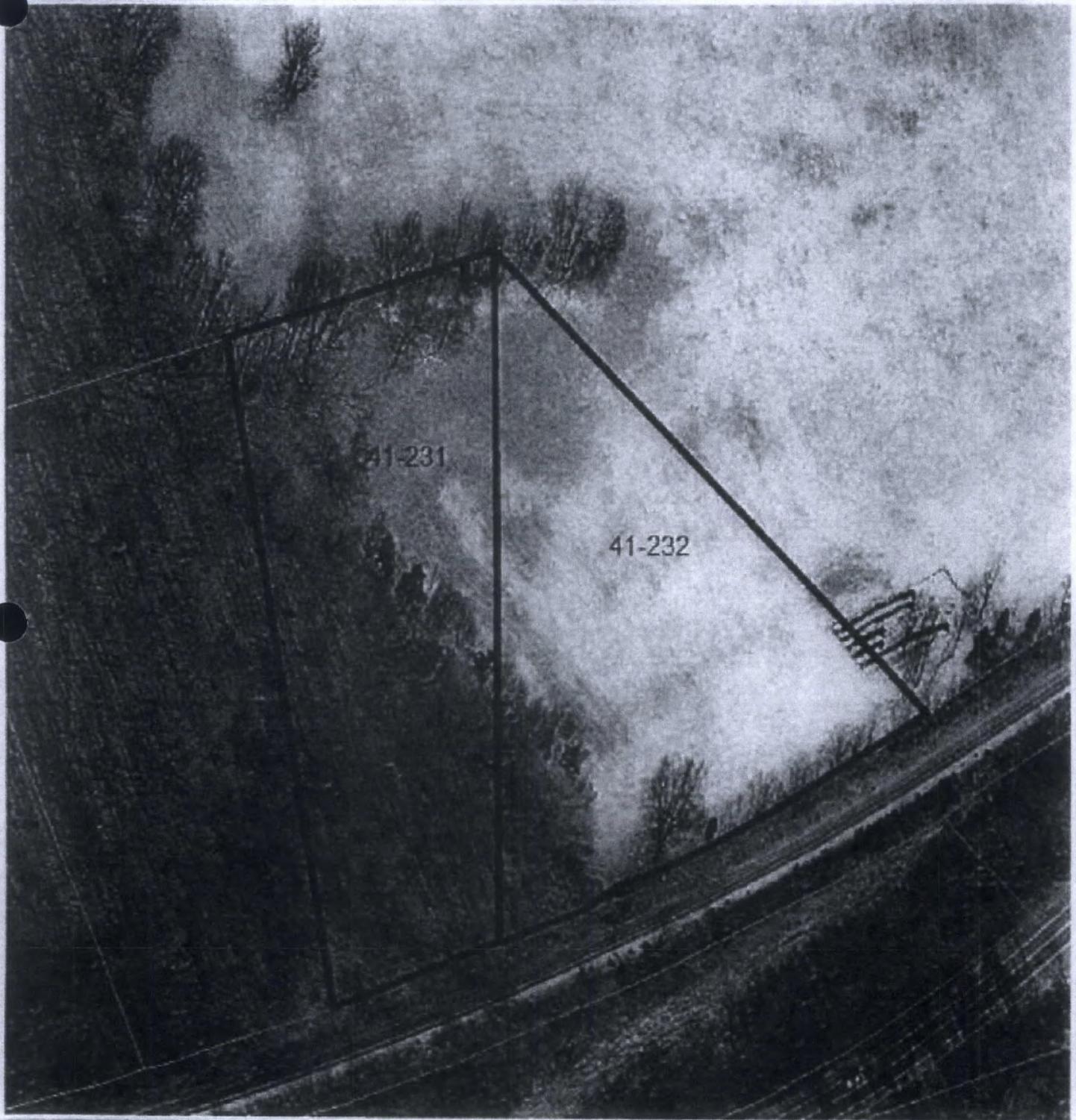
Date: 05/03/2012

Printed By:

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Tax Map ID41-231, 232



Scale: 1:2256.994353

Date: 05/03/2012

Printed By:

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Tax Map ID41-233



Scale: 1:18055.954822

Date: 05/03/2012

Printed By:

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Tax Map ID 25-89



Scale: 1:18055.954822

Date: 05/03/2012

Printed By:

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Tax Map ID 13-84



Scale: 1:9027,977411

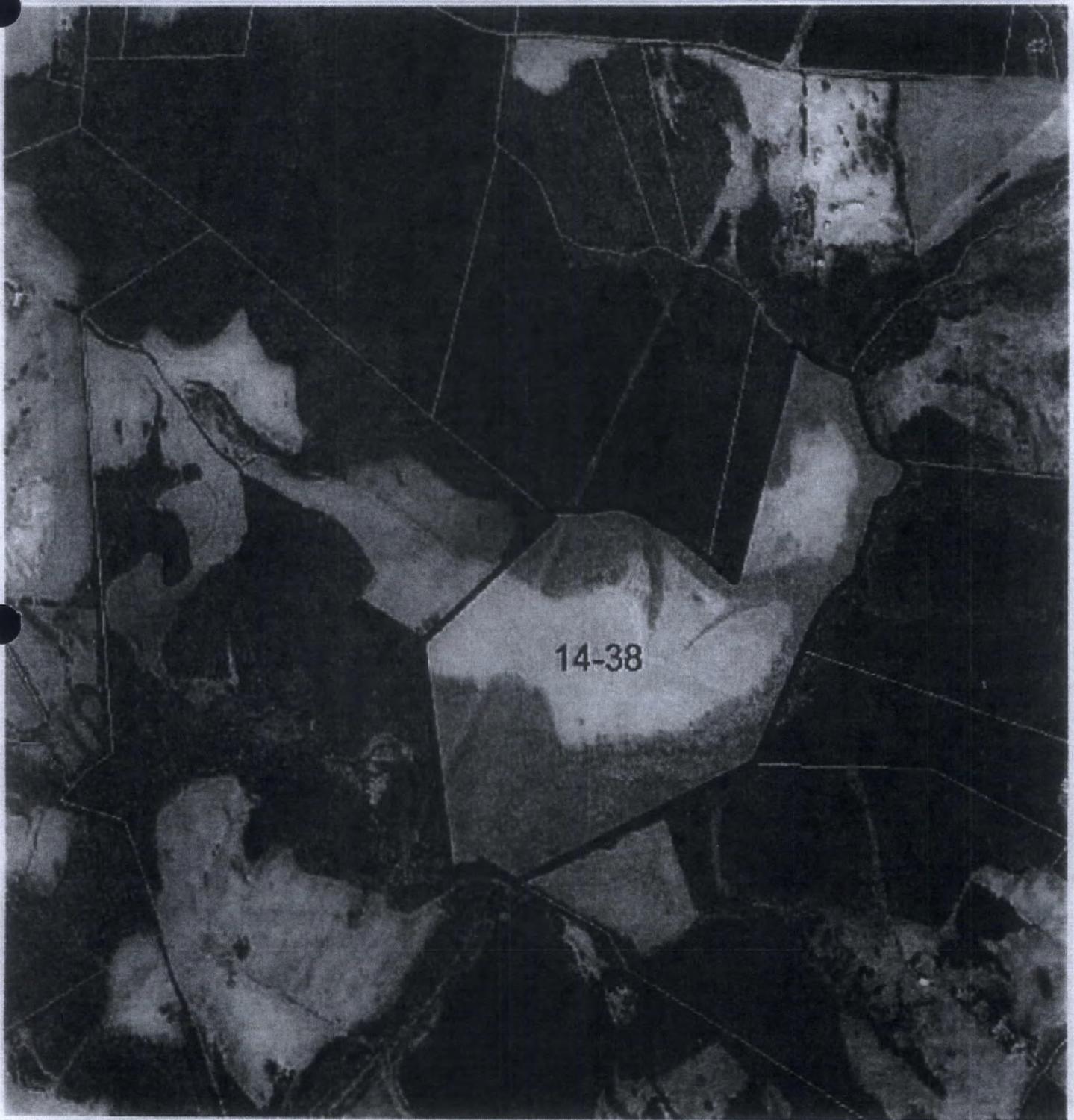
Date: 05/03/2012

Printed By:

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Tax Map ID 14-38



14-38

Scale: 1:18055.954822

Date: 05/03/2012

Printed By:

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Tax Map ID 14-3



Scale: 1:9027.977411

Date: 05/03/2012

Printed By:

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Tax Map ID 16-6



Scale: 1:9027,977411

Date: 05/21/2012

Printed By: Carolanne Whiteside

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Tax Map ID 14-32

LO5-35



Scale: 1:9027.977411

Date: 05/23/2012

Printed By: Carolanne Whiteside

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# Farm Summary Report

Plan: New Plan Fall, 2010 - Winter, 2013

Farm Name: LO 05  
Location: Louisa  
Specialist: Bill Rogers  
N-based Acres: 830.1  
P-based Acres: 0.0

Tract Name: LO 05  
FSA Number: 0  
Location: Louisa

Field Name: 05-01  
Total Acres: 15.00 Usable Acres: 15.00  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
31	MdB3	Madison
25	MdC3	Madison
12	GvC3	Grover
11	GrB2	Grover
8	GrC2	Grover
7	AbB	Abell
6	MaB2	Madison

## Field Warnings:

## Crop Rotation:

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

**Field Name: 05-02**

Total Acres: 25.10 Usable Acres: 23.00  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
33	GvC3	Grover
27	GrC2	Grover
15	AsC	Ashlar
14	AnB2	Appling
11	MdB3	Madison

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-03  
Total Acres: 35.50 Usable Acres: 35.50  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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

**Field Narrative:**

On portions of the field containing Iredell sandy loam (IdB2), the seasonal high water table may be within 18 inches of the soil surface during the months of December - April. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
23	GrC2	Grover
19	GrB2	Grover
15	IdB2	Iredell
14	MaB2	Madison
12	GvB3	Grover
6	CfC3	Cecil Pacolet
6	AsC	Ashlar
5	AnB2	Appling

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-04  
Total Acres: 31.90 Usable Acres: 30.70  
FSA Number: -/-  
Tract: LO 05  
Location: Louisa  
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
64	AsC Ashlar	
14	GrB2 Grover	
13	GrC2 Grover	
9	AbB Abell	

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

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

**Crop Rotation:**

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

**Field Name: 05-05**

Total Acres: 19.90 Usable Acres: 19.80

FSA Number: -/-

Tract: LO 05

Location: Louisa

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
47	GrB2	Grover
37	GvC3	Grover
16	AbB	Abell

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-06  
Total Acres: 16.00 Usable Acres: 15.70  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
59	GvC3	Grover
23	AsC	Ashlar
18	GvB3	Grover

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-07  
Total Acres: 17.70 Usable Acres: 15.80  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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

**Field Narrative:**

On portions of the field containing Wehadkee silt loam (We), the seasonal high water table may be within 18 inches of the soil surface during the months of November - May. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

Wehadkee silt loam (We) is a soil type identified by USDA as being frequently flooded during the months of November - June. All biosolids applied to portions of the field containing this soil type must be incorporated within 48 hours of application, during the above stated period.

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
50	GvC3	Grover
29	AsC	Ashlar
16	GrB2	Grover
5	We	Wehadkee

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

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

*Soils with perent slope in excess of 15%*

**Crop Rotation:**

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

**Field Name:** 05-08  
Total Acres: 24.70 Usable Acres: 23.70  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
70	GvC3	Grover
30	GrB2	Grover

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-09A  
Total Acres: 37.80 Usable Acres: 36.10  
FSA Number: -/-  
Tract: LO 05  
Location: Louisa  
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
53	AsC	Ashlar
21	GrC2	Grover
21	GvC3	Grover
5	GrB2	Grover

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

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

**Crop Rotation:**

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

**Field Name: 05-09B**

Total Acres: 9.10 Usable Acres: 9.10

FSA Number: -/-

Tract: LO 05

Location: Louisa

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
75	GvC3	Grover
25	GvB3	Grover

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-10  
Total Acres: 21.60 Usable Acres: 21.60  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
55	GvC3	Grover
16	AsC	Ashlar
13	MdB3	Madison
9	GrB2	Grover
7	GvB3	Grover

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-11  
Total Acres: 30.00 Usable Acres: 28.50  
FSA Number: -/-  
Tract: LO 05  
Location: Louisa  
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
43	AsC	Ashlar
35	GvC3	Grover
13	GrB2	Grover
9	MaB2	Madison

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

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

**Crop Rotation:**

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

**Field Name: 05-12**

Total Acres: 5.00 Usable Acres: 4.90  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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	MaB2	Madison
45	AsC	Ashlar
5	AsB	Ashlar

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

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

**Crop Rotation:**

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

**Field Name: 05-13**

Total Acres: 35.40 Usable Acres: 35.30  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
33	GrB2	Grover
21	MdC3	Madison
18	GvC3	Grover
14	MdB3	Madison
14	GrC2	Grover

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-14  
Total Acres: 39.30 Usable Acres: 39.30  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
35	AnB2	Appling
21	GvC3	Grover
14	MdB3	Madison
10	GrB2	Grover
7	DuB	Durham
7	AsC	Ashlar
6	GrC2	Grover

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-15  
Total Acres: 17.70 Usable Acres: 17.70  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
46	GrC2	Grover
32	GrB2	Grover
15	MaB2	Madison
7	AsC	Ashlar

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-16  
Total Acres: 34.10 Usable Acres: 34.10  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
45	GrC2	Grover
18	GrB2	Grover
14	MaB2	Madison
13	CcB2	Cecil
5	AsC	Ashlar
5	GvB3	Grover

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-17  
Total Acres: 46.00 Usable Acres: 43.70  
FSA Number: -/-  
Tract: LO 05  
Location: Louisa  
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

**Field Narrative:**

On portions of the field containing Lignum loam (LgB), the seasonal high water table may be within 18 inches of the soil surface during the months of December - May. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
36	NoB2	Nason
34	NoC2	Nason
12	LgB	Lignum
11	RoB	Roanoke
7	TaB2	Tatum

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-18  
Total Acres: 43.10 Usable Acres: 40.70  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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

**Field Narrative:**

On portions of the field containing Lignum loam (LgB), the seasonal high water table may be within 18 inches of the soil surface during the months of December - May. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
37	FrB Fork	
21	LgB Lignum	
20	NoB2 Nason	
8	AIB Altavista	
7	TaB2 Tatum	
7	TaC2 Tatum	

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-20  
Total Acres: 17.60 Usable Acres: 15.50  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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

**Field Narrative:**

On portions of the field containing Worsham fine sandy loam (WoB), the seasonal high water table may be within 18 inches of the soil surface during the months of November - May. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
51	MdC3	Madison
33	GrC2	Grover
16	WoB	Worsham

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-21  
Total Acres: 36.90 Usable Acres: 31.90  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
36	GrC2	Grover
19	GrB2	Grover
17	MaB2	Madison
14	MaC2	Madison
14	AsC	Ashlar

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-22  
Total Acres: 19.80 Usable Acres: 19.80  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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

**Field Narrative:**

On portions of the field containing Colfax fine sandy loam (CIB), the seasonal high water table may be within 18 inches of the soil surface during the months of November - June. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
68	GrB2	Grover
19	CIB	Colfax
8	AbB	Abell
5	MaB2	Madison

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-23  
Total Acres: 19.10 Usable Acres: 19.10  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
40	MaB2	Madison
33	GrB2	Grover
16	AbB	Abell
6	GrC2	Grover
5	AsC3	Ashlar

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-24  
Total Acres: 35.20 Usable Acres: 34.10  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
55	GrC2	Grover
39	GrB2	Grover
6	MaB2	Madison

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-25  
Total Acres: 45.00 Usable Acres: 45.00  
FSA Number: -/-  
Tract: LO 05  
Location: Louisa  
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
24	GrB2	Grover
21	GrC2	Grover
21	MaB2	Madison
15	SeC	Sekil
7	AsC	Ashlar
7	GvB3	Grover
5	AIB	Altavista

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-26  
Total Acres: 13.30 Usable Acres: 13.20  
FSA Number: -/-  
Tract: LO 05  
Location: Louisa  
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
39	GrB2	Grover
39	MdB3	Madison
22	MdC3	Madison

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-27  
Total Acres: 14.90 Usable Acres: 14.00  
FSA Number: -/-  
Tract: LO 05  
Location: Louisa  
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

**Field Narrative:**

On portions of the field containing Wehadkee-Chewacla complex (WH), the seasonal high water table may be within 18 inches of the soil surface during the months of November - May. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

Wehadkee-Chewacla complex (WH) is a soil type identified by USDA as being frequently flooded during the months of November - June. All biosolids applied to portions of the field containing this soil type must be incorporated within 48 hours of application, during the above stated period.

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
34	MaB2	Madison
21	MaC2	Madison
19	WH	Chewacla Wehadkee
17	GrC2	Grover
9	MsB2	Masada

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-28  
Total Acres: 22.60 Usable Acres: 18.80  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
67	AnB2	Appling
28	GrC2	Grover
5	MdC3	Madison

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-30  
 Total Acres: 53.00 Usable Acres: 51.00  
 FSA Number: -/  
 Tract: LO 05  
 Location: Louisa  
 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

**Field Narrative:**

On portions of the field containing Wehadkee-Chewacla complex (WH), the seasonal high water table may be within 18 inches of the soil surface during the months of November - May. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

Wehadkee-Chewacla complex (WH) is a soil type identified by USDA as being frequently flooded during the months of November - June. All biosolids applied to portions of the field containing this soil type must be incorporated within 48 hours of application, during the above stated period.

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
20	Av	Ashlar Manteo
20	AsC3	Ashlar
19	AsC	Ashlar
17	AnB2	Appling
8	MdB3	Madison
6	WH	Chewacla Wehadkee
5	MaB2	Madison
5	GvC3	Grover

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

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

*Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock*

**Crop Rotation:**

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

**Field Name:** 05-31  
Total Acres: 61.40 Usable Acres: 61.40  
FSA Number: -/-  
Tract: LO 05  
Location: Louisa  
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
47	GrC2	Grover
31	GrB2	Grover
17	AsC	Ashlar
5	MaB2	Madison

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-33  
Total Acres: 6.50 Usable Acres: 5.80  
FSA Number: -/  
Tract: LO 05  
Location: Louisa  
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
93	GvC3	Grover
7	GrB2	Grover

**Field Warnings:**

**Crop Rotation:**

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

**Field Name:** 05-34  
Total Acres: 10.30 Usable Acres: 10.30  
FSA Number: -/-  
Tract: LO 05  
Location: Louisa  
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
52	GrC2	Grover
48	GrB2	Grover

**Field Warnings:**

**Crop Rotation:**

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

## Environmentally Sensitive Areas

Field	Reason for Sensitive Area
5-1	None
5-2	Leaching Potential (Map Unit AsC – 15%)
5-3	High Water Table (Map Unit IdB2 – 15%) Leaching Potential (Map Unit AsC – 6%)
5-5	None
5-6	Leaching Potential (Map Unit AsC – 23%)
5-7	High Water Table (Map Unit We – 5%) Flooded Soils (Map Unit We – 5%) Leaching Potential (Map Unit AsC – 29%)
5-8	None
5-9A	Leaching Potential (Map Unit AsC – 53%)
5-9B	None
5-10	Leaching Potential (Map Unit AsC – 16%)
5-14	Leaching Potential (Map Unit AsC – 7%)
5-15	Leaching Potential (Map Unit AsC – 5%)
5-16	Leaching Potential (Map Unit AsC – 5%)
5-17	High Water Table (Map Unit LgB – 12%)
5-21	Leaching Potential (Map Unit AsC – 14%)
5-22	High Water Table (Map Unit CIB – 19%)
5-23	Leaching Potential (Map Unit AsC3 – 5%)
5-24	None
5-25	Leaching Potential (Map Units AsC, SeC – 22%)
5-26	None
5-27	High Water Table (Map Unit WH – 19%) Flooded Soils (Map Unit WH – 19%)
5-31	Leaching Potential (Map Unit AsC – 17%)
5-33	None
5-34	None
5-35	None

### Louisa County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
AsB, AsC, AsD	Ashlar			Leaching
AsC3, AsD3	Ashlar			Leaching
AV	Ashlar			Leaching
Ch	Chewacla	Nov - April	Nov - April	
CIB	Colfax	Nov - June		
Eb	Elbert	Nov - May		
FN	Fluvaquents	Nov - April	Nov - April	
Fo	Forestdale	Jan - April	Jan - April	
FrB	Fork	Oct - May	Oct - May	
IdB	Iredell	Dec - April		
IdB2, IdC2	Iredell	Dec - April		
IrA, IrB	Iredell	Dec - April		
Iv	Iredell	Dec - April		
IgB	Lignum	Dec - May		
MnB, MnC, MnlD	Madison			Shallow
MoC, MoD	Madison			Shallow
SeB, SeC, SeD	Sekil			Leaching
SeC3	Sekil			Leaching
SP	Sekil			Leaching
To	Tocca		Jan - Dec	
Ts	Tocca		Jan - Dec	
We	Wehadkee	Nov - May	Nov - June	
WH	Wehadkee-Chewacla	Nov - May	Nov - June	
WoB	Worsham	Nov - May		

# MAP LEGEND



House/Dwelling with a well



Rock Outcrop



Well



Lake/Pond



Slope which exceeds 15%



Intermittent Stream



Stream/River



Agricultural/Drainage Ditch



Field boundary

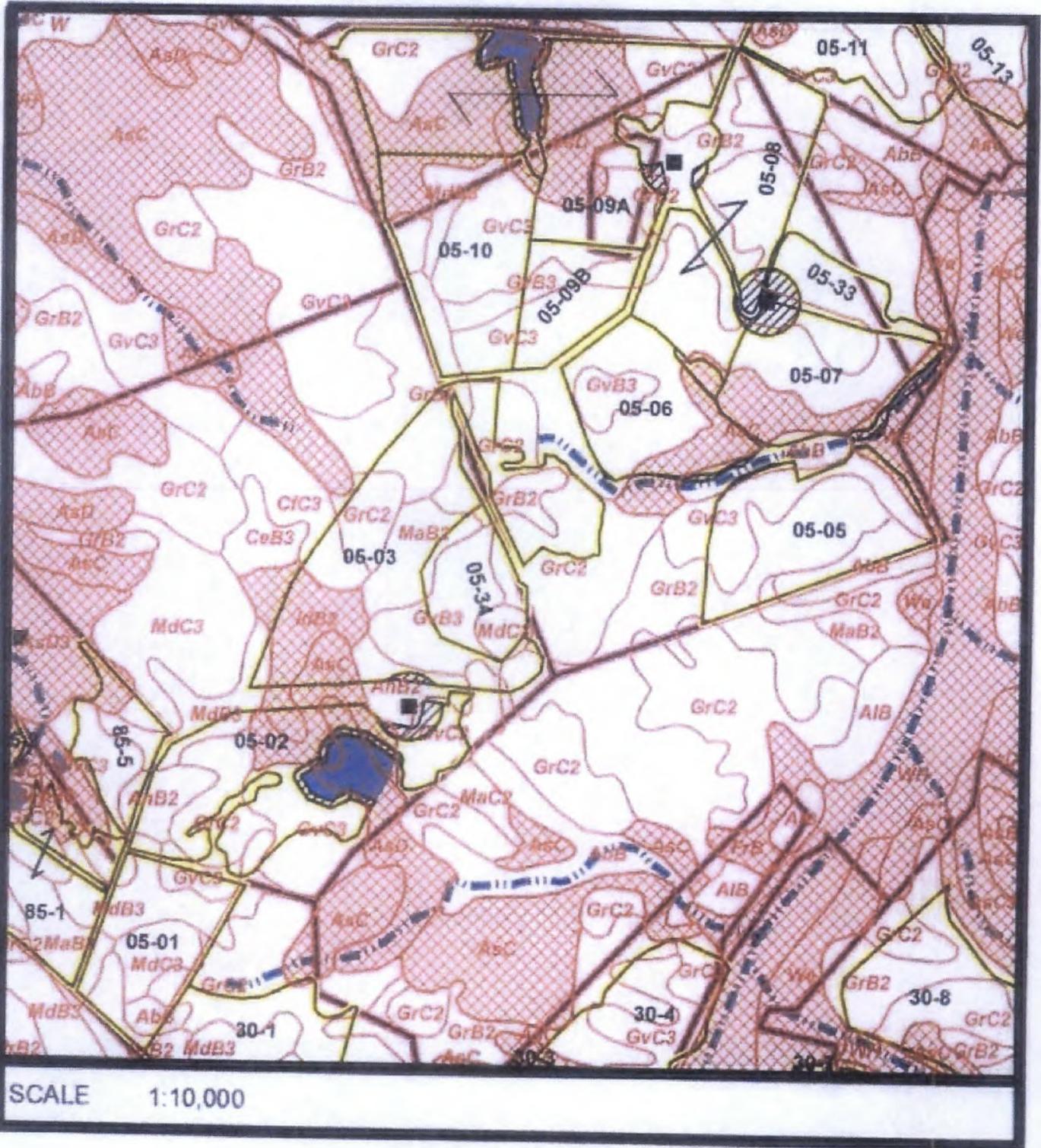


Property Line – (Standard 100'  
Buffer, unless waiver issued)

Revised: Jan. 13, '14

# SYNAGRO

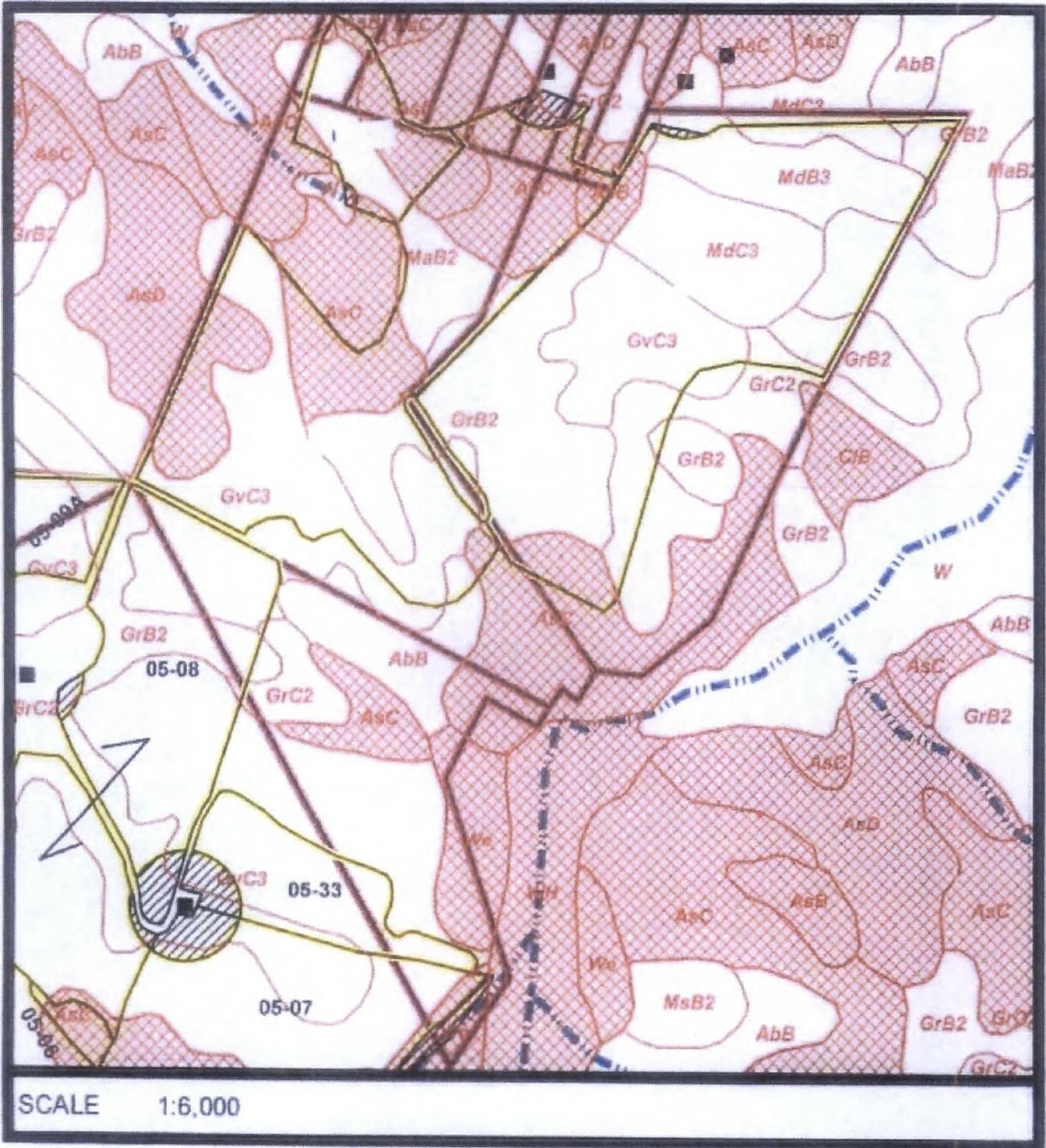
William C Coleman  
LO05  
Fields 1 - 3, 5 - 10, 34



SOIL MAP

 Environmentally Sensitive Soil

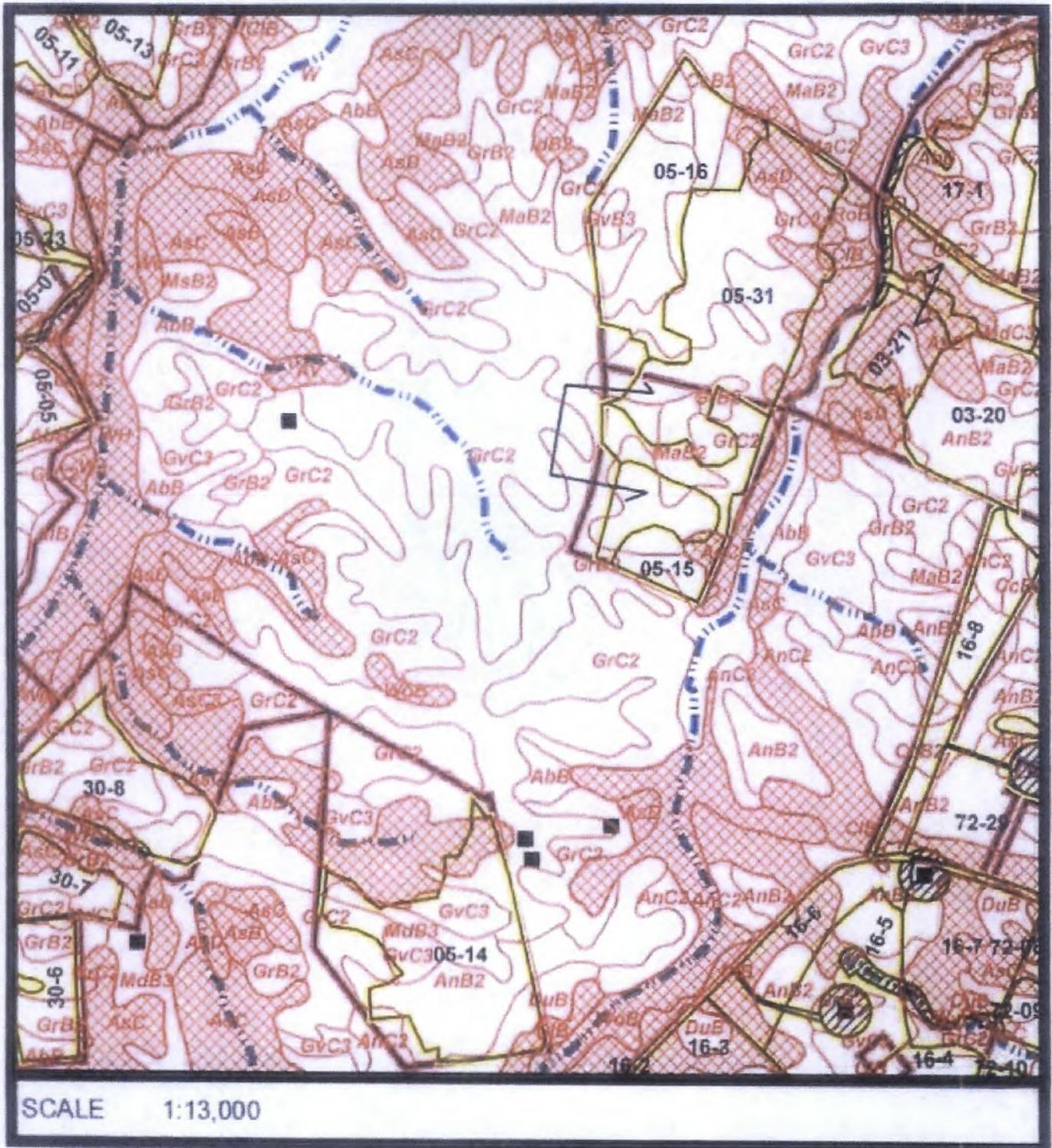




## SOIL MAP

 Environmentally Sensitive Soil

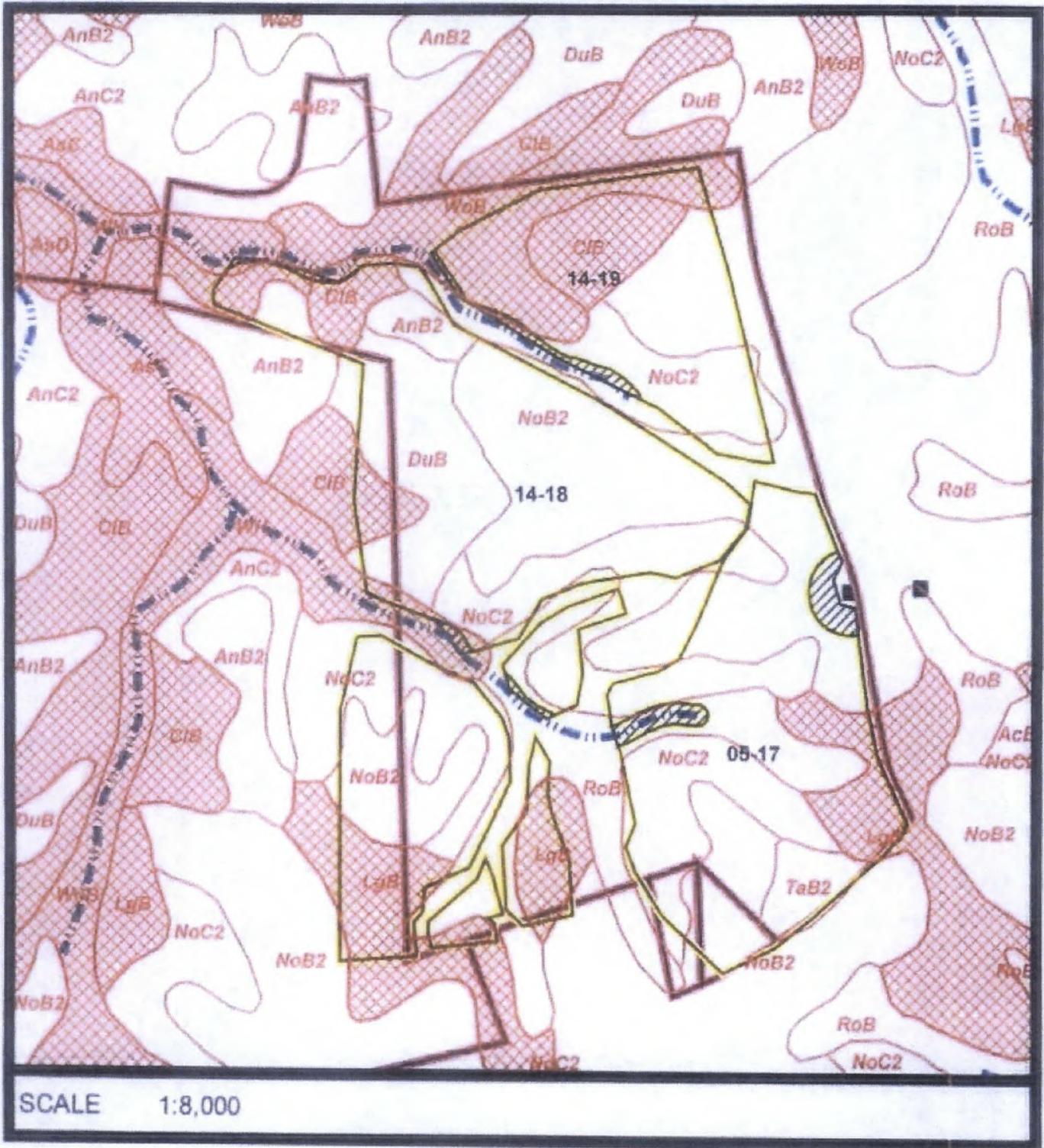




SOIL MAP

 Environmentally Sensitive Soil



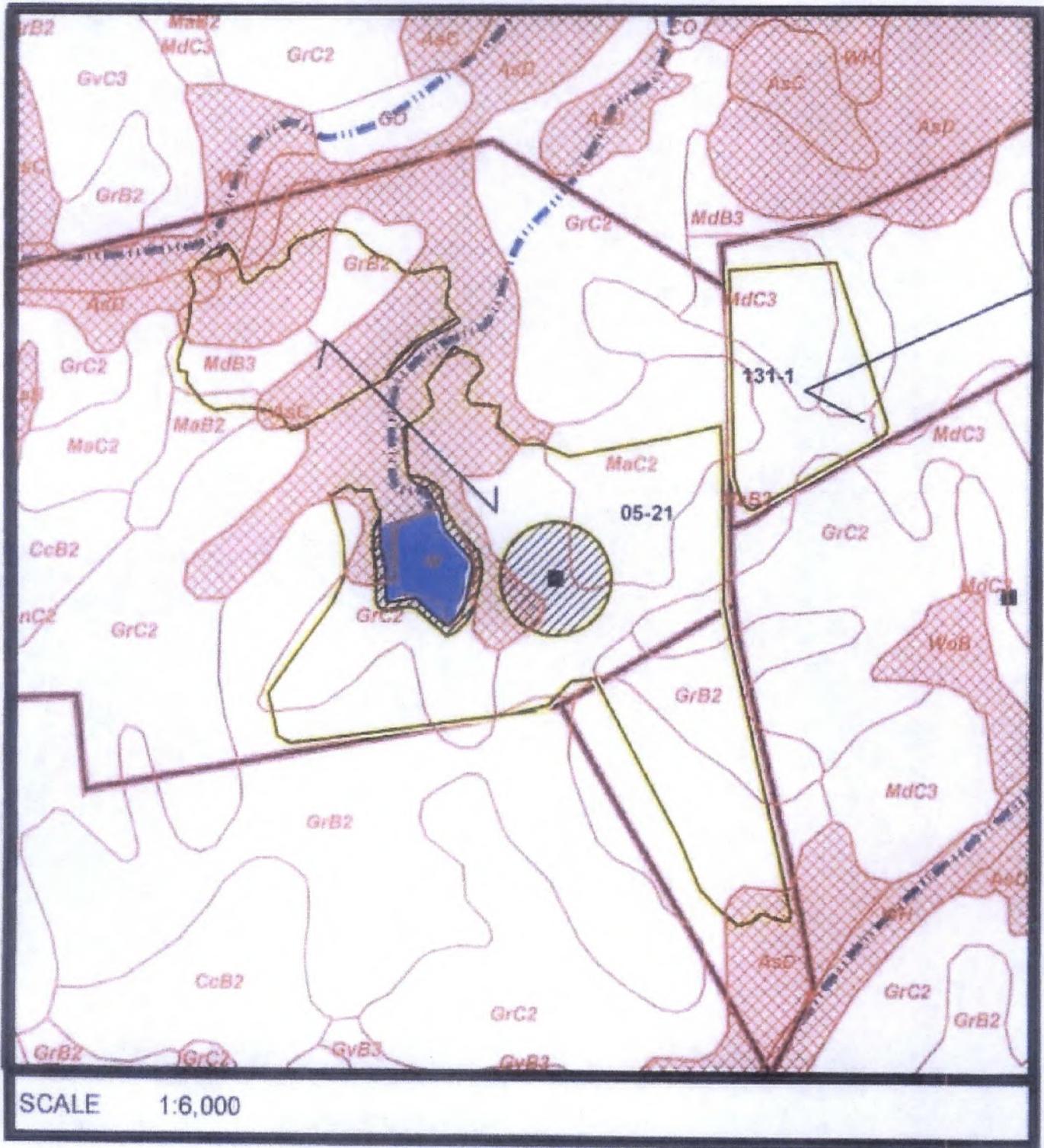


SCALE 1:8,000

## SOIL MAP

 Environmentally Sensitive Soil



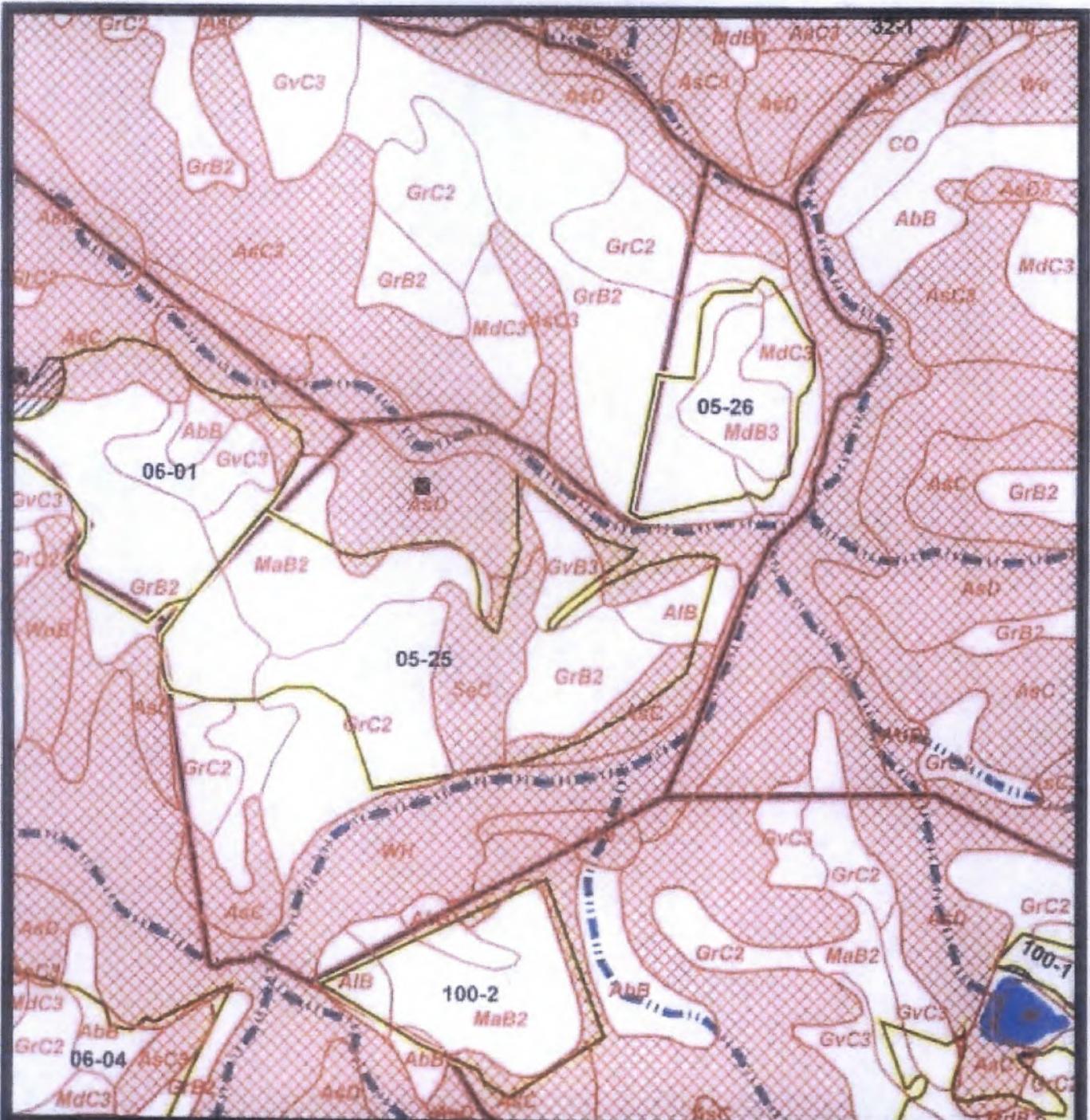


## SOIL MAP

 Environmentally Sensitive Soil





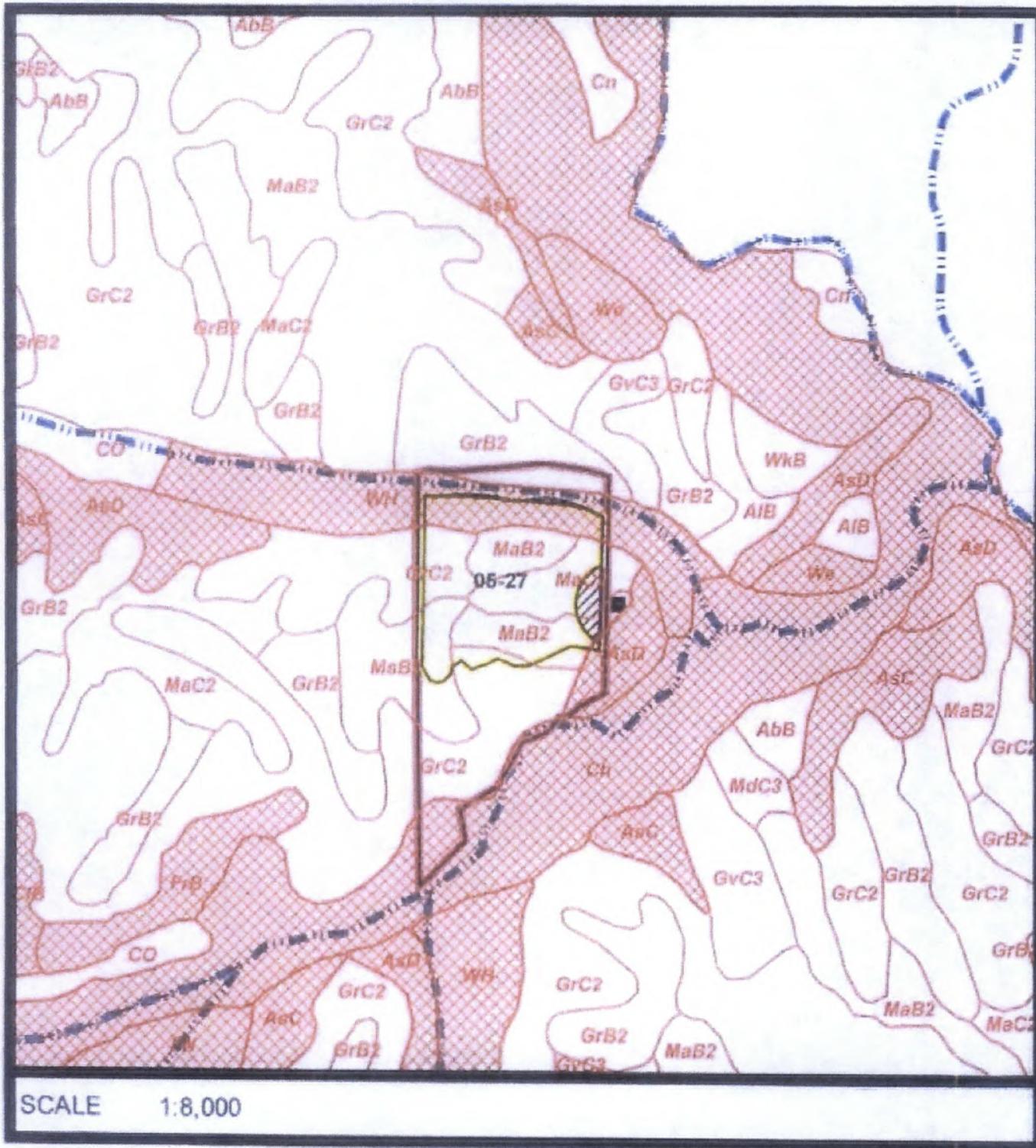


SCALE 1:8,000

## SOIL MAP

 Environmentally Sensitive Soil





SCALE 1:8,000

## SOIL MAP

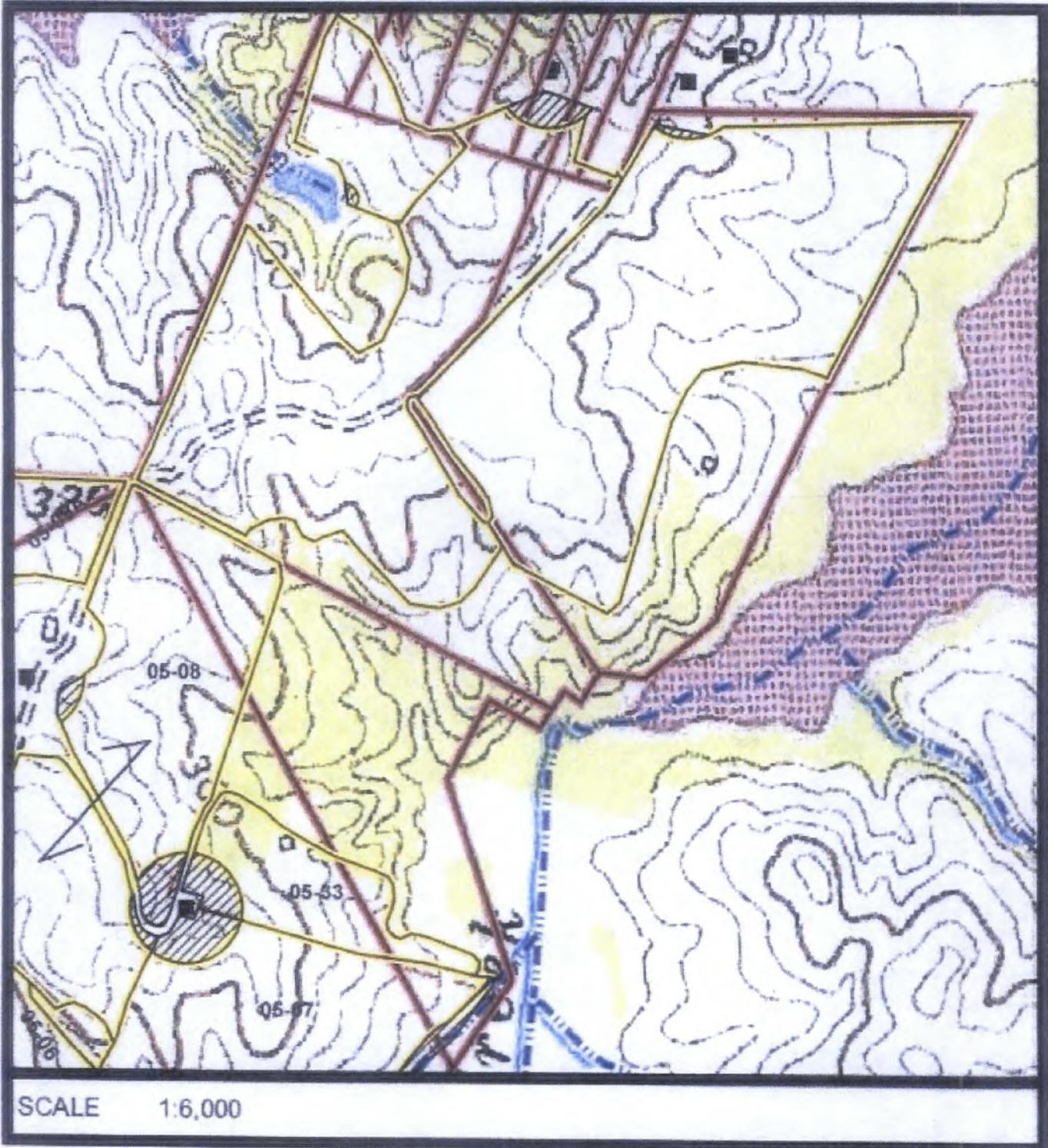
 Environmentally Sensitive Soil





# SYNAGRO

William C. Coleman  
LO05  
Fields 11 - 13, 33

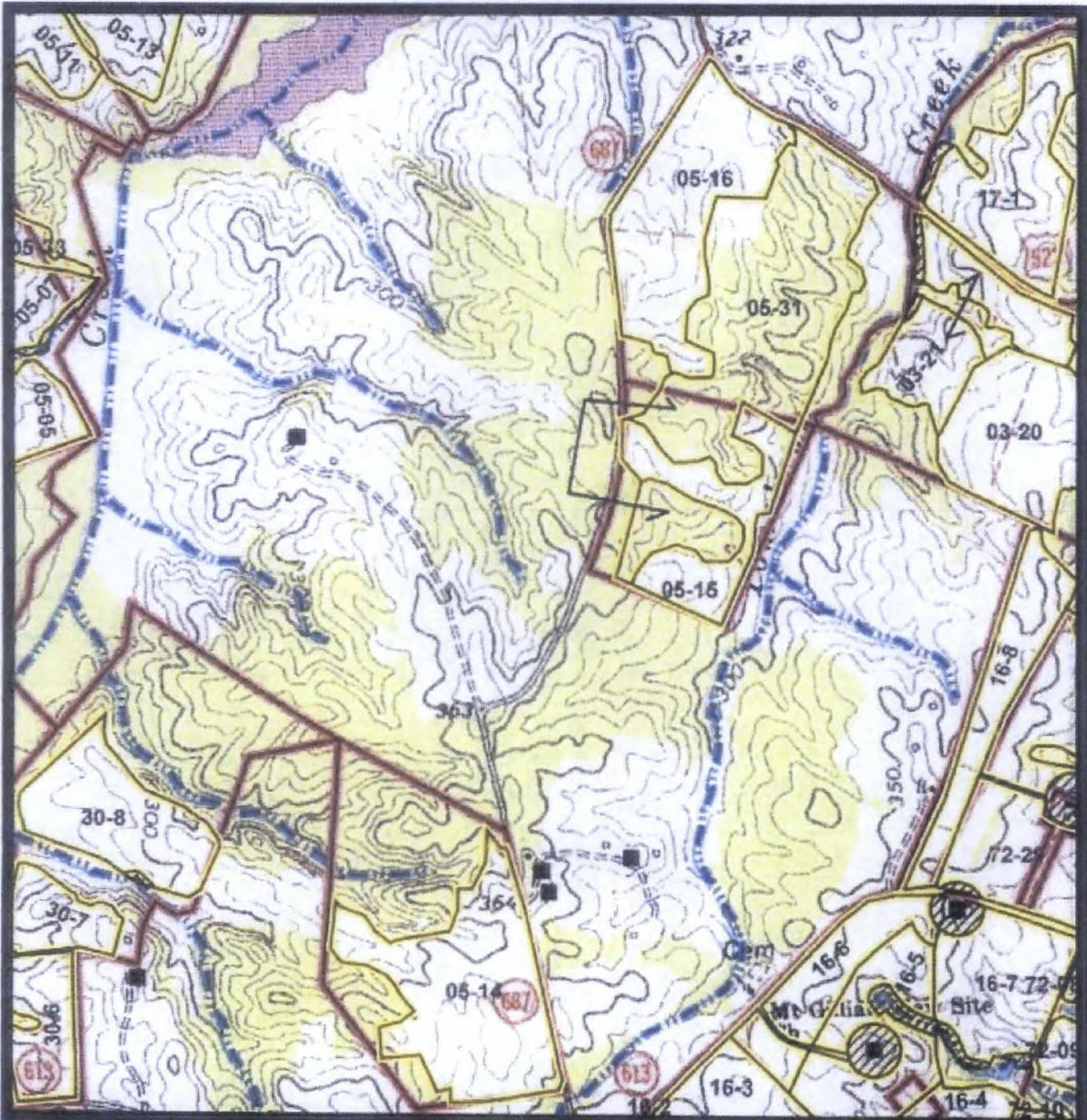


TOPO MAP



# SYNAGRO

William C. Coleman  
LO05  
Fields 14 - 16, 31



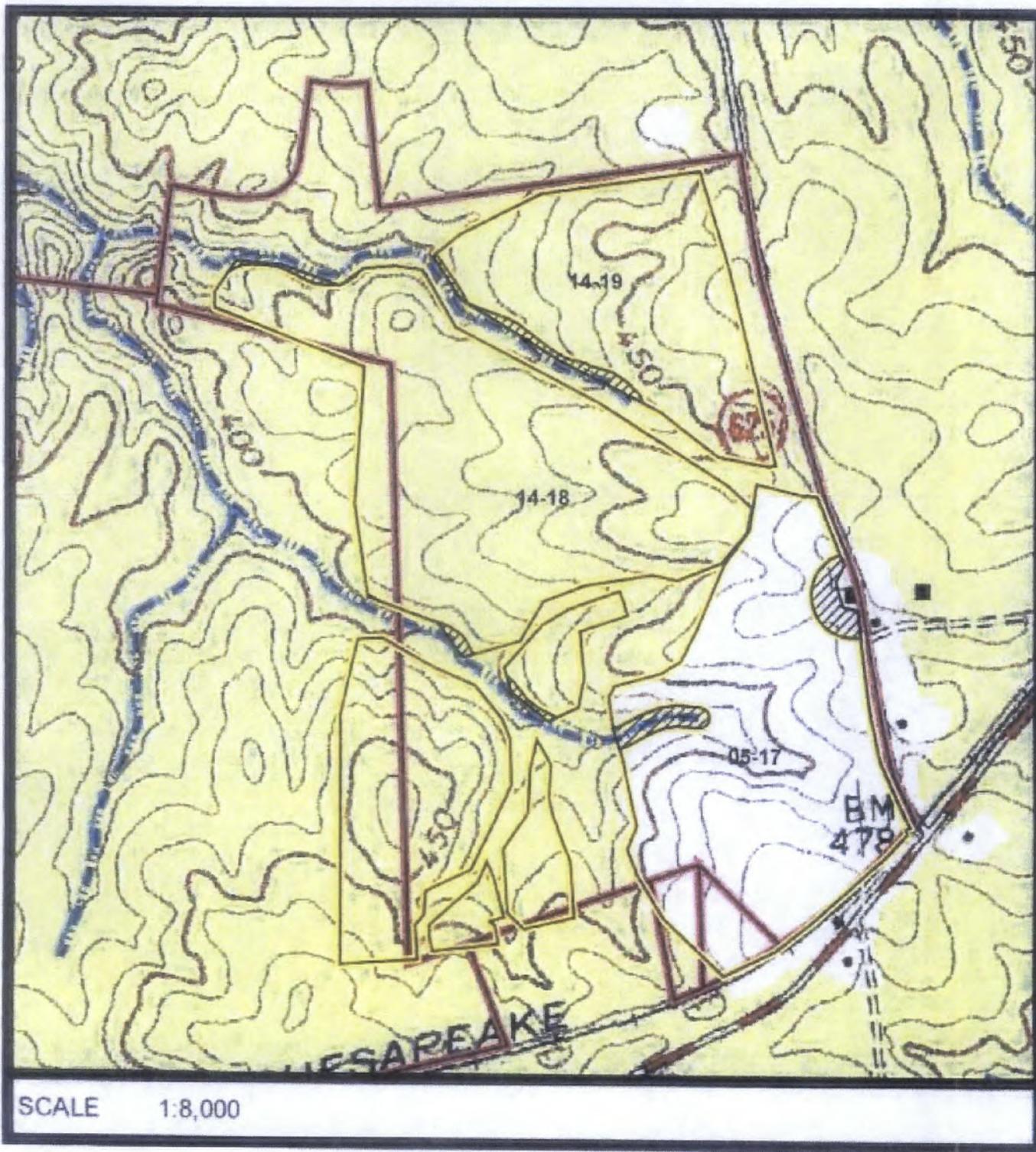
SCALE 1:13,000

TOPO MAP

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# SYNAGRO

William C. Coleman  
LO05  
Field 17

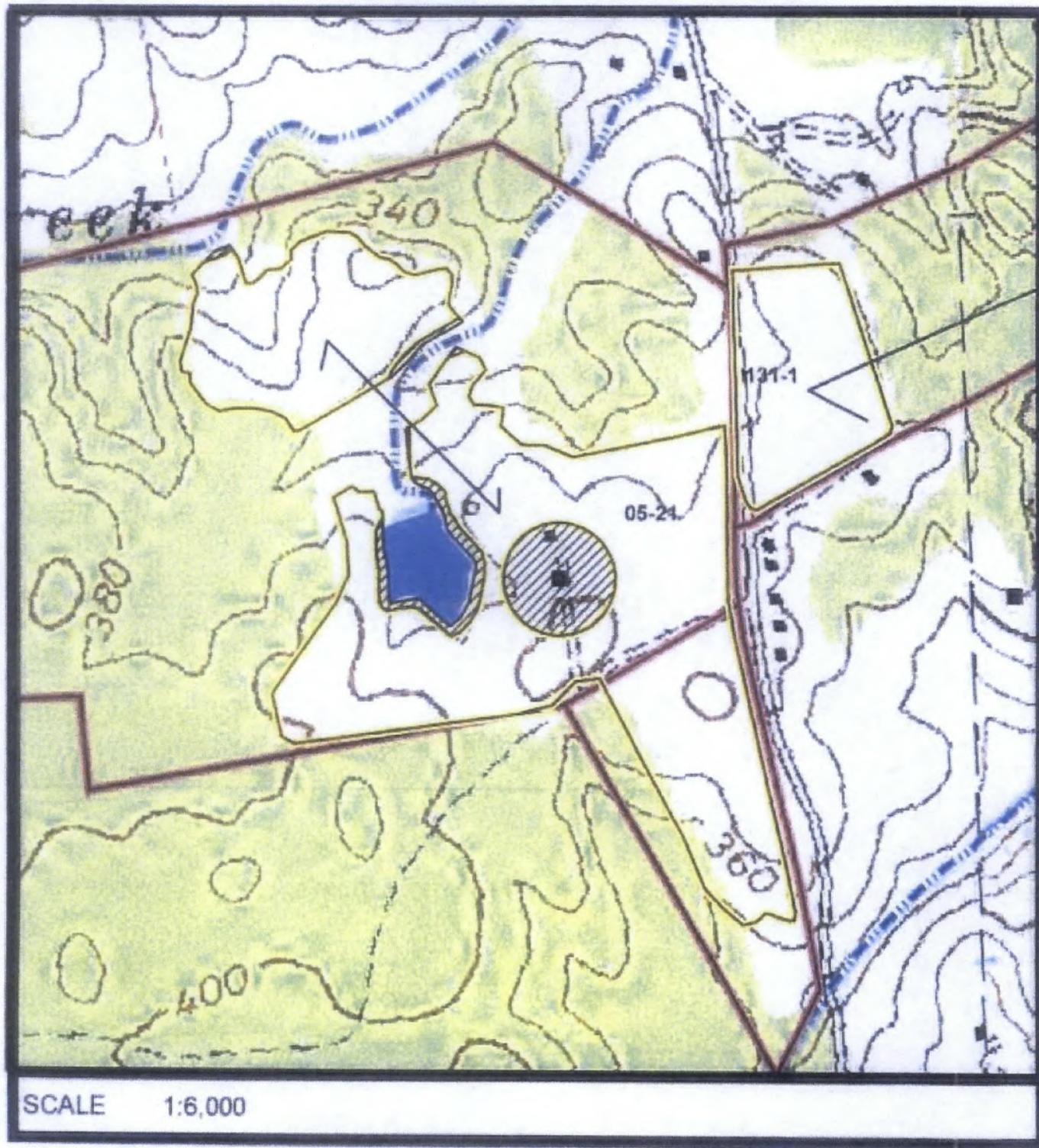


TOPO MAP



# SYNAGRO

William C Coleman  
LO05  
Field 21

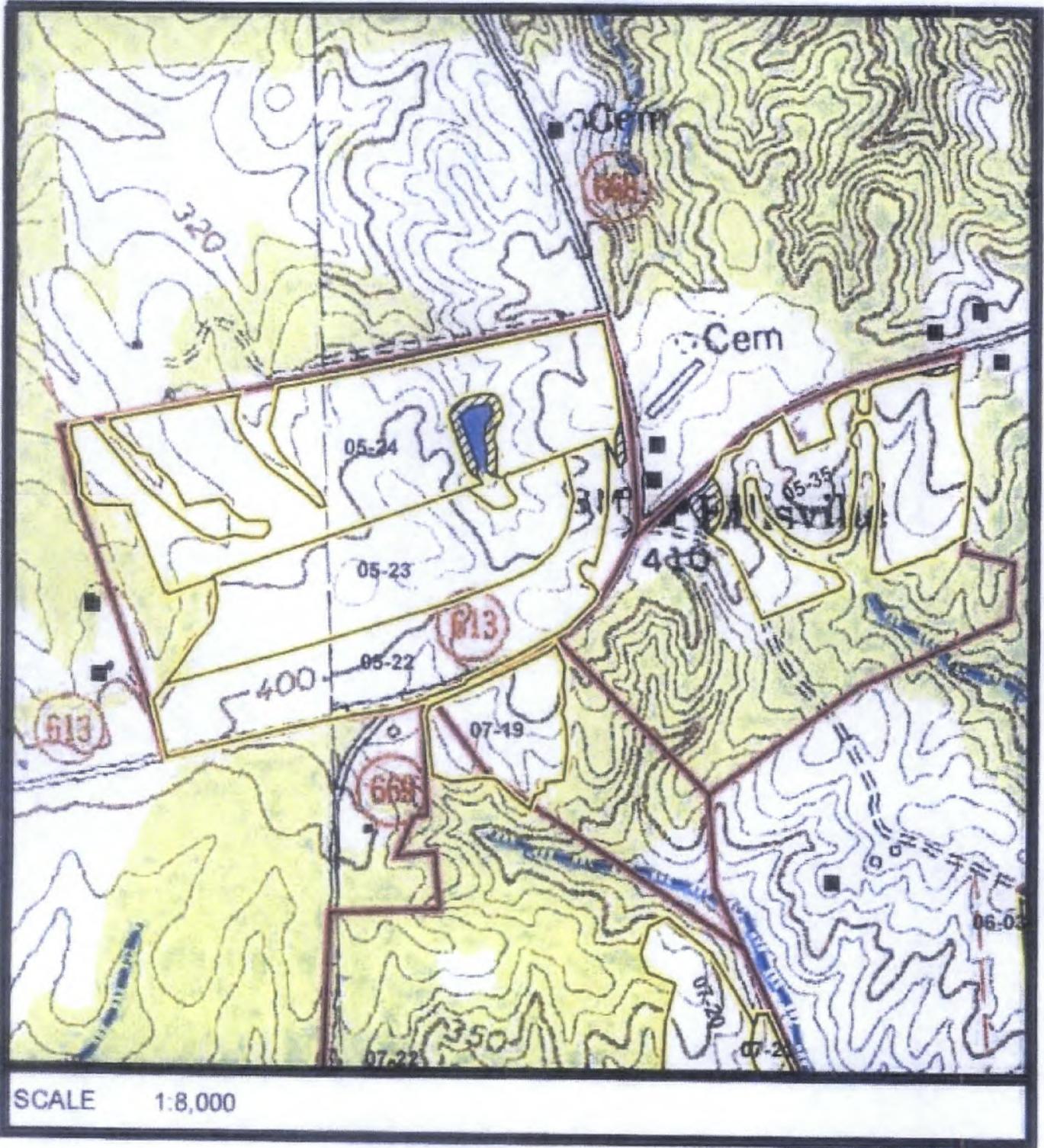


TOPO MAP



# SYNAGRO

William C Coleman  
LO05  
Fields 22 - 24, 35

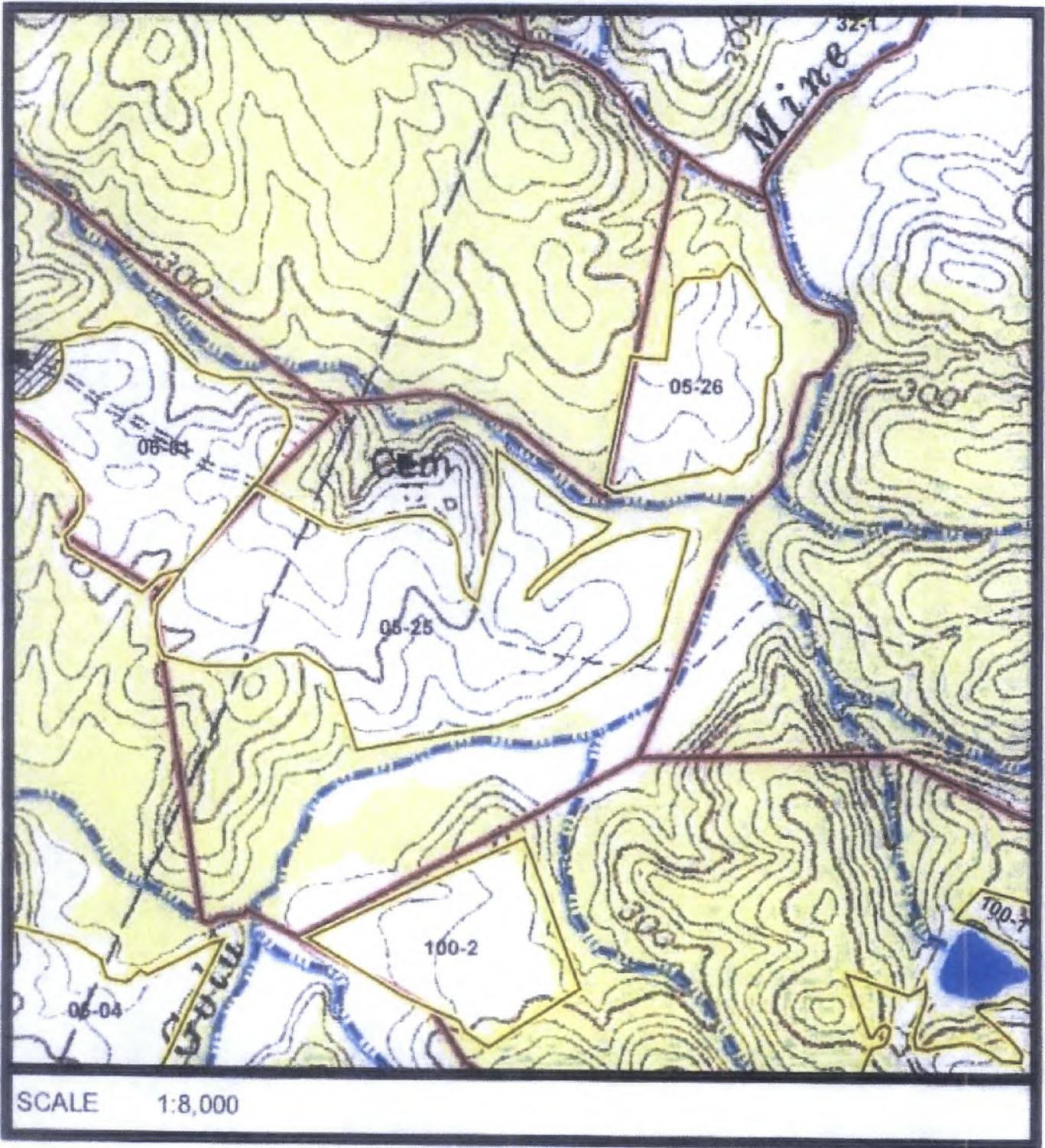


TOPO MAP



# SYNAGRO

William C. Coleman  
LO05  
Fields 25, 26

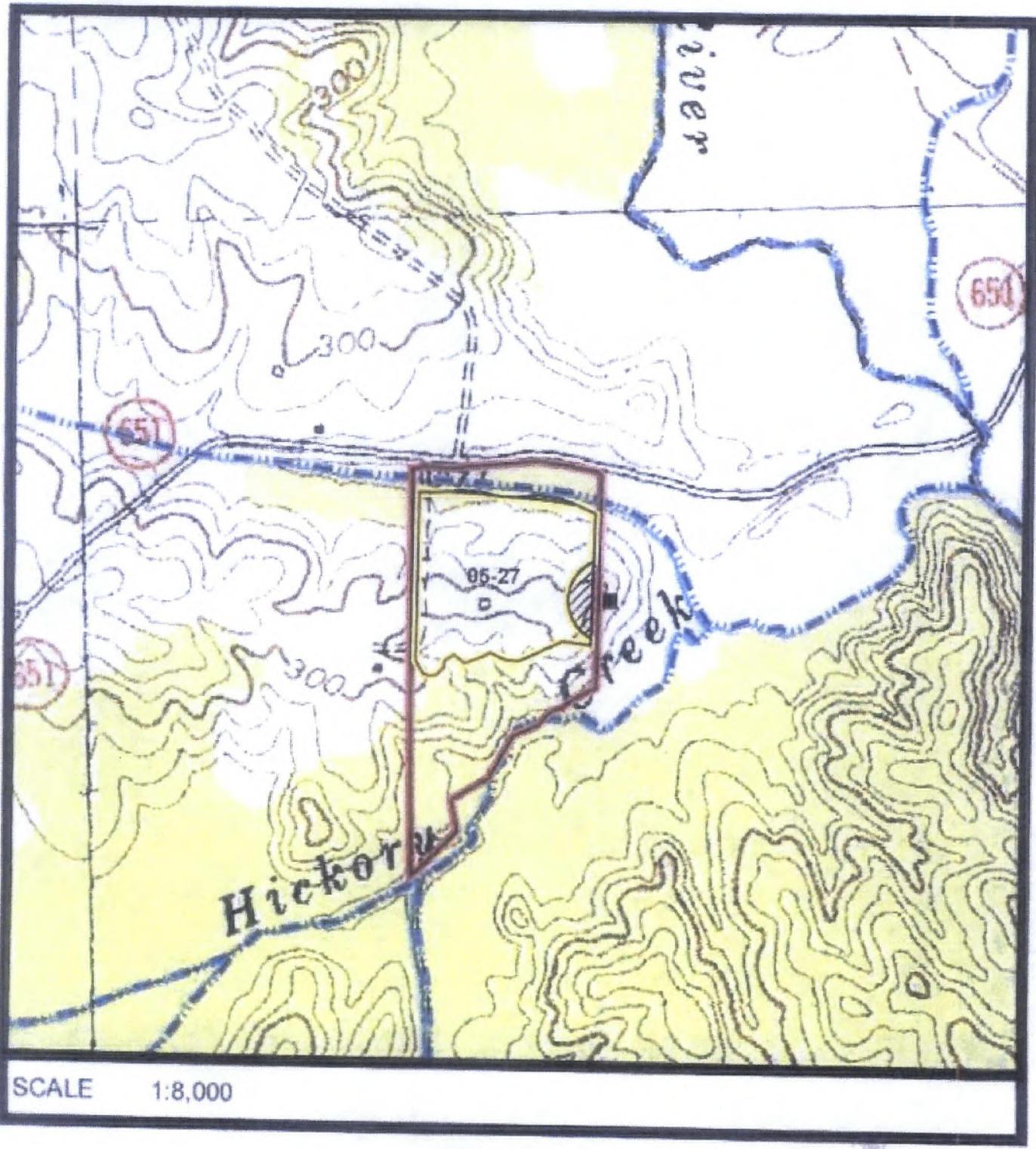


TOPO MAP



# SYNAGRO

William C. Coleman  
LO05  
Field 27



SCALE 1:8,000

TOPO MAP

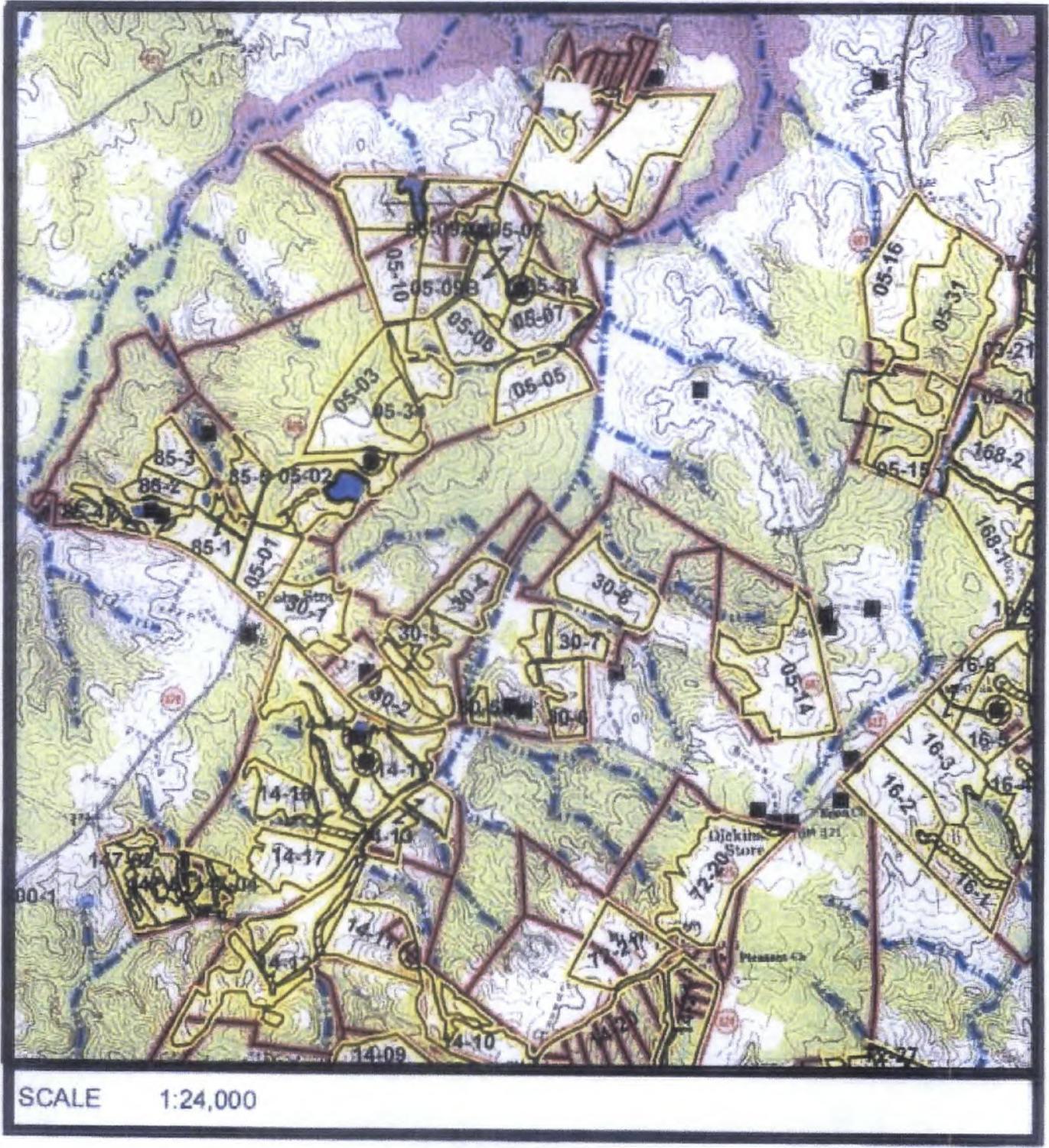


# SYNAGRO

William C Coleman

LO05

Fields 1 - 3, 5 - 16, 31, 33, 34



SCALE 1:24,000

TOPO MAP



# SYNAGRO

William C. Coleman  
LO05  
Field 17



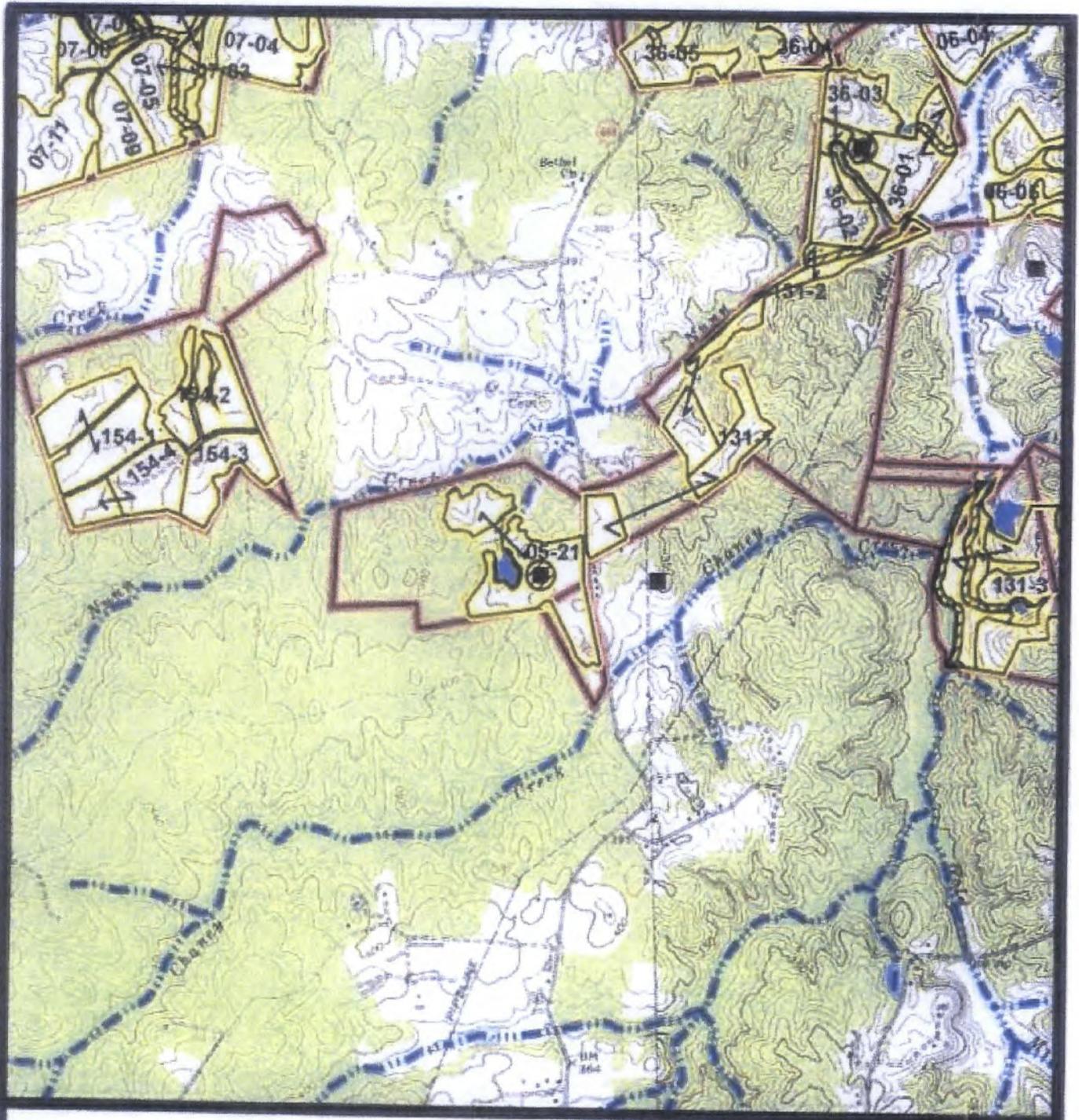
SCALE 1:24,000

TOPO MAP

↑  
N  
↓

# SYNAGRO

William C Coleman  
LO05  
Field 21



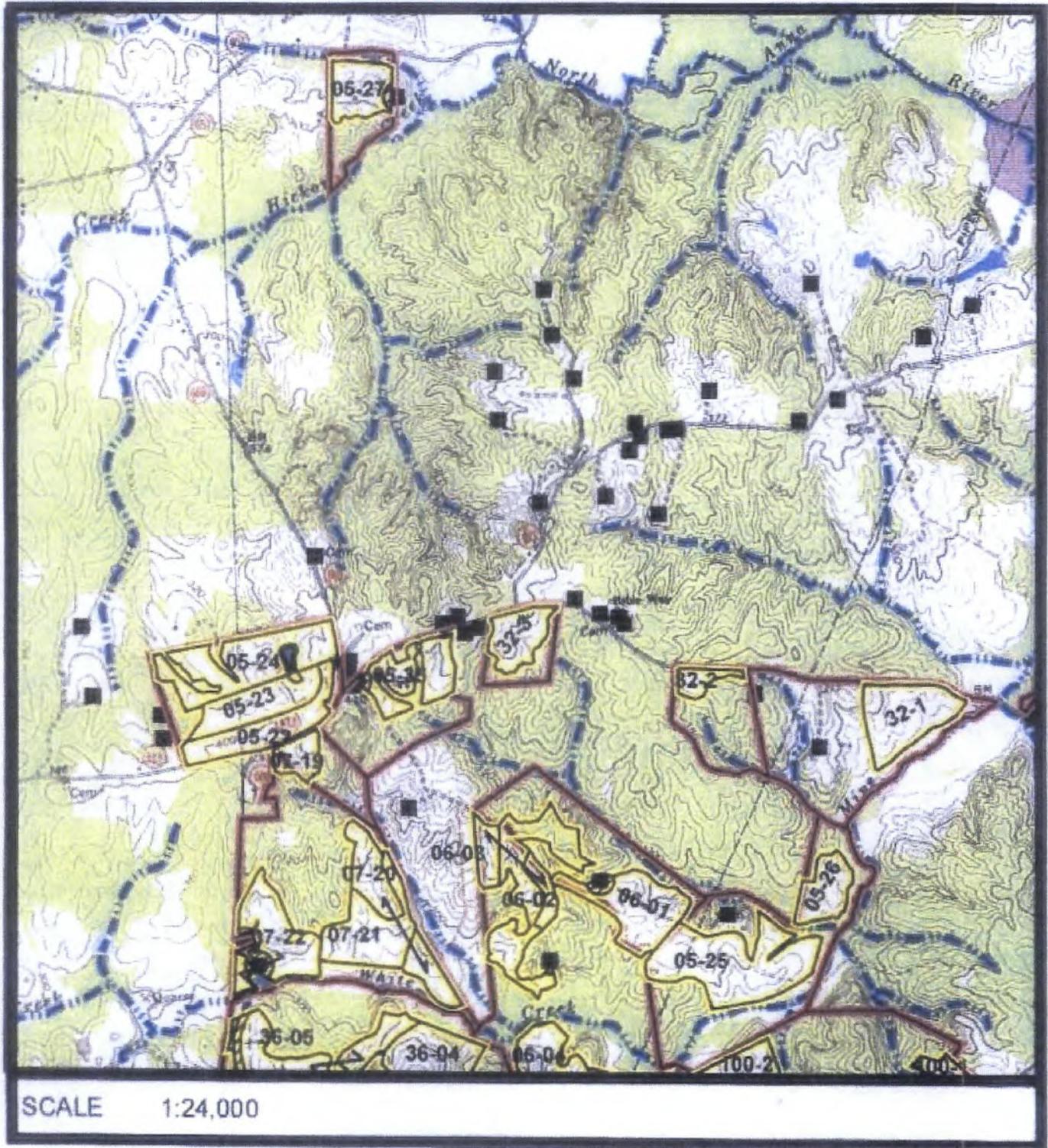
SCALE 1:24,000

TOPO MAP



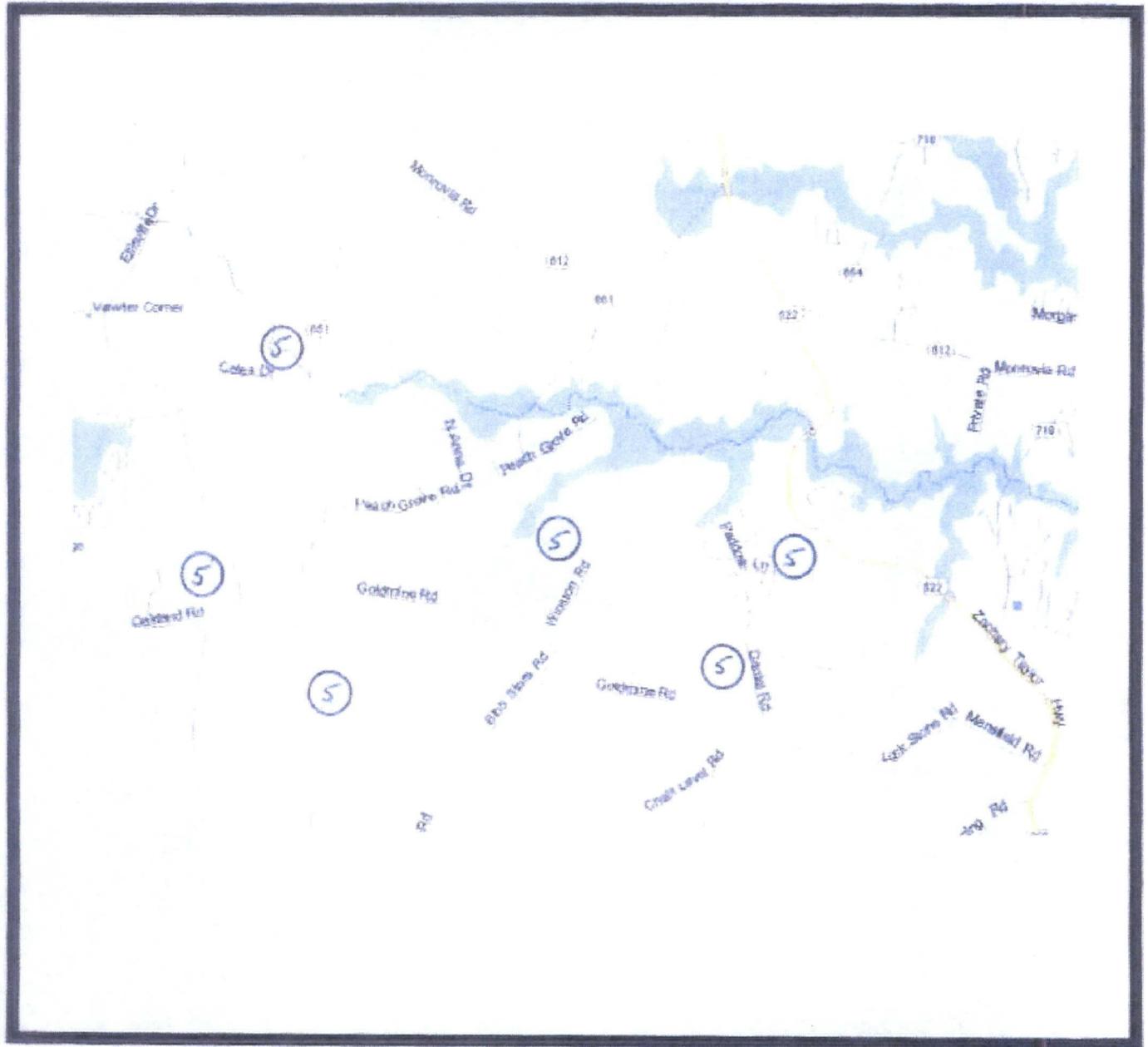
# SYNAGRO

William C Coleman  
LO05  
Fields 22 - 27, 35



TOPO MAP





LOCATION MAP



