

LAND APPLICATION OF BIOSOLIDS
QUAKER HILL FARM, LLC

LO161 (FIELDS 1 – 13)
LOUISA COUNTY, VIRGINIA
APRIL 2014





April 27, 2014

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 Quaker Hill Farm, LLC (designated as LO 161, fields 1 - 13), 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,

Steve McMahon
Technical Services Director

KML/cmw

SYNAGRO

FIELD SUMMARY SHEET

Quaker Hill Farm, LLC

LO161

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FSA FIELD #	TOPO QUAD	OWNER
161-1	7.4	7.3			Louisa	Quaker Hill Farm, LLC
161-2	11.5	11.3			Louisa	Quaker Hill Farm, LLC
161-3	47.1	45.0			Louisa	Quaker Hill Farm, LLC
161-4	82.5	76.4			Ferncliff	Quaker Hill Farm, LLC
161-5	21.5	18.6			Ferncliff	Quaker Hill Farm, LLC
161-6	57.7	54.0			Ferncliff	Quaker Hill Farm, LLC
161-7	8.1	8.1			Louisa	Quaker Hill Farm, LLC
161-8	44.2	44.2			Ferncliff	Margaret & Lance Chodosh
161-9	29.6	29.1			Ferncliff	Margaret & Lance Chodosh
161-10	21.4	21.4			Ferncliff	Bernard & Clarice Perkins
161-11	73.4	73.4			Ferncliff	Quaker Hill Farm, LLC
161-12	47.8	47.8			Louisa	Quaker Hill Farm, LLC
161-13	52.8	48.8			Louisa	Quaker Hill Farm, LLC
TOTALS:	505.0	485.4				

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

Permittee: Synagro County or City: Louisa County

Landowner: Quaker Hill Farm, 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.

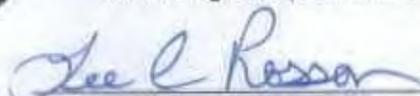
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

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

4/20/14
Date

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

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

A. This land application agreement is made on 4/15/14 between Perkins 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, 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 Louisa, Virginia, which includes the agricultural, silvicultural or reclamation 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>54-2</u>			

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

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

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

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

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

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

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

Bernard Perkins Bernard Perkins 102 Dell Perkins Rd
 Landowner - Printed Name, Title 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.

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.

I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

LEE C Brown LEE C Brown 10647 Tidewater Trail
 Permittee - Authorized Representative Signature Mailing Address Champlain, VA 22438

Permittee: Synagro County or City: Louisa
 Landowner: Perkins

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.

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Bernard Perkins
 Landowner's Signature

4/15/14
 Date

Clarice Perkins

**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 4/15/14 between Chodosh 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, 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 _____, Virginia, which includes the agricultural, silvicultural or reclamation 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
54-7			

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
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<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			

<u>Margaret Chodosh</u>	<u>Margaret Chodosh</u>	<u>110 Dell Perkins Rd.</u>
<small>Landowner - Printed Name, Title</small>	<small>Signature</small>	<small>Mailing Address</small>
<u>Lance Chodosh</u>	<u>Lance Chodosh</u>	<u>Louisa VA 23093</u>

Permittee:

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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.

I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>LEE C. Rosson</u>	<u>Lee Rosson</u>	<u>10647 Tidewater Trail</u>
<small>Permittee - Authorized Representative</small>	<small>Signature</small>	<small>Mailing Address</small>
<small>Printed Name</small>		<u>Champlain, VA 22438</u>

Permittee: Synagro County or City: Louisa
 Landowner: Margaret & Lance Chodosh

Landowner Site Management Requirements:

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Margaret Chodosh
Lance Chodosh

Landowner's Signature

4/15/14
 Date

Tax ID Landowner Identification Sheet

<u>Landowner</u>	<u>Field #</u>	<u>Tax ID</u>
QUAKER HILL FARM, LLC	161-01	38 - 30, 31
QUAKER HILL FARM, LLC	161-02	38 - 32
QUAKER HILL FARM, LLC	161-03	38 - 90, 91 54 - 3, 6
QUAKER HILL FARM, LLC	161-04	54 - 3, 6
QUAKER HILL FARM, LLC	161-05	54 - 6
QUAKER HILL FARM, LLC	161-06	54 - 6
QUAKER HILL FARM, LLC	161-07	38 - 86, 87
MARGARET & LANCE CHODOSH	161-08	54 - 7
MARGARET & LANCE CHODOSH	161-09	54 - 7
BERNARD & CLARICE PERKINS	161-10	54 - 2
QUAKER HILL FARM, LLC	161-11	54 - 3, 4, 6
QUAKER HILL FARM, LLC	161-12	38 - 87, 88, 89, 91
QUAKER HILL FARM, LLC	161-13	38 - 30, 31

<u>Field #</u>	<u>Latitude (north)</u>	<u>Longitude (west)</u>
161-01	38 ⁰ 00' 10.04"	78 ⁰ 07' 07.93"
161-02	38 ⁰ 00' 08.52"	78 ⁰ 06' 58.23"
161-03	37 ⁰ 59' 56.15"	78 ⁰ 06' 48.01"
161-04	37 ⁰ 59' 28.90"	78 ⁰ 06' 48.26"
161-05	37 ⁰ 59' 33.38"	78 ⁰ 06' 38.19"
161-06	37 ⁰ 59' 40.27"	78 ⁰ 06' 26.40"
161-07	38 ⁰ 00' 27.76"	78 ⁰ 06' 44.15"
161-08	38 ⁰ 59' 32.17"	78 ⁰ 06' 13.94"
161-09	38 ⁰ 59' 19.00"	78 ⁰ 06' 08.28"
161-10	38 ⁰ 59' 44.02"	78 ⁰ 06' 58.94"
161-11	38 ⁰ 59' 54.62"	78 ⁰ 06' 33.22"
161-12	38 ⁰ 00' 18.12"	78 ⁰ 06' 42.17"
161-13	38 ⁰ 00' 01.96"	78 ⁰ 07' 13.46"

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		
LgB	Lignum	Dec - May		
MnB, MnC, MnD	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		

Field Map Unit Acres Percentage Soil Series High Water Flood Environmental Sensitive

161-1	TaB2	5.6	78				
161-1	TaC2	1.6	22				
		7.2	100				
161-2	TaB2	6.6	58				
161-2	TaC2	4.7	42				
		11.3	100				
161-3	TmC3	15.0	35				
161-3	TaB2	12.0	28				
161-3	TaC2	8.2	19				
161-3	NoB2	7.6	18				
		42.8	100				
161-4	TaB2	35.0	52				
161-4	TmC3	16.2	24				
161-4	MnC	10.0	15	Madison			Shallow
161-4	Ch	6.1	9	Chewacla	Nov - April	Nov - April	
		67.3	100				
161-5	MnC	8.6	46	Madison			Shallow
161-5	TaB2	4.9	27				
161-5	TmC3	2.9	15				
161-5	CO	2.2	12				
		18.6	100				
161-6	TaB2	39.9	70				
161-6	TmC3	9.4	17				
161-6	MnC	7.5	13	Madison			Shallow
		56.9	100				
161-7	TaB2	4.4	55				
161-7	TaC2	3.6	45				
		8.0	100				
161-08	TaB2	25.4	58				
161-08	TmC3	14.3	33				
161-08	TmB3	4.0	9				
		43.7	100				
161-09	TmC3	15.4	53				
161-09	TuB	4.1	14				
161-09	Ts	4.0	14	Tocca		Jan - Dec	
161-09	TaB2	3.3	11				
161-09	MnC	2.3	8	Madison			Shallow
		29.0	100				
161-10	TmC3	11.1	52				
161-10	TaB2	8.9	41				
161-10	Ch	1.5	7	Chewacla	Nov - April	Nov - April	
		21.4	100				

161-11	TaB2	34.3	49
161-11	TaC2	25.1	36
161-11	NoB2	6.9	10
161-11	TmC3	3.9	5
		70.3	100

161-12	TaB2	15.7	86
161-12	NoB2	1.5	8
161-12	RoB	1.0	6
		18.2	100

Roanoke

Nov - May

161-13	TaB2	25.4	45
161-13	TaC2	19.3	34
161-12	TaC2	7.9	15
161-13	MoD	3.4	6
		56.0	100

Manteo

Shallow

Environmentally Sensitive Areas

Field	Reason for Sensitive Area
161-01	None
161-02	None
161-03	None
161-04	High Water Table (Map Unit Ch - 9%) Flooded Soils (Map Unit Ch - 9%) Shallow Soils (Map Unit MnC - 15%)
161-05	Shallow Soils (Map Unit MnC - 46%)
161-06	Shallow Soils (Map Unit MnC - 13%)
161-07	None
161-08	None
161-09	Flooded Soils (Map Unit Ts - 14%) Shallow Soils (Map Unit MnC - 8%)
161-10	High Water Table (Map Unit Ch - 7%) Flooded Soils (Map Unit Ch - 7%)
161-11	None
161-12	High Water Table (Map Unit RoB - 6%)
161-13	Shallow Soils (Map Unit MnC - 6%)

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

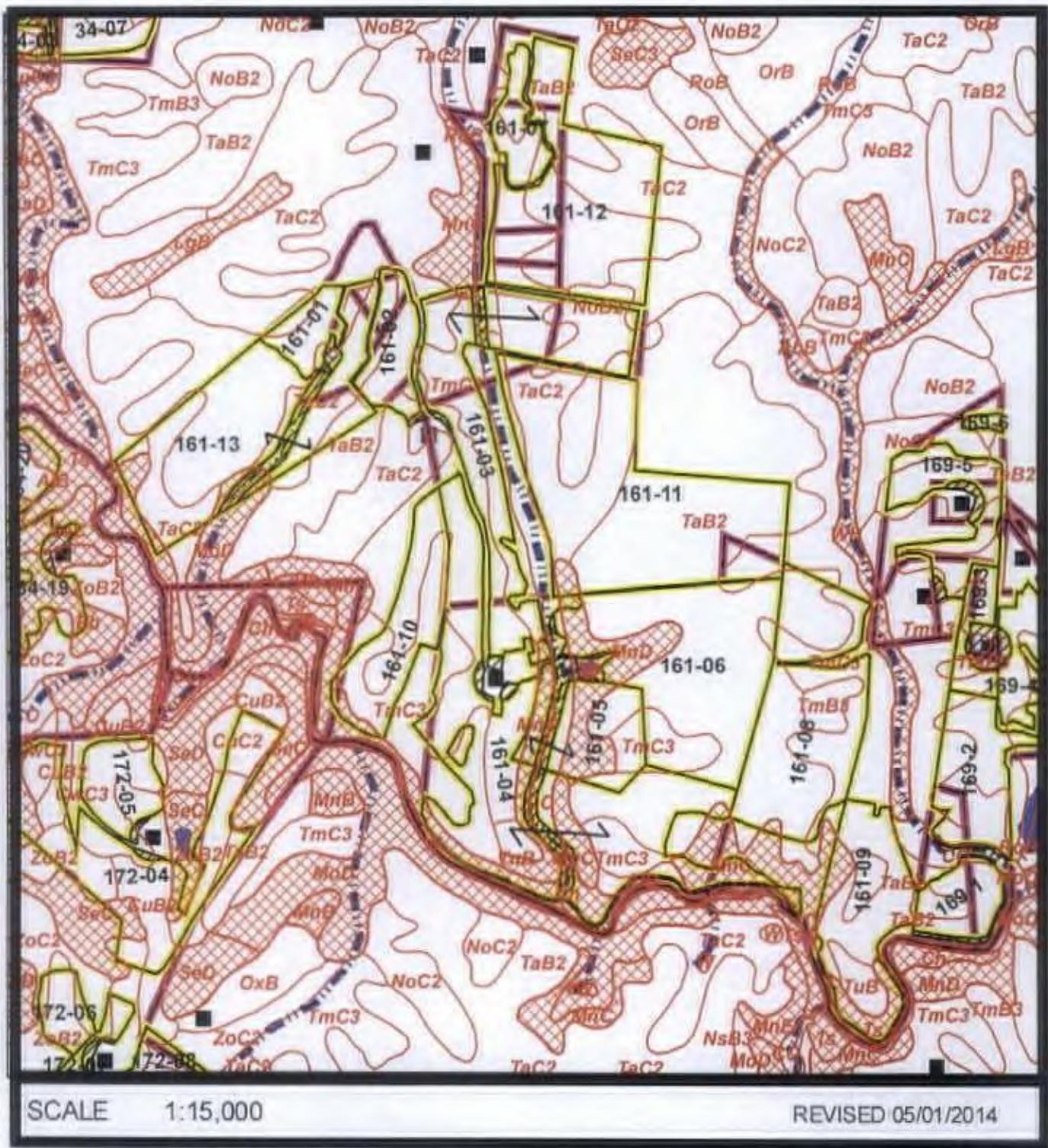


Property Line – (Standard 100'
Buffer, unless waiver issued)

Revised: Jan. 13, '14

SYNAGRO

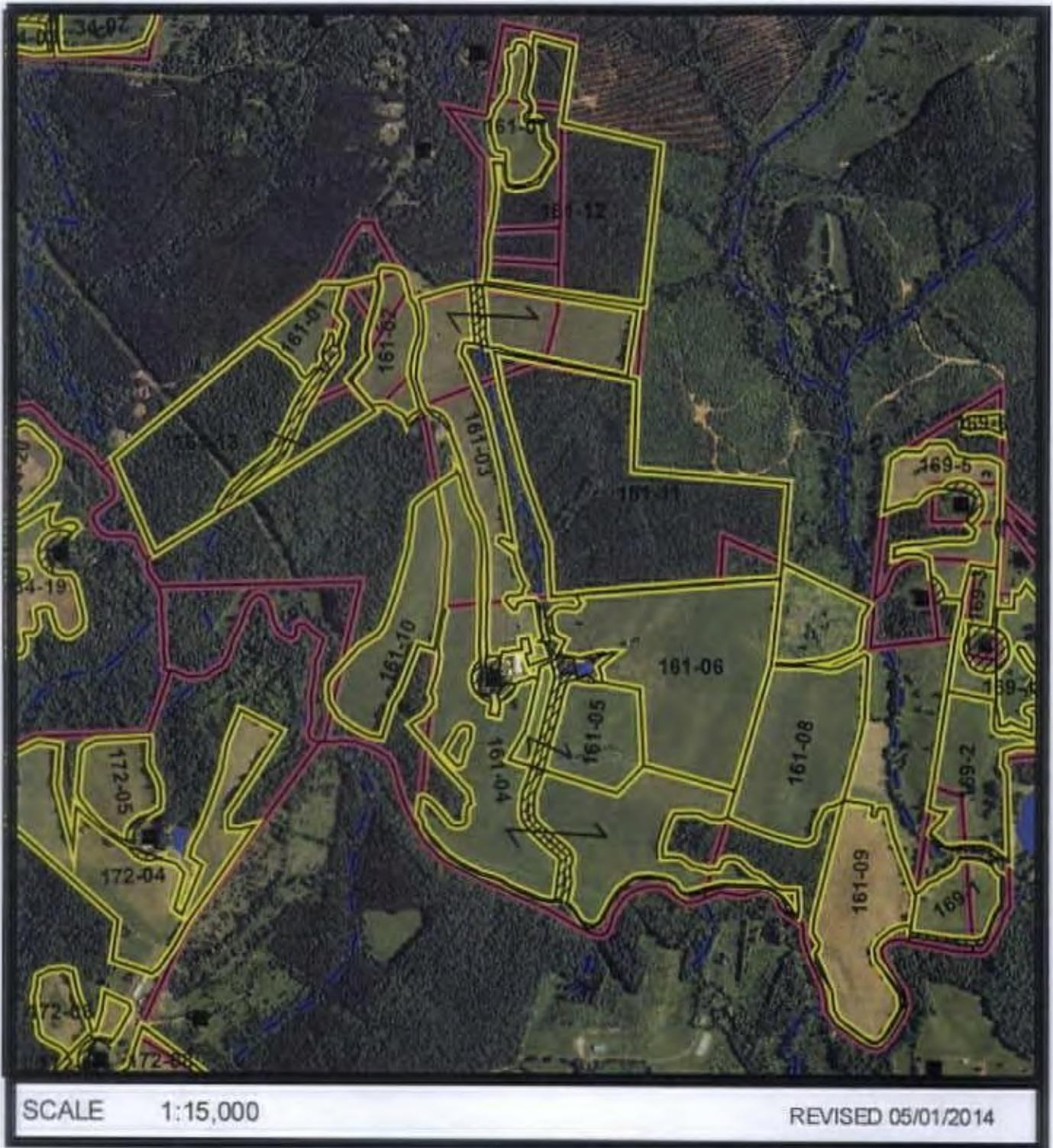
Quaker Hill Farm, LLC
LO161
Fields 1 - 13



SOIL MAP

 Environmentally Sensitive Soil



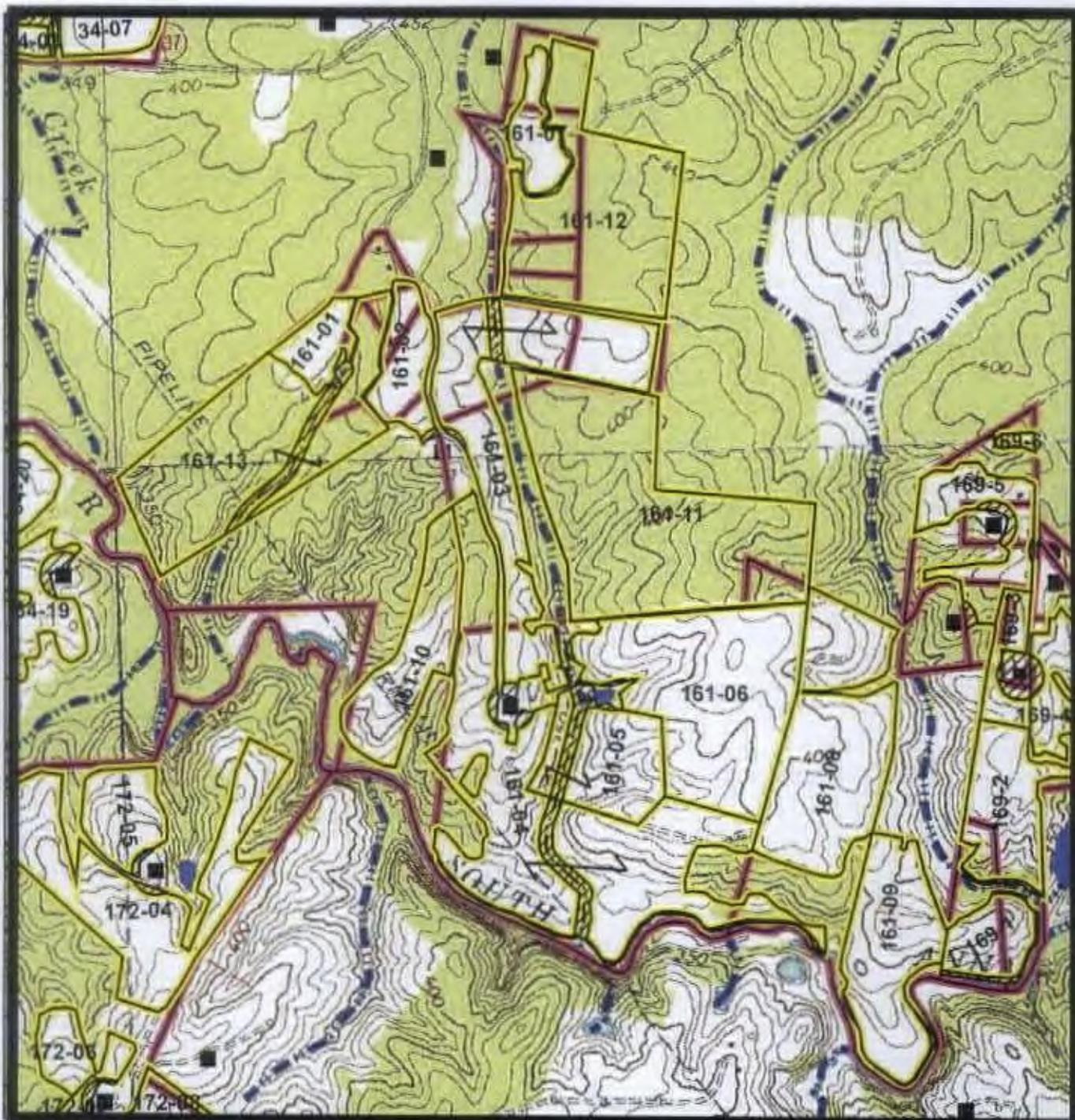


AERIAL MAP



SYNAGRO

Quaker Hill Farm, LLC
LO161
Fields 1 - 13



SCALE 1:15,000

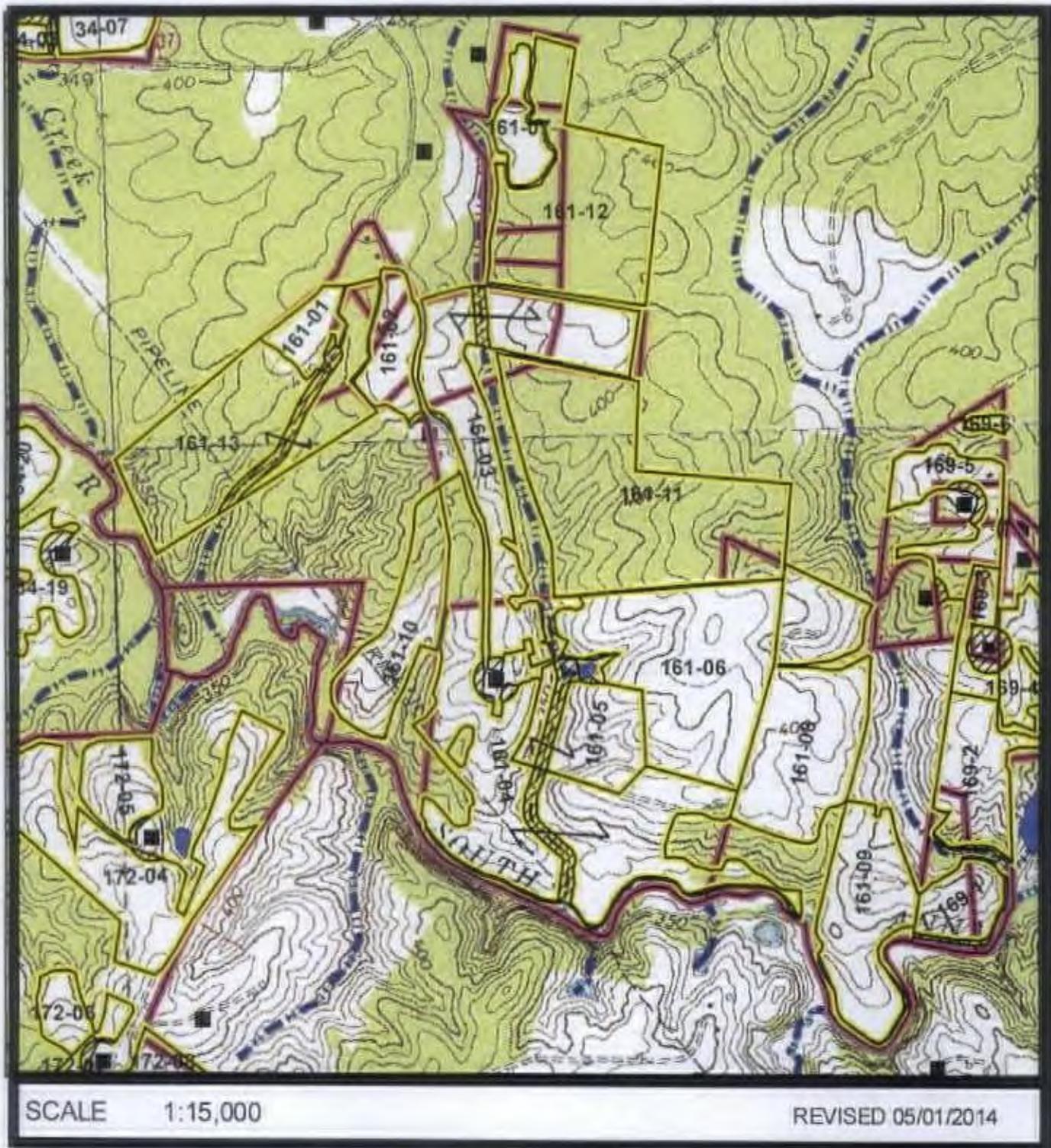
REVISED 05/01/2014

TOPO MAP



SYNAGRO

Quaker Hill Farm, LLC
LO161
Fields 1 - 13

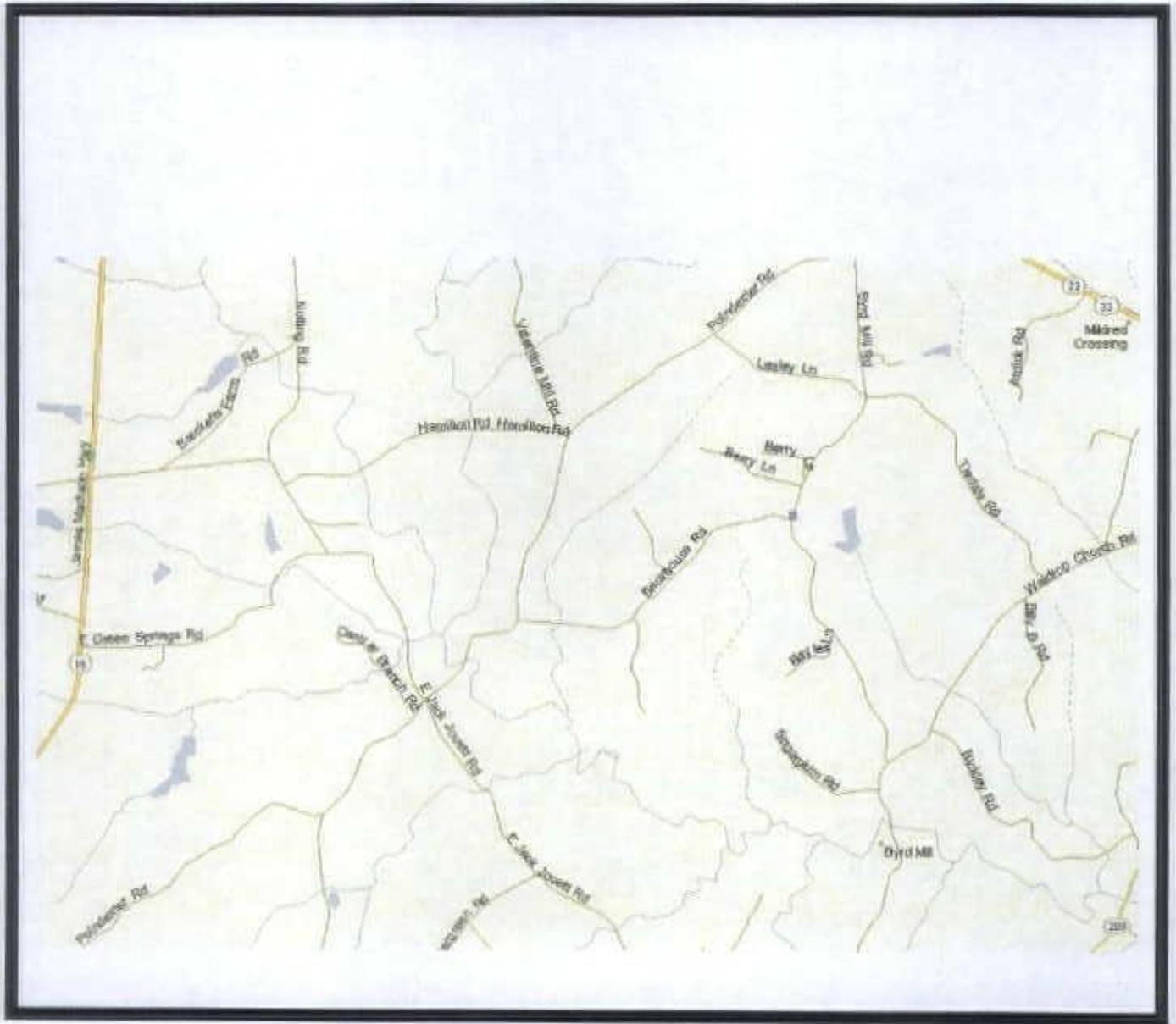


SCALE 1:15,000

REVISED 05/01/2014

TOPO MAP





LOCATION MAP

