LAND APPLICATION SITE

JOHNNY K LONG SITE

LUJKL 1-36

LUNENBURG COUNTY

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 7-13-13 between HASKINS R. BELL referred to here as "Landowner", and Recyc Systems, Inc, 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 LUNENBURG, 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
TM 58A, P 60			

☐ 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

HASKINS R. BELL, owner — Haskins R. Bell — 14300 CREEK STONE DR, CHESTERFIELD VA 23838

Landowner – Printed Name, Title — Signature — Mailing Address & Phone Number 804.796-3710

Permittee:

Recyc Systems, Inc, 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)

Permittee – Authorized Representative Printed Name — Signature — PO Box 562 Remington, Virginia 22734 Mailing Address

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

Permittee: Recyc Systems, Inc County or City: LUNENBURG Co.

Landowner: HASKINS R. BELL

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 30 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).

Haskins R. Bell 7-13-13

Landowner's Signature Date

Farm Operator Signature Mailing Address & Phone Number

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 7-14-13 between JOHNNY K. LONG referred to here as "Landowner", and Recyc Systems, Inc, 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 LUNENBURG Co. 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
TM 58A, P 44A	TM 59A, P 54A		
TM58A, P 66A	TM70, P8		
TM58A, P 67	TM 59(A) 53A		
TM59A, P 44	TM 70(A) 10		
TM59A, P 41 D	TM 71(A) 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
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

Johnny K. Long — Johnny K. Long — 3501 Laurel Branch Rd. Kenbridge VA 23944
Landowner – Printed Name, Title — Signature — Mailing Address & Phone Number
434-676-2142
434-321-3032

Permittee:

Recyc Systems, Inc, 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)

Permittee – Authorized Representative Printed Name — Signature — PO Box 562 Remington, Virginia 22734 Mailing Address

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

Permittee: Recyc Systems, Inc County or City: LUNENBURG Co.

Landowner: JOHNNY K. LONG

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).

Johnny K. Long 3502 Laurel Branch Rd. Kenbridge Va. 23944 7-14-2013

Landowner's Signature Date

(SAME)

Farm Operator Signature Mailing Address & Phone Number

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 7-13-13 between Ronald E. Long referred to here as "Landowner", and Recyc Systems, Inc, 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 Lunenburg Co, 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
TM59A, P1			
TM 58(A) 66B			
TM 58(A) 66C			

☐ 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

Ronald E Long — Ronald E Long — 1119 Beech Forest Rd, Kenbridge VA 23944, 434-676-3691

Landowner – Printed Name, Title — Signature — Mailing Address & Phone Number

Permittee:

Recyc Systems, Inc, 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)

PO Box 562 Remington, Virginia 22734

Permittee – Authorized Representative Printed Name — Signature — Mailing Address

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

Permittee: Recyc Systems, Inc County or City: LUNENBURG Co.

Landowner: RONALD E. LONG

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).

Ronald E. Long 7-13-13

Landowner's Signature Date

Mailing Address & Phone Number

Farm Operator Signature

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 7-15-13 between ANN D. MOORE referred to here as "Landowner", and Recyc Systems, Inc, 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 LUNENBURG Co 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
TM59A, P18			

☐ 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

ANN D. MOORE — Ann D Moore — 351 Rubin Lane, 434-676-8901, Lawrenceville, Va. 23868

Landowner – Printed Name, Title — Signature — Mailing Address & Phone Number

Permittee:

Recyc Systems, Inc, 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)

Permittee – Authorized Representative Printed Name — Signature — PO Box 562 Remington, Virginia 22734 Mailing Address

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

Permittee: Recyc Systems, Inc County or City: LUNENBURG Co.

Landowner: ANN D. MOORE

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).

Ann D. Moore 7-15-2013

Landowner's Signature Date

Farm Operator Signature Mailing Address & Phone Number

Rev 9/14/2012

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 7-14-13 between LUCILLE LONG referred to here as "Landowner", and Recyc Systems, Inc, 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 LUNENBURG Co. 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
Tm 59 AP, P 54 A			

☐ 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

Lucille Long — Lucille Long — Kenbridge VA 23944, 3502 Chinel Branch Rd

Landowner – Printed Name, Title — Signature — Mailing Address & Phone Number

1-434 676-2142

Permittee:

Recyc Systems, Inc, 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)

[signature] — PO Box 562 Remington, Virginia 22734

Permittee – Authorized Representative Printed Name — Signature — Mailing Address

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

Permittee: Recyc Systems, Inc County or City: LUNENBURG Co.

Landowner: LUCILLE LONG.

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 Permitee, 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 produ[illegible]ck shall not be grazed for 30 days.
   b. Lactating dairy animals shall not be grazed [illegible]
   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).

Lucille S. Long 7-14-13

Landowner's Signature Date

Mailing Address & Phone Number

Farm Operator Signature

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 7-13-13 between William Crafton referred to here as "Landowner", and Recyc Systems, Inc, 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 Lunenburg Co. 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
TM71A, P10A			
TM71A, P 11			

☐ 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

William C. Crafton — William C. Crafton — 4339 St John's Ch Rd, South Hill VA 23970

Landowner – Printed Name/ Title — Signature — Mailing Address & Phone Number

Permittee:

Recyc Systems, Inc, 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)

Permittee – Authorized Representative Printed Name — Signature — PO Box 562 Remington, Virginia 22734 Mailing Address

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

Permittee: Recyc Systems, Inc County or City: LUNENBURG, Co.

Landowner: WILLIAM CRAFTON

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).

William C. Crafton 7-13-13

Landowner's Signature Date

Farm Operator Signature Mailing Address & Phone Number

Rev. 6/14/2012

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 7-16-13 between PEARL S. LONG referred to here as "Landowner", and Recyc Systems, Inc, 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 LUNENBURG Co. 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
TM70, P8			

☐ 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

Pearl S. Long — Pearl S. Long — 3549 Laurel Branch Rd. Kenbridge VA 23944

Landowner – Printed Name, Title — Signature — Mailing Address & Phone Number 1-434-676-2142

Permittee:

Recyc Systems, Inc, 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)

Permittee – Authorized Representative Printed Name — Signature — PO Box 562 Remington, Virginia 22734 Mailing Address

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

Permittee: Recyc Systems, Inc County or City: LUNENBURG Co

Landowner: PEARL S. LONG

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).

Pearl S. Long 7-16-13

Landowner's Signature Date

Mailing Address & Phone Number

Farm Operator Signature

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 7-11-13 between Douglas Ragsdale referred to here as "Landowner", and Recyc Systems, Inc, 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
TM 59(A), P 54			
TM 59(3), P4			
TM 59(3), P5			
TM 59(3), P6			

☐ 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

Douglas Ragsdale Jr. — 12413 Greenwood Terrace, Bristol, VA 37934
Landowner – Printed Name — Signature — Mailing Address & Phone Number
865 924-2277

Permittee:

Recyc Systems, Inc, 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)

Permittee – Authorized Representative Printed Name — Signature — PO Box 562 Remington, Virginia 22734 Mailing Address

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

Permittee: Recyc Systems, Inc County or City: LUNENBURG

Landowner: DOUGLAS RAGSDALE

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).

Douglas Ragsdale Jr. 7/11/2013

Landowner's Signature Date

Farm Operator Signature Mailing address & Phone Number

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 10-28-13 between Randall Scott Long referred to here as "Landowner", and Recyc Systems, Inc, 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 Lunenburg, 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
59-3-9			
59-A-18A			

☐ 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

Randall Scott Long — Randall Scott Long by Johnny K. Long P.O.A. — 676-2142

Landowner – Printed Name, Title — Signature — Mailing Address & Phone Number

Permittee:
Recyc Systems, Inc, 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)

PO Box 562 Remington, Virginia 22734

Permittee – Authorized Representative Printed Name — Signature — Mailing Address

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

Permittee: Recyc Systems, Inc County or City: Lunenburg

Landowner: Randall Scott Long

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).

Randall S. Long 10-28-13

Landowner's Signature Date

Farm Operator Signature Mailing Address & Phone Number

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

Landowner Coordination Form

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

Permittee: Recyc Systems Site Name: Johnny K. Long

County or City: Lunenburg

Please Print Signature not required on this page

Tax Parcel ID(s)	Landowners (s)
TM 58 (A) 44A, 66A, 67 TM 59 (A) 41D, 44, 53A TM 70 (A) 10 TM 71 (A) 7	Johnny K. Long
TM 59 (A) 54 TM 59 (3) 4, 5, 6	Douglas Ingram Ragsdale Jr.
TM 59 (A) 18	Ann D. Moore
TM 58 (A) 60	Haskins R. Bell
TM 71 (A) 10A, 11	William Crafton
TM 58 (A) 66B, 66C TM 59 (A) 1	Ronald E. Long
TM 59 (A) 54A	Johnny K. or Lucille Long
TM 70 (A) 8	Johnny K. or Pearl S. Long
TM 59 (3) 9	Randall S. Long

Johnny K. Long

Lunenburg County

Owner (s)

Johnny K. Long
3502 Laurel Branch Road
Kenbridge, VA 23944
434-321-3032

Douglas Ragsdale Jr.
12113 Creekwood Terrace
Knoxville, TN 37934
865-924-2277

Ann D. Moore
351 Rubin Lane
Kenbridge, VA 23944
434-676-8901

Haskins R. Bell
14300 Creek Stone Drive
Chesterfield, VA 23838
804-796-3710

Ronald E. Long
1119 Beech Forest Road
Kenbridge, VA 23944
434-676-3691

William C. Crafton
4334 St. John's Church Road
South Hill, VA 23970
434-676-1006

Lucille Long
3502 Laurel Branch Road
Kenbridge, VA 23944
434-321-3032

Pearl S. Long
3502 Laurel Branch Road
Kenbridge, VA 23944
434-321-3032

Randall S. Long ; Johnny K. Long P.O.A.
3502 Laurel Branch Road
Kenbridge, VA 23944
434-321-3032

FARM DATA SHEET

SITE NAME:	Johnny K Long Site	COUNTY:	Lunenburg
OWNER:	See Attached	OPERATOR:	Johnny K Long
OWNER'S ADDRESS	See Attached	OPERATOR'S ADDRESS	3502 Laurel Branch Rd. Kenbridge Va. 23944
OWNER'S TELEPHONE	See Attached	OPERATOR'S TELEPHONE	(434) 676-2142
GENERAL FARM TYPE:	Hay/ Pasture	CELL PHONE:	(434) 321 - 3032
# CATTLE	400 Head	EMAIL:	----------
LAGOON or SLURRY	None	LATITUDE:	36° 52' 42" N
TOPO QUAD:	Kenbridge West/ Northview	LONGITUDE:	78° 08' 42" W
COMMENTS:			

RECYC SYSTEMS, INC
FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
LUJKL 1	25.6	24B(Nov-Apr)	-	-	-	CM10	TM59(A),54, 51 (30) 66	T729 Fields 3,4,5
LUJKL 2	33.6	10C2(Jan-Apr)	-	-	-	CM10	TM59(A),54A TM59(3),P6	T729/T595 Fields 6/1,2,12
LUJKL 3	15.7	10C2(Jan-Apr)	-	-	-	CM10	TM59(A),P54A	T595 Fields 3,4
LUJKL 4	24.2	-	-	-	-	CM10	TM59(A),P54A	T595 Fields 13,14
LUJKL 5	67.2	-	-	-	-	CM10	TM 111 (A) 11	T595 /T731 Fields15/1,2,4,5
LUJKL 6	18.5	-	-	-	-	CM10	TM59(3),P6	T729 Fields 7,8,9
LUJKL 7	26.9	-	-	-	-	CM10	TM59(3),P5	T729 Fields 10,11,12
LUJKL 8	37.4	-	-	-	-	CM10	TM59(3),P4	T729 Fields 14,15
LUJKL 9	25.2	-	-	-	-	CM10	TM59(3),P4	T729 Fields 16,17,21
LUJKL 10	20.7	6(Nov-Apr)	-	-	6(Jan-Dec)	CM10	TM59,P(3)-5	T729 Field 13
LUJKL 11	12.2	-	-	-	-	CM10	TM59,P(3)-4 TM59,P(3)-R	T729 Field 18
LUJKL 12	15.9	-	-	-	-	CM10	TM59(3),P4	T729 Fields 19,20

RECYC SYSTEMS, INC
FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
LUJKL 13	31.2	10B,10C2(Jan-Apr)	-	-	-	CM10	TM59(A),P54A	T595 Fields 9,10
LUJKL 14	25.8	-	-	-	-	CM10	TM58(A),P67	T528 Fields 2,3,4
LUJKL 15	32.2	-	-	-	-	CM10	TM58(A),P66A, 67	T528/T569 Fields 1/2,4,5
LUJKL 16	19.1	-	-	-	-	CM10	TM59(A),P1	T553 Fields 5,7
LUJKL 17	16.7	-	-	-	-	CM9, CM10	TM58(A),P44A	T623 Fields 3,5
LUJKL 18	18.4	12C2,13B(Dec- May)	20D	-	-	CM9	TM70(A),P8	T625 Fields 12,13
LUJKL 19	7.9	-	20D	-	-	CM9	TM70(A),P8	T625 Fields 2,3
LUJKL 20	21.3	12B,12C2(Dec-Apr)	20D,21D2	-	-	CM9	TM70(A),P8	T625 Fields 4,5,6
LUJKL 21	13.0	12B(Dec-Apr) 12B(Dec-Apr)	-	-	-	CM9	TM70(A),P8	T625 Field 1
LUJKL 22	30.5	12B,12C2(Dec-Apr)	-	-	-	CM9	TM70(A),P8	T625 Field 11
LUJKL 23	14.7	12B,12C2(Dec-Apr)	20D,21D2	-	-	CM9	TM70(A),P8	T625 Field 7
LUJKL 24	23.2	-	-	-	-	CM10	TM59(A),P18	T16171 Fields 25,26

RECYC SYSTEMS, INC
FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
LUJKL 25	21.1	-	-	-	-	CM10	TM59(A),P18	T16170/T16171 Fields 23/21
LUJKL 26	22.5	-	-	-	-	CM10	TM59(A),P18	T16170/T16171 Fields 24,27/4
LUJKL 27	18.4	-	-	-	-	CM10	TM59(A),P18	T16170 Field 22
LUJKL 28	22.3	6(Nov-Apr)	-	-	6(Jan-Dec)	CM10	TM59(A),P18	T16170 Fields 8,12,18,19,20
LUJKL 29	42.8	-	-	-	-	CM10	TM59(A),P18	T16170 Fields 1,2,3
LUJKL 30	14.3	-	-	-	-	CM10	TM59(A),P18,9	T16170 Fields 13,17
LUJKL 31	16.1	6(Nov-Apr)	-	-	6(Jan-Dec)	CM10	TM59(A),P9	T16170 Fields 14,15,16,24
LUJKL 32	12.0	-	-	-	-	CM10	TM71(A),P11	T3401 Field 1
LUJKL 33	12.4	-	-	-	-	CM10	TM58(A),P60	T502 Fields 1,2,3,4
LUJKL 34	24.6	-	-	-	-	CM10	TM58(A),P60	T502 Fields 5,6
LUJKL 35	13.2	-	-	-	-	CM10	TM58(A),P60	T502 Fields 7,8,9
LUJKL 36	11.1	-	-	-	-	CM10	TM59(A),P41D	T15808 Field 1
TOTAL ACRES IN SITE	807.9							

Report Number: 12-122-0617
Account Number: 70594

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A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
JOHNNY K LONG
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 05/01/2012 **Date Of Analysis:** 05/02/2012 **Date Of Report:** 05/03/2012

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
LUJKL 1	17834	2.3	L 9	90	110	H			98	H	133	H	568	M			6.6	6.90	0.3	4.5
LUJKL 2A	17835	2.1	L 8	86	70	H			144	VH	125	H	442	M			6.4	6.89	0.4	4.0

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
LUJKL 1	5.6	24.6	63.1		5.9																			
LUJKL 2A	9.2	26.0	55.3		8.9																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 12-122-0617
Account Number: 70594

www.allabs.com

A&L Eastern Laboratories

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SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
JOHNNY K LONG
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

Date Received: 05/01/2012
Date of Report: 05/02/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
LUJKL 11	Adjust pH to 6.8	0	1.0				0						
LUJKL 12A	Adjust pH to 6.8	0	1.0				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

Pauric McGroary

Report Number: 12-122-0626
Account Number: 70594

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Send To: RECYC SYSTEMS INC
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8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
JOHNNY K LONG/LUJKL
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 05/01/2012 **Date Of Analysis:** 05/02/2012 **Date Of Report:** 05/03/2012

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm Rat	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
2B	17845	1.7	L	79	123	VH			120	H	102	H	424	M			6.5	6.90	0.3	3.5
3	17846	3.0	M	101	82	H			215	VH	170	H	687	M			6.2	6.86	0.7	6.1
4	17847	2.2	L	87	79	H			130	H	159	H	675	M			6.8	6.91	0.2	5.2
5A	17848	1.7	L	79	82	H			27	VL	95	H	474	M			6.1	6.88	0.5	3.7
5B	17849	1.7	L	77	71	H			28	VL	127	H	612	M			6.2	6.87	0.6	4.8

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
2B	8.8	24.3	60.6		7.5																			
3	9.0	23.2	56.3		12.2																			
4	6.4	25.5	64.9		2.9																			
5A	1.9	21.4	64.1		13.9																			
5B	1.5	22.0	63.8		12.0																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 12-122-0626
Account Number: 70594

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A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
JOHNNY K LONG/LUJKL
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

Date Received: 05/01/2012
Date Of Report: 05/03/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
2B	Adjust pH to 6.8	0	1.0				0						
3	Adjust pH to 6.8	0	1.3				0						
4	Adjust pH to 6.8	0	0.0				0						
5A	Adjust pH to 6.8	0	1.3				0						
5B	Adjust pH to 6.8	0	1.3				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

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JOHNNY K LONG/LUJKL
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 05/01/2012 **Date Of Analysis:** 05/02/2012 **Date Of Report:** 05/03/2012

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rat	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
5C	17851	1.8	L	79	70		H			46	L	147	H	648	M			6.4	6.89	0.4	5.0
5D	17852	2.6	M	92	41		M			46	VL	174	H	959	H			6.6	6.89	0.4	6.8
6	17853	2.3	L	87	126		VH			126	H	140	H	651	M			5.7	6.80	1.3	6.0
7A	17854	1.9	L	81	20		L			121	H	105	H	471	L			5.4	6.79	1.4	4.9
7B	17855	2.1	L	85	14		L			74	M	100	H	509	M			5.4	6.79	1.4	5.0

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
5C	2.4	24.5	64.8		9.0																			
5D	1.7	21.3	70.5		5.9																			
6	5.4	19.4	54.3		21.1																			
7A	6.3	17.9	48.1		28.5																			
7B	3.8	16.7	50.9		28.2																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 12-122-0626
Account Number: 70594

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A&L Eastern Laboratories

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Send To: RECYC SYSTEMS INC
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Grower:
JOHNNY K LONG/LUJKL
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

Date Received: 05/01/2012
Date Of Report: 05/03/2012 SOI

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
5C	Adjust pH to 6.8	0	1.0				0						
5D	Adjust pH to 6.8	0	1.0				0						
6	Adjust pH to 6.8	0	1.8				0						
7A	Adjust pH to 6.8	0	2.0				0						
7B	Adjust pH to 6.8	0	2.0				0		*				

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

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Grower:
JOHNNY K LONG/LUJKL
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 05/01/2012 **Date Of Analysis:** 05/02/2012 **Date Of Report:** 05/03/2012

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm Rat	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
8A	17856	2.3	L	85	38	M			61	L	200	H	823	M			5.7	6.77	1.6	7.5
8B	17857	2.6	M	92	50	M			114	M	188	H	889	M			6.3	6.86	0.7	7.0
9	17858	1.9	L	79	91	H			23	VL	152	H	880	M			6.3	6.86	0.7	6.4
10	17859	2.3	L	86	71	H			51	VL	176	H	962	M			6.4	6.87	0.6	7.0
11	17860	2.2	L	83	92	H			195	VH	156	H	946	M			6.2	6.84	0.9	7.4

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
8A	2.1	22.2	54.9		21.1																			
8B	4.2	22.4	63.5		10.6																			
9	0.9	19.8	68.8		10.6																			
10	1.9	21.0	68.7		9.0																			
11	6.8	17.6	63.9		12.2																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 12-122-0626
Account Number: 70594

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A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
JOHNNY K LONG/LUJKL
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

Date Received: 05/01/2012
Date Of Report: 05/03/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
8A	Adjust pH to 6.8	0	1.8				0						
8B	Adjust pH to 6.8	0	1.0				0						
9	Adjust pH to 6.8	0	1.0				0						
10	Adjust pH to 6.8	0	1.0				0						
11	Adjust pH to 6.8	0	1.3				0						

Comments:

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Pauric McGroary

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Grower:
JOHNNY K LONG/LUJKL
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 05/01/2012 **Date Of Analysis:** 05/02/2012 **Date Of Report:** 05/03/2012

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm Rat	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
12	17861	2.1	L	83	24	L			36	VL	176	H	820	M			6.4	6.87	0.6	6.2
13A	17862	3.2	M	104	137	VH			149	H	228	H	936	M			6.7	6.90	0.3	7.3
13B	17863	2.1	L	85	75	H			201	VH	152	H	606	M			7.0		0.0	4.8
14	17864	1.7	L	78	102	H			46	L	112	H	614	H			6.9	6.92	0.1	4.2
15A	17865	1.7	L	78	57	H			39	VL	125	H	538	M			6.4	6.89	0.4	4.2

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
12	1.5	23.7	66.1		8.9																			
13A	5.2	26.0	64.1		4.5																			
13B	10.7	26.4	63.1		0.0																			
14	2.8	22.2	73.1		1.4																			
15A	2.4	24.8	64.0		8.9																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 12-122-0626
Account Number: 70594

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Grower:
JOHNNY K LONG/LUJKL
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

Date Received: 05/01/2012
Date Of Report: 05/03/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
12	Adjust pH to 6.8	0	1.0				0						
13A	Adjust pH to 6.8	0	1.0				0						
13B	Adjust pH to 6.8	0	0.0				0						
14	Adjust pH to 6.8	0	0.0				0						
15A	Adjust pH to 6.8	0	1.0				0						

Comments:

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Pauric McGroary

Pauric McGroary

Report Number: 12-128-0632
Account Number: 70594

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CULPEPER VA 22701

Grower:
JOHNNY K LONG
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 05/07/2012 **Date Of Analysis:** 05/08/2012 **Date Of Report:** 05/09/2012

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
LUJKL16	19276	1.6	L	78	130	VH			36	VL	75	H	329	M			5.7	6.87	0.6	3.0

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
LUJKL16	3.1	20.8	54.8		21.0																			

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Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 12-128-0632
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Grower:
JOHNNY K LONG
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

Date Received: 05/07/2012
Date Of Report: 05/09/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
LUJKL16	Adjust pH to 6.8	0	1.5				5						

Comments:

Sample(s) LUJKL16:

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

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Pauric McGroary

Pauric McGroary

Report Number: 12-122-0626
Account Number: 70594

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LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 05/01/2012 **Date Of Analysis:** 05/02/2012 **Date Of Report:** 05/03/2012

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rat	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
15B	17866	1.9	L	82	68		H			46	L	124	H	630	M			6.7	6.91	0.2	4.5
17	17867	1.6	L	77	70		H			37	VL	85	H	518	M			6.5	6.90	0.3	3.7
18	17868	2.4	L	87	19		L			25	VL	204	H	1009	M			6.5	6.88	0.5	7.4
19	17869	3.7	M	110	14		L			61	L	279	H	1212	M			6.2	6.81	1.2	9.7
20	17870	3.3	M	104	16		L			79	L	241	H	974	M			6.0	6.80	1.3	8.4

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
15B	2.6	23.0	70.0		4.5																			
17	2.6	19.1	70.0		7.3																			
18	0.9	23.0	68.2		7.4																			
19	1.6	24.0	62.5		12.2																			
20	2.4	23.9	58.0		15.3																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

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Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 12-122-0626
Account Number: 70594

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CULPEPER VA 22701

Grower:
JOHNNY K LONG/LUJKL
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

Date Received: 05/01/2012
Date Of Report: 05/03/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
15B	Adjust pH to 6.8	0	1.0				0						
17	Adjust pH to 6.8	0	1.0				0						
18	Adjust pH to 6.8	0	1.0				0						
19	Adjust pH to 6.8	0	1.3				0						
20	Adjust pH to 6.8	0	1.5				0						

Comments:

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LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 05/01/2012 **Date Of Analysis:** 05/02/2012 **Date Of Report:** 05/03/2012

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm Rat	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
21	17871	3.3	M	103	34	M			163	H	220	H	970	M			5.8	6.76	1.7	8.8
22A	17873	2.7	M	95	31	M			23	VL	160	H	764	M			6.0	6.84	0.9	6.2
22B	17874	3.3	M	104	17	L			37	VL	260	H	1097	M			6.3	6.84	0.9	8.7
23	17875	3.2	M	99	31	M			39	VL	334	H	1329	M			6.3	6.82	1.1	10.7

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
21	4.7	20.8	55.1		19.0																			
22A	1.0	21.5	61.6		15.3																			
22B	1.1	24.9	63.0		10.5																			
23	0.9	26.0	62.1		10.5																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

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Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

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Submitted By: DREW REYNOLDS
Farm ID:

Date Received: 05/01/2012
Date Of Report: 05/03/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
21	Adjust pH to 6.8	0	1.8				0						
22A	Adjust pH to 6.8	0	1.3				0						
22B	Adjust pH to 6.8	0	1.0				0						
23	Adjust pH to 6.8	0	1.0				0						

Comments:

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Pauric McGroary

Pauric McGroary

Report Number: 12-128-0631
Account Number: 70594

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Grower:
JOHNNY K LONG
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 05/07/2012 **Date Of Analysis:** 05/08/2012 **Date Of Report:** 05/09/2012

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
LUJKL24	19261	2.0	L	82	72	H			56	L	169	H	713	M			6.7	6.91	0.2	5.4
LUJKL25	19262	1.6	L	76	59	H			77	M	120	H	559	M			7.0		0.0	4.0
LUJKL26	19263	2.0	L	83	70	H			68	M	152	H	672	M			6.9	6.92	0.1	4.9
LUJKL27	19265	2.2	L	86	52	H			58	L	171	H	815	H			6.8	6.91	0.2	5.8
LUJKL28	19266	1.7	L	77	114	H			54	L	142	H	596	M			6.4	6.89	0.4	4.7

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
LUJKL24	2.7	26.1	66.0		4.5																			
LUJKL25	4.9	25.0	69.9		0.0																			
LUJKL26	3.6	25.9	68.6		1.4																			
LUJKL27	2.6	24.6	70.3		2.9																			
LUJKL28	2.9	25.2	63.4		9.0																			

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Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

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Report Number: 12-128-0631
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LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

Date Received: 05/07/2012
Date Of Report: 05/09/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
LUJKL24	Adjust pH to 6.8	0	1.0				0						
LUJKL25	Adjust pH to 6.8	0	0.0				0						
LUJKL26	Adjust pH to 6.8	0	0.0				0						
LUJKL27	Adjust pH to 6.8	0	0.0				0						
LUJKL28	Adjust pH to 6.8	0	1.0				0						

Comments:

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Submitted By: DREW REYNOLDS
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 05/07/2012 **Date Of Analysis:** 05/08/2012 **Date Of Report:** 05/09/2012

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rat	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
LUJKL29A	19267	1.5	L	75	131		VH			42	L	97	H	427	M			6.0	6.87	0.6	3.6
LUJKL29B	19268	1.8	L	80	81		H			41	L	128	H	581	M			6.6	6.90	0.3	4.3
LUJKL30	19269	2.1	L	84	60		H			66	L	159	H	731	M			6.8	6.91	0.2	5.3
LUJKL31	19270	2.9	M	98	17		L			94	M	209	H	984	H			7.1		0.0	6.9
LUJKL32	19271	1.6	L	78	50		M			39	VL	76	H	361	M			6.0	6.88	0.5	3.0

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
LUJKL29A	3.0	22.5	59.3		15.4																			
LUJKL29B	2.4	24.8	67.6		6.0																			
LUJKL30	3.2	25.0	69.0		2.9																			
LUJKL31	3.5	25.2	71.3		0.0																			
LUJKL32	3.3	21.1	60.2		15.4																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 12-128-0631
Account Number: 70594

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446
www.allabs.com

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
JOHNNY K LONG
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

Date Received: 05/07/2012
Date Of Report: 05/09/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
LUJKL29A	Adjust pH to 6.8	0	1.3				0						
LUJKL29B	Adjust pH to 6.8	0	1.0				0						
LUJKL30	Adjust pH to 6.8	0	0.0				0						
LUJKL31	Adjust pH to 6.8	0	0.0				0						
LUJKL32	Adjust pH to 6.8	0	1.3				4						

Comments:

Sample(s) LUJKL32:

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

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Report Number: 12-128-0631
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Grower:
JOHNNY K LONG
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 05/07/2012 **Date Of Analysis:** 05/08/2012 **Date Of Report:** 05/09/2012

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
LUJKL33	19272	2.2	L	88	33	M			60	L	126	H	496	M			6.2	6.88	0.5	4.2
LUJKL34	19273	2.4	L	90	76	H			68	L	144	H	698	M			6.5	6.89	0.4	5.3
LUJKL35	19274	2.5	L	92	68	H			71	L	157	H	764	M			6.5	6.89	0.4	5.7
LUJKL36	19275	2.7	M	97	52	H			49	L	136	H	756	H			7.2		0.0	5.0

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
LUJKL33	3.7	25.0	59.0		12.1																			
LUJKL34	3.3	22.6	65.8		7.3																			
LUJKL35	3.2	23.0	67.0		7.5																			
LUJKL36	2.5	22.7	75.6		0.0																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 12-128-0631
Account Number: 70594

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A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
JOHNNY K LONG
LUNENBURG

Submitted By: DREW REYNOLDS
Farm ID:

Date Received: 05/07/2012
Date Of Report: 05/09/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
LUJKL33	Adjust pH to 6.8	0	1.3				0						
LUJKL34	Adjust pH to 6.8	0	1.0				0						
LUJKL35	Adjust pH to 6.8	0	1.0				0						
LUJKL36	Adjust pH to 6.8	0	0.0				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

Pauric McGroary

NUTRIENT MANAGEMENT PLAN IDENTIFICATION

Operator
Johnny Long
3502 Laurel Branch Road
Kenbridge, VA 23944
phone #

Integrator:*None*

Farm Coordinates
Easting: 0, Northing: 0, zone: 17

Watershed Summary
watershed: CM10-CM9
county: Lunenburg

Nutrient Management Planner
[redacted]

Acreage Use Summary
Total Acreage in this plan: 807.9

Cropland:	0.
Hayland:	807.9
Pasture:	0.
Specialty:	0.

Livestock Summary

Beef Cattle	0
Dairy Cattle	0
Poultry	0
Swine	0
Other	0

Manure Production Balance

	Imported	Produced	Exported	Used	Net
kgals	0.	0.	0.	0.	0.
tons	0.	0.	0.	0.	0.

Plan written 1/1/2013
Valid until 1/1/2014

[redacted]

Signature: _____

Planner **date**

Nutrient Management Plan Balance Sheet
(Spring, 2013-Spring, 2014)
Johnny K. Long
[redacted]

Tract: T 502 **Location: Lunenburg**
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 33(N)	12/12	2013	Hay/Pasture	100-50-110	0/0				100-50-110	N/A			
0/LUJKL 34(N)	25/25	2013	Hay/Pasture	100-40-110	0/0				100-40-110	N/A			
0/LUJKL 35(N)	13/13	2013	Hay/Pasture	100-40-95	0/0				100-40-95	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress
Notes:

Tract: T 528 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 14(N)	26/26	2013	Hay/Pasture	100-40-120	0/0				100-40-120	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 528/569 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Blos N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 15(N)	32/32	2013	Hay/Pasture	100-40-120	0/0				100-40-120	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 553 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 16(1P)	19/19	2013	Hay/Pasture	100-0-130	0/0				100-0-130	26			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 595 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 3(N)	16/16	2013	Hay/Pasture	100-40-40	0/0				100-40-40	N/A			
0/LUJKL 4(N)	24/24	2013	Hay/Pasture	100-40-70	0/0				100-40-70	N/A			
0/LUJKL 13(N)	31/31	2013	Hay/Pasture	100-40-40	0/0				100-40-40	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 595/731 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 5(N)	67/67	2013	Hay/Pasture	100-40-130	0/0				100-40-130	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 623 Location: Lunenburg

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Blos N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 17(N)	17/17	2013	Hay/Pasture	100-40-120	0/0				100-40-120	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 625 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 18(N)	18/18	2013	Hay/Pasture	100-70-130	0/0				100-70-130	N/A			
0/LUJKL 19(N)	8/8	2013	Hay/Pasture	100-80-110	0/0				100-80-110	N/A			
0/LUJKL 20(N)	21/21	2013	Hay/Pasture	100-70-95	0/0				100-70-95	N/A			
0/LUJKL 21(N)	13/13	2013	Hay/Pasture	100-50-55	0/0				100-50-55	N/A			
0/LUJKL 22(N)	31/31	2013	Hay/Pasture	100-60-130	0/0				100-60-130	N/A			
0/LUJKL 23(N)	15/15	2013	Hay/Pasture	100-50-130	0/0				100-50-130	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 729 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Nat = Needs - appld N-P-K (lbs/ac)	Sum P rem. cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 1(N)	26/26	2013	Hay/Pasture	100-40-95	0/0				100-40-95	N/A			
0/LUJKL 6(N)	19/19	2013	Hay/Pasture	100-40-70	0/0				100-40-70	N/A			
0/LUJKL 7(N)	27/27	2013	Hay/Pasture	100-70-95	0/0				100-70-95	N/A			
0/LUJKL 8(N)	37/37	2013	Hay/Pasture	100-40-95	0/0				100-40-95	N/A			
0/LUJKL 9(N)	25/25	2013	Hay/Pasture	100-40-130	0/0				100-40-130	N/A			
0/LUJKL 10(N)	21/21	2013	Hay/Pasture	100-40-120	0/0				100-40-120	N/A			
0/LUJKL 11(N)	12/12	2013	Hay/Pasture	100-40-55	0/0				100-40-55	N/A			
0/LUJKL 12(N)	16/16	2013	Hay/Pasture	100-60-130	0/0				100-60-130	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 729/595 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Blos N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 2(N)	34/34	2013	Hay/Pasture	100-40-70	0/0				100-40-70	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 3401 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Blos N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 32(N)	12/12	2013	Hay/Pasture	100-40-130	0/0				100-40-130	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 16170 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
0/LUJKL 27(N)	18/18	2013	Hay/Pasture	100-40-110	0/0				100-40-110	N/A		
0/LUJKL 28(N)	22/22	2013	Hay/Pasture	100-40-110	0/0				100-40-110	N/A		
0/LUJKL 29(N)	43/43	2013	Hay/Pasture	100-40-120	0/0				100-40-120	N/A		
0/LUJKL 30(N)	14/14	2013	Hay/Pasture	100-40-110	0/0				100-40-110	N/A		
0/LUJKL 31(N)	16/16	2013	Hay/Pasture	100-70-95	0/0				100-70-95	N/A		

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 16170/16171 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 25(N)	21/21	2013	Hay/Pasture	100-40-95	0/0				100-40-95	N/A			
0/LUJKL 26(N)	23/23	2013	Hay/Pasture	100-40-110	0/0				100-40-110	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: T 16171 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
0/LUJKL 24(N)	23/23	2013	Hay/Pasture	100-40-110	0/0				100-40-110	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Johnny K. Long Narrative

This is the Johnny K. Long farm located in Lunenburg County. The farm consists of hay pasture fields.

This is a partial plan written for the purpose of obtaining a biosolids permit. Biosolids application has not been shown since it is uncertain when a permit will be obtained. the partial plan will be revised prior to application to obtain a target biosolids application rate.

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
T 502	LUJKL 33	12	2012-Sp	M (33 P ppm)	M- (60 K ppm)	A&L MIII	6.2		
T 502	LUJKL 34	25	2012-Sp	H (76 P ppm)	M- (68 K ppm)	A&L MIII	6.5		
T 502	LUJKL 35	13	2012-Sp	H- (68 P ppm)	M (71 K ppm)	A&L MIII	6.5		
T 528	LUJKL 14	26	2012-Sp	H+ (102 P ppm)	L+ (46 K ppm)	A&L MIII	6.9		
T 528/569	LUJKL 15	32	2012-Sp	H- (63 P ppm)	L+ (43 K ppm)	A&L MIII	6.6		
T 553	LUJKL 16	19	2012-Sp	VH (130 P ppm)	L (36 K ppm)	A&L MIII	5.7		
T 595	LUJKL 3	16	2012-Sp	H (82 P ppm)	H+ (215 K ppm)	A&L MIII	6.2		
T 595	LUJKL 4	24	2012-Sp	H (79 P ppm)	H- (130 K ppm)	A&L MIII	6.8		
T 595	LUJKL 13	31	2012-Sp	H (75 P ppm)	H+ (201 K ppm)	A&L MIII	6.9		
T 595/731	LUJKL 5	67	2012-Sp	H- (66 P ppm)	L (37 K ppm)	A&L MIII	6.3		
T 623	LUJKL 17	17	2012-Sp	H- (68 P ppm)	L+ (46 K ppm)	A&L MIII	6.5		
T 625	LUJKL 18	18	2012-Sp	L+ (19 P ppm)	L (25 K ppm)	A&L MIII	6.5		
T 625	LUJKL 19	8	2012-Sp	L (14 P ppm)	M- (61 K ppm)	A&L MIII	6.2		
T 625	LUJKL 20	21	2012-Sp	L+ (16 P ppm)	M (79 K ppm)	A&L MIII	6.		
T 625	LUJKL 21	13	2012-Sp	M (34 P ppm)	H (163 K ppm)	A&L MIII	5.8		
T 625	LUJKL 22	31	2012-Sp	M- (24 P ppm)	L (30 K ppm)	A&L MIII	6.2		
T 625	LUJKL 23	15	2012-Sp	M (31 P ppm)	L (39 K ppm)	A&L MIII	6.3		
T 729	LUJKL 1	26	2012-Sp	H+ (110 P ppm)	M (98 K ppm)	A&L MIII	6.6		
T 729	LUJKL 6	19	2012-Sp	H+ (126 P ppm)	H- (126 K ppm)	A&L MIII	5.7		
T 729	LUJKL 7	27	2012-Sp	L+ (17 P ppm)	M (97 K ppm)	A&L MIII	5.4		
T 729	LUJKL 8	37	2012-Sp	M+ (44 P ppm)	M (88 K ppm)	A&L MIII	6.		
T 729	LUJKL 9	25	2012-Sp	H (91 P ppm)	L (23 K ppm)	A&L MIII	6.3		
T 729	LUJKL 10	21	2012-Sp	H (71 P ppm)	L+ (51 K ppm)	A&L MIII	6.4		
T 729	LUJKL 11	12	2012-Sp	H (92 P ppm)	H (195 K ppm)	A&L MIII	6.2		
T 729	LUJKL 12	16	2012-Sp	M- (24 P ppm)	L (36 K ppm)	A&L MIII	6.4		
T 729/595	LUJKL 2	34	2012-Sp	H (96 P ppm)	H- (132 K ppm)	A&L MIII	6.5		
T 3401	LUJKL 32	12	2012-Sp	H- (50 P ppm)	L (39 K ppm)	A&L MIII	6.		
T 15808	LUJKL 36	11	2012-Sp	H- (52 P ppm)	L+ (49 K ppm)	A&L MIII	7.2		
T 16170	LUJKL 27	18	2012-Sp	H- (52 P ppm)	M- (58 K ppm)	A&L MIII	6.8		
T 16170	LUJKL 28	22	2012-Sp	H+ (114 P ppm)	M- (54 K ppm)	A&L MIII	6.4		
T 16170	LUJKL 29	43	2012-Sp	H+ (106 P ppm)	L+ (42 K ppm)	A&L MIII	6.3		
T 16170	LUJKL 30	14	2012-Sp	H- (60 P ppm)	M- (66 K ppm)	A&L MIII	6.8		
T 16170	LUJKL 31	16	2012-Sp	L+ (17 P ppm)	M (94 K ppm)	A&L MIII	7.1		
T 16170/16171	LUJKL 25	21	2012-Sp	H- (59 P ppm)	M (77 K ppm)	A&L MIII	7.		
T 16170/16171	LUJKL 26	23	2012-Sp	H (70 P ppm)	M- (68 K ppm)	A&L MIII	6.9		
T 16171	LUJKL 24	23	2012-Sp	H (72 P ppm)	M- (56 K ppm)	A&L MIII	6.7		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
T 602	0/0	LUJKL 33	12	Appling	IVb	IV	III	IV	
	0/0	LUJKL 34	25	Appling	IVb	IV	III	IV	
	0/0	LUJKL 35	13	Appling	IVb	IV	III	IV	
T 528	0/0	LUJKL 14	26	Appling	IVb	IV	III	IV	
T 528/569	0/0	LUJKL 15	32	Appling	IVb	IV	III	IV	
T 553	0/0	LUJKL 16	19	Appling	IVb	IV	III	IV	
T 595	0/0	LUJKL 3	16	Appling	V	IV	III	IV	
	0/0	LUJKL 4	24	Appling	IVb	IV	III	IV	
	0/0	LUJKL 13	31	Appling	V	IV	III	IV	
T 595/731	0/0	LUJKL 5	67	Appling	IVb	IV	III	IV	
T 623	0/0	LUJKL 17	17	Appling	IVb	IV	III	IV	
T 625	0/0	LUJKL 18	18	Herndon	V	IV	Not Suited	IV	
	0/0	LUJKL 19	8	Herndon	V	IV	III	IV	
	0/0	LUJKL 20	21	Georgeville	V	IV	III	IV	
	0/0	LUJKL 21	13	Georgeville	V	IV	III	IV	
	0/0	LUJKL 22	31	Iredell	V	V	Not Suited	IV	
	0/0	LUJKL 23*	15	Iredell	V	IV	Not Suited	IV	High Slope
T 729	0/0	LUJKL 1	26	Appling	IVb	IV	III	IV	
	0/0	LUJKL 6*	19	Pacolet	IVb	IV	III	IV	High Slope
	0/0	LUJKL 7	27	Madison	IVb	IV	III	IV	
	0/0	LUJKL 8	37	Cecil	IVb	IV	III	IV	
	0/0	LUJKL 9	25	Cecil	V	IV	III	IV	
	0/0	LUJKL 10	21	Madison	IVb	IV	III	IV	
	0/0	LUJKL 11	12	Madison	V	IV	III	IV	
	0/0	LUJKL 12	16	Madison	IVb	IV	III	IV	
T 729/595	0/0	LUJKL 2	34	Appling	IVb	IV	III	IV	
T 3401	0/0	LUJKL 32	12	Cecil	IVb	IV	III	IV	
T 168	0/0	LUJKL 36	11	Appling	IVb	IV	III	IV	
T 1770	0/0	LUJKL 27	18	Cecil	IVb	IV	III	IV	
	0/0	LUJKL 28	22	Appling	IVb	IV	III	IV	
	0/0	LUJKL 29	43	Appling	IVb	IV	III	IV	
	0/0	LUJKL 30	14	Appling	IVb	IV	III	IV	

	0/0	LUJKL 31	16	Madison	IVb	III	III	III
T 16170/1617	0/0	LUJKL 25	21	Cecil	V	IV	III	IV
	0/0	LUJKL 26	23	Cecil	IVb	IV	III	IV
T 16171	0/0	LUJKL 24	23	Cecil	V	IV	III	IV

* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applicaions.

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: **New Plan** **Spring, 2013 - Spring, 2014**

Farm Name: **Johnny K. Long**
Location: Lunenburg
Specialist: Harrison Moody
N-based Acres: 788.8
P-based Acres: 19.1

Tract Name: **T 502**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 33**
Total Acres: 12.40 Usable Acres: 12.40
FSA Number: 0
Tract: T 502
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.2	M(33 P ppm)	M-(60 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
62	1B2 App	Appling
12	1C2 App	Appling
11	5B2 Ceo	Cecil
12	5C2 Ceo	Cecil
4	23D2 Wed	Wedowee

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 34**
Total Acres: 24.60 Usable Acres: 24.60
FSA Number: 0
Tract: T 502
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab

Sp-2012	6.5	H(76 P ppm)	M-(68 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
95	1B2	Appling
5	1C2	Appling
0	5C2	Cecil

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 35**
Total Acres: 13.20 Usable Acres: 13.20
FSA Number: 0
Tract: T 502
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.5	H-(68 P ppm)	M(71 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
81	1B2	Appling
10	1C2	Appling
10	4B	Caroline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Tract Name: **T 528**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 14**
Total Acres: 25.80 Usable Acres: 25.80
FSA Number: 0
Tract: T 528
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.9	H+(102 P ppm)	L+(46 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
89	1B2	Appling
11	1C2	Appling

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Tract Name: **T 528/569**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 15**
Total Acres: 32.20 Usable Acres: 32.20
FSA Number: 0
Tract: T 528/569
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.6	H-(63 P ppm)	L+(43 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
64	1B2	Appling
36	1C2	Appling

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Tract Name: **T 553**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 16**
Total Acres: 19.10 Usable Acres: 19.10
FSA Number: 0
Tract: T 553
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
P-based(1.0)
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	5.7	VH(130 P ppm)	L(36 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
95	1B2	Appling
5	1C2	Appling

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Tract Name: **T 595**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 3**
Total Acres: 15.70 Usable Acres: 15.70
FSA Number: 0
Tract: T 595
Location: Lunenburg
Slope Class: C Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.2	H(82 P ppm)	H+(215 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
43	1B2	Appling
53	1C2	Appling
4	10C2	Helena

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.6 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 4**
Total Acres: 24.20 Usable Acres: 24.20
FSA Number: 0
Tract: T 595
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.8	H(79 P ppm)	H-(130 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
73	1B2	Appling
27	1C2	Appling

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 13**
Total Acres: 31.20 Usable Acres: 31.20
FSA Number: 0
Tract: T 595
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0

T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.9	H(75 P ppm)	H+(201 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
67 1B	1B2 App	Appling
23 1C	1C2 App	Appling
3 10	10B Hel	Helena
7 10C	10C2 Hel	Helena

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.6 * ton	Hay/Pasture - No Till

Tract Name: **T 595/731**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 5**
Total Acres: 67.20 Usable Acres: 67.20
FSA Number: 0
Tract: T 595/731
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary

N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.3	H-(66 P ppm)	L(37 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
61	1B2	Appling
26	1C2	Appling
4	5B2	Cecil
4	5C2	Cecil
2	6	Augusta Chewacla Toccoa
3	23D2	Wedowee

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Tract Name: **T 623**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 17**
Total Acres: 16.70 Usable Acres: 16.70
FSA Number: 0
Tract: T 623
Location: Lunenburg
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0	Slope Len: 0.	R factor: 0.0	K factor: 0.0
T factor: 0.0	P factor: 1.0	Cmax: 0.000	Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.5	H-(68 P ppm)	L+(46 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
88	1B2	Appling
6	1C2	Appling
6	4B	Caroline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Tract Name: **T 625**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 18**
Total Acres: 18.40 Usable Acres: 18.40
FSA Number: 0
Tract: T 625
Location: Lunenburg
Slope Class: C Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0	Slope Len: 0.	R factor: 0.0	K factor: 0.0
T factor: 0.0	P factor: 1.0	Cmax: 0.000	Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.5	L+(19 P ppm)	L(25 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
15	11B2	Herndon
36	11C2	Herndon
0	12B	Iredell
27	12C2	Iredell
14	13B	Lignum
6	20D	Poindexter
1	21D2	Tatum

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.6 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 19**
Total Acres: 7.90 Usable Acres: 7.90
FSA Number: 0

Tract: T 625
Location: Lunenburg
Slope Class: C Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.2	L(14 P ppm)	M-(61 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
52	11C2 Hendon	Hendon
2	12C2 Iredell	Iredell
6	20D Poindexter	Poindexter
41	8B2 Georgeville	Georgeville

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.8 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 20**
Total Acres: 21.30 Usable Acres: 21.30
FSA Number: 0

Tract: T 625
Location: Lunenburg
Slope Class: C Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.0	L+(16 P ppm)	M(79 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
33	8B2	Georgeville
7	8C2	Georgeville
4	11C2	Herndon
10	12B	Iredell
14	12C2	Iredell
6	20D	Poindexter
26	21D2	Tatum

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.8 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 21**
Total Acres: 13.00 Usable Acres: 13.00
FSA Number: 0
Tract: T 625
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	5.8	M(34 P ppm)	H(163 K ppm)	A&L Mill

Soils:

PERCENT	SYMBOL	SOIL SERIES
94	8B2	Georgeville
6	12B	Iredell

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.9 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 22**
Total Acres: 30.50 Usable Acres: 30.50

FSA Number: 0
Tract: T 625
Location: Lunenburg
Slope Class: C Hydrologic Group: C

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.2	M-(24 P ppm)	L(30 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
44	12B	Iredell
54	12C2	Iredell
2	20D	Poindexter
1	21D2	Tatum

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.5 * ton	Hay/Pasture - No Till

Field Name: LUJKL 23
Total Acres: 14.70 Usable Acres: 14.70

FSA Number: 0
Tract: T 625
Location: Lunenburg
Slope Class: C Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.3	M(31 P ppm)	L(39 K ppm)	A&L Mill

Soils:

PERCENT	SYMBOL	SOIL SERIES
10	8B2	Georgeville
22	12B	Iredell
11	12C2	Iredell
5	16B2	Mecklenburg
30	20D	Poindexter
22	21D2	Tatum

Field Warnings:
Environmentally Sensitive Soils due to:

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.8 * ton	Hay/Pasture - No Till

Tract Name: **T 729**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 1**
Total Acres: 25.60 Usable Acres: 25.60
FSA Number: 0
Tract: T 729
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.6	H+(110 P ppm)	M(98 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
87	1B2	Appling
10	1C2	Appling
3	24B	Worsham

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 6**
Total Acres: 18.50 Usable Acres: 18.50
FSA Number: 0
Tract: T 729
Location: Lunenburg
Slope Class: D Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	5.7	H+(126 P ppm)	H-(126 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
35	1C2	Appling
7	5B2	Cecil
58	19D2	Pacolet

Field Warnings:
Environmentally Sensitive Soils due to:

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.8 * ton	Hay/Pasture - Tilled

Field Name: **LUJKL 7**
Total Acres: 26.90 Usable Acres: 26.90
FSA Number: 0
Tract: T 729
Location: Lunenburg
Slope Class: C Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	5.4	L+(17 P ppm)	M(97 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
0	1B2	Appling

21	1C2	Appling
33	5B2	Cecil
10	14B2	Madison
35	14C2	Madison

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.8 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 8**

Total Acres: 37.40 Usable Acres: 37.40
FSA Number: 0
Tract: T 729
Location: Lunenburg
Slope Class: C Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.0	M+(44 P ppm)	M(88 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES

33	5B2	Cecil
26	5C2	Cecil
15	14B2	Madison
27	14C2	Madison

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.9 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 9**
Total Acres: 25.20 Usable Acres: 25.20
FSA Number: 0
Tract: T 729
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.3	H(91 P ppm)	L(23 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES

36	5B2	Cecil
44	5C2	Cecil
20	14B2	Madison
1	14C2	Madison

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.9 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 10**
Total Acres: 20.70 Usable Acres: 20.70
FSA Number: 0
Tract: T 729
Location: Lunenburg
Slope Class: C Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.4	H(71 P ppm)	L+(51 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES

2	6	Augusta Chewacla Toccoa
33	14B2	Madison
65	14C2	Madison

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.9 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 11**
Total Acres: 12.20 Usable Acres: 12.20
FSA Number: 0
Tract: T 729
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.2	H(92 P ppm)	H(195 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
2	2D	Ashlar

81	14B2	Madison
17	14C2	Madison

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.9 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 12**
Total Acres: 15.90 Usable Acres: 15.90
FSA Number: 0
Tract: T 729
Location: Lunenburg
Slope Class: C Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.4	M-(24 P ppm)	L(36 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
36	14B2	Madison
64	14C2	Madison

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.9 * ton	Hay/Pasture - No Till

Tract Name: **T 729/595**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 2**
Total Acres: 33.60 Usable Acres: 33.60
FSA Number: 0
Tract: T 729/595
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.5	H(96 P ppm)	H-(132 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES

87	1B2	Appling
7	1C2	Appling
2	2C	Ashlar
0	5B2	Cecil
5	11C2	Herndon

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Tract Name: **T 3401**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 32**
Total Acres: 12.00 Usable Acres: 12.00
FSA Number: 0
Tract: T 3401
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab

Sp-2012 6.0 H-(50 P ppm) L(39 K ppm) A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
81	5B2	Cecil
15	5C2	Cecil
4	19D2	Pacolet

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.9 * ton	Hay/Pasture - No Till

Tract Name: **T 15808**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 36**
Total Acres: 11.10 Usable Acres: 11.10
FSA Number: 0
Tract: T 15808
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	7.2	H-(52 P ppm)	L+(49 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
94	1B2	Appling
6	1C2	Appling

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Tract Name: **T 16170**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 27**
Total Acres: 18.40 Usable Acres: 18.40
FSA Number: 0
Tract: T 16170
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0

T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.8	H-(52 P ppm)	M-(58 K ppm)	A&L Mill

Soils:

PERCENT	SYMBOL	SOIL SERIES
23	1B2	Appling
69	5B2	Cecil
8	23D2	Wedowee

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.8 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 28**
Total Acres: 22.30 Usable Acres: 22.30
FSA Number: 0
Tract: T 16170
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.4	H+(114 P ppm)	M-(54 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
54	1B2	Appling
41	1C2	Appling
5	6	Augusta Chewacla Toccoa

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.6 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 29**
Total Acres: 42.80 Usable Acres: 42.80
FSA Number: 0
Tract: T 16170
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.3	H+(106 P ppm)	L+(42 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
81	1B2	Appling
19	1C2	Appling

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 30**
Total Acres: 14.30 Usable Acres: 14.30
FSA Number: 0
Tract: T 16170
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.8	H-(60 P ppm)	M-(66 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
28	1B2	Appling
38	1C2	Appling
31	5B2	Cecil
3	23D2	Wedowee

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 31**
Total Acres: 16.10 Usable Acres: 16.10
FSA Number: 0
Tract: T 16170
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	7.1	L+(17 P ppm)	M(94 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
0 5C	5C2	Cecil l
2	6	Augusta Chewacla Toccoa
61 14B	14B2	Madison n
22 14C	14C2	Madison n
14 15	15B	Masada a
1 230	23D2	Wedowee

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	2.0 * ton	Hay/Pasture - No Till

Tract Name: **T 16170/16171**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 25**
Total Acres: 21.10 Usable Acres: 21.10
FSA Number: 0
Tract: 16170/16171
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	7.0	H-(59 P ppm)	M(77 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
26	1C2	Appling
70	5B2	Cecil
4	10B	Helena

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.8 * ton	Hay/Pasture - No Till

Field Name: **LUJKL 26**
Total Acres: 22.50 Usable Acres: 22.50
FSA Number: 0
Tract: 16170/16171
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.9	H(70 P ppm)	M-(68 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
9 1B	1B2	Appling
10 1C	1C2	Appling
78 5B	5B2	Cecil
3 230	23D2	Wedowee

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.8 * ton	Hay/Pasture - No Till

Tract Name: **T 16171**
FSA Number: 0
Location: Lunenburg

Field Name: **LUJKL 24**
Total Acres: 23.20 Usable Acres: 23.20
FSA Number: 0
Tract: T 16171
Location: Lunenburg
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0	Slope Len: 0.	R factor: 0.0	K factor: 0.0
T factor: 0.0	P factor: 1.0	Cmax: 0.000	Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2012	6.7	H(72 P ppm)	M-(56 K ppm)	A&L Mill

Soils:

PERCENT	SYMBOL	SOIL SERIES
18 1B	1B2 Appling	
14 1C	1C2 Appling	
64 5B	5B2 Cecil	
4 10	10B Helena	

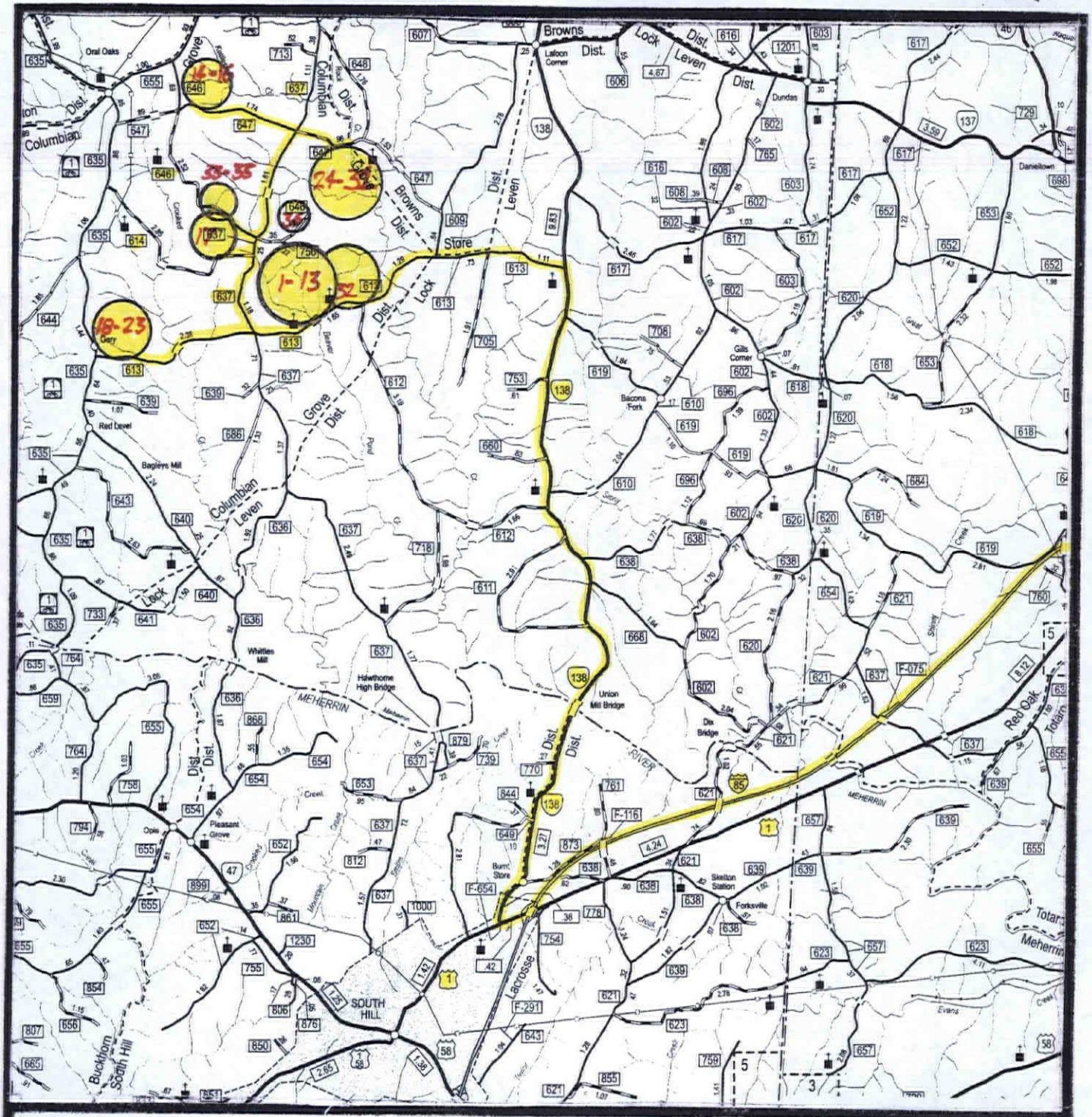
Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.8 * ton	Hay/Pasture - No Till

MAPS

Recyc Systems™ Inc. (Biosolids Land Application)

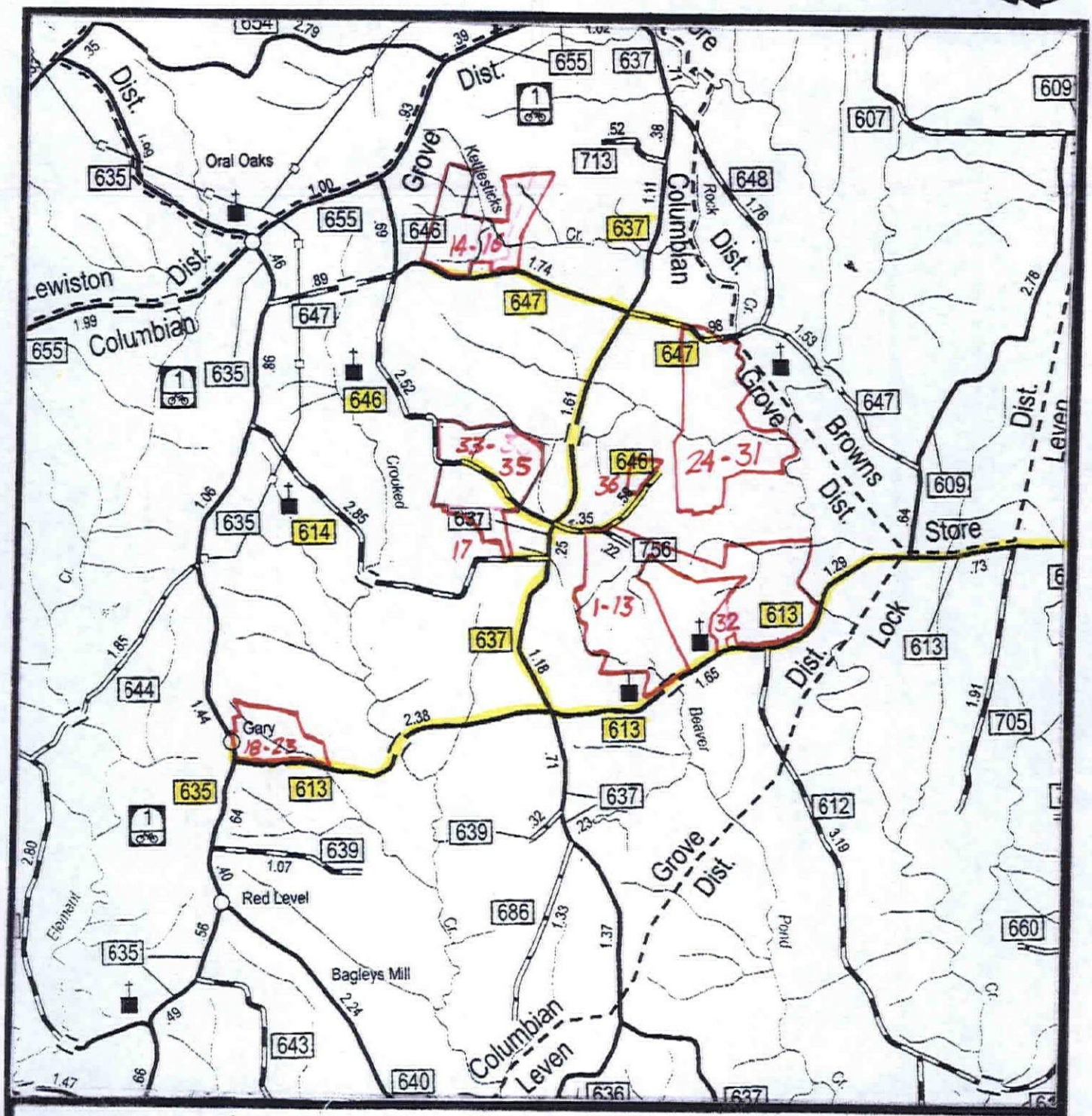


Scale: 1 inch = 2 miles LUJKL 1-36

VICINITY MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

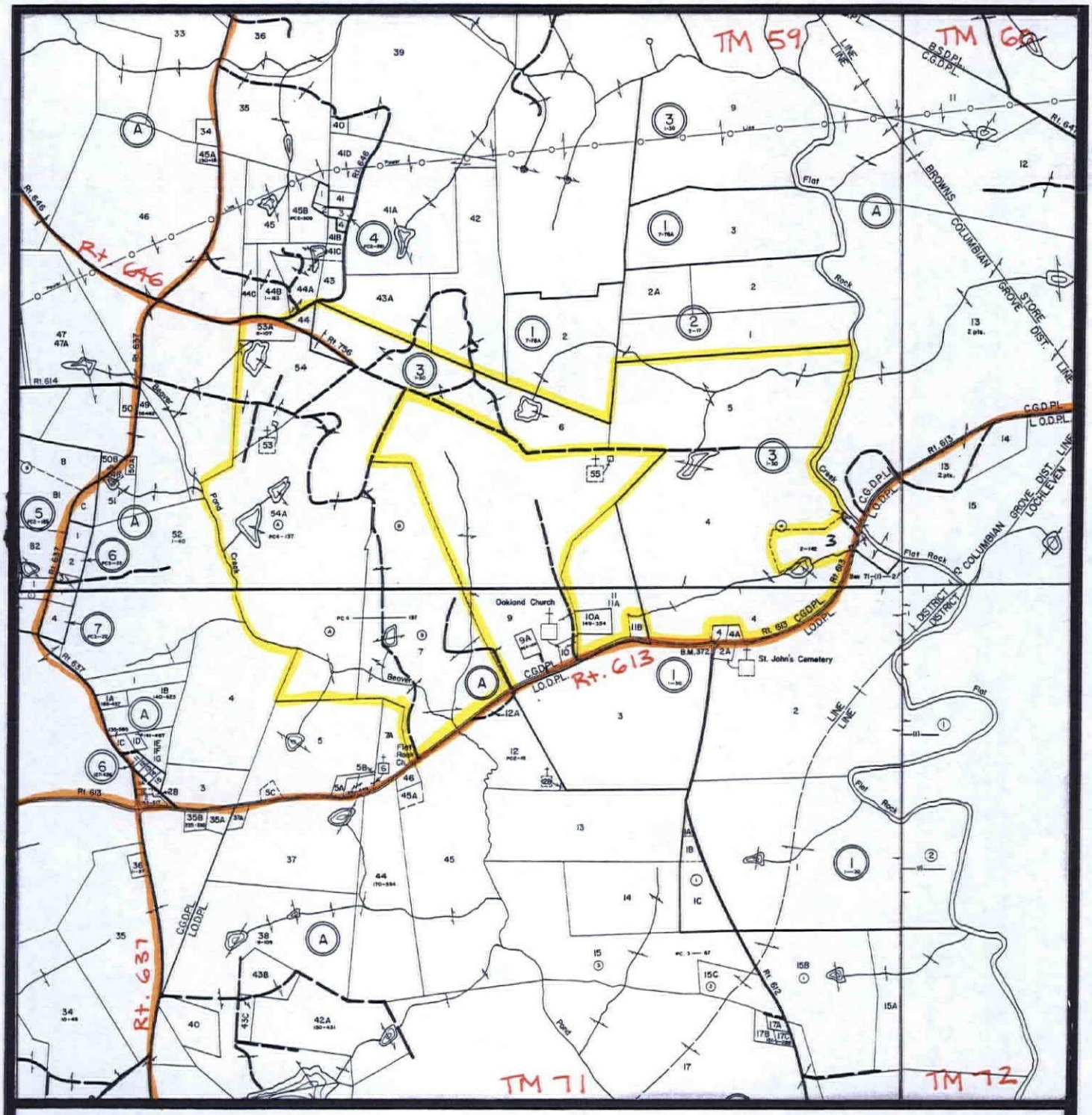


Scale: 1 inch = 1 mile LUJKL 1-36

VICINITY MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



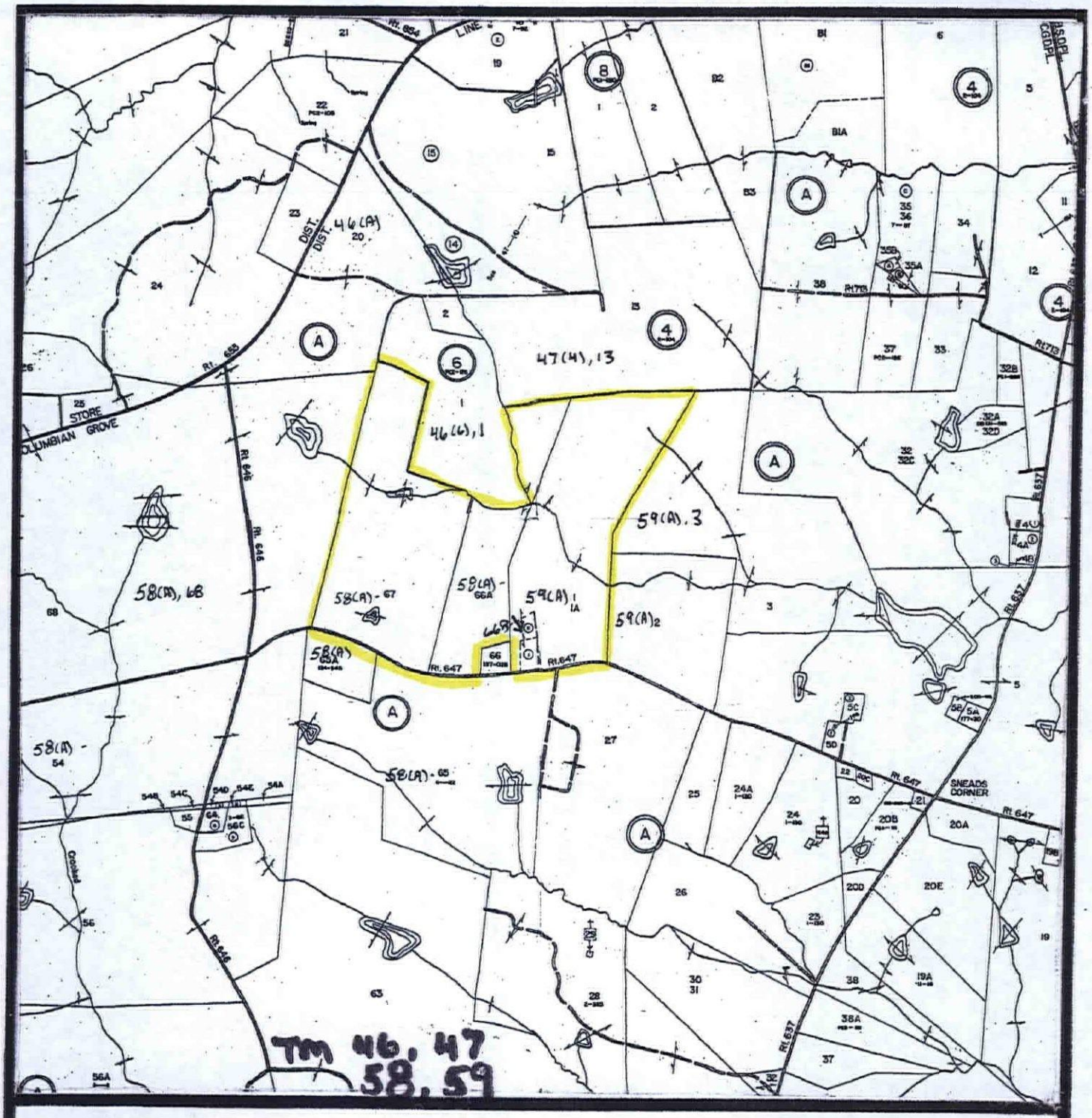
Scale: 1"= 2000 ft.

LUJKL 1-13, 32

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

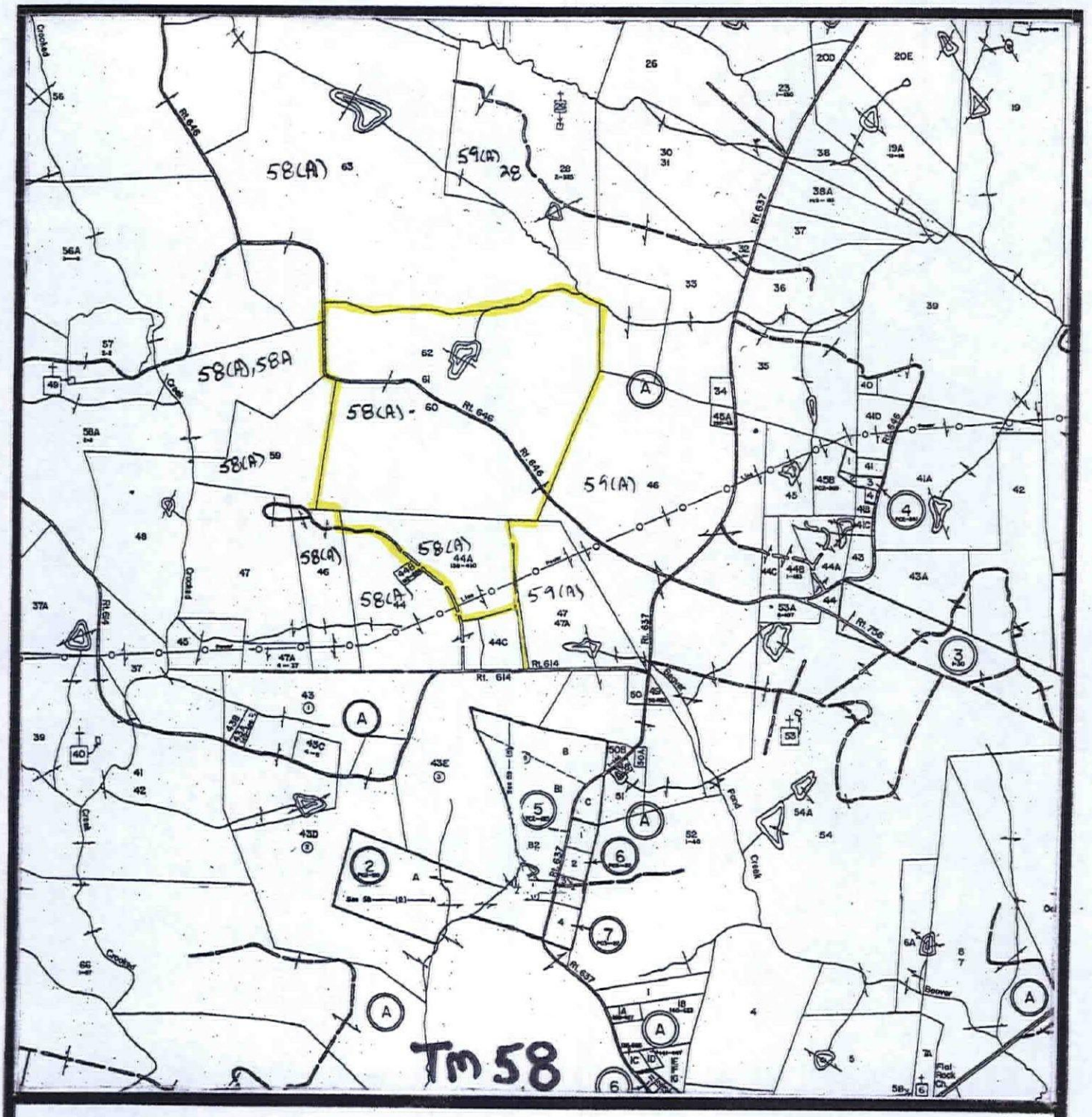


Scale: 1inch = 2,000 feet LUJKL 14-16

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

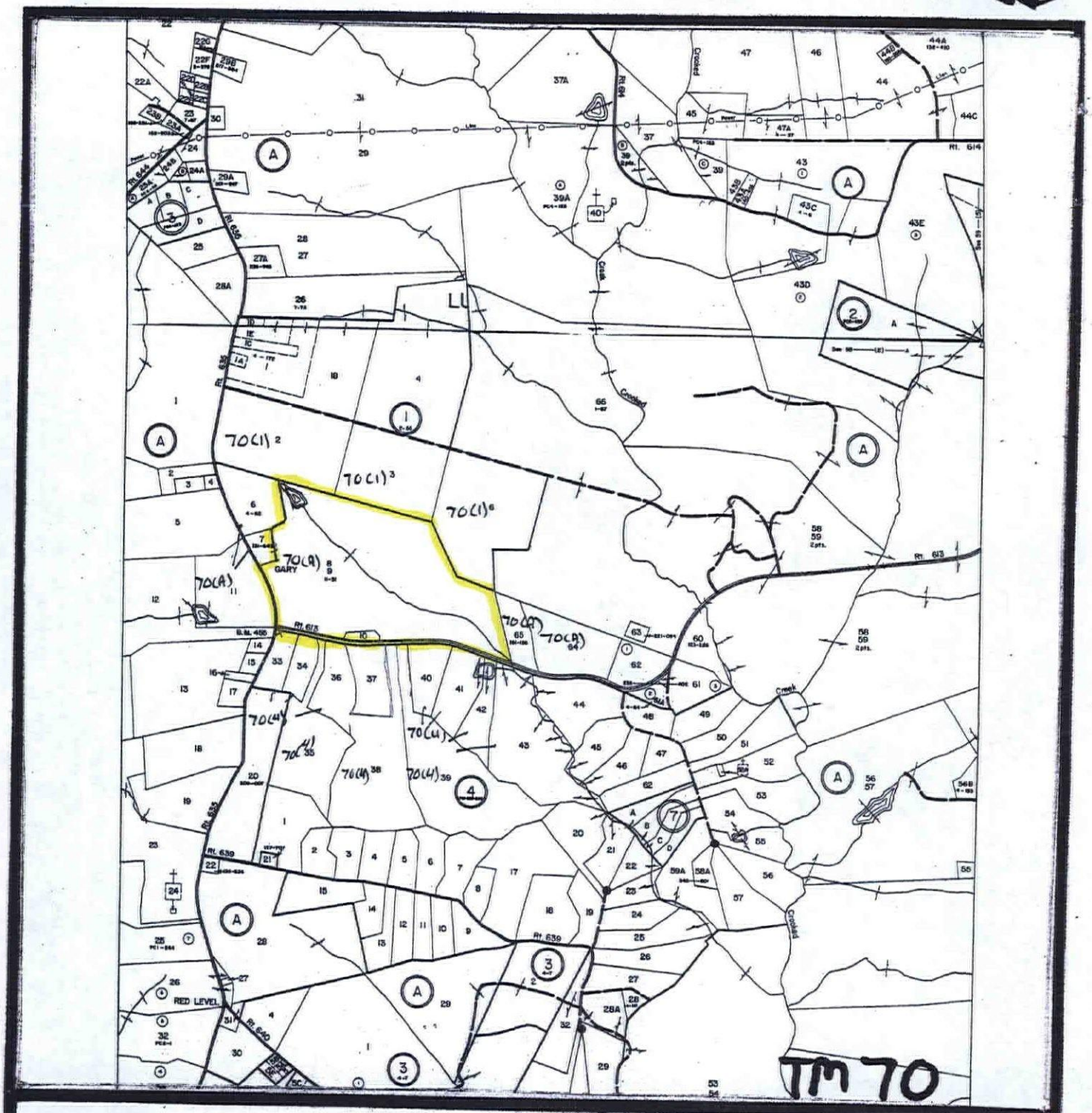


Scale: 1inch = 2,000 feet LUJKL 17,33-35

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

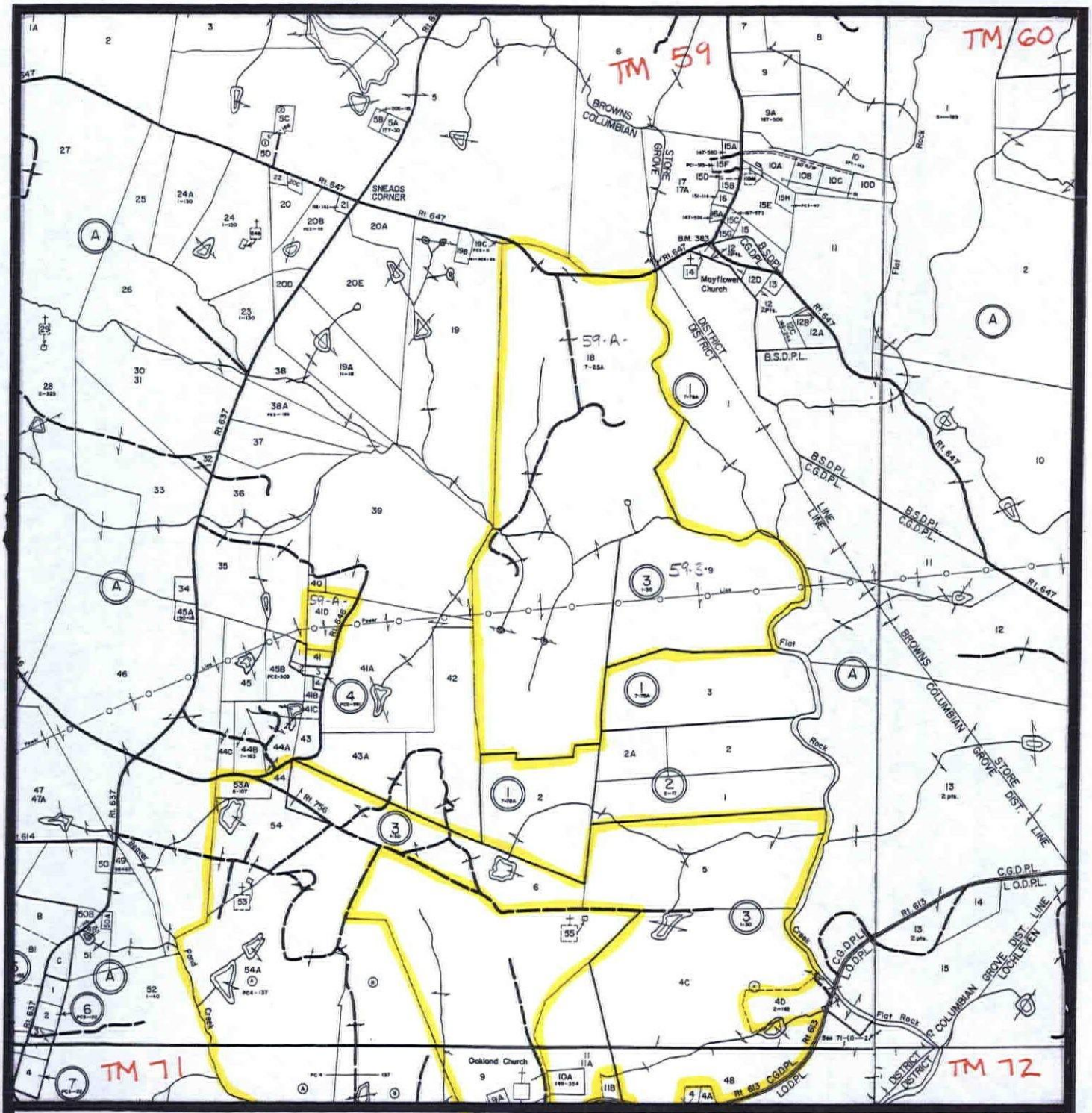


Scale: 1inch = 2,000 feet LUJKL 18-23

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



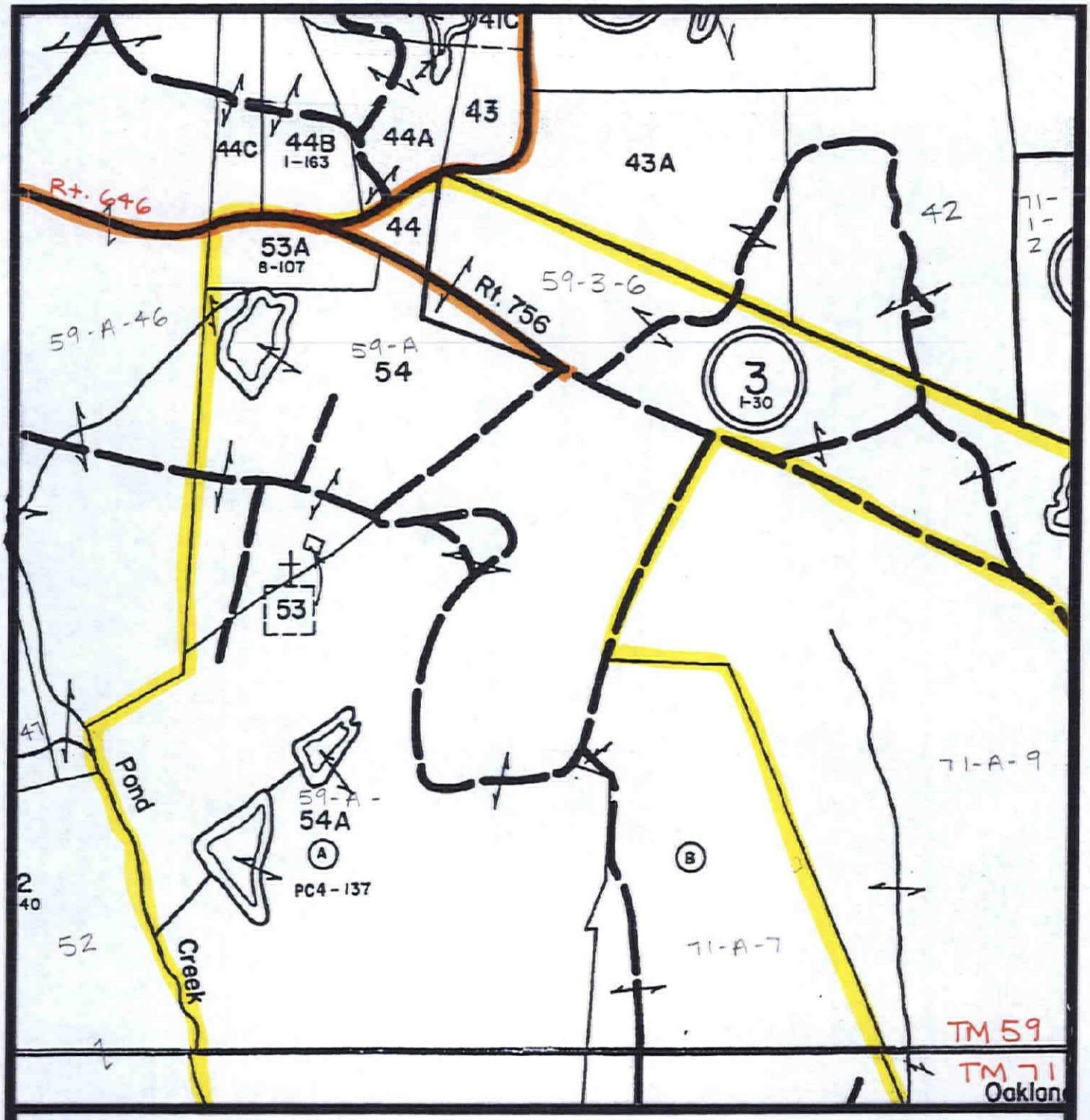
Scale: 1"= 2000 ft.

LUJKL 24-31, 36

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



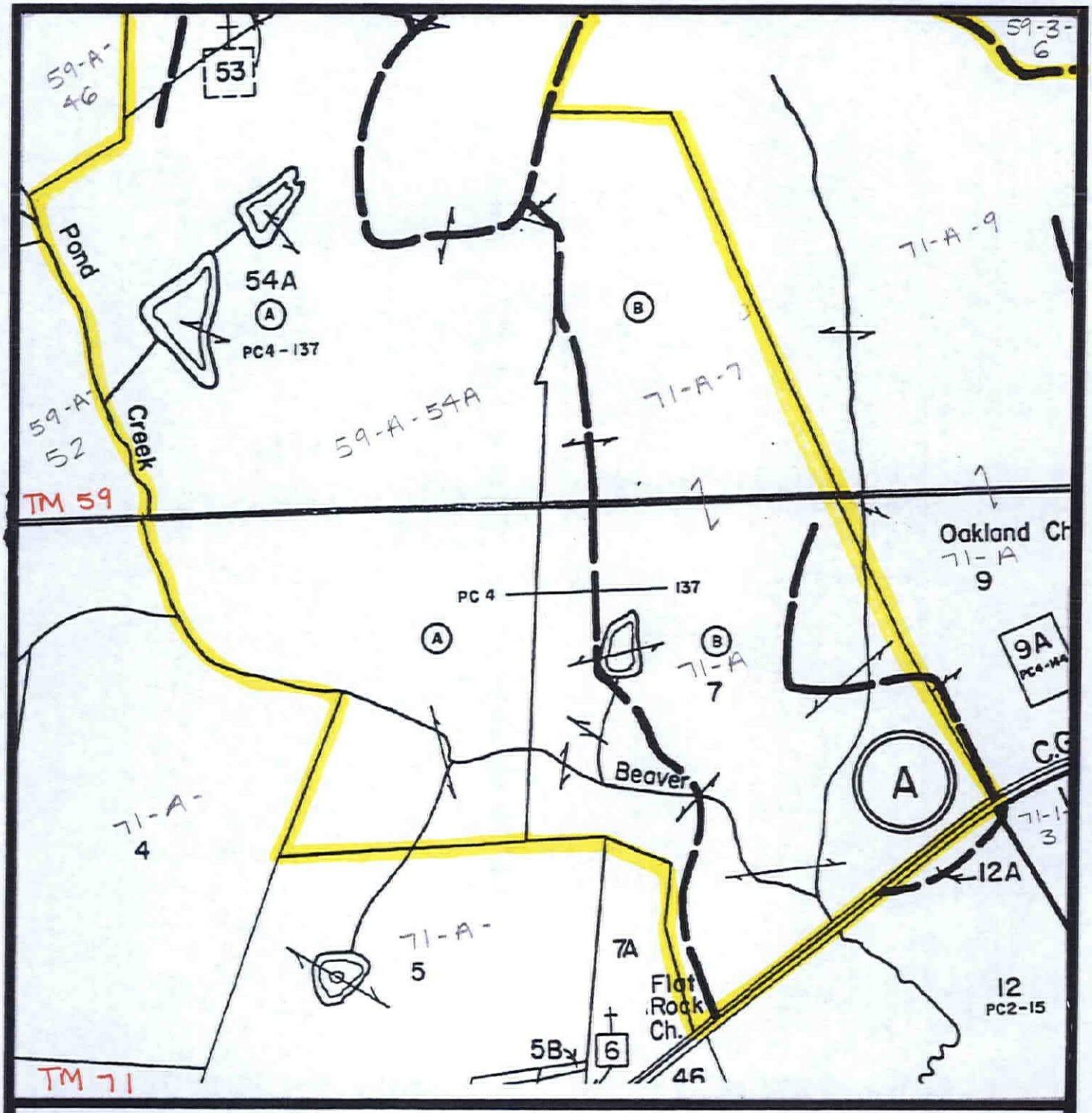
Scale: 1"= 660 ft.

LUJKL 1-3

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



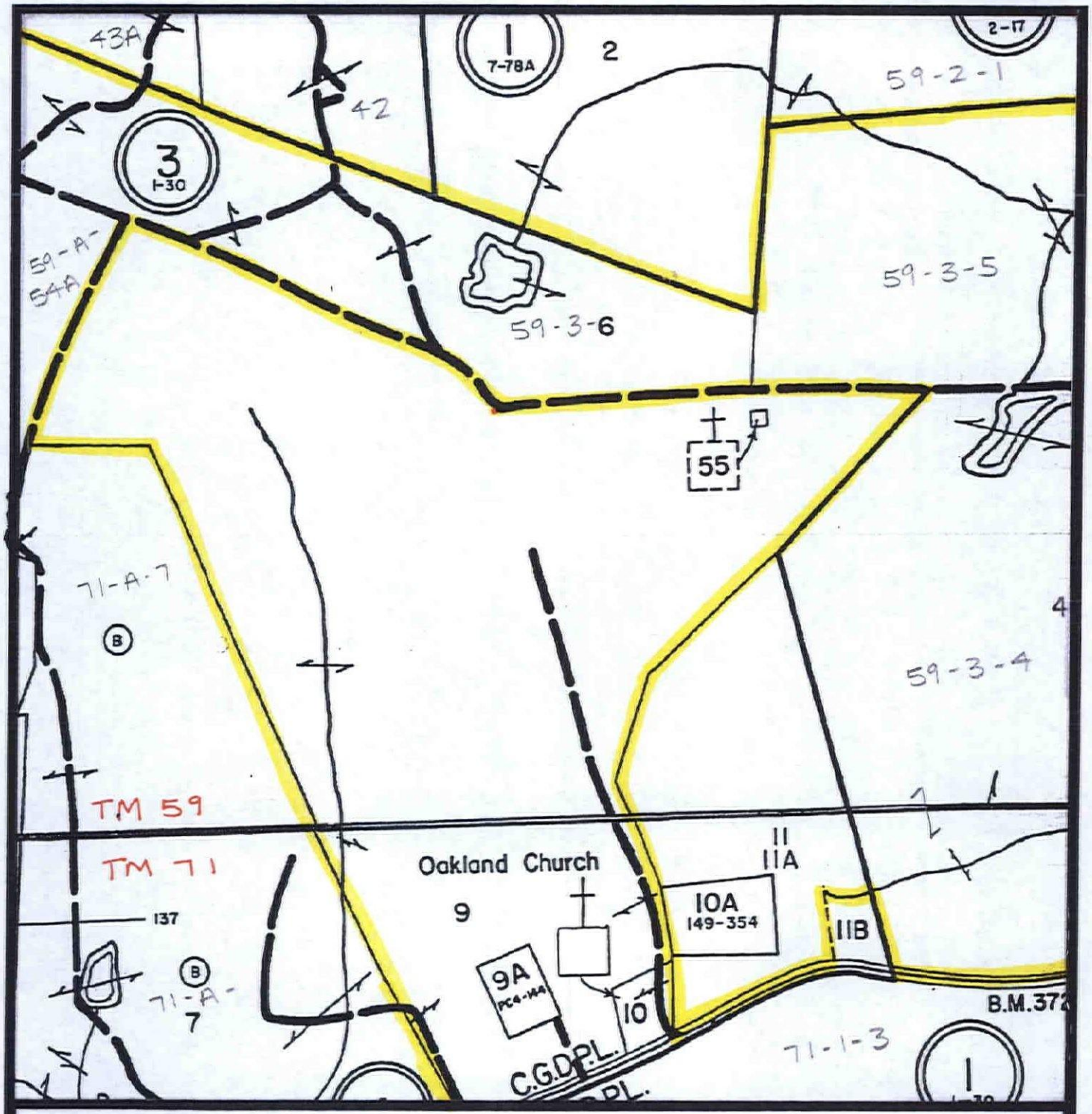
Scale: 1"= 660 ft.

LUJKL 3-5, 13

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



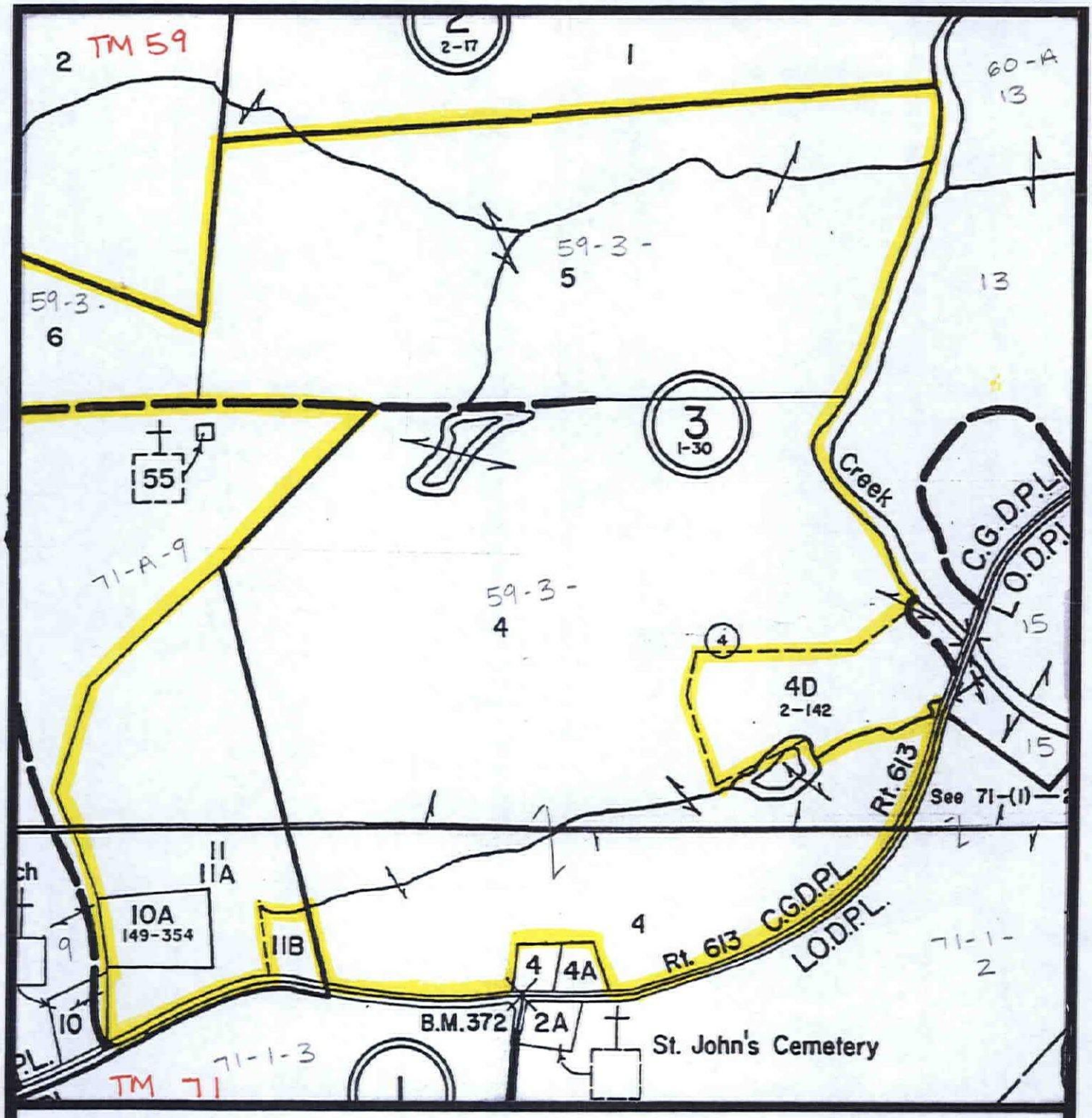
Scale: 1"= 660 ft.

LUJKL 6-9, 32

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



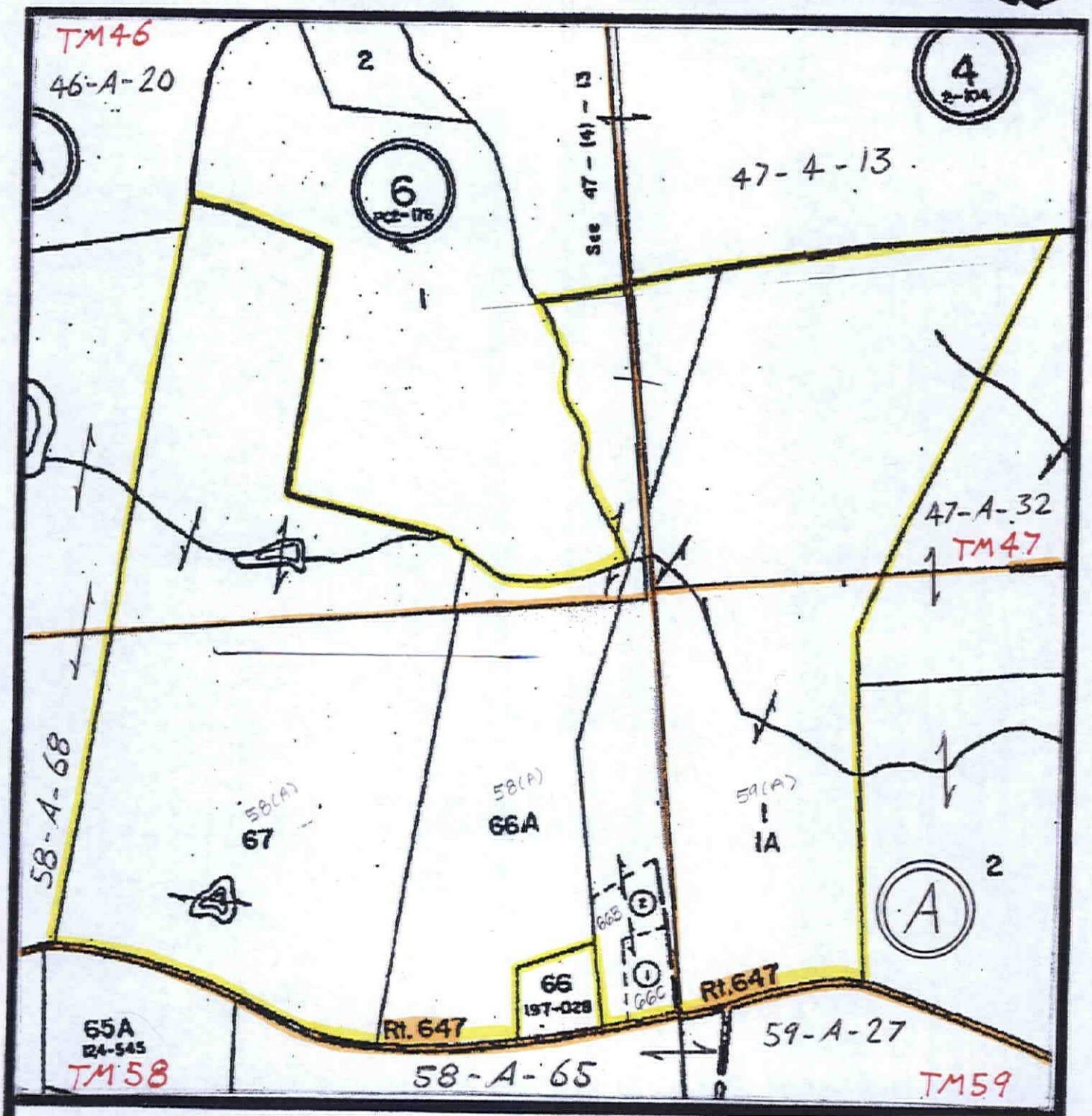
Scale: 1"= 660 ft.

LUJKL 7-12, 32

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

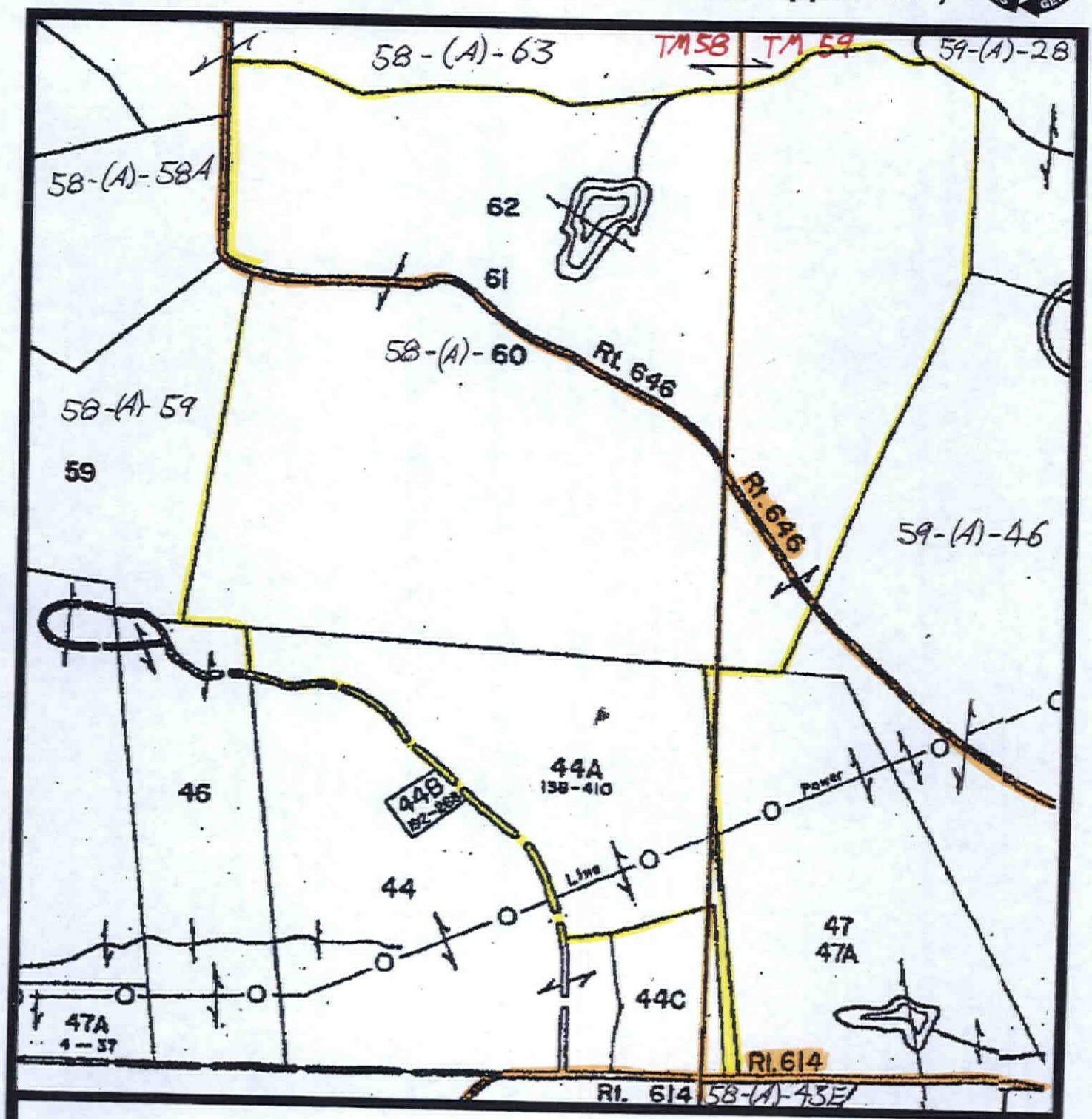


Scale: 1 inch = 660 feet LUJKL 14-16

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

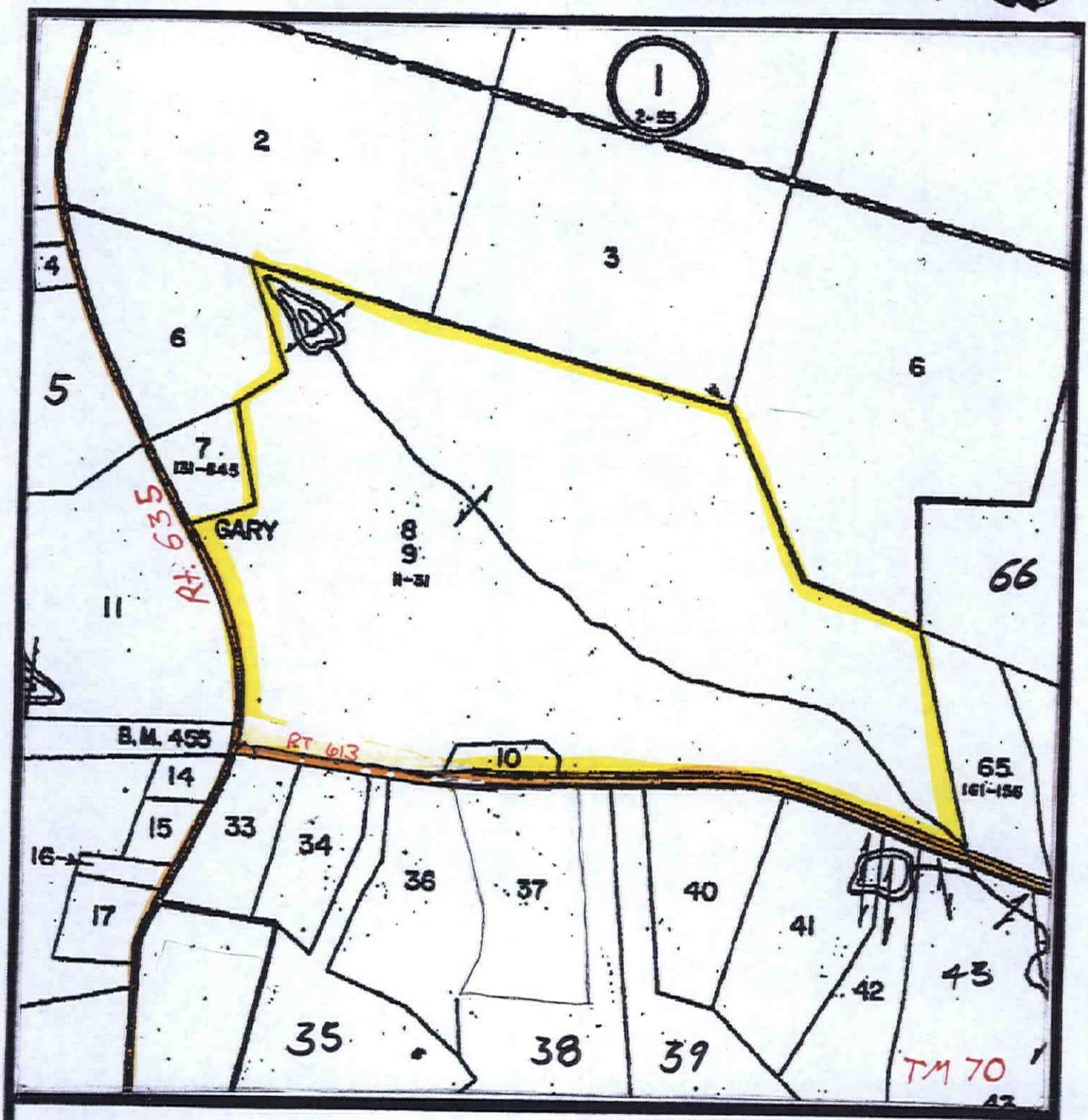


Scale: 1 inch = 660 feet LUJKL 17, 33-35

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

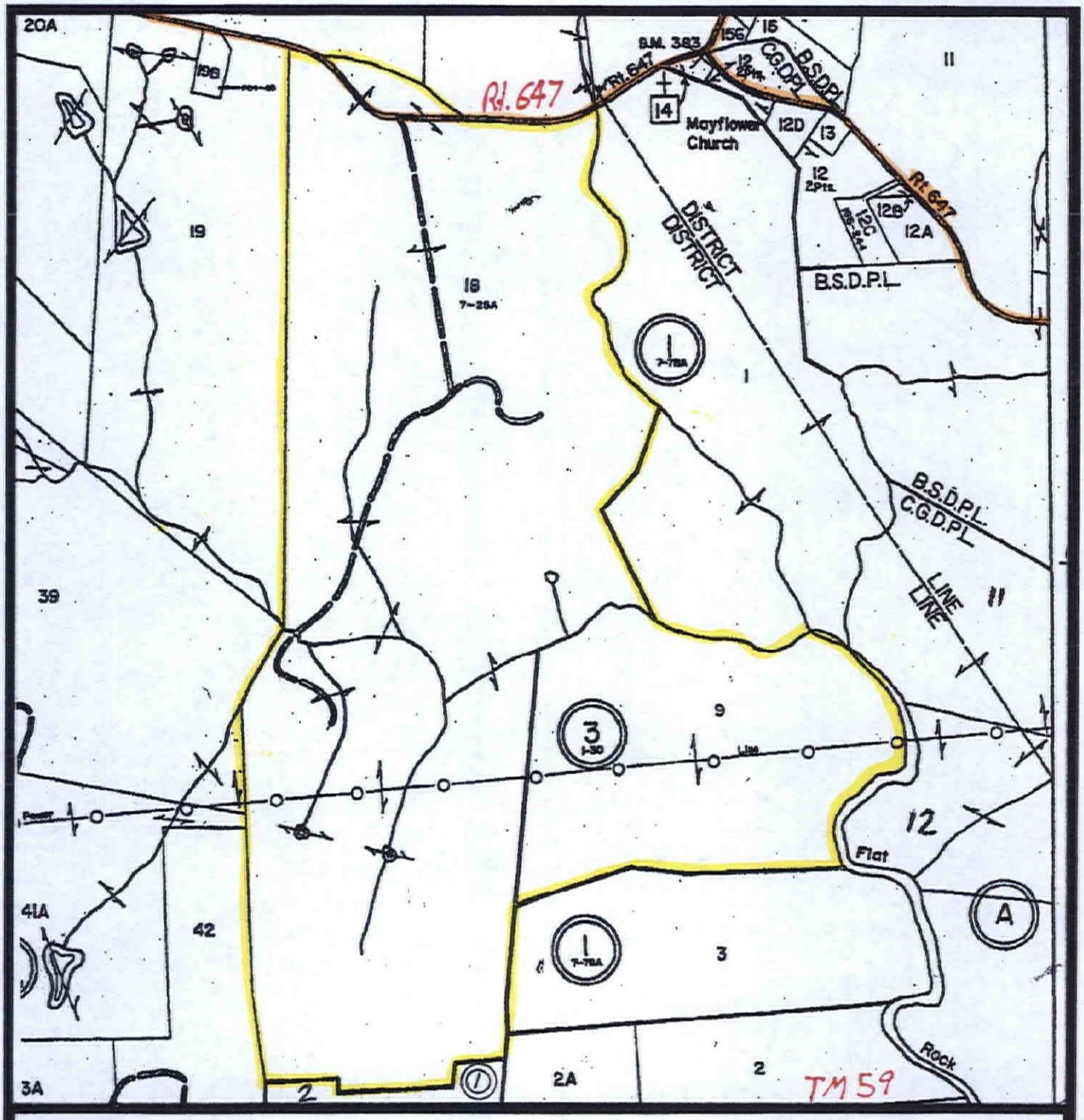


Scale: 1 inch = 660 feet LUJKL 18-23

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

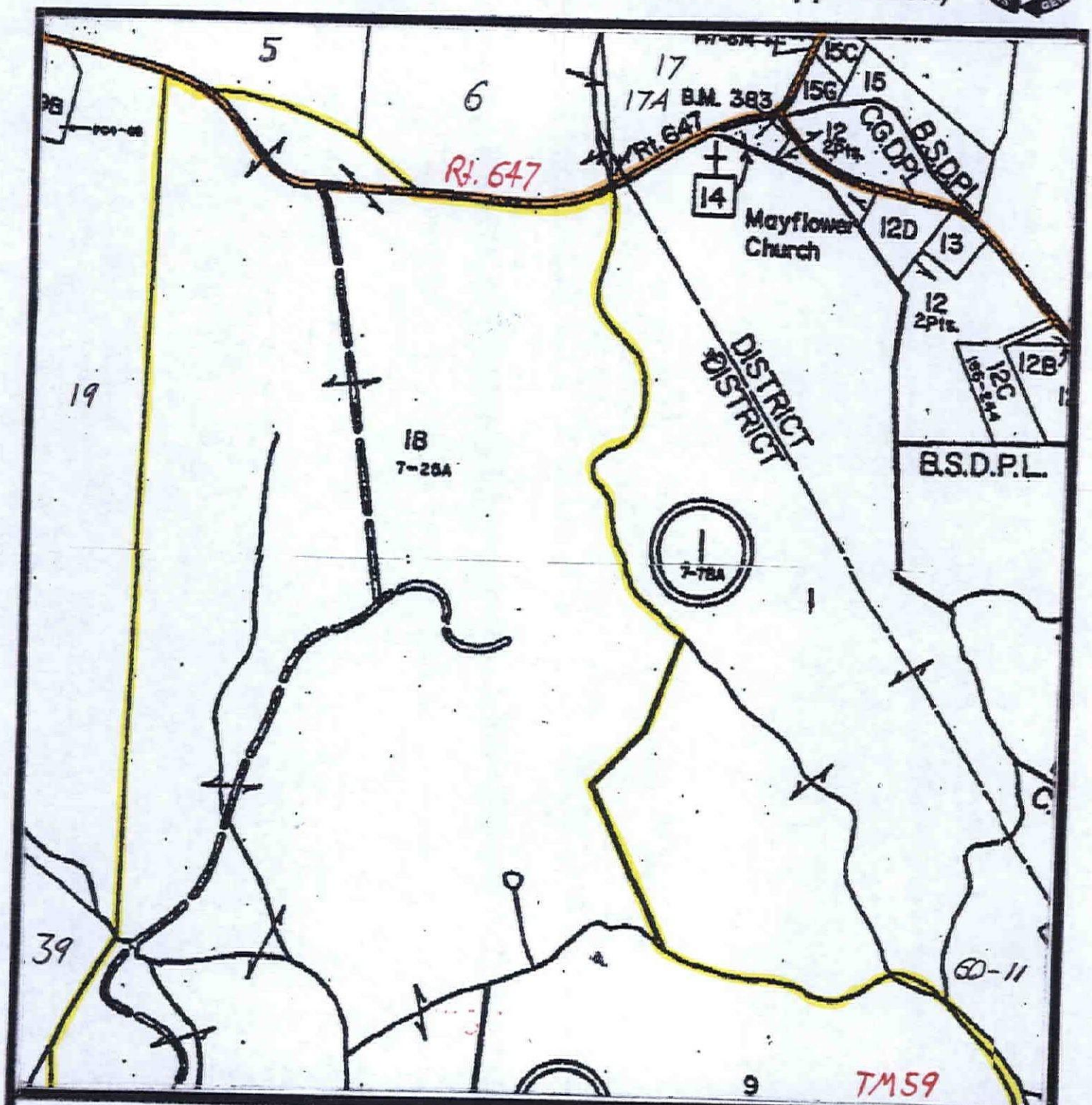


Scale: 1 inch = 1,000 feet LUJKL 24-31

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

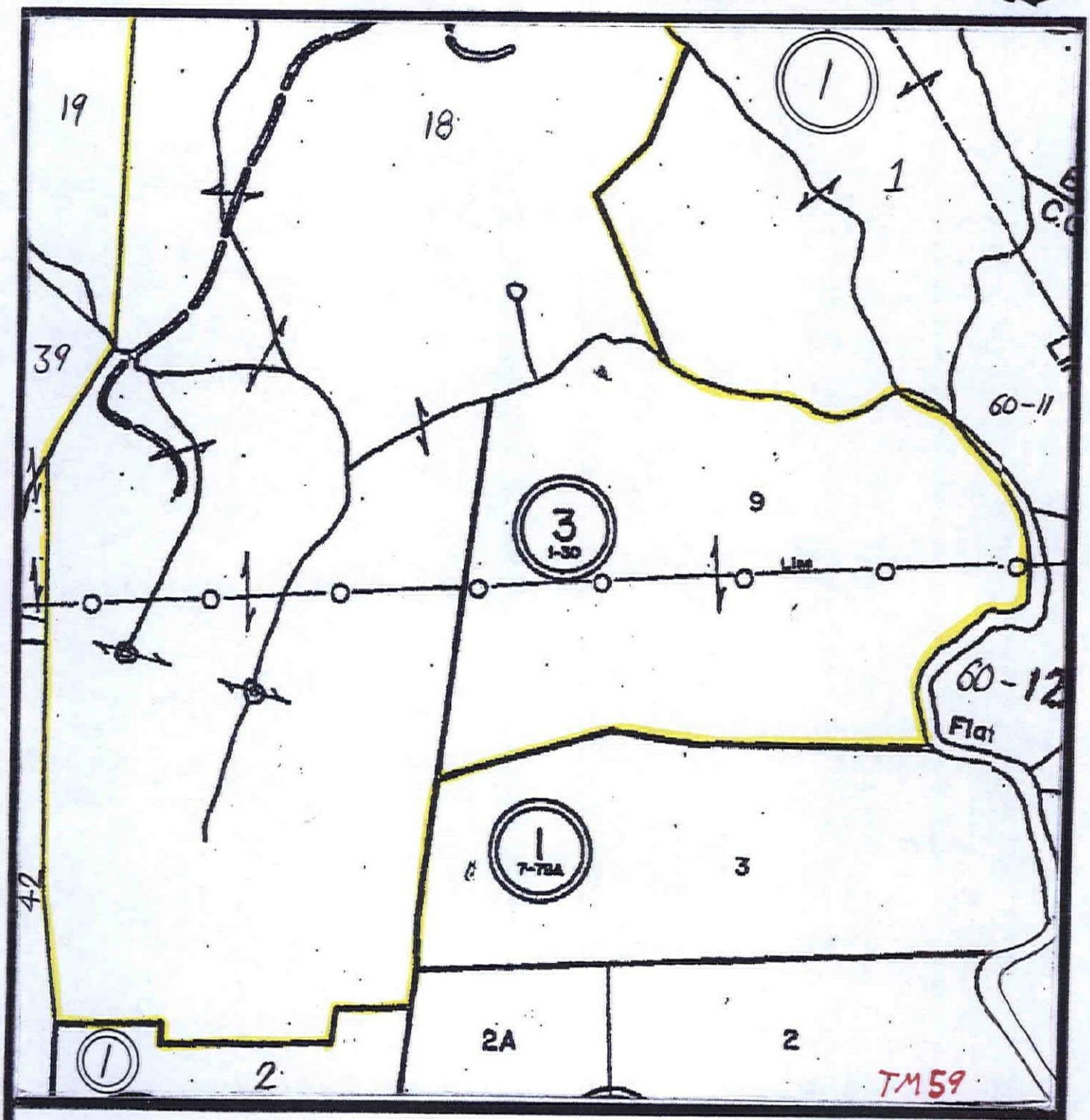


Scale: 1 inch = 660 feet LUJKL 24-27

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

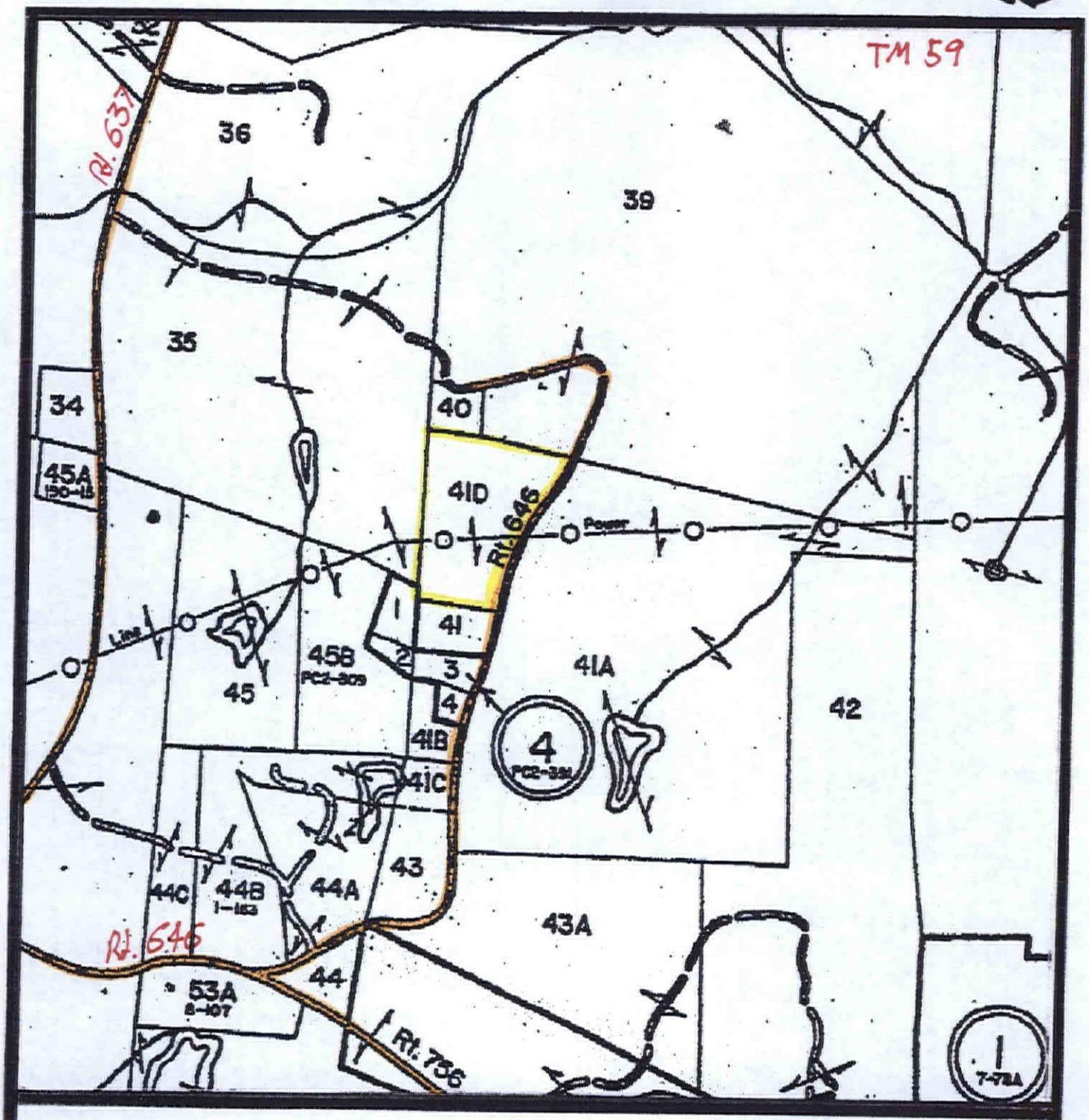


Scale: 1 inch = 660 feet LUJKL 27-31

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1 inch = 660 feet LUJKL 36

TAX MAP

N

ADJOINING LANDOWNERS

Johnny K Long

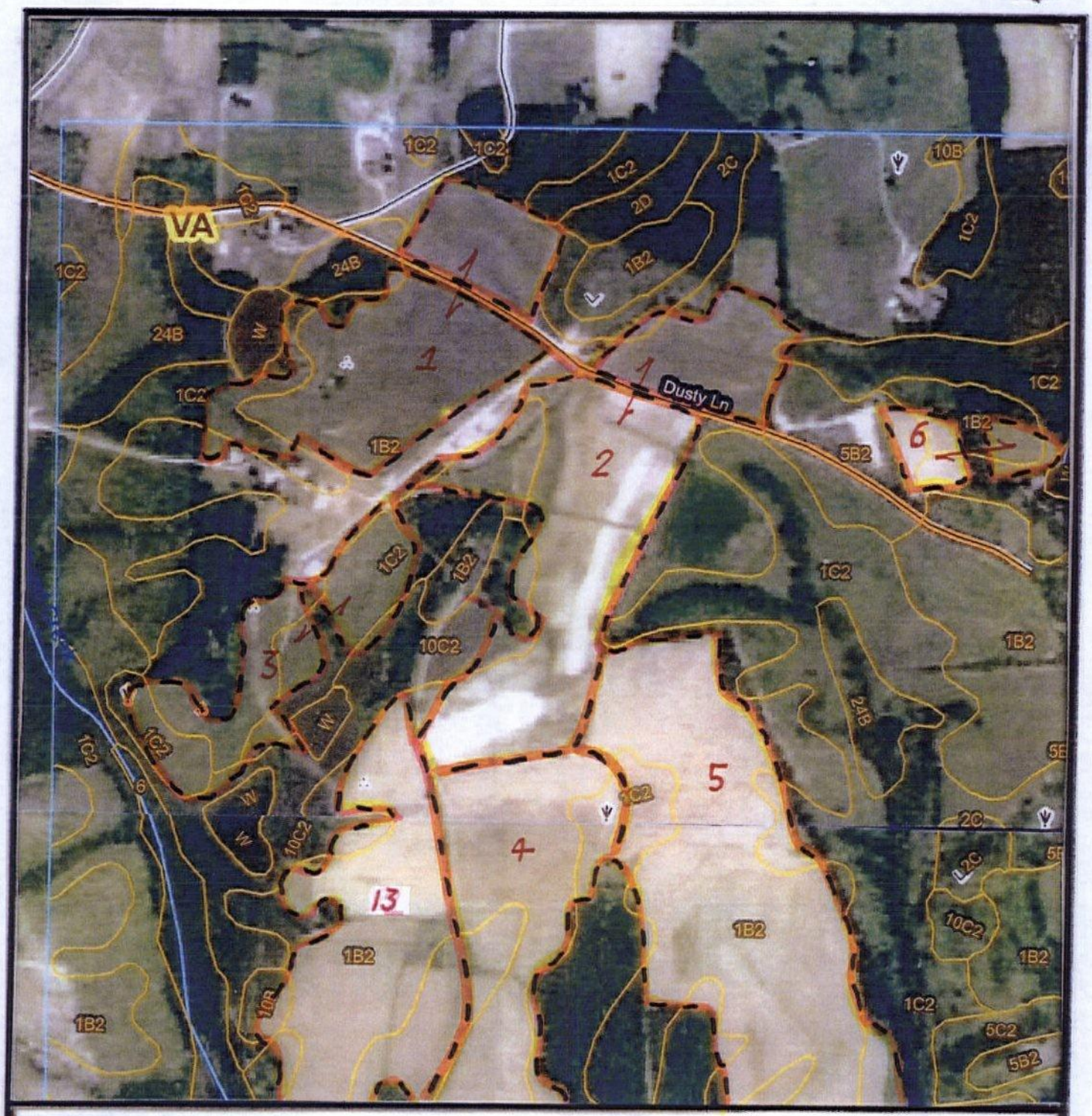
LUNENBURG COUNTY

Tax Map	Parcel #	Owner Name(s)
46	(A) 20	Dixie Lee Farms, Inc.
46	(6) 1	Wrenn Robin Gunn or Mark Edwin
58	(A) 43E	Robert Clinton Creedle
58	(A) 44	Daisy Carris
58	(A) 44A	Johnny K. Long
58	(A) 44C	Haywood J. or Daisy M. Garcia and Bobby M. Hinton
58	(A) 46	Herman and Bessie Morrison
58	(A) 54	Dixie Lee Farms, Inc.
58	(A) 58A	Louise Stephen Stuart or Sue Love Coral
58	59	Bessie R Morrison & Thomas D Morrison & Rhonda M Marshall
58	(A) 60	Haskins R. Bell
58	(A) 63	Dixie Lee Farms, Inc.
58	(A) 65	Teresa L. Dicks (Trustee)
58	(A) 65A	Buford H. or Mary M. Calabaris
58	(A) 66	Howard D. Lee
58	(A) 66A	Johnny K. Long
58	(A) 67	Johnny K. Long
58	(A) 68	Dixie Lee Farms, Inc.
59	(A) 1	Ronald E. Long
59	(A) 5	Celia Sosa Snead Etal
59	(A) 6	Jerry H or Ruth Ann Weaver
59	(A) 17A	Josie Mae or Royle Winn
59	(A) 18	Ann D. Moore
59	(A) 19	Dorothy S. Martin
59	(A) 28	John H or Patricia S Washburn
59	(A) 35	Mason Sherrard Reese
59	(A) 39	Claude Wesley Yeatts Etal
59	(A) 40	Melinda Clay & James Elliott Walden
59	(A) 41	Richard E Speights
59	(A) 41A	David A. Boaz
59	(A) 41D	Johnny K. Long
59	(A) 42	Charles Holmes

Tax Map	Parcel#	Owner Name (s)
59	(A) 43	Mark S. Sr. or Connie W. Rees
59	(A) 43A	David A. Boaz
59	(A) 44	Johnny K. or Lucille S. Long
59	(A) 44A	Mark S. Sr. or Connie W. Rees
59	(A) 44B	Steve E. Rankin estate
59	(A) 44C	Steve E. Rankin estate
59	(A) 46	Early Mason and Louise Rees
59	(A) 47	Larry Bishop
59	(A) 49	Robert C. Jr. or Karen B. Hawthorne
59	(A) 52	Richard E. Jr. or Betty W. Barnes
59	(A) 53	Cemetery
59	(A) 53A	Johnny K. Long
59	(A) 54A	Johnny K. Long
59	(1) 1	FBJ Gratt-98 Forests LLC
59	(1) 2	FBJ Gratt-98 Forests LLC
59	(1) 3	FBJ Gratt-98 Forests LLC
59	(2) 1	Thomas C. Jr. and Franklin M. Barnes
59	(2) 2A	Barnes mfg Co.
59	(3) 4c	Douglas Ingram Ragsdale Jr.
59	(3) 4d	Douglas Ingram Ragsdale Jr.
59	(3) 5	Douglas Ingram Ragsdale Jr.
59	(3) 6	Douglas Ingram Ragsdale Jr.
59	(3) 9	Ann D. Moore
59	4 1	Richard E. Speights
59	4 2	Jeffrey Allan Worthington
59	4 3	Jeffrey Allan Worthington
60	(A) 11	William Gordon Duggins Jr.
60	(A) 12	Soledad M. Falcon
60	(A) 13	Soledad M. Falcon
60	(A) 15	Noel Lang Baucom
70	(A) 6	Arthur B. Jr. or Rita Ann C. Newcomb
70	(A) 7	Arthur B. Jr. or Rita Ann C. Newcomb
70	(A) 8	Johnny K. Long or Pearl S.
70	(A) 10	Johnny K. Long or Lucille S.
70	(A) 11	Russell Lacy Callahan
70	(A) 65	Chet E. Sr. or Janice A. Atkins
70	(1) 2	FBJ Gratt-98 Forests LLC
70	(1) 3	FBJ Gratt-98 Forests LLC
70	(1) 6	FBJ Gratt-98 Forests LLC
70	(4) 33	Gregory McFadden
70	(4) 34	Gale J. Bell
70	(4) 35	Gregory McFadden
70	(4) 36	Thomas W. or Dorothy B. Howard

Tax Map	Parcel#	Owner Name(s)
70	(4) 38	Gregory R or Sarah Sears
70	(4) 39	Willie J Thomas
70	(4) 40	Francine D Holmes
70	(4) 41	Ernest R Sr. or June Joyner
70	(4) 43	Lyn or Alan Kessie
71	(A) 3	Morris B. Hudson
71	(A) 4	George and Cathy Stone
71	(A) 5	Jasper Ingram Ragsdale
71	(A) 6A	Vincent Neal or Ingrid Fogg
71	(A) 7	Johnny K Long
71	(A) 7A	Randall S. Long
71	(A) 10	Oakland Church
71	(A) 10A	William Cornelius Crafton
71	(A) 9	Rosa Lee or Carson Yancey
71	(A) 11	William Cornelius Crafton
71	(A) 11B	Terry Wayne and Carol Chapman
71	(A) 12	Delores A Ocklimey
71	(A) 12A	Delores A Ocklimey
71	(A) 45	Thomas Keith Kephart
71	(1) 2	Malcom Bailey
71	(1) 2A	Church Lot
71	(1) 3	Janie C BAILEY Et Als
71	(1) 4	Charlotte K. Bourne
71	(1) 4A	Ronald L or Charlotte K Lewis
71	(1) 4B	Trustees of Oakland Christian Church
71	(A) 4	George and Cathy Stone
71	(A) 5	Jasper Ingram Ragsdale
71	(A) 6A	Vincent Neal or Ingrid Fogg
71	(A) 7	Johnny K Long
71	(A) 7A	Randall S. Long
71	(A) 9	Rosa Lee or Carson Yancey
71	(A) 11	Willison Cornelius
71	(A) 11B	Terry Wayne and Carol Chapman
71	(A) 12	Delores A Ocklimey
71	(A) 12A	Delores A Ocklimey
71	(A) 45	Thomas Keith Kephart
71	(1) 2	Malcom Bailey
71	(1) 2A	Church Lot
71	(1) 3	Janie C BAILEY Et Als
71	(1) 4	Charlotte K. Bourne
71	(1) 4A	Ronald L or Charlotte K Lewis
71	(1) 4B	Trustees of Oakland Christian Church

Recyc Systems™ Inc. (Biosolids Land Application)



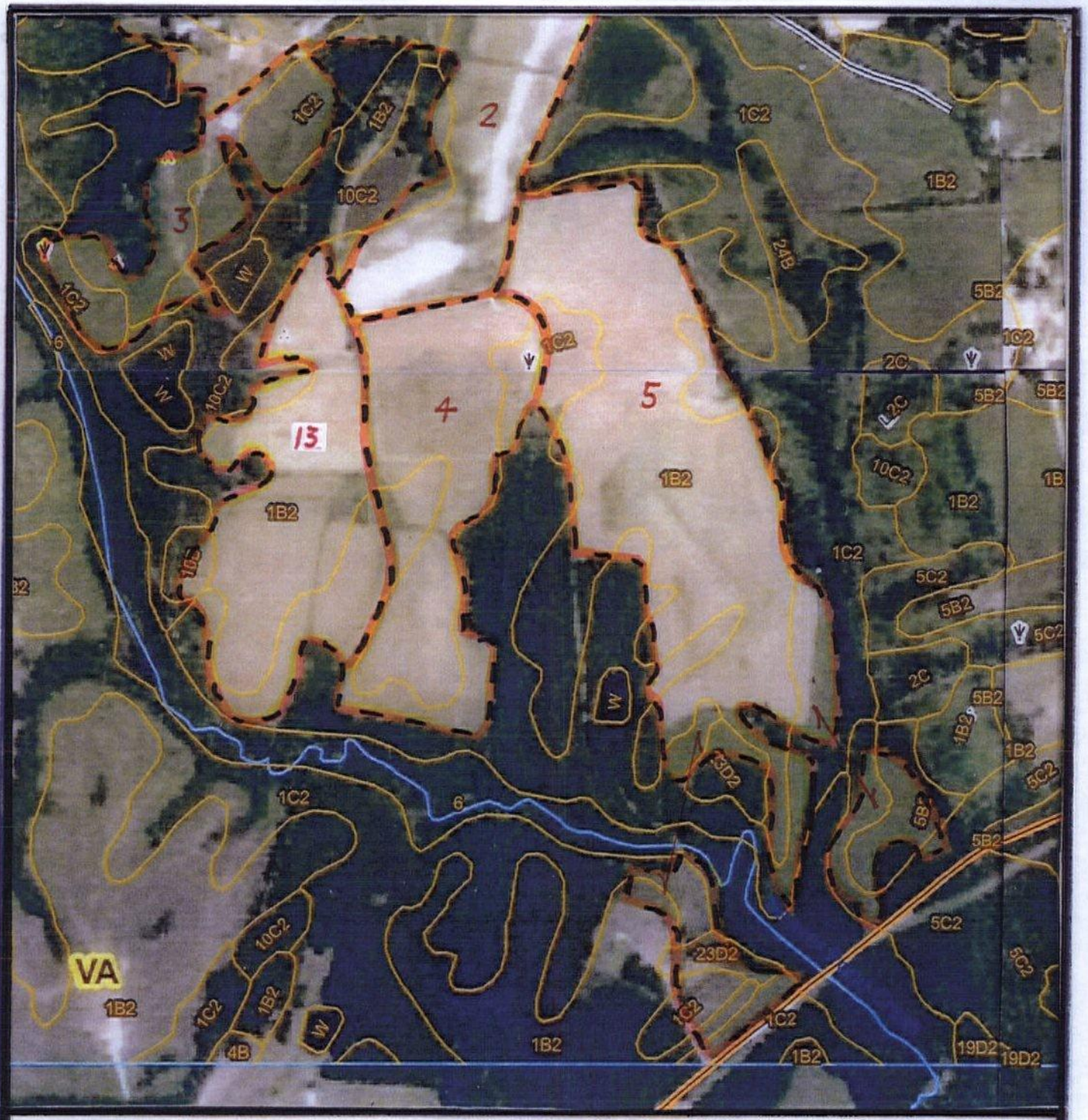
Scale: 1 inch = 660 feet LUJKL 1-3

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet LUJKL 3-5, 13

SOIL MAP

N

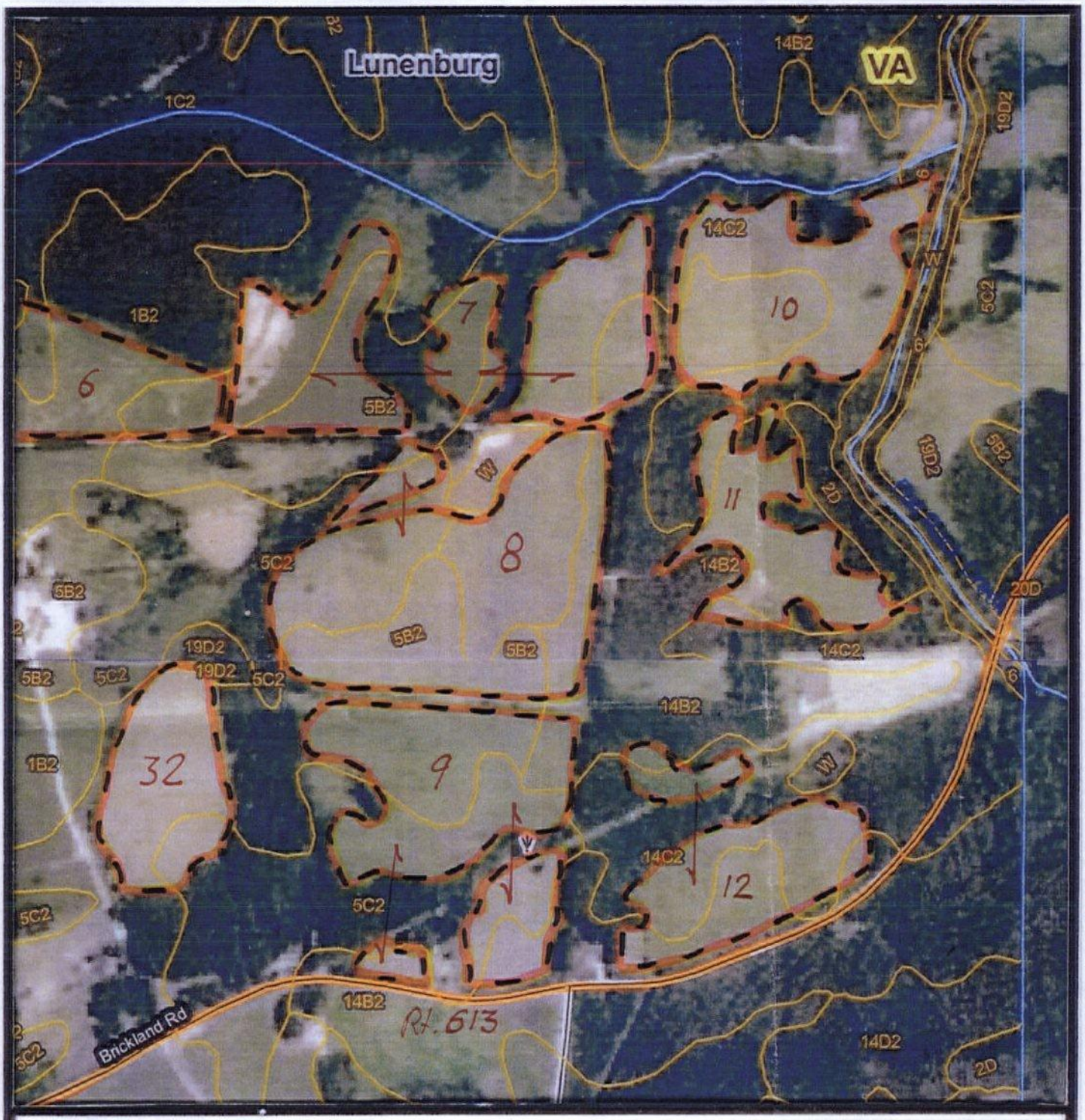
Recyc Systems™ Inc. (Biosolids Land Application)

Scale: 1 inch = 660 feet LUJKL 6-9, 32

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

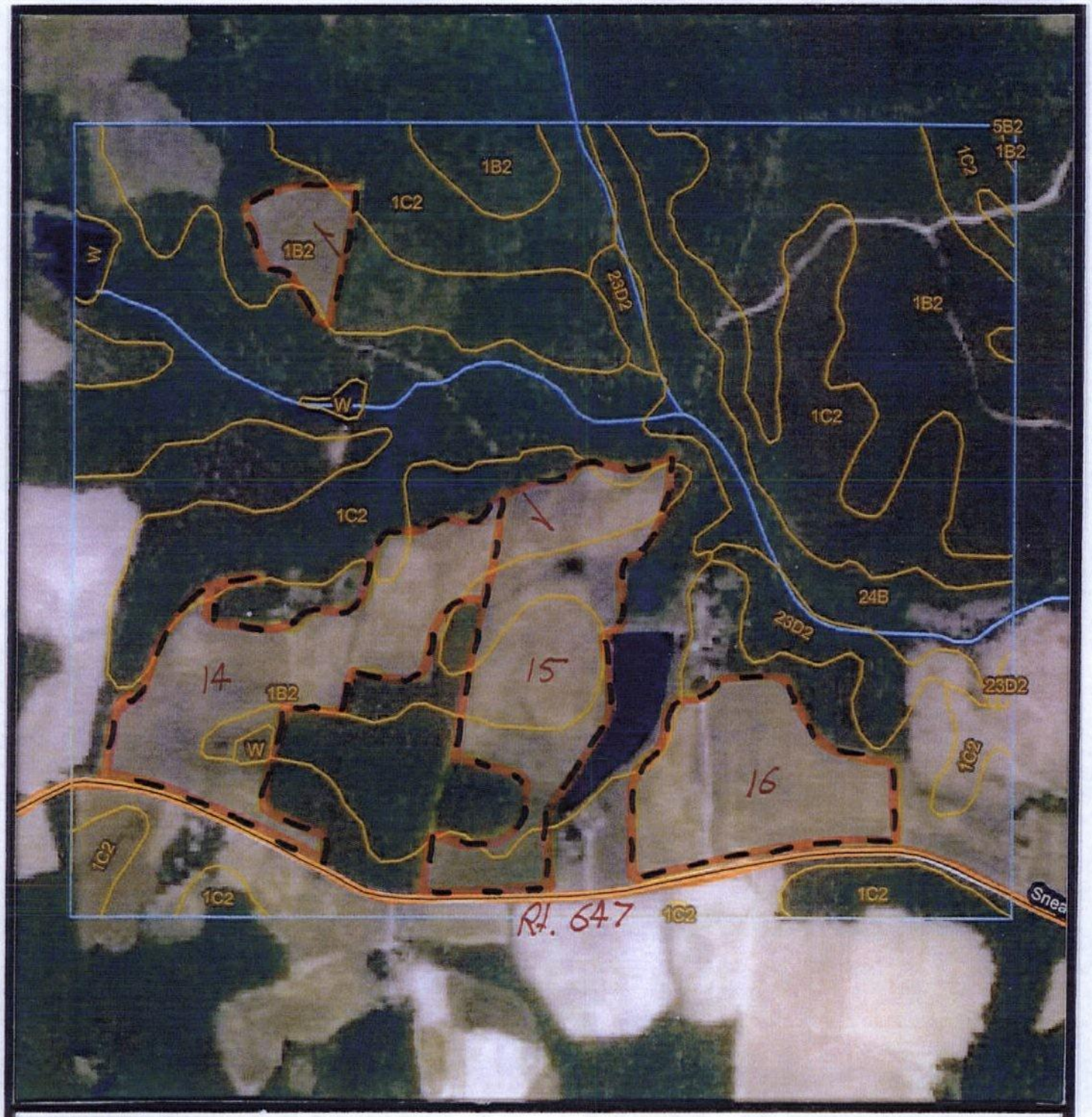


Scale: 1 inch = 660 feet LUJKL 7-12, 32

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

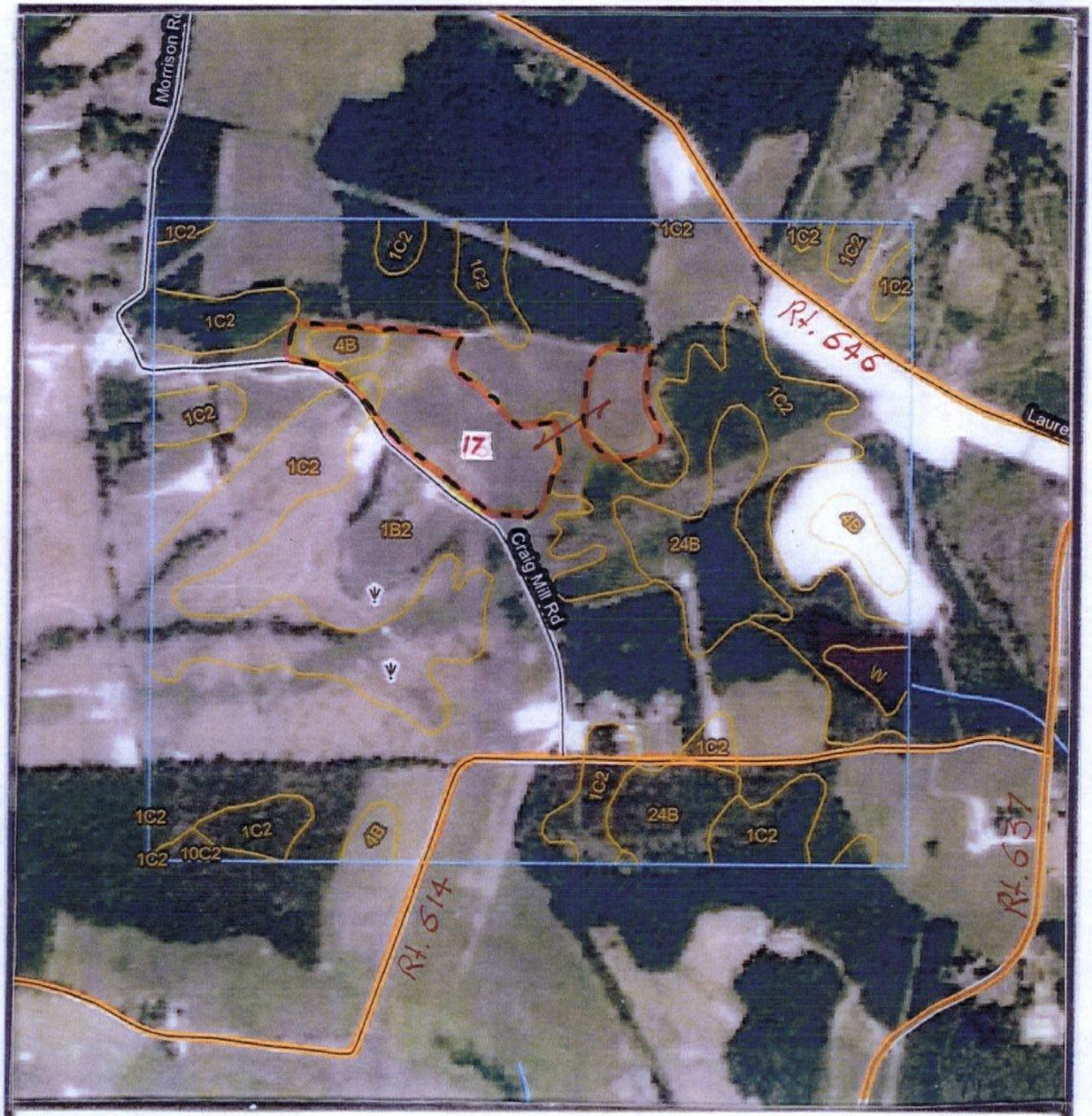


Scale: 1 inch = 660 feet LUJKL 14-16

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

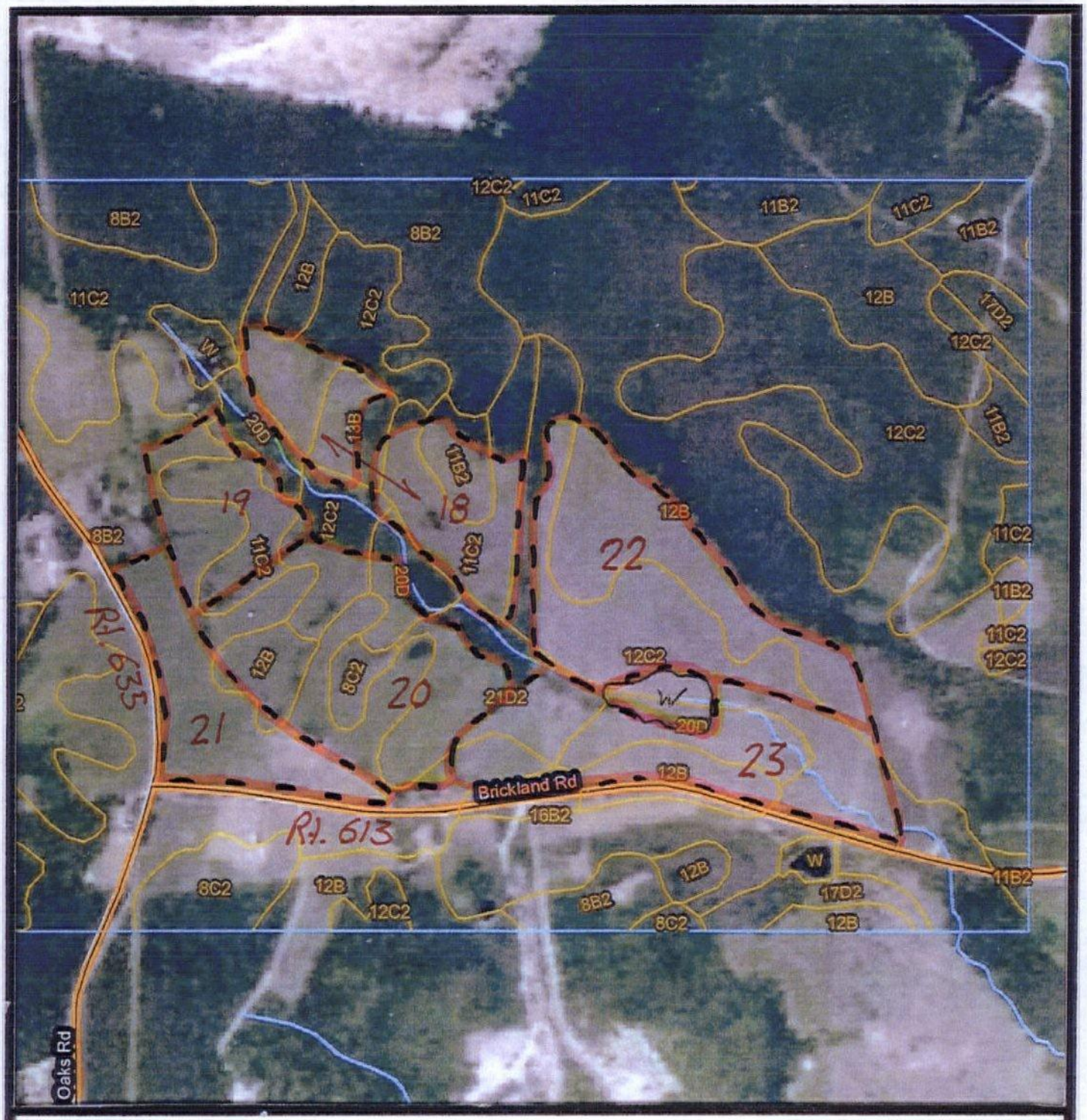


Scale: 1 inch = 660 feet LUJKL 17

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1 inch = 660 feet LUJKL 18-23

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)

Scale: 1 inch = 660 feet

LUJKL 24-28

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

Scale: 1 inch = 660 feet LUJKL 28-31

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)

Scale: 1 inch = 660 feet

LUJKL 33-35

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

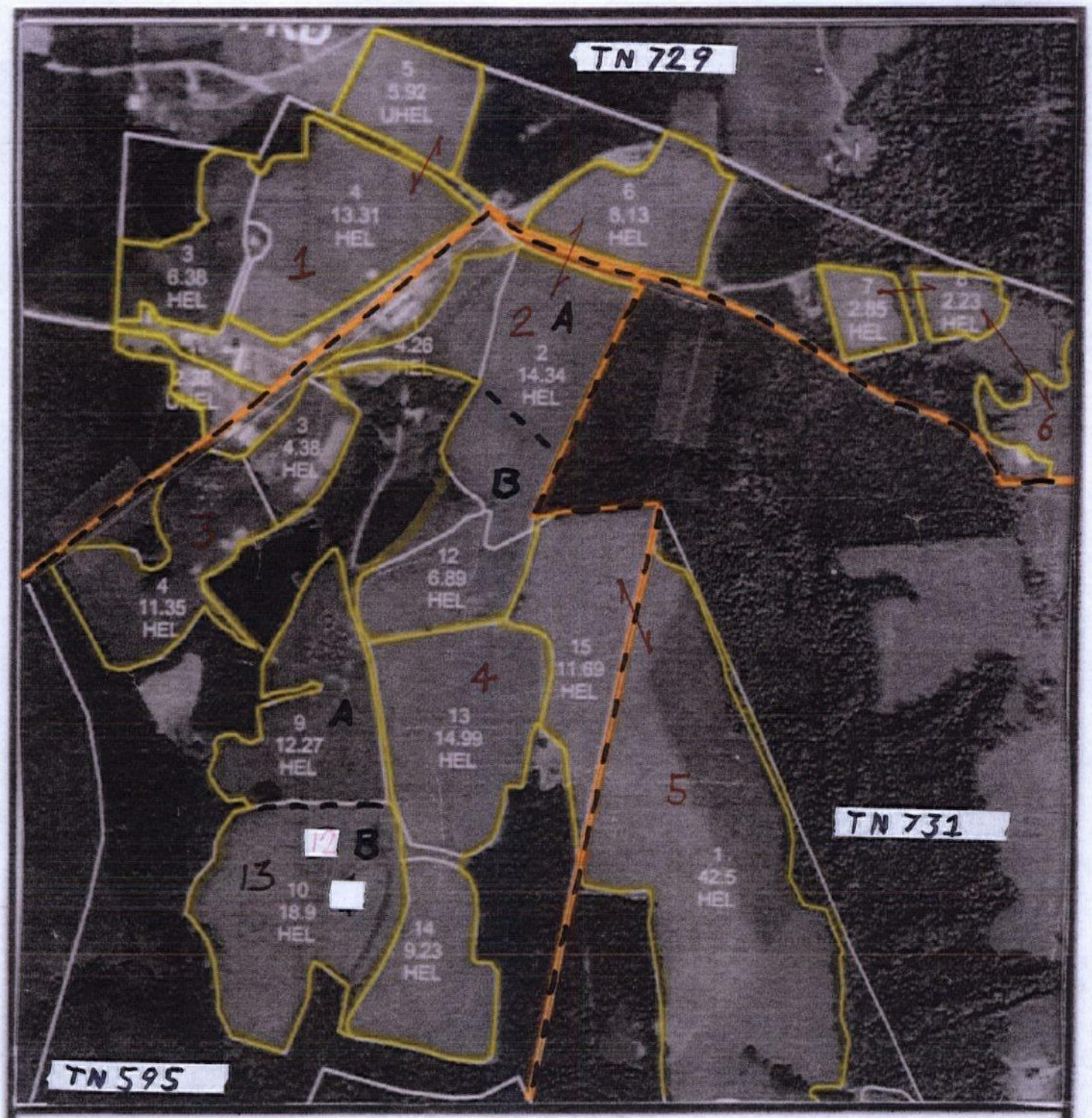
Scale: 1 inch = 660 feet LUJKL 36

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet LUJKL 1-4, 13

AERIAL MAP

N

Recyc Systems Inc.

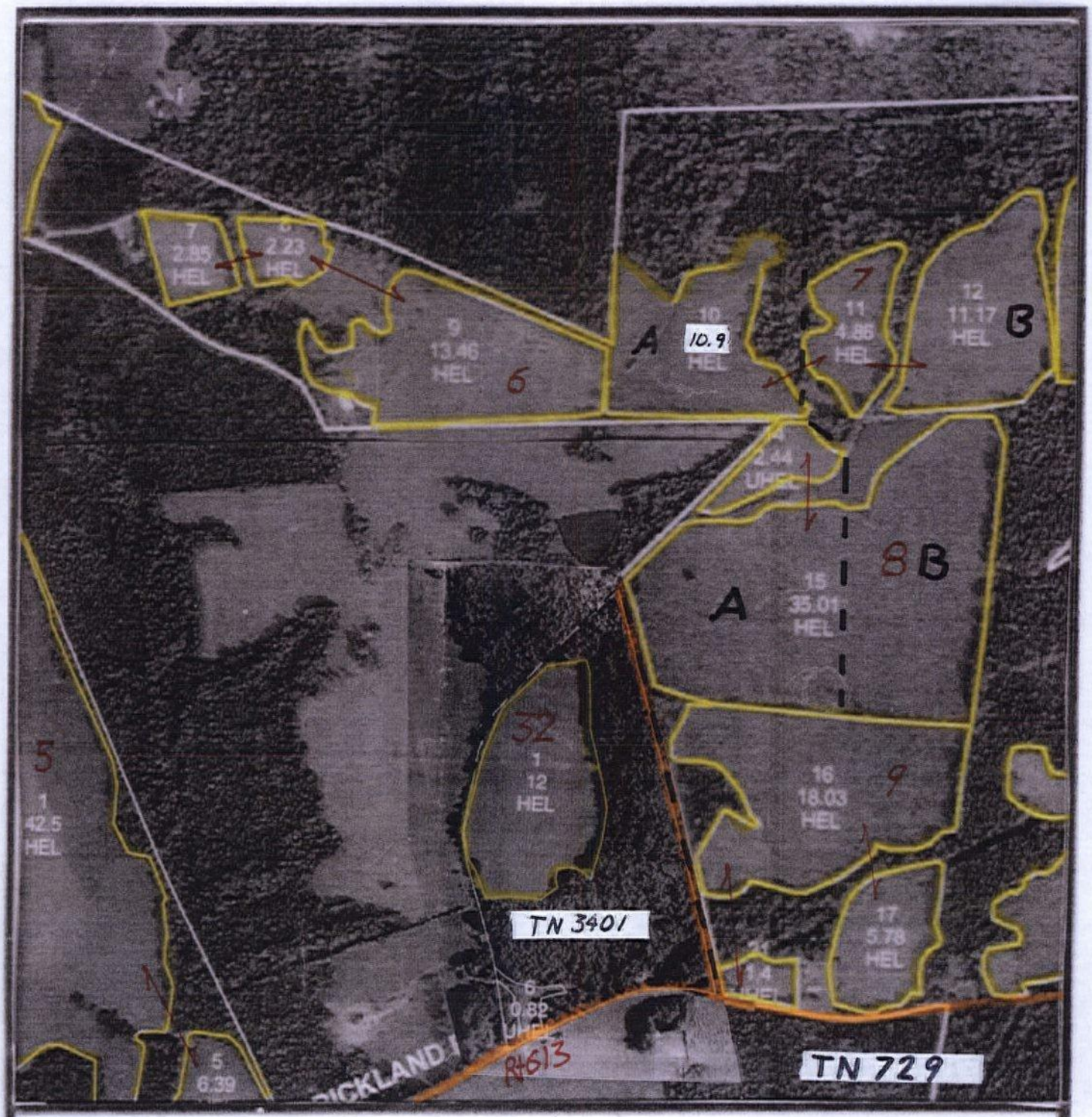
(Biosolids Land Application)

Scale: 1 inch = 660 feet LUJKL 5

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

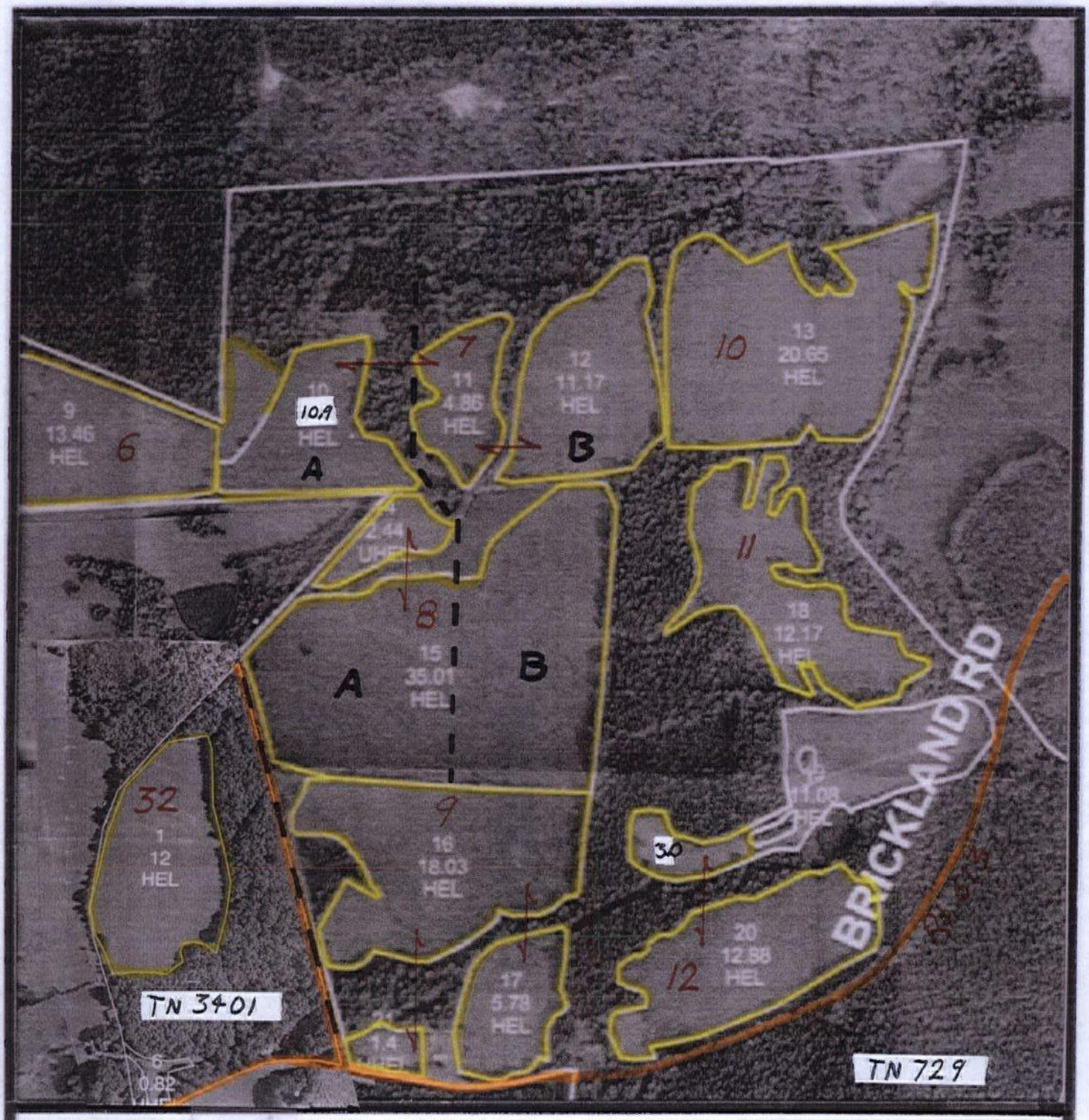


Scale: 1 inch = 660 feet LUJKL 6-9, 32

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1 inch = 660 feet LUJKL 7-12, 32

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

Scale: 1 inch = 660 feet LUJKL 14-16

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

TN 623

Scale: 1 inch = 660 feet

LUJKL 17

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

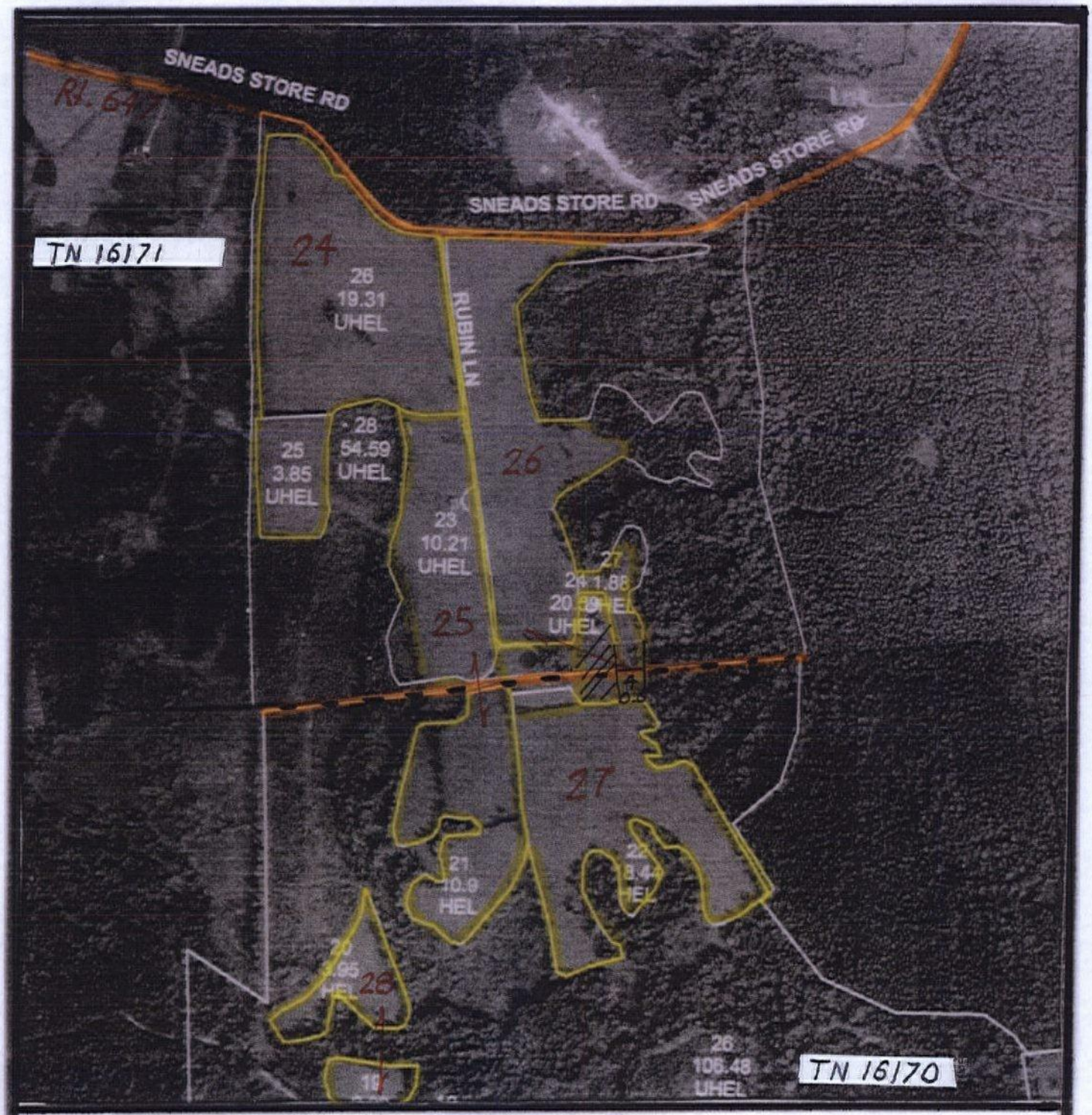
TN 625

Scale: 1 inch = 660 feet LUJKL 18-23

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1 inch = 660 feet

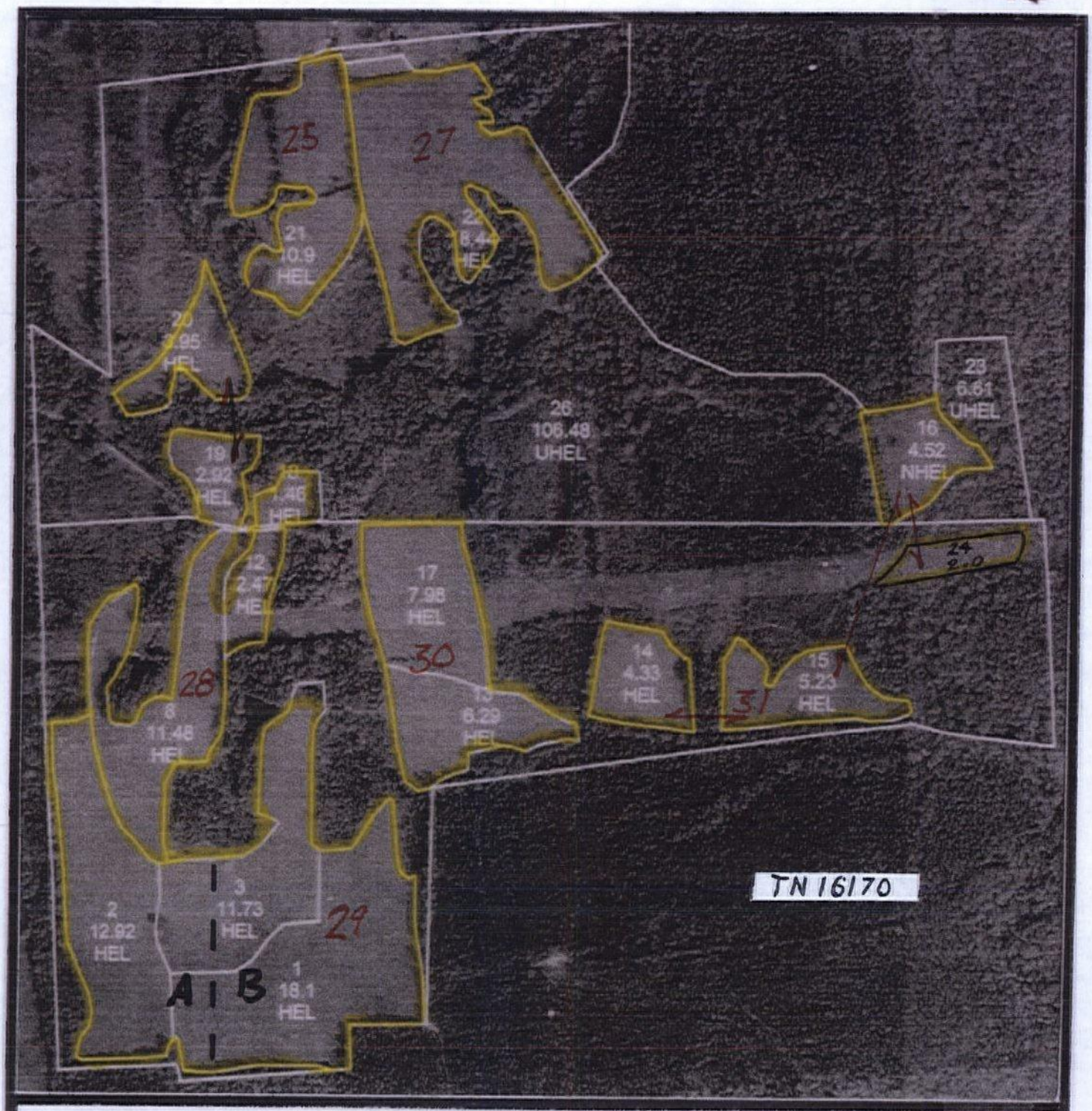
LUJKL 24-27

AERIAL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

LUJKL 27-31

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

TN 502

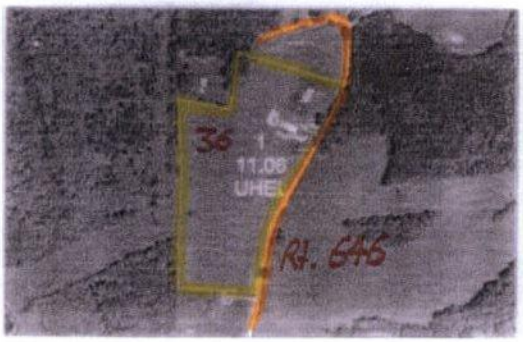
Scale: 1 inch = 660 feet

LUJKL 33-35

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



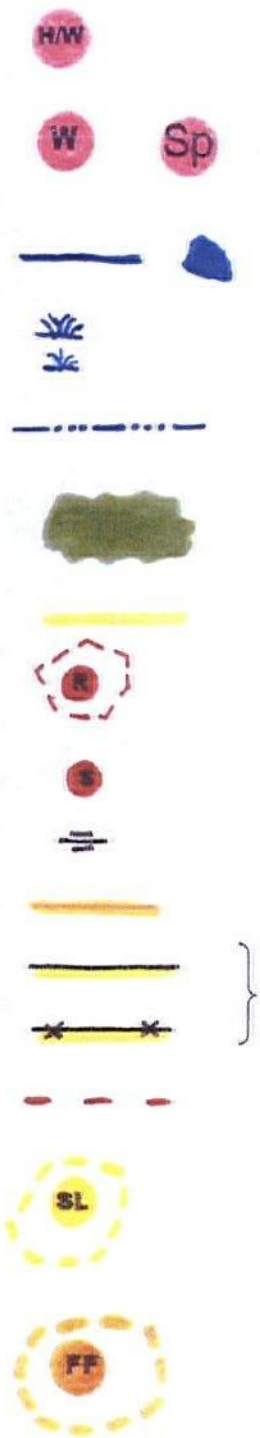
TN 15808

Scale: 1 inch = 660 feet LUJKL 36

AERIAL MAP

N

Legend for Site Plan



House and Well

Well / Spring

Perennial Streams & Surface

Wet Spot

Intermittent Stream / Drainage

Trees and Woods

Private Drive

Rock / Rocky Area

Sinkhole

Severely Eroded Spot

State Road

Field Boundary / Fence

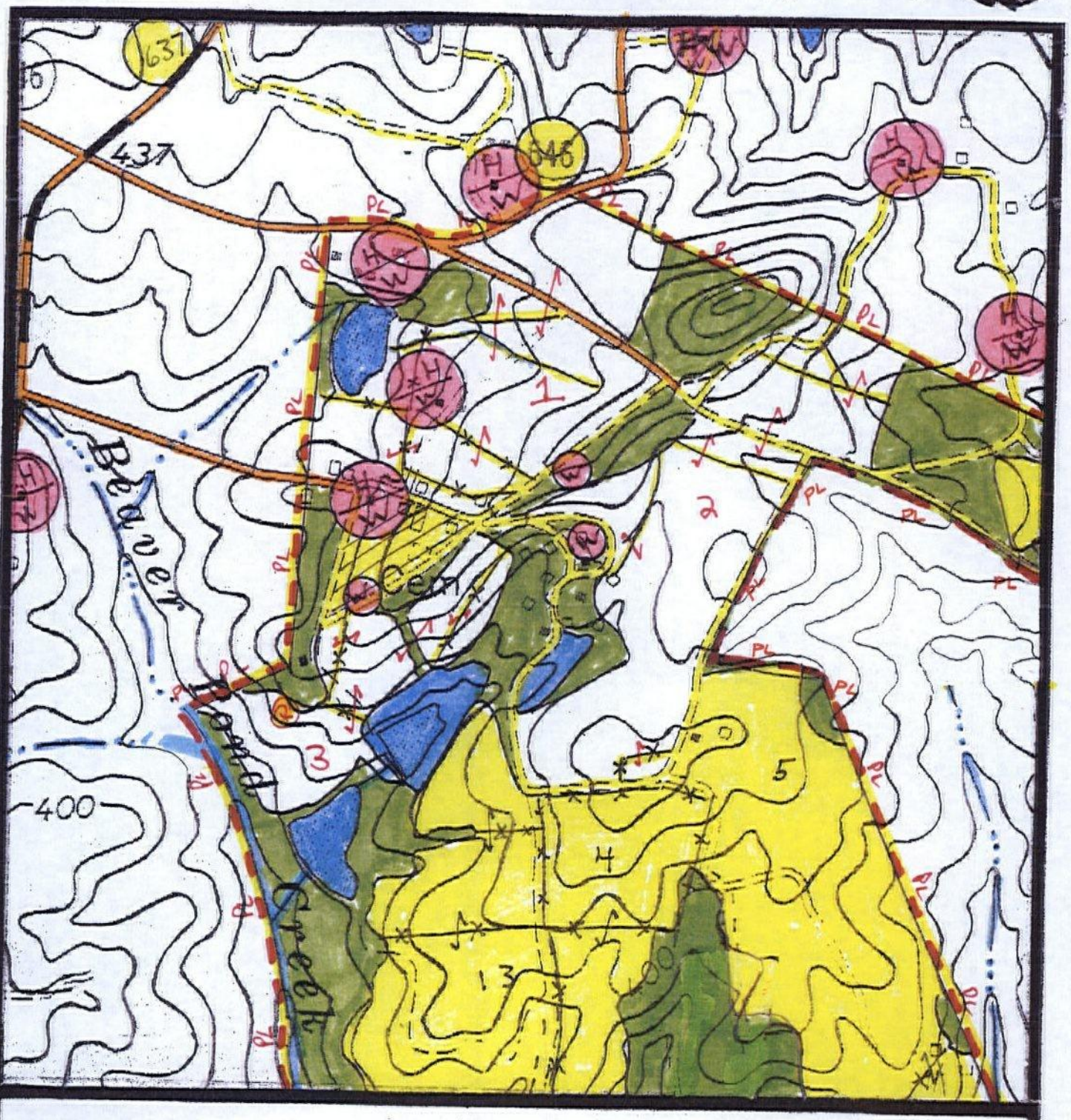
Property Line

Slope

Frequent Flooded Soil

Recyc Systems™ Inc.

(Biosolids Land Application)



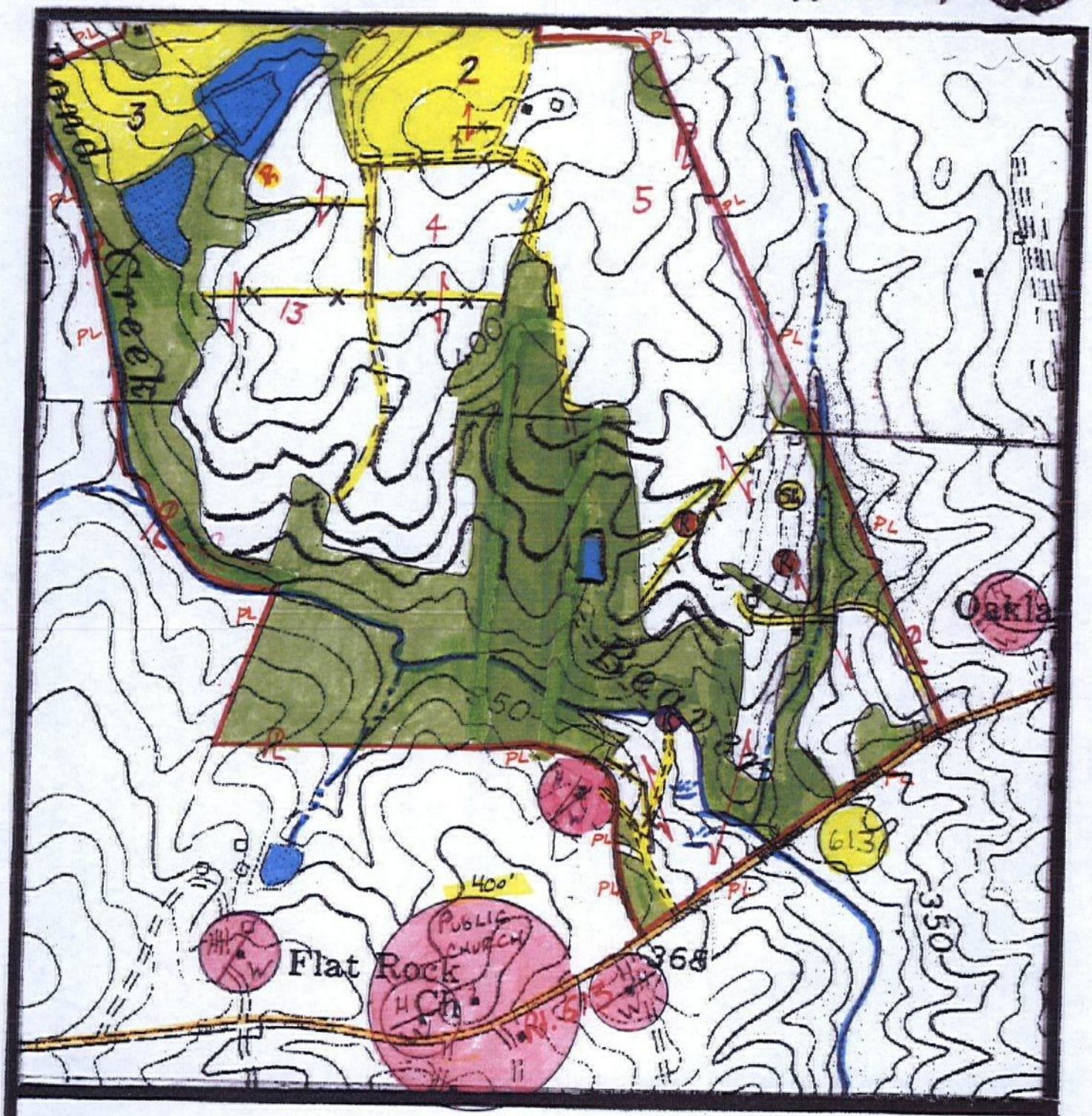
Scale: 1inch = 2 miles LUJKL 1-3

SITE PLAN

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

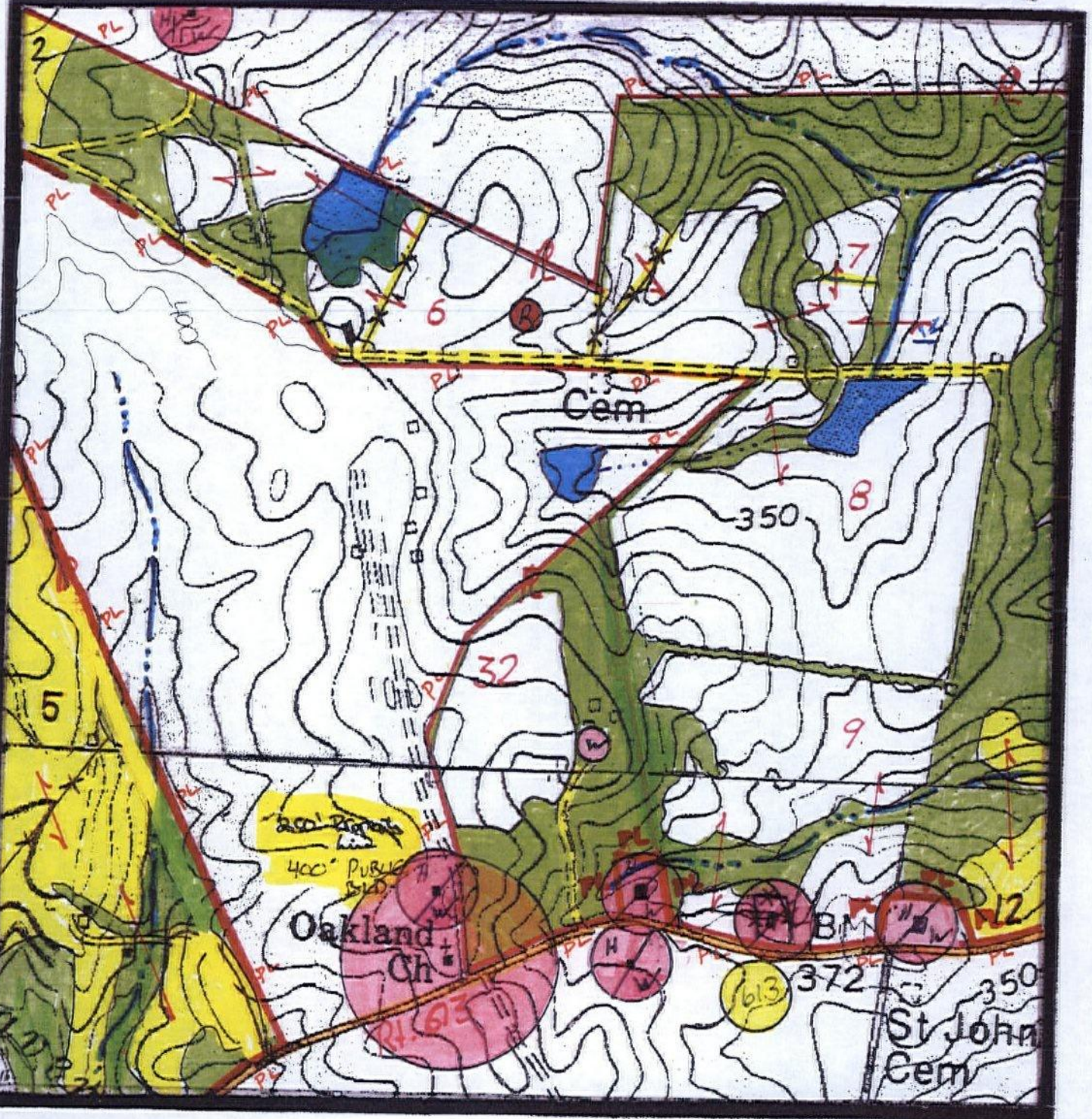
LUJKL 4,5, 13

SITE PLAN

N

Recyc Systems™ Inc.

(Biosolids Land Application)



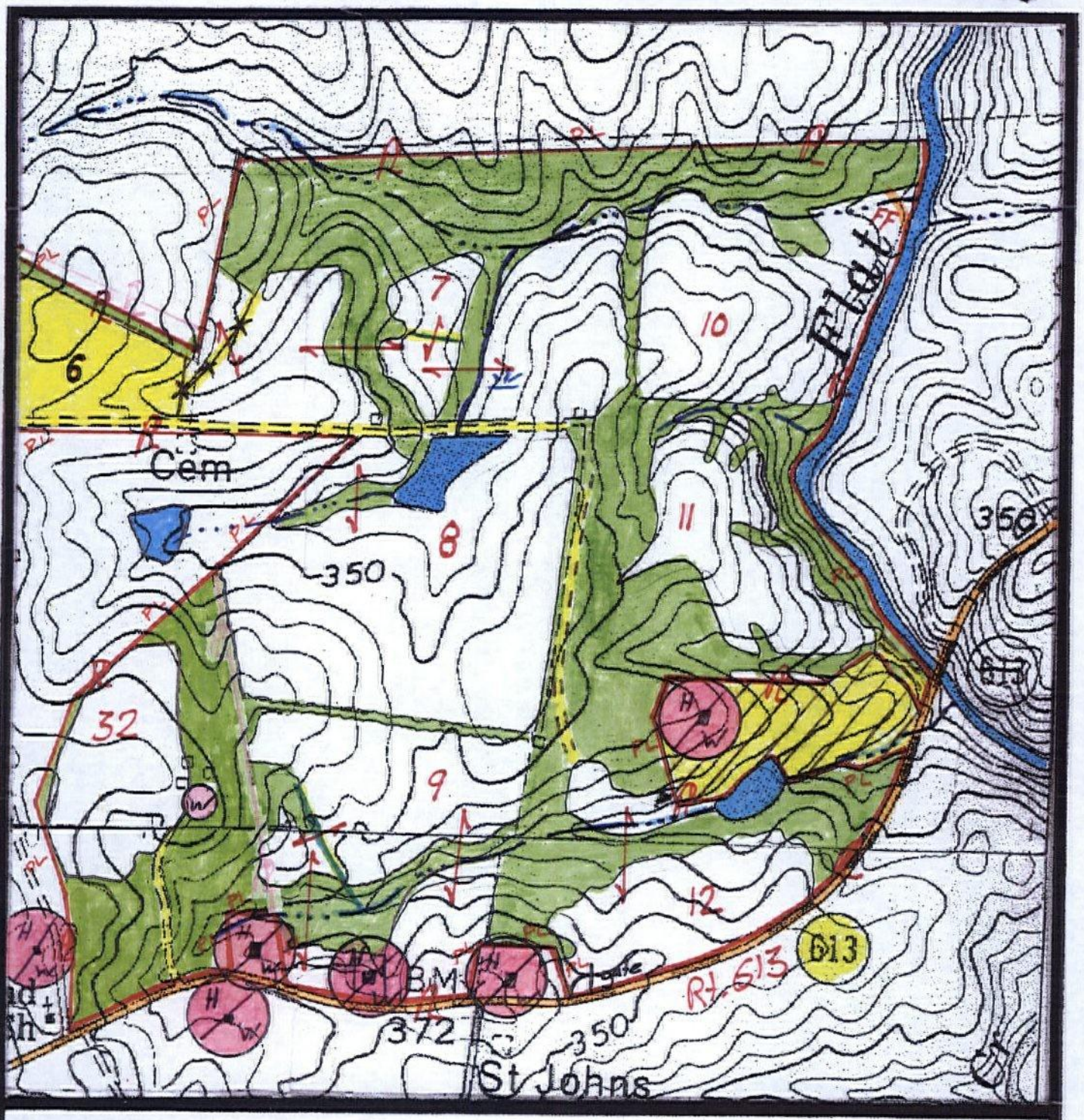
Scale: 1 inch = 660 feet LUJKL 6-9, 32

SITE PLAN

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet LUJKL 7-12, 32

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)

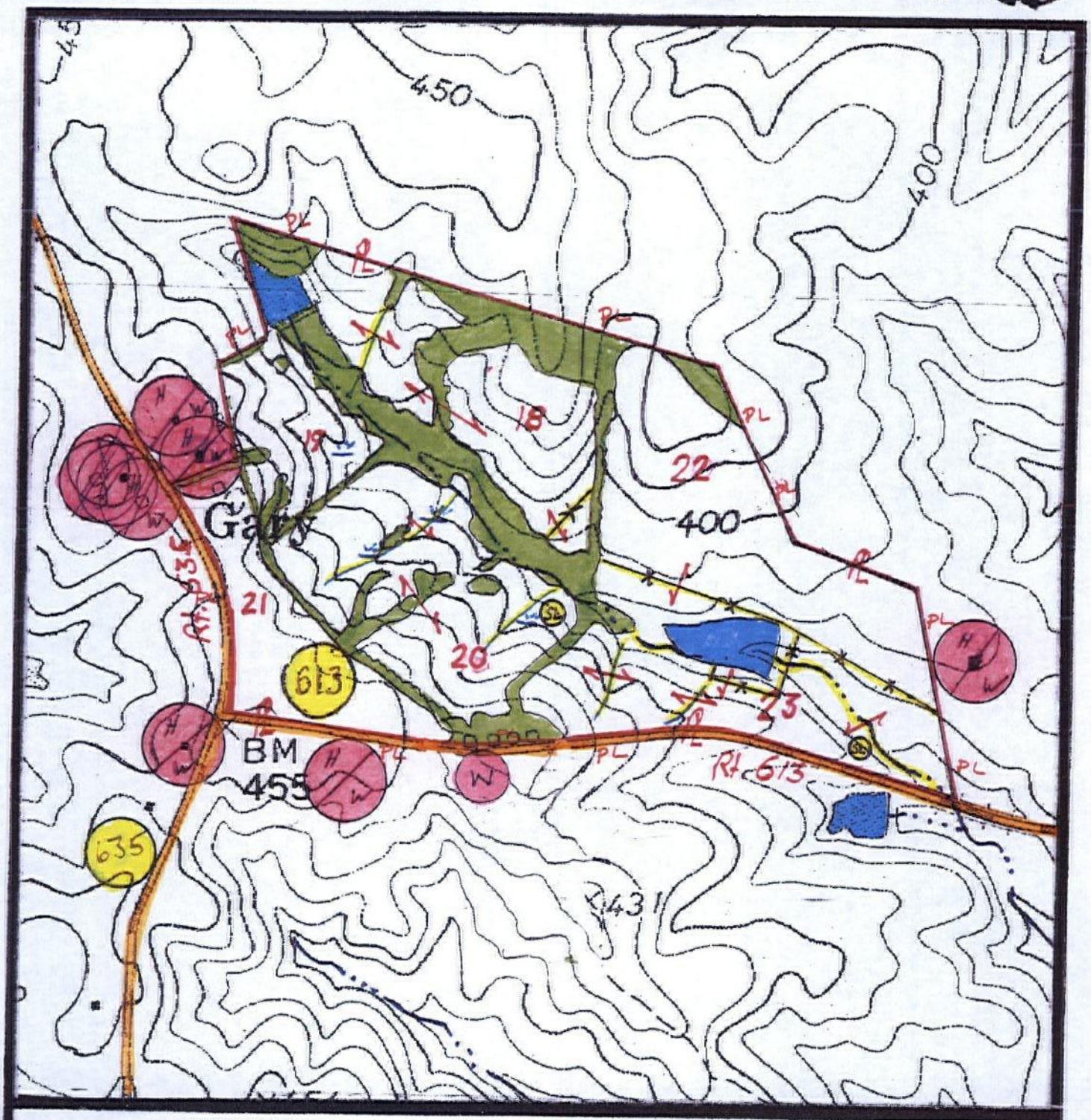
Scale: 1 inch = 660 feet

LUJKL 14-16

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



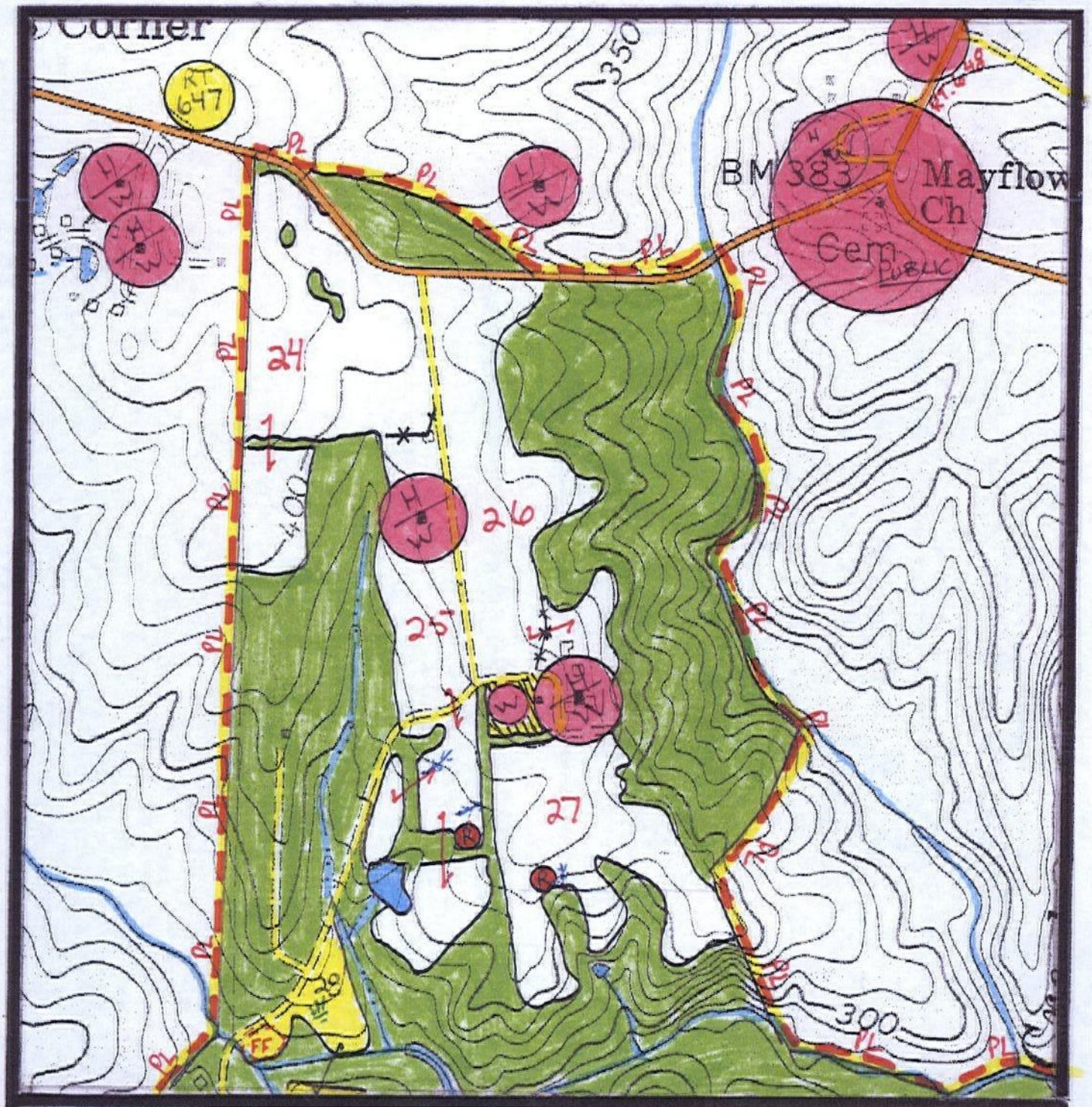
Scale: 1 inch = 660 feet

LUJKL 18-23

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



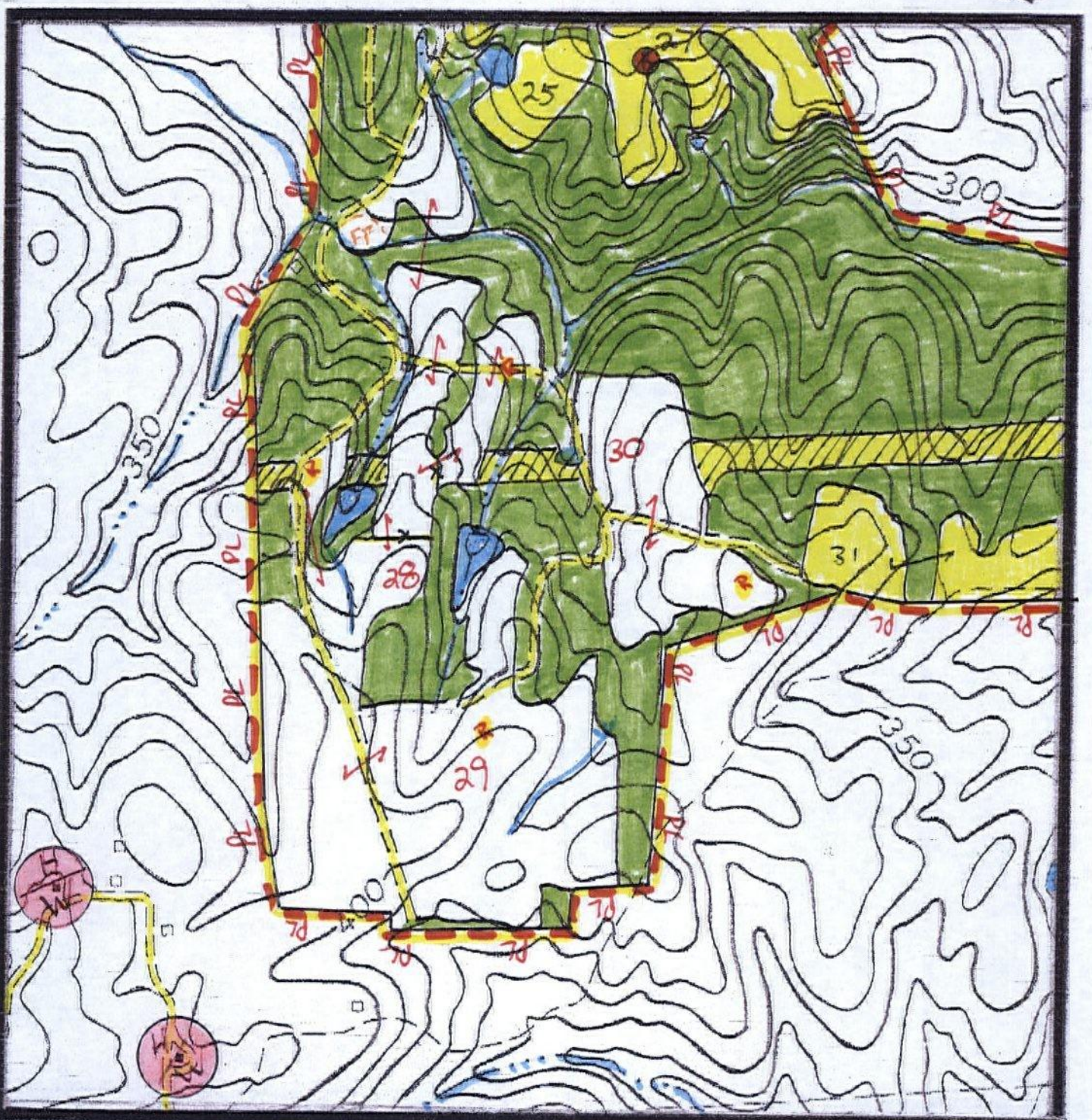
Scale: 1inch = 2 miles

LUJKL 24-27

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)

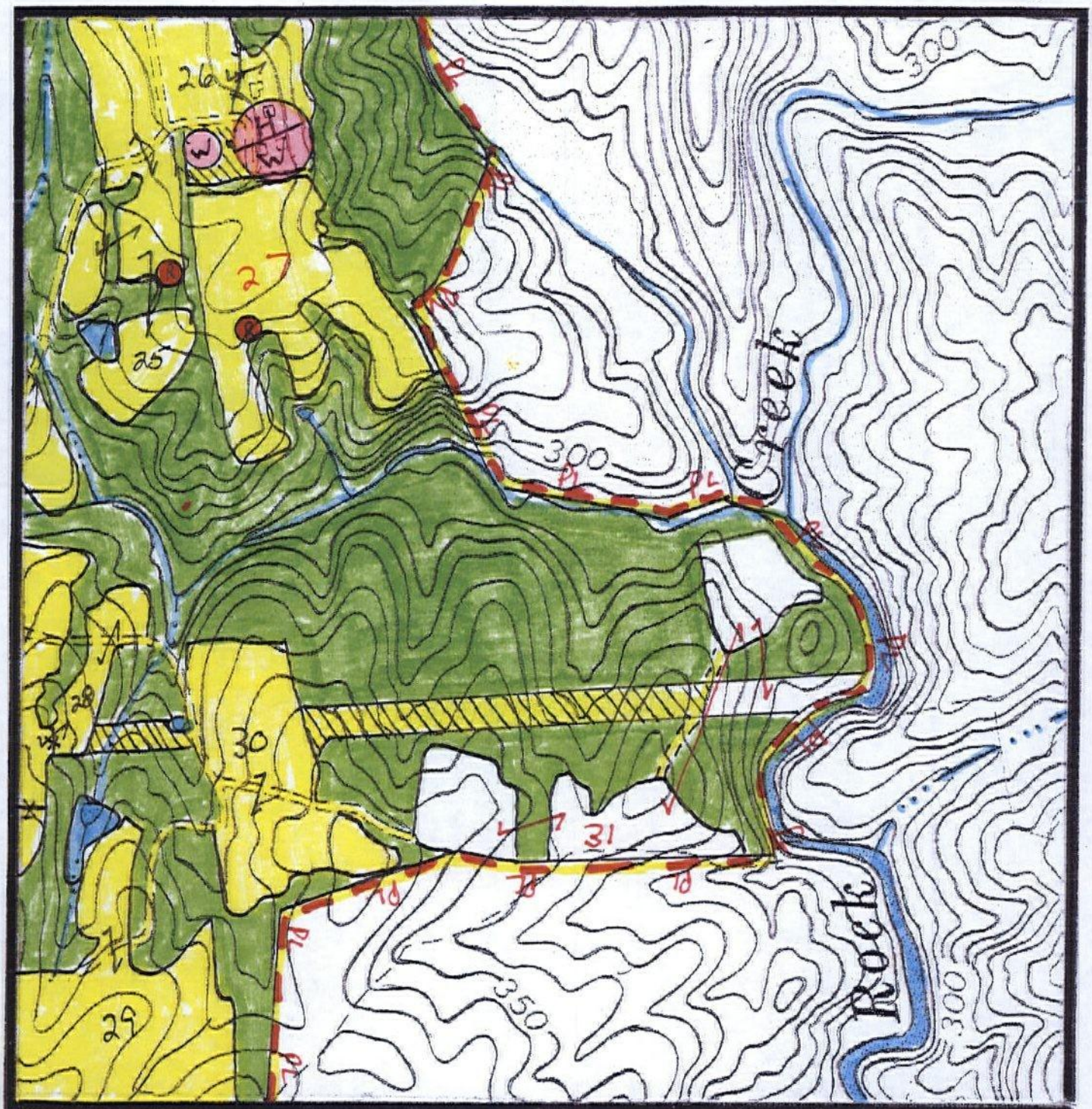


Scale: 1inch = 2 miles LUJKL 28-30

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



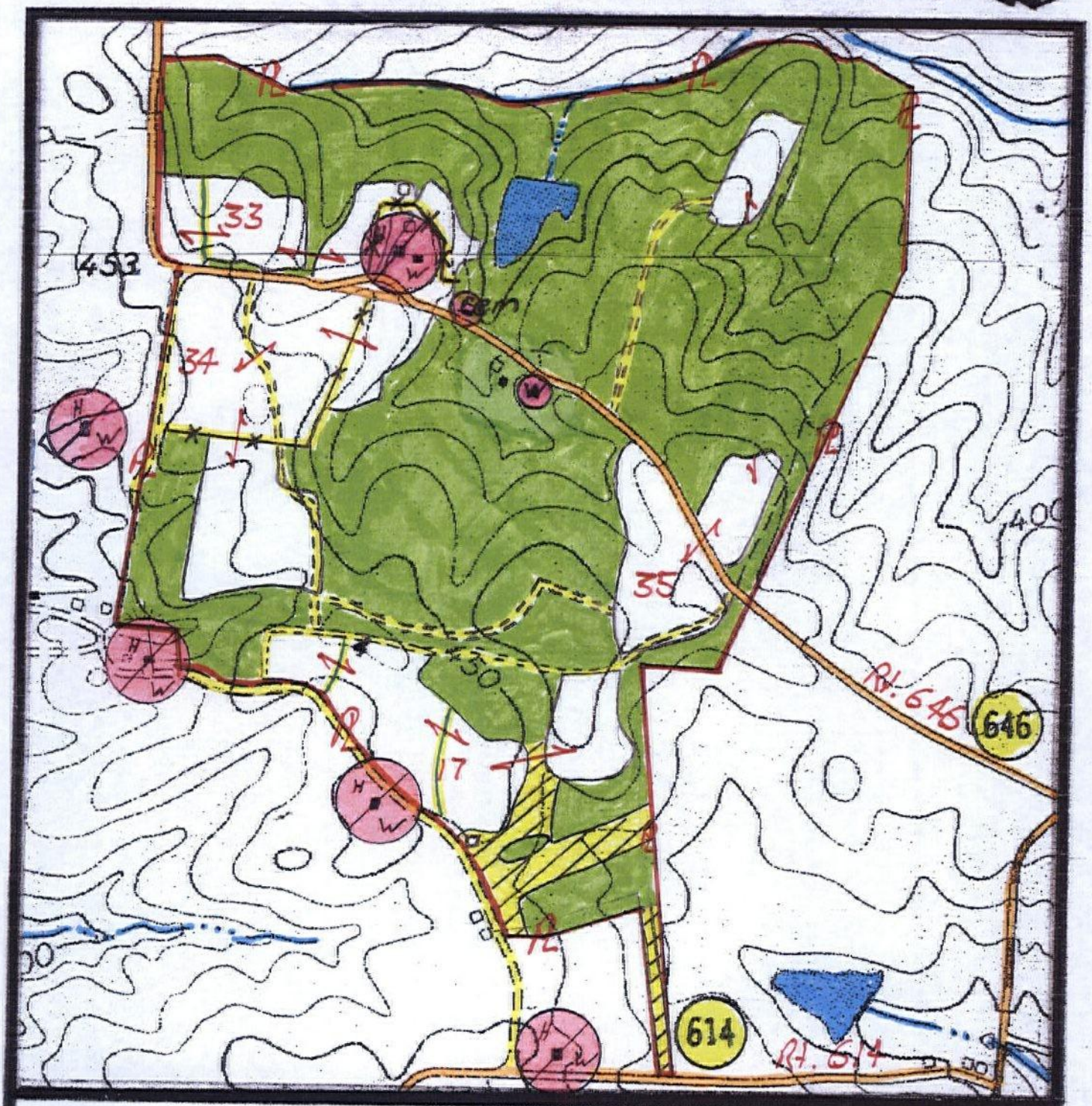
Scale: 1 inch = 2 miles LUJKL 31

SITE PLAN

N

Recyc Systems™ Inc.

(Biosolids Land Application)



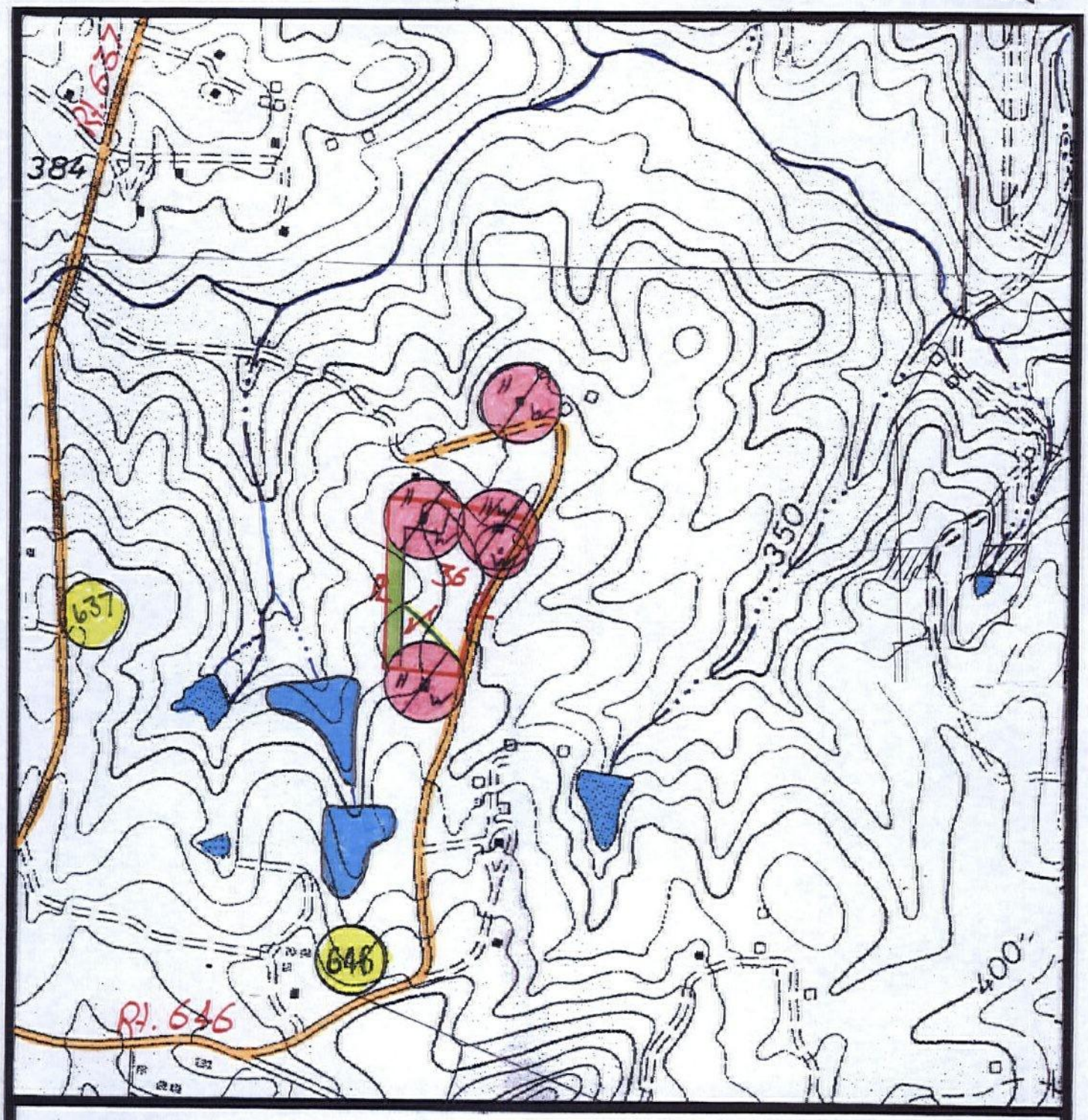
Scale: 1 inch = 660 feet LUJKL 17, 33-35

SITE PLAN

N

Recyc Systems™ Inc.

(Biosolids Land Application)

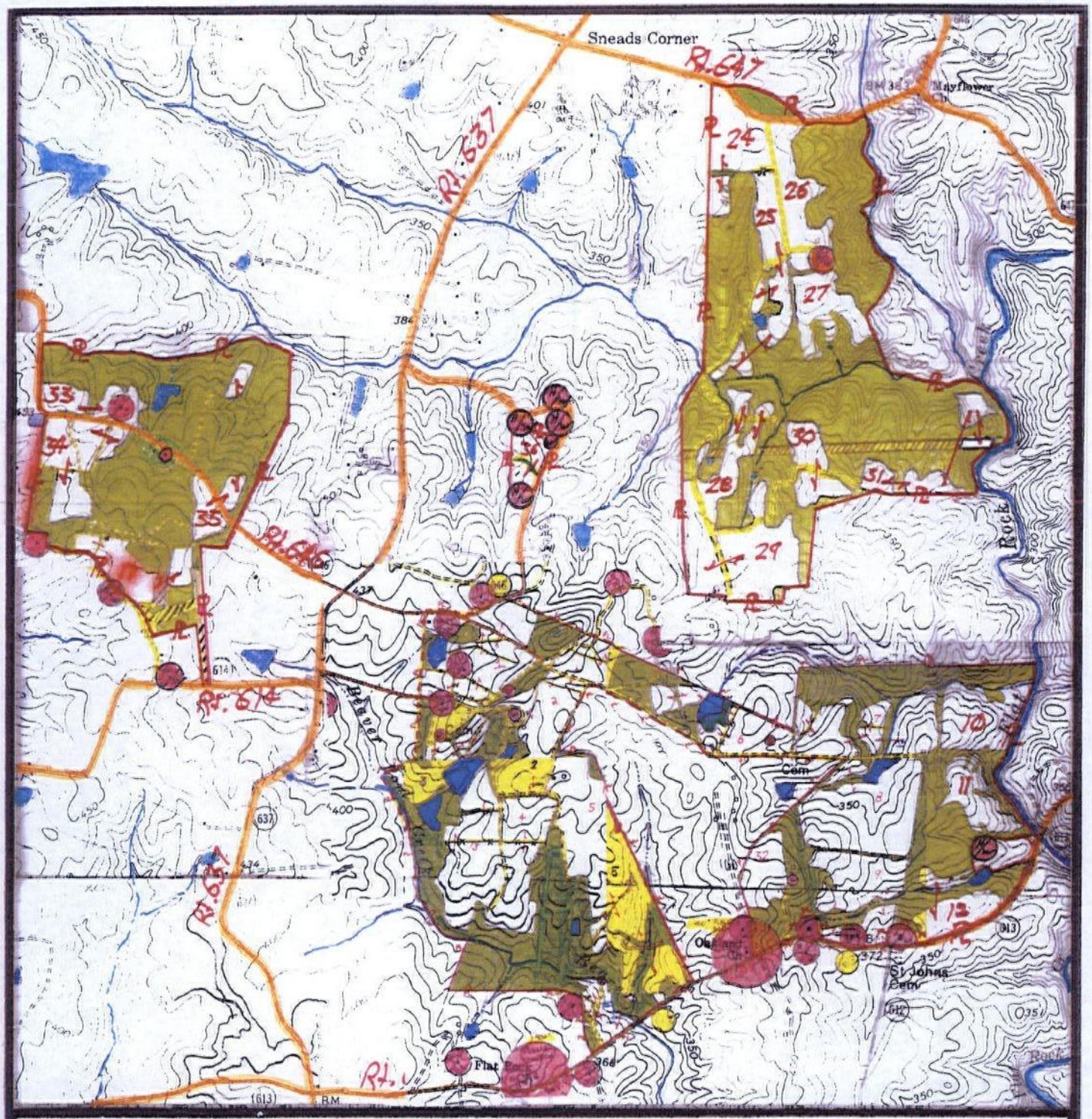


Scale: 1 inch = 660 feet LUJKL 36

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)

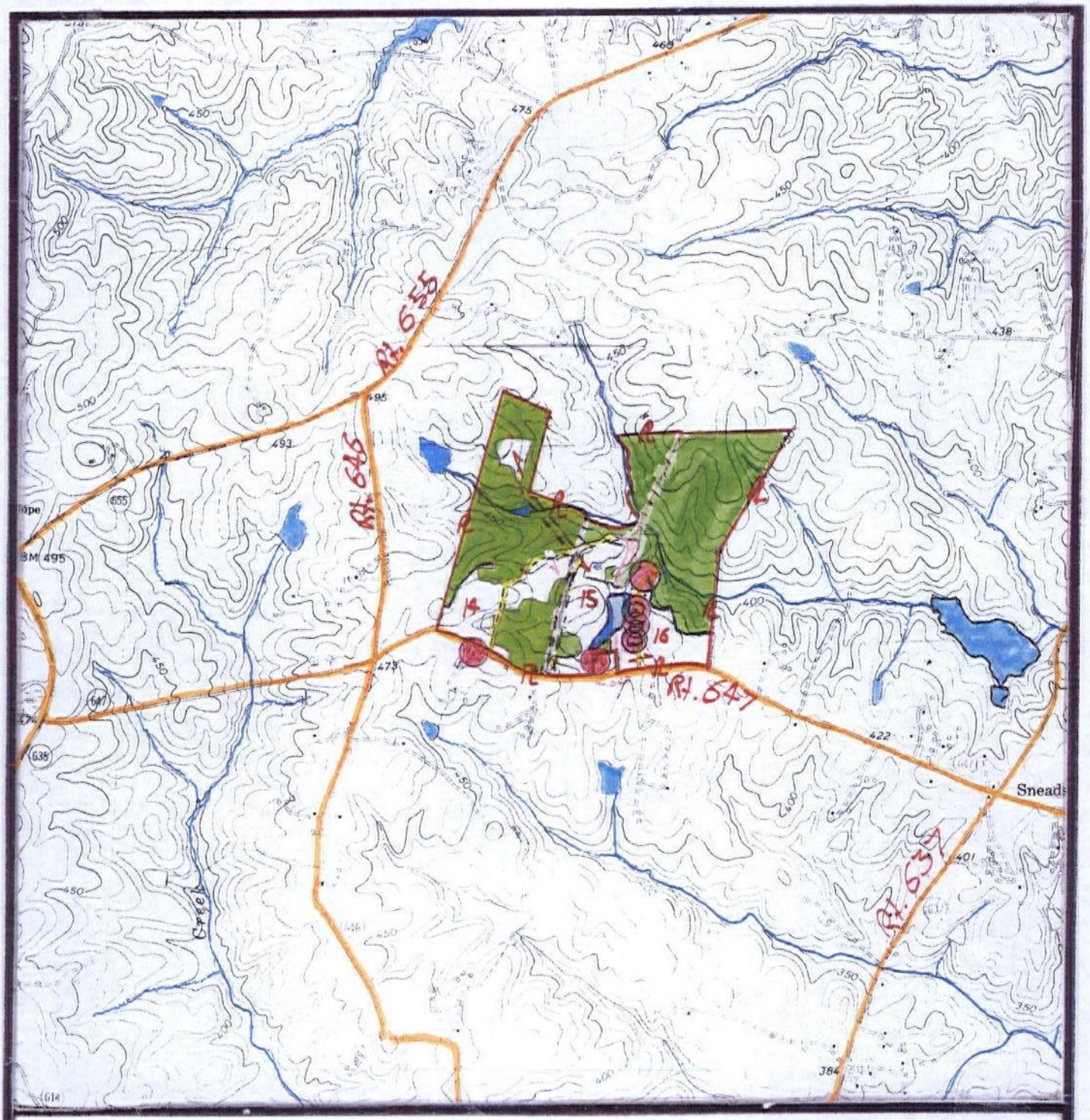


Scale: 1 inch = 2,000 feet LUJKL 1-13, 17, 24-36

TOPOGRAPHIC MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

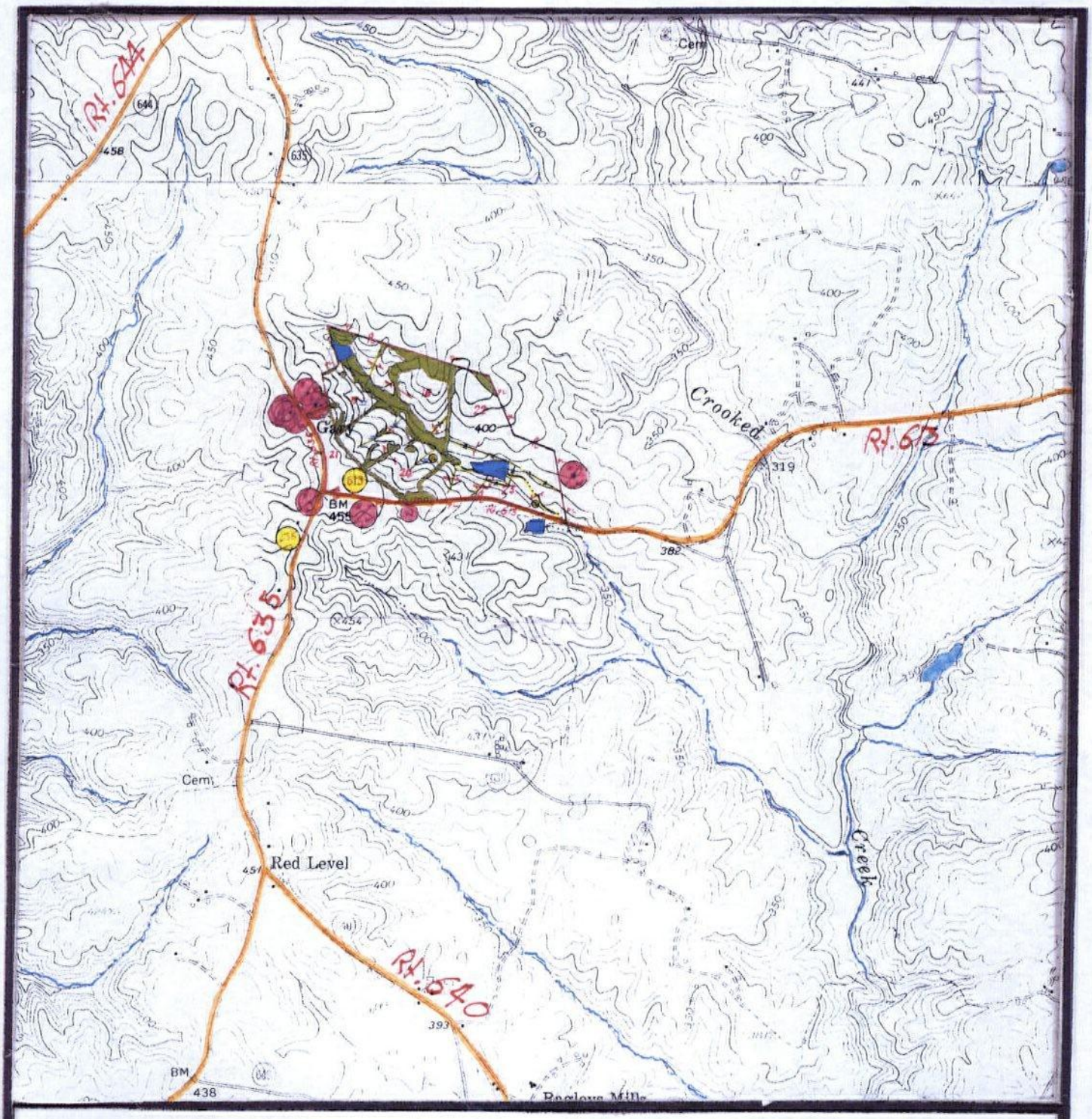


Scale: 1 inch = 2,000 feet LUJKL 14-16

TOPOGRAPHIC MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1 inch = 2,000 feet

LUJKL 18-23

TOPOGRAPHIC MAP

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