

LAND APPLICATION SITE

MARY C. LONGEST

KQMCL 1

KING & QUEEN 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 8-2-18 between John D. Longest 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 King & Queen 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
<u>32-77R-149R</u>			

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

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

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

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

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

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

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

John D Longest
 Landowner - Printed Name, Title
 (owner) John Longest
 Signature

760 Poplar Hill Rd
Newtown, Va. 23126
 Mailing Address & Phone Number
 Tel #

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)

Strunk
 Permittee - Authorized Representative
 Printed Name

Strunk
 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: King & Queen Co.

Landowner: John D. Longest

Landowner Site Management Requirements:

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

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

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

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

Following biosolids application to pasture or hayland sites:

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


Landowner's Signature

8-2-18
Date


Farm Operator Signature

8299 Newtown Rd.
St. Stephens Church, Va. 23148
Mailing Address & Phone Number
Tel# 804-514-4236

**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 8-2-18 between Joan Tate 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.

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

Joan Tate Joan Tate 760 Poplar Hill Road
 Landowner - Printed Name, Title Signature Mailing Address & Phone Number
owner 1

Permittee:

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[Signature] [Signature] PO Box 562 Remington, Virginia 22734
 Permittee - Authorized Representative Signature Mailing Address
 Printed Name

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

Permittee: Recyc Systems, Inc

County or City: King & Queen Co.

Landowner: Joan Tate

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Joan Tate
Landowner's Signature

8/2/18
Date

Richard Schoolz Jr.
Farm Operator Signature

8299 Newtown Rd.
St. Stephens Church, Va. 23148
Mailing Address & Phone Number
Tel# 804-514-4236

FARM DATA SHEET

SITE NAME:	Mary C. Longest	COUNTY:	King & Queen
OWNER:	See List Below	OPERATOR:	Richard Schools, Jr.
OWNER'S ADDRESS:	See List Below	OPERATOR'S ADDRESS:	8299 Newtown Road St. Stephens Church, VA 23148
OWNER'S TELEPHONE:	See List Below	OPERATOR'S TELEPHONE:	804-769-2575
GENERAL FARM TYPE:	Row Crops	CELL PHONE:	804-514-4236
# CATTLE:	None	EMAIL:	-
LAGOON or SLURRY:	N/A	LATITUDE:	37.906
TOPO QUAD:	Sparta	LONGITUDE:	-77.135
COMMENTS:	METHOD OF DETERMINATION: Online Maps		
Tax Map Shows property in the name of Mary C. Longest Revocable Living Trust. Mary C. Longest is deceased and present owners are her children.			
John D. Longest (Son) 760 Poplar Hill Road Newtown, VA 23126		Joan Tate (Daughter) 760 Poplar Hill Road Newtown, VA 23126	

SD 
8-9-18

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	DEQ Control ID	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
			Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
KQMCL 1	51097-00161-0000	75.3	15B Nov.-Apr.	-	-	-	YO 55	32-77R-149R	T 1617 F 1
TOTAL ACRES IN SITE		75.3							

8-9-18

Report Number: 17-065-0739

Account Number: 70594



7621 Whitepine Road, Richmond, VA 23237
 Main 804-743-9401 ° Fax 804-271-6446
 www.waypointanalytical.com

Send To: Recyc Systems Inc
 Susan Trumbo
 8455 Whiteshop Road
 Culpepper VA 22701

"Every acre...Every year."™

Grower: Mary Longest
 King + Queen Co.

SOIL ANALYSIS REPORT

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 03/06/2017

Date Of Analysis: 03/07/2017

Date Of Report: 03/09/2017

Sample ID Field ID	Lab Number	OM	W/V	ENR	Phosphorus			Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C
		% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1-A	23568	1.3 L		73	87 H			49 L	26 L	351 H		6.1	6.90	0.3	2.4
1-B	23569	1.2 L		71	81 H			47 L	25 L	353 H		6.1	6.90	0.3	2.4

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts		
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm Rate	S ppm Rate	Zn ppm Rate	Mn ppm Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate		
1-A	5.2	9.0	73.1		12.5			2.4 M	19 M						
1-B	5.0	8.7	73.5		12.5			2.3 M	19 M						

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: Waypoint Analytical Virginia, Inc.

by: *Pauric McGroary*

Pauric McGroary

Report Number: 17-065-0739

Account Number: 70594



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"Every acre...Every year."™

Grower: Mary Longest
 King + Queen Co.

Date Received: 03/06/2017

Date Of Report: 03/09/2017

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O 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
1-A	Adjust pH to 6.5	0	1.0				54			2			
1-B	Adjust pH to 6.5	0	1.0				55			2			

Comments:

Sample(s) : 1-B Crop: Adjust pH to 6.5

Apply dolomitic lime to raise pH and improve the magnesium level.

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 McGeary

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Fall, 2018-Winter, 2020)
Mary C. Longest
Planner: John Doe

Tract: 1617 Location: King & Queen
 (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/Biosid 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
1/KQMCL 1(N)	75/75	2018 2019	Wheat (grain)	100-30-80 - - - -	0/0				100-30-80	N/A		

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

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
1617	KQMCL 1	75	2017-Wi	H (84 P ppm)	L+ (48 K ppm)	A&L MIII	6.1		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
1617	1617/1	KQMCL 1	75	Emporia	IIIb	II	III	II	

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** **Fall, 2018 - Winter, 2020**

Farm Name: **Mary C. Longest**

Location: King & Queen

Specialist: John Doe

N-based Acres: 75.3

P-based Acres: 0.0

Tract Name: **1617**

FSA Number: 1617

Location: King & Queen

Field Name: **KQMCL 1**

Total Acres: 75.30 Usable Acres: 75.30

FSA Number: 1

Tract: 1617

Location: King & Queen

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Wi-2017	6.1	H(84 P ppm)	L+(48 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
50	4B	Emporia
36	4C	Emporia
12	14B	Rumford

2

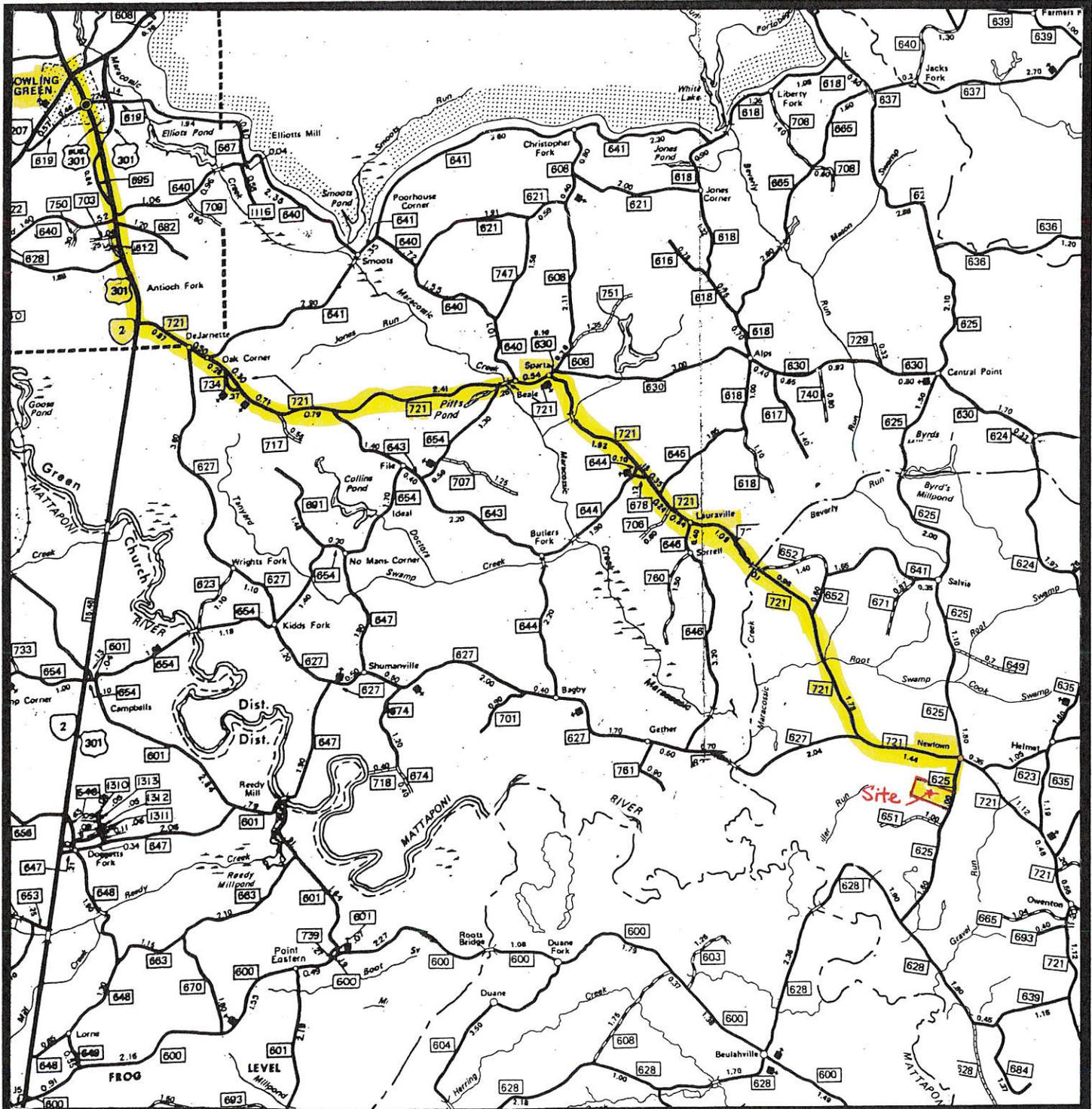
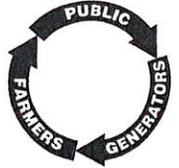
17C Suffolk

Field Warnings:

MAPS

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 2 miles

KQMC 1

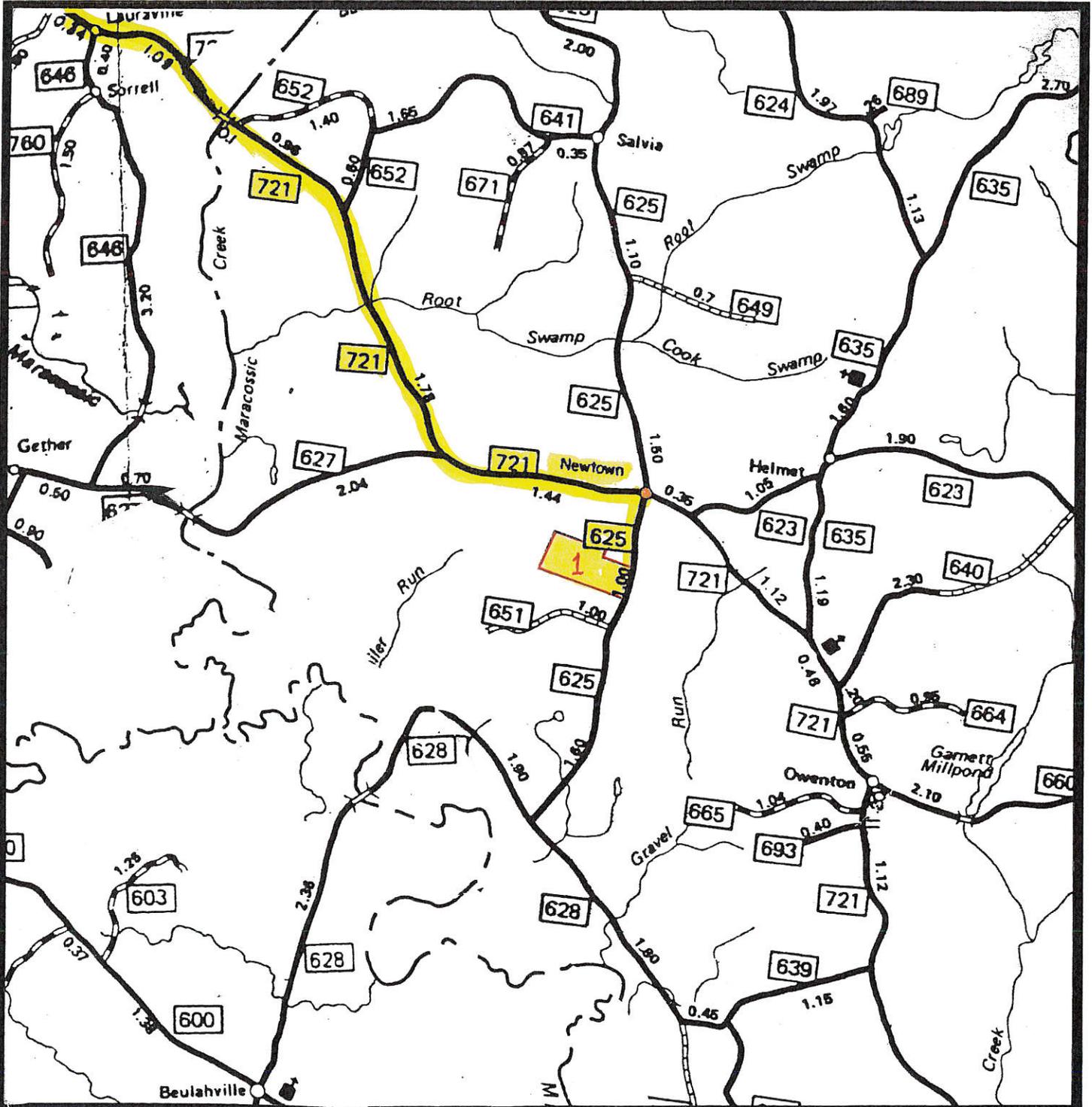
8-9-18

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



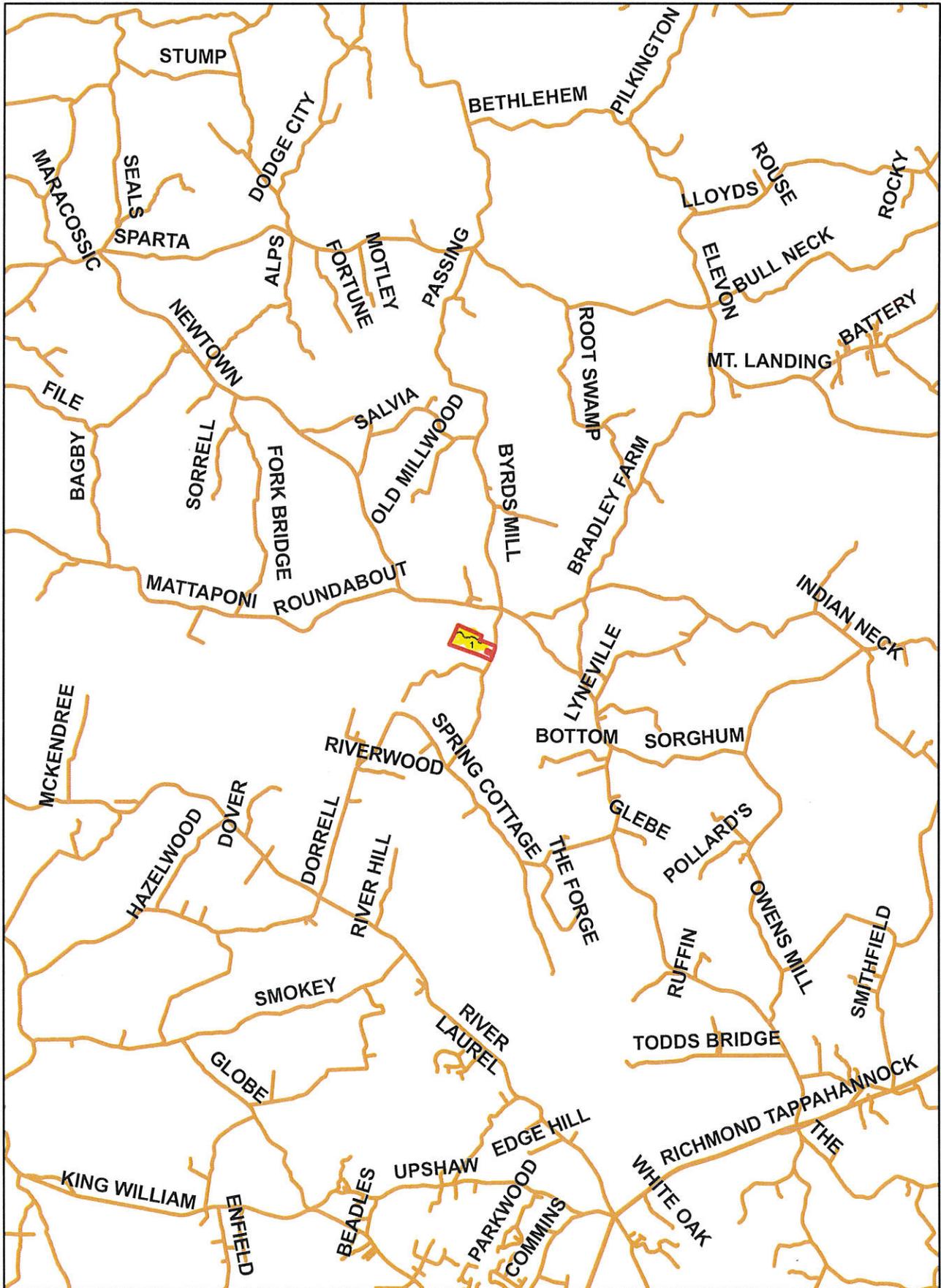
Scale: 1" = 1 mile

KQMCL 1

8-9-18

VICINITY MAP



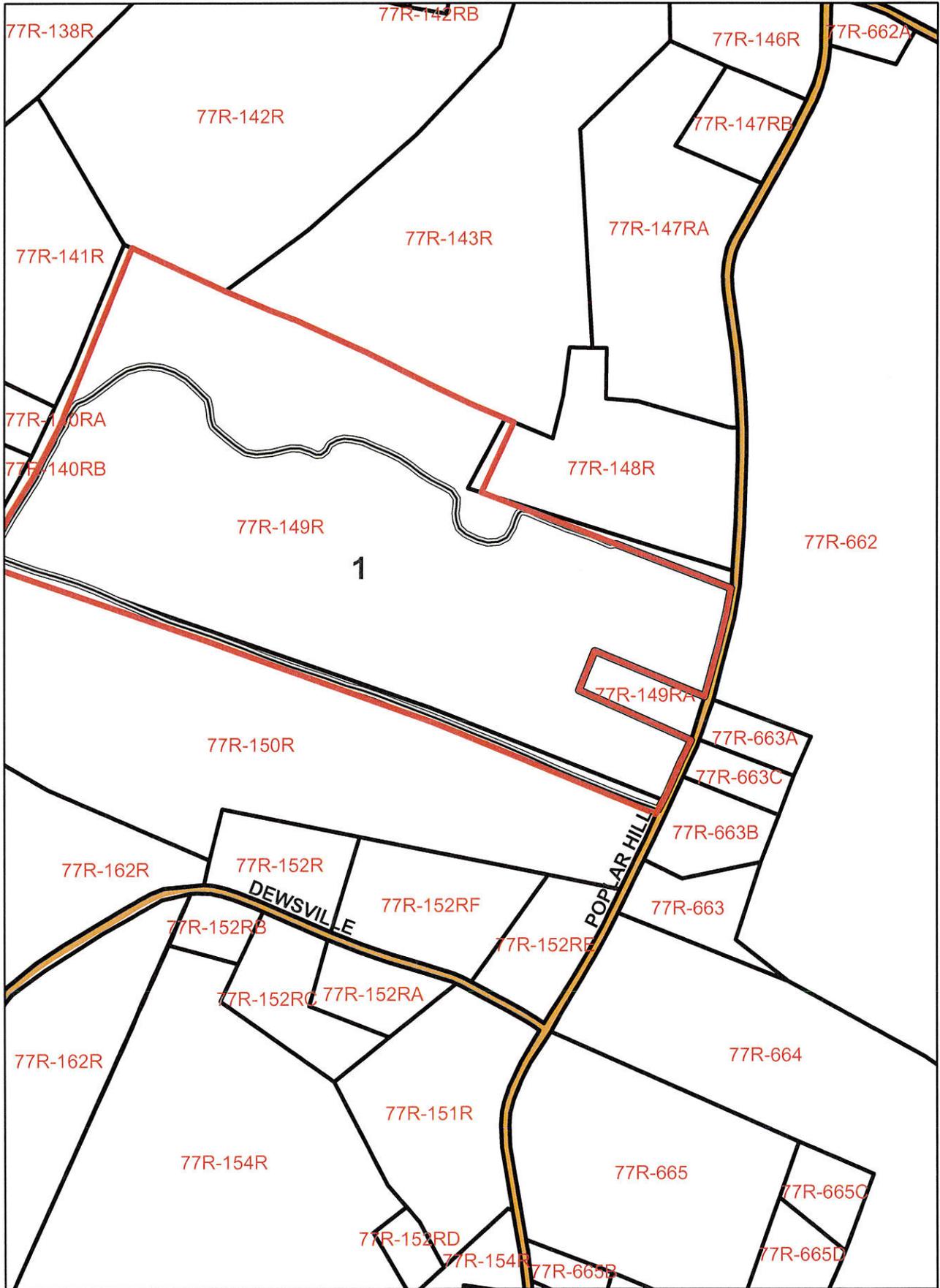


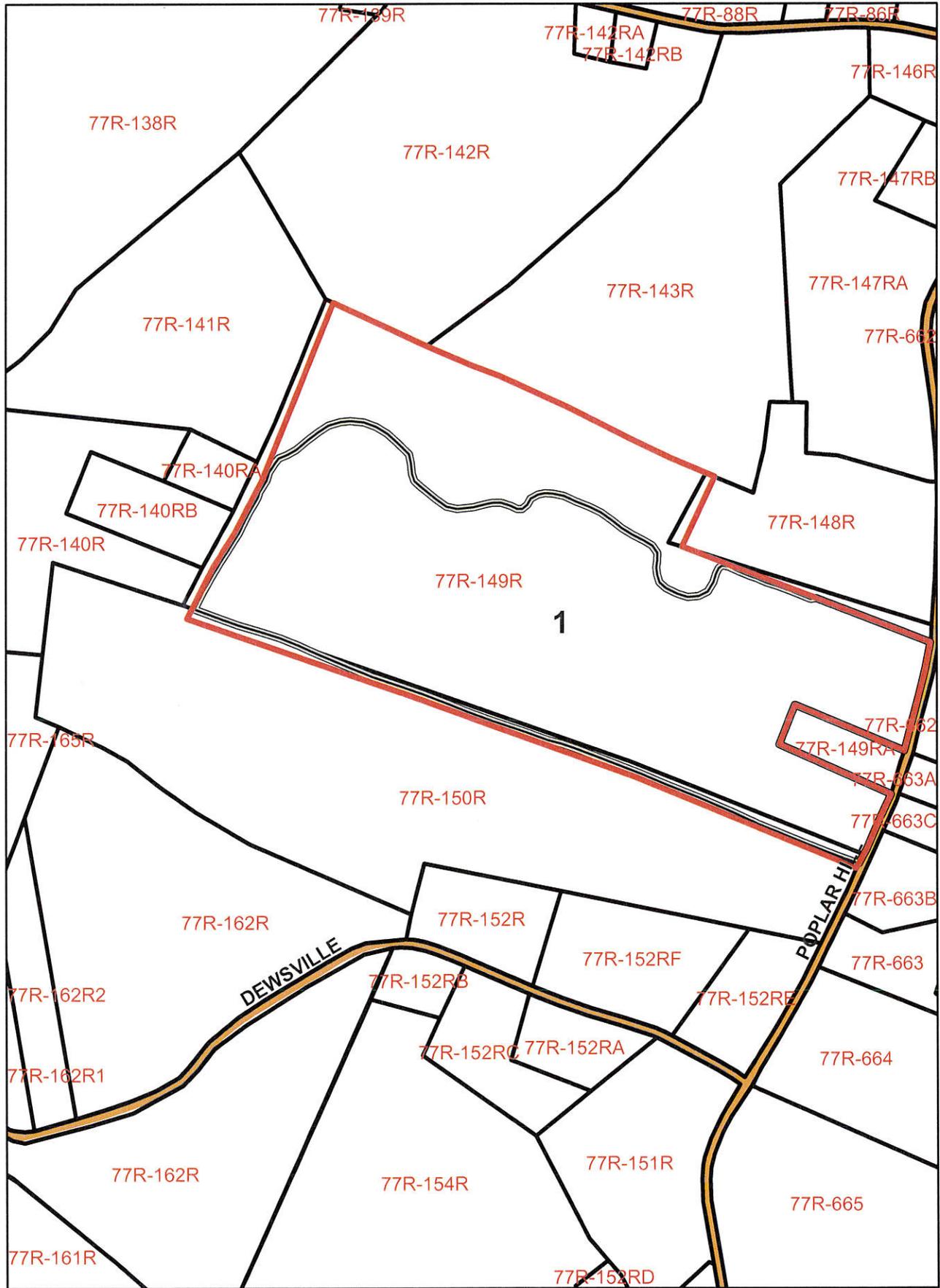
8-9-18

VICINITY MAP

1 in = 2 miles







TAX MAP

1 in = 660 feet

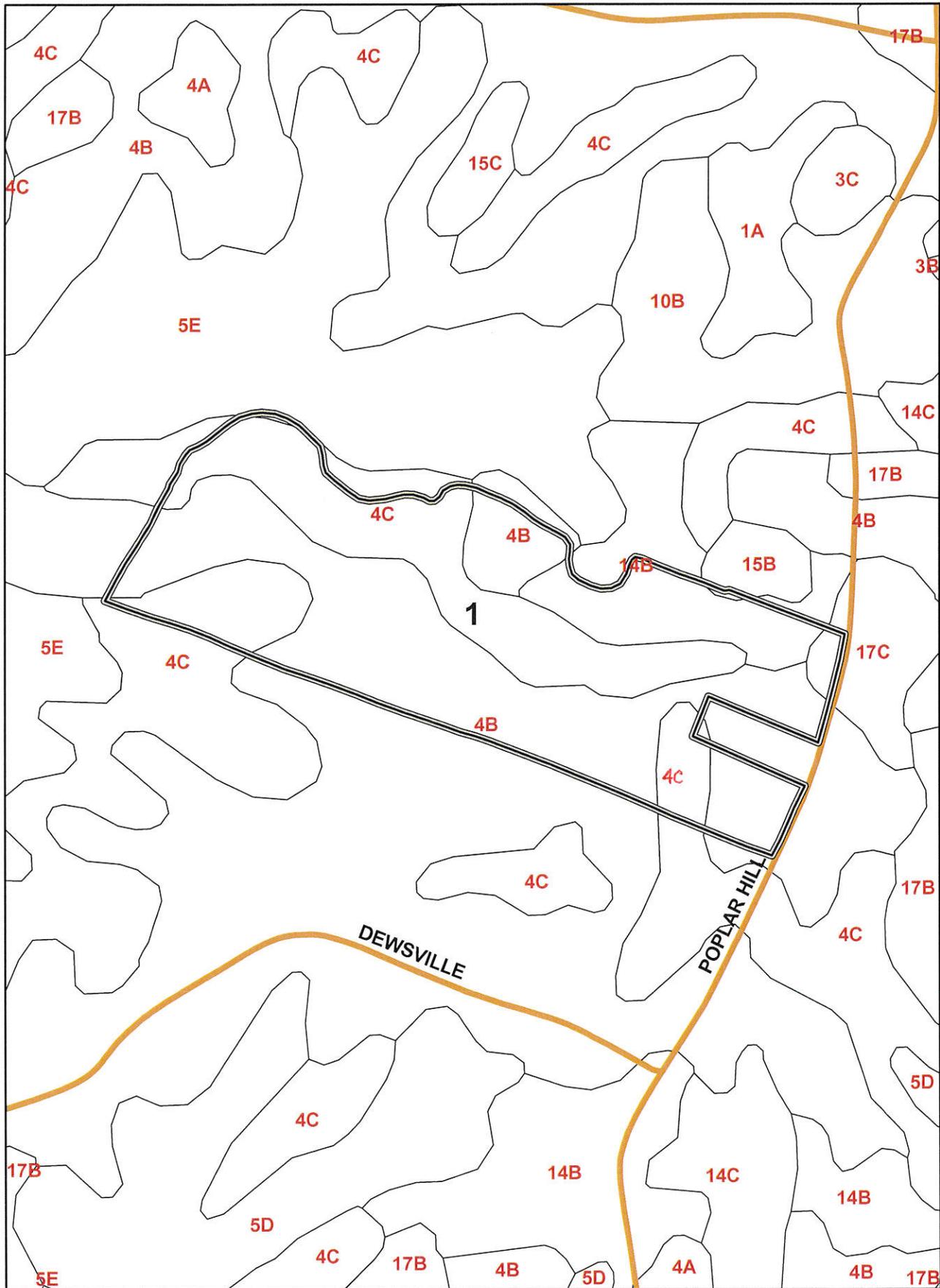


ADJOINING LANDOWNERS

Mary C. Longest

KING & QUEEN COUNTY

Tax Map Parcel #	Owner Name(s)
32-77R-140R	William Holmes Estate
32-77R-140RA	Thomas Christopher Hudson
32-77R-140RB	Steve and Shirley Holmes
32-77R-141	Glen Branscome et. als.
32-77R-142R	Nora C. Howell Trustee
32-77R-143R	Sarah Quisenberry
32-77R-148R	Sarah Quisenberry
32-77R-149RA	John D. and Barbara A. Longest
32-77R-150R	Julian A. Whipple, Jr. and Julian A. Whipple, Sr.
32-77R-662	Robley D. Bates III and Louise Mason
32-77R-663	Brian K. and Martin B. Longest
32-77R-663A	Donald and Jennifer Longest
32-77R-663B	Lloyd W. and Brenda P. Longest
32-77R-663C	Douglas and Stacie Longest

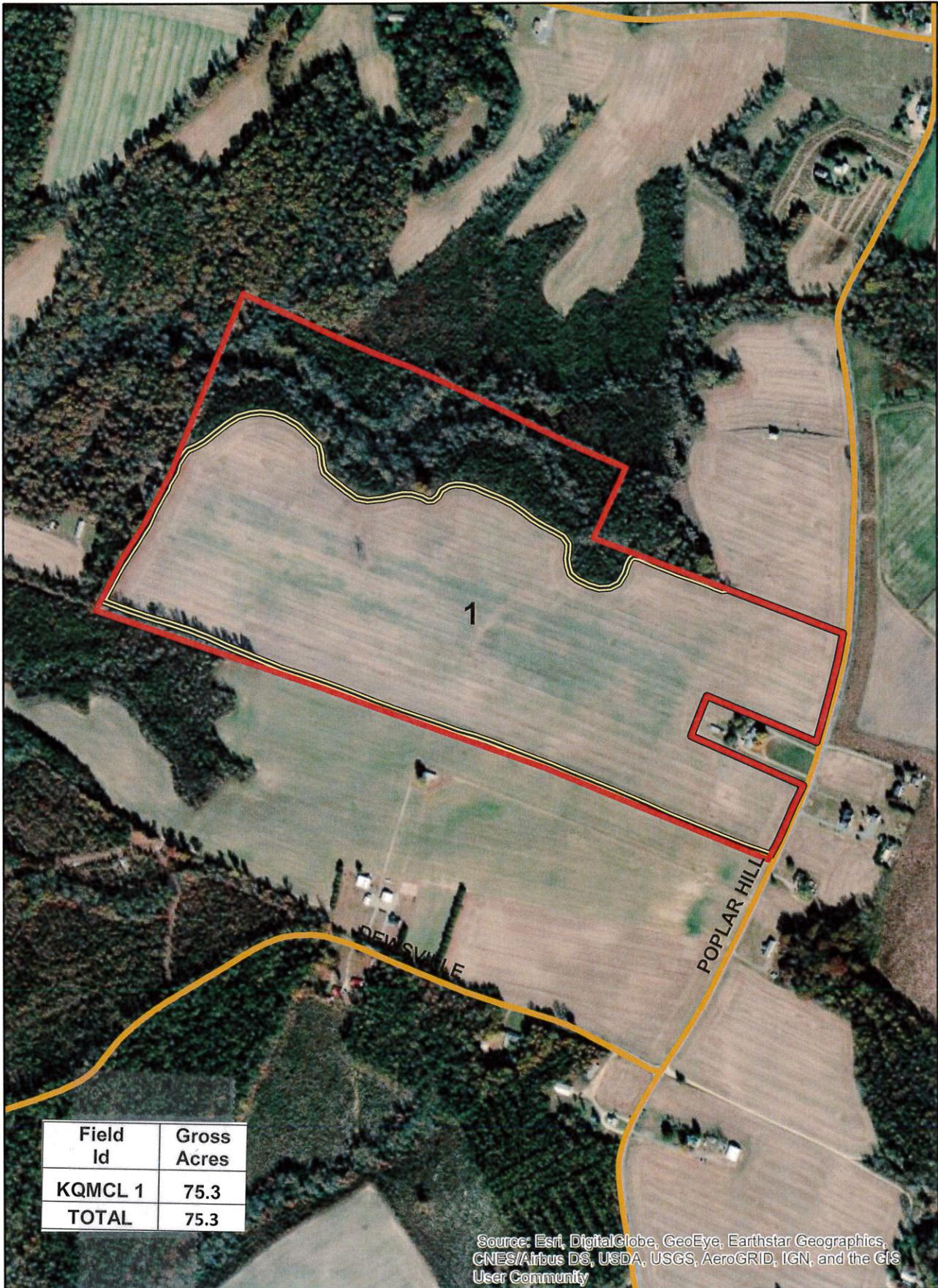


8-9-18

 Frequent Flooding

SOIL MAP

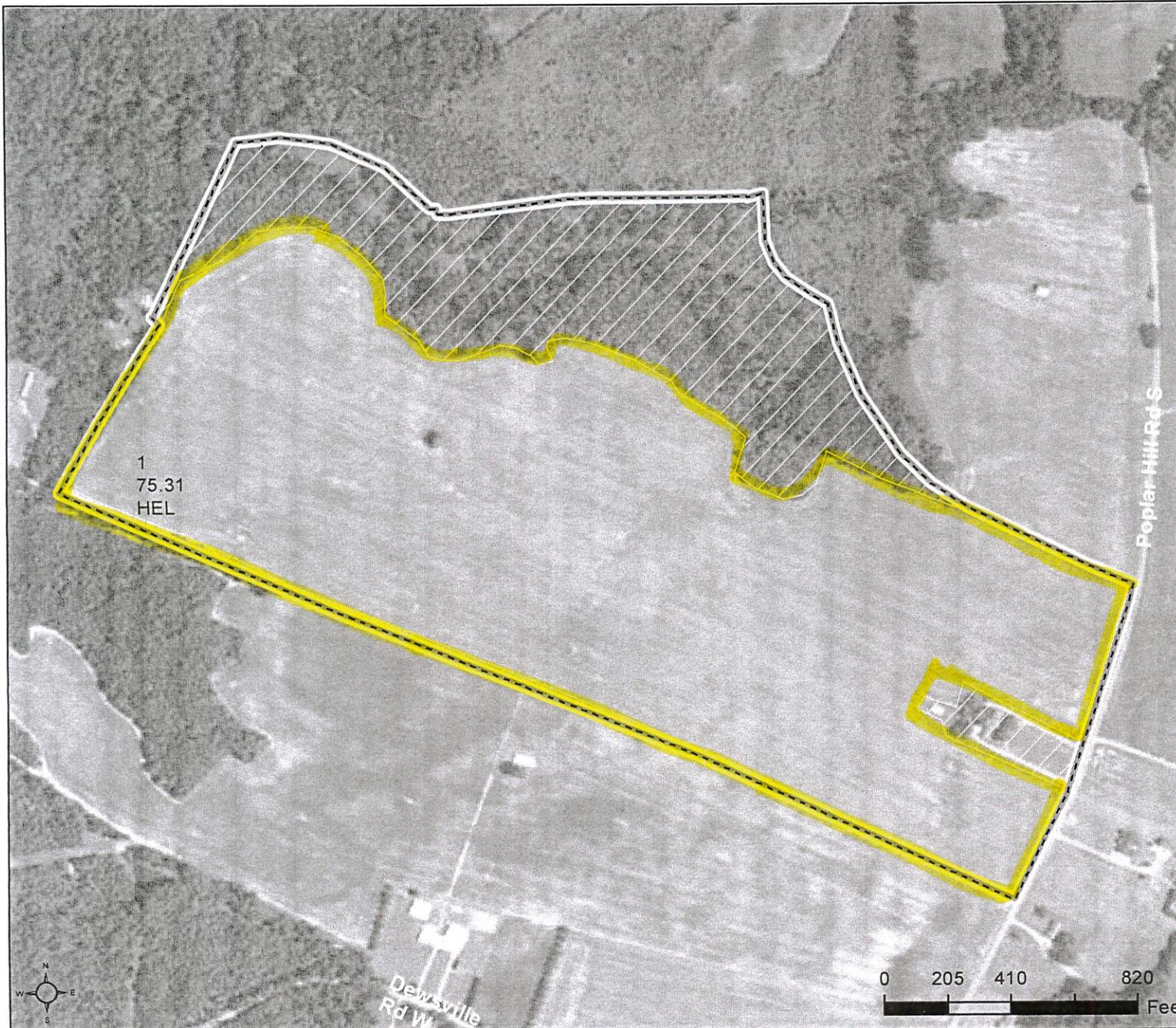
1 in = 660 feet



8-9-18

AERIAL MAP

1 in = 660 feet



2018 Program Year

Map Created January 11, 2018

Common Land Unit

- Non-Cropland
- Cropland
- rcl_va097
- Tract Boundary

Wetland Determination Identifiers

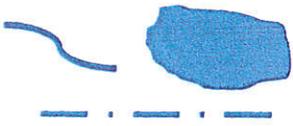
- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 75.31 acres

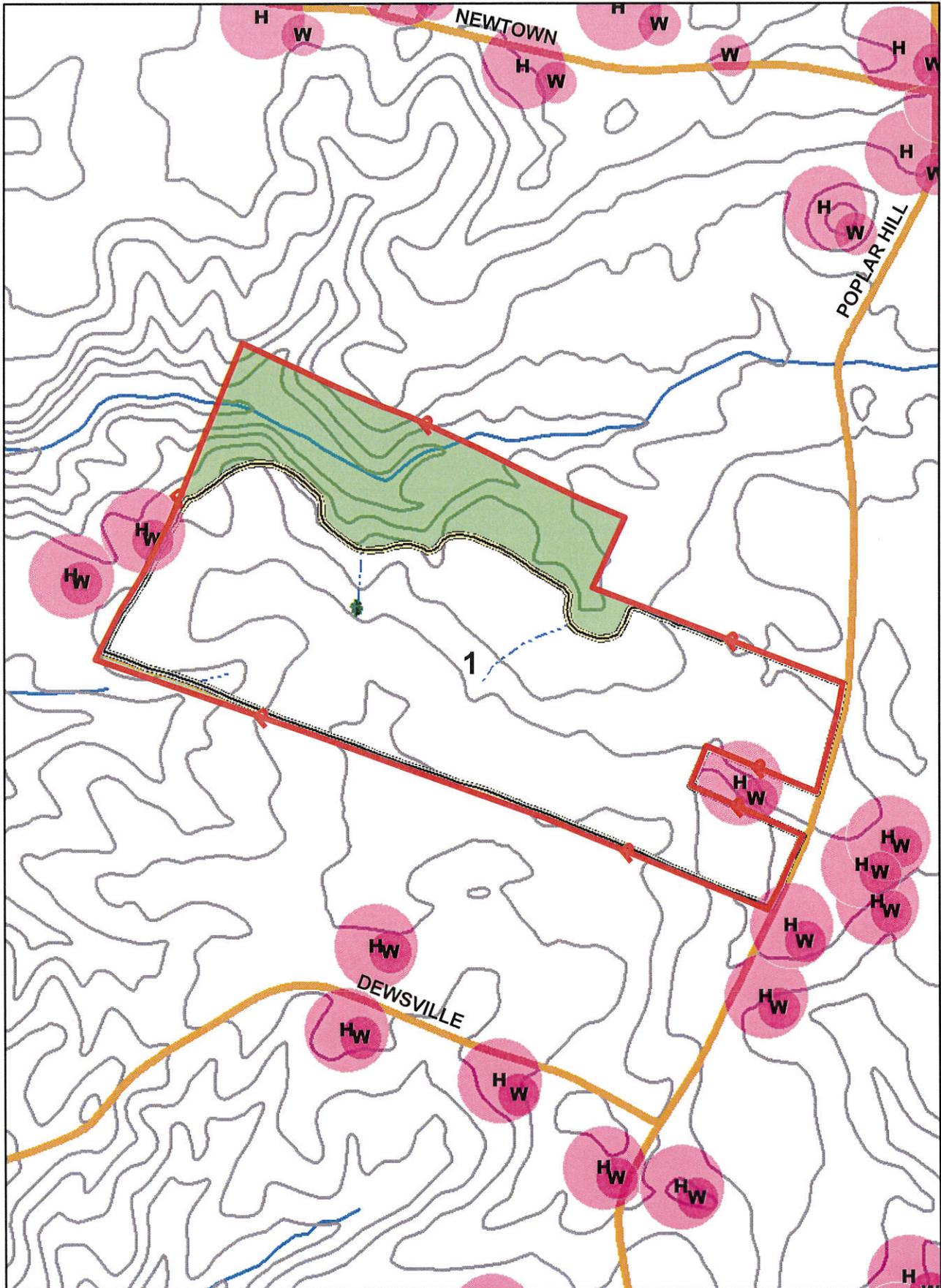
United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

Andrew L. ...

Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
	Slope	15% maximum
	Hashed out Area	No application

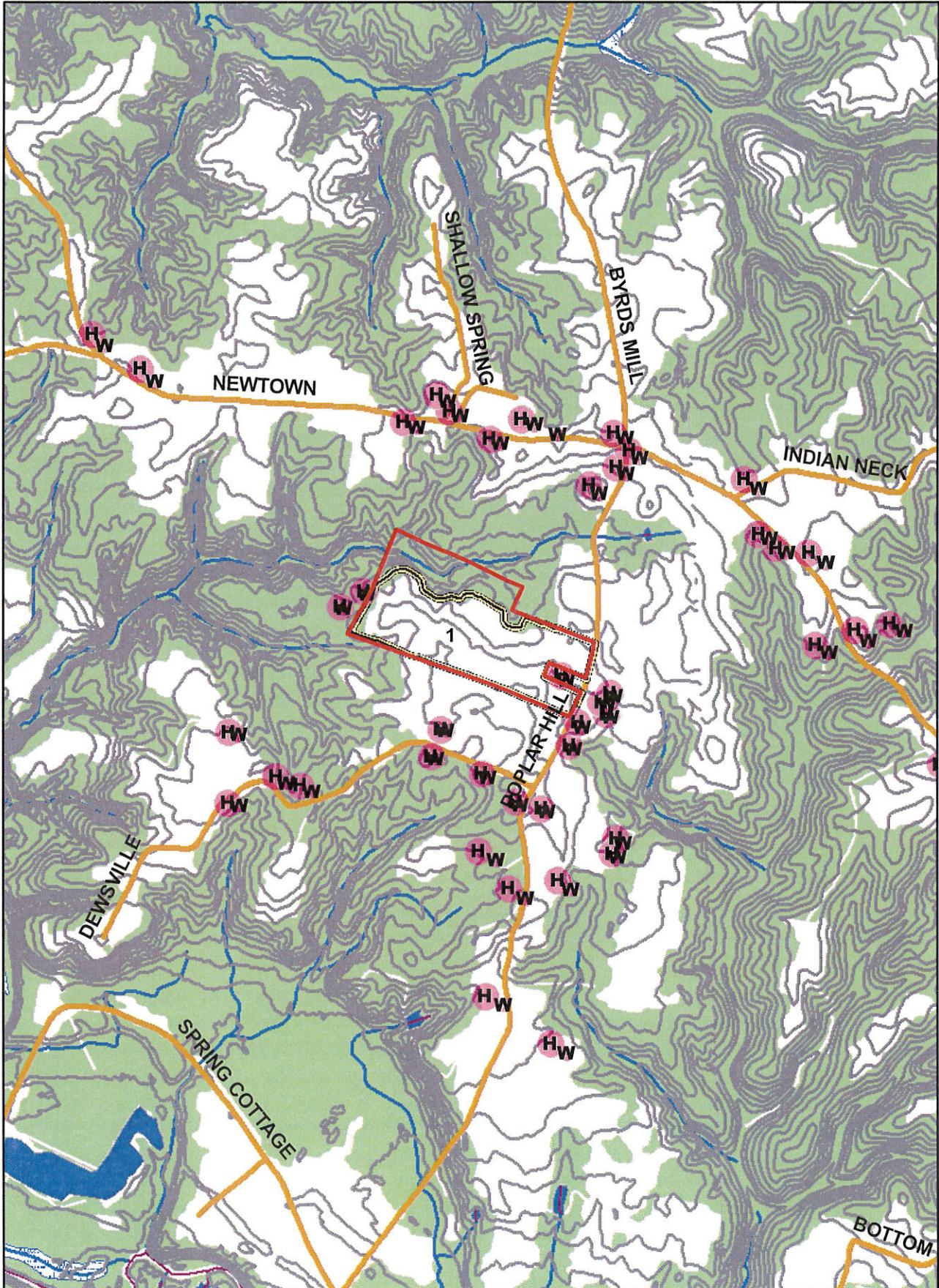
*Buffer can be reduced or waived upon written consent from landowner.



8-9-18

SITE PLAN

1 in = 660 feet



8-9-18

TOPOGRAPHIC MAP

1 in = 2,000 feet

