# R W BRIDGMAN SITE DWRWB 2-3 DINWIDDIE COUNTY

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

			E. LOCKI AND	PIO90FID9	
PART D-VI LAND	APPLICATI	ON AGREEME	NT - BIOSOLIDS AN	ים דפונות או ת	AL DECIDIALO
A. This land application here as "Landowner", a remains in effect until it the Landowner in the e individual parcels identification of the authorized to	agreement and <u>Recyc</u> is terminated vent of a sale	is made on 12- Systems, Inc d in writing by either of one or more p	between , referred to here as the per party or, with respect parcels, until ownership	Sockie C B sockie C B re "Permittee". It to those pard of all parcels of	ROGMAN, TR ROGMAN referred to This agreement cels that are retained by
Landowner:					
The Landowner is the o the agricultural, silvicultural	wner of reco	rd of the real prop	erty located in Drev	UNDIE VI	rainia subtab toda
the agricultural, silviculti attached as Exhibit A.	ural or reclan	nation sites identi	fied below in Table 1 ar	nd identified on	the tax map(s)
rable 1. Parceis	authorized to	receive biosolids	s, water treatment resid	uals or other in	idustrial sludges
Tax Parcel ID		ax Parcel ID	Tax Parcel I	D i	Tax Parcel ID
TM 65, P29					
-	-				
Additional parcels containing I	and Application	Siton are identified -			
Check one:	The Leader	ones are identified o	n Supplement A (check if app	olicable)	
<del></del>	The Landowi	her is the sole ow her is one of multi	ner of the properties ide ple owners of the prope	entified herein.	
in the event that the Land within 38 months of the land 1. Notify the purchalater than the date	downer sells atest date of ser or transfi e of the prop	or transfers all or biosolids applicati eree of the application	nort of the	which biosolids II: crop managem	have been applied
The Landowner has no or notify the Permittee imme for application or any part incorrect.	ther agreeme	ents for land appli	cation on the fields iden	tified herein. T	
	entified above	e, before, during of h regulatory requiresiduals	or after land application rements applicable to so od processing waste	permission for of permitted re such application Other indus	DEQ staff to conduct
000	CIDEMAN		Yes So No	⊠ Yes	□ No
TACKIE T. BRI	DEMAN	LAME	Janger &	- 1780-	Fold CRYGRS 1
andowner – Printed Name, Tit	le	Signature /	my During	Mailing Address	& Phone Number
Permittee:		V	1	804	-586 - 0840
Recyc Systems, Inc the manner authorized by the VP,	Permittee, ag	rees to apply bioso	lids and/or industrial resid	uala on the Land	
plan prepared for each land a	pplication field	by a person certifie	ed in accordance with \$10	dentified in the .1-104.2 of the C	nutrient management
specifically prior to any particu	the Landown that application	er or the Landowne to the Landowner's	r's designee of the propos s iand. Notice shall includ	sed schedule for e the source of r	land application and
☐ I reviewed the document(s) document(s) available to DEQ	assigning sign	natory outhority is a			
an A	0	$\sim$			
2 Commy	X und	W	PO Box 562	Reminaton V	irginia 22734
Permittee – Authorized Represei Printed Name	ntative	Signature		Mailing Address	пунна 22/34

Rev 9:14/2012

#### VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT County or City: DINWIDDIE Permittee: Recyc Systems, Inc Landowner: RENDIE W., JOST TACKIE T- BRIDGE AN 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 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids at the site: biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed. a. Public access to land with a high potential for public exposure shall be restricted for at least one year following Public Access 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 aerosois, 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. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall Crop Restrictions: not be harvested for 14 months after the application of biosolids. b. Found 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 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. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids; Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy d. animals). Livestock Access Restrictions Following biosolids application to pasture or hayland sites: Meat producing livestock shall not be grazed for 30 days. Lactating dairy animals shall not be grazed for a minimum of 60 days. Other animals shall be restricted from grazing for 30 days; 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; Tobacco, because thas 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/sore (7.5 kg/ograms/hectare). 12/4/12 andowner's Signature

Farm Operator Signature

#### **Landowner Coordination Form**

Permittee: Recyc Systems, Inc.

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.

Site Name: R.W. Bridgman

Please Print	Signature not required on this page
Tax Parcel ID(s)	Landowners (s)
TM 65, P 27, 29	R.W., Jr. & Jackie T. Bridgman

Rev 9/14/2012 Page 1 of 1

### **FARM DATA SHEET**

SITE NAME:	R W Bridgman Site	COUNTY:	Dinwiddie
OWNER:	R.W., Jr. & Jackie T. Bridgman	OPERATOR:	Claude V. Townsend
OWNER'S	17805 Old Cryors Rd.	OPERATOR'S	18401 Old Cryors Rd
ADDRESS:	McKenney, VA 23872	ADDRESS:	McKenney, VA 23872
OWNER'S TELEPHONE:	804-586-0840	OPERATOR'S TELEPHONE:	804-478-5728
GENERAL FARM TYPE:	Нау	CELL PHONE:	804-691-0747
# CATTLE:	None	EMAIL:	
LAGOON or SLURRY:	None	LATITUDE:	37°01′42″ 37. <i>0</i> 28
TOPO QUAD:	Darvilles	LONGITUDE:	77°48′09″ - 77 . 802
COMMENTS:	Check with operator before spreading Field 3, possible tobacco use.	ä	
		ч	

### RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Environ	mentally So	ensitive	Soils		Tax	FSA	FSA
Identification	Acres	Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood	Hydro   Map	Map#	Tract#	Field #
DWRWB 02	5.0	-	i. <del></del>	-	(€	CU 11	65-29	404	15
DWRWB 03	6.6	5			18	CU 11	65-29	404	5
TOTAL ACRES IN SITE	11.6								

Page 1 of 2

Report Number: 12-349-0666 Account Number: 70594

www.aleastern.com

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:

Submitted By: JB CRENSHAW

Farm ID:

**BRIDGMAN** 

DINWIDDIE

**SOIL ANALYSIS REPORT** 

Analytical Method(s):

Mehlich 3

Date Received: 12/13/2012

Date Of Analysis: 12/14/2012

Date Of Report: 12/18/2012

0		Or	Organic Matter		Phosphorus		Potassium		Magnesium		Calcium		Sodium		рН		Acidity	C.E.C		
Sample ID Field ID	Lab Number	%	Rate	ENR Ibs/A	Mehl ppm	lich 3 Rate	Res ppm	erve Rate		K Rate		Mg Rate	ppm	a Rate	ppm N	a Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
DWRWB 2	20675	1,6	L	78	19	L			57	L	57	Н	266	М			5.5	6.86	0.7	2.6
DWRWB 3	20676	1.4	L	74	51	Н			99	Н	51	Н	262	L			5.4	6.85	0.8	2.8

0 1 10		Percei	nt Base	Saturati	on	Nitr	ate	Su	lfur	Zi	nc	Mang	anese	Ir	on	Cop	per	Во	ron	Soluble	Salts	Chlo	oride	Aluminum
Sample ID Field ID	к	Mg	Ca	Na	Н	NO	N		S	z	n	M	ln	F	e	С	u	E	3	SS	6	С	:1	Al
	%	%	%	%	%	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ms/cm	Rate	ppm	Rate	ppm
DWRWB 2	5.6	18.3	51.2		26,0																			
DWRWB 3	9.1	15.2	46.8		28.1																			

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.

Pauric McGroary

Page 2 of 2

**Report Number: 12-349-0666** Account Number: 70594



A&L Eastern Laboratories

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

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO CULPEPER VA 22701 Grower:

Submitted By: JB CRENSHAW

Farm ID:

8455 WHITESHOP RD

Date Received: 12/13/2012

Date Of Report: 12/18/2012

#### SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P <sub>2</sub> O <sub>5</sub> Ib/A	Potash K <sub>2</sub> O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn Ib/A	Manganese Mn lb/A	Iron Fe Ib/A	Copper Cu lb/A	Boron B Ib/A
DWRWB 2	Adjust pH to 6.8	0	1.8				23						
DWRWB 3	Adjust pH to 6.8	0	1_8				29						

BRIDGMAN

DINWIDDIE

#### Comments:

Sample(s): DWRWB 2,DWRWB 3 Crop: Adjust pH to 6.8

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

#### THE PLANNER IS NOT STATE CERTIFIED

#### Nutrient Management Plan Balance Sheet (Spring, 2013-Summer, 2014) RW Bridgman Planner: Recyc Systems, Inc

Tract: 404 Location: Dinwiddie

(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 (Ibs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (Ibs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (Ibs/ac)	Notes
15/DWRWB2(N)	5/5	2013	Corn (grain)	120-80-80	20/0				100-80-80	N/A		
5/DWRWB 3(N)	7/7	2013	Corn (grain)	120-40-60	20/0				100-40-60	N/A		

**Commercial Application Methods:** 

br - Broadcast ba - Banded sd - Sidedress

Notes:

#### Soil Test Summary

Tract	Field	Acre	Date	P2O5	K20	Lab	Soil	Lime Date	rec. lime
404	DWRWB2	5	2012-Wi	L+ (19 P ppm)	M- (57 K ppm)	A&L MIII	5.5		
404	DWRWB 3	7	2012-Wi	H- (51 P ppm)	M (99 K ppm)	A&L MIII	5.4		

#### Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
404	404/15	DWRWB2	5	Appling	lVa	11	111	III	
	404/5	DWRWB 3	7	Cecil	IVa	П	III	П	

#### 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
	>170	>80	>64	>6	>4.0
I	150-170	70-80	56-64	4-6	3.5-4.0
11	130-150	60-70	48-56	<4	3.0-3.5
V	100-130	50-60	40-48	NA	<3.0
/	<100	<50	<40	NA	NA

#### **Farm Summary Report**

Plan: New Plan Spring, 2013 - Summer, 2014

Farm Name: RW Bridgman Dinwiddie

Specialist: Recyc Systems, Inc

N-based Acres: 11.6 P-based Acres: 0.0

**Tract Name:** 404 FSA Number: 404

Location: Dinwiddie

Field Name: DWRWB2

Total Acres: 5.00 Usable Acres: 5.00

FSA Number: 15 Tract: 404

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

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

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Wi-2012 5.5 L+(19 P ppm) M-(57 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

52 2B Appling 48 4B Cecil

#### Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

2013-Sp 120.0 bushel(s) Corn (grain) - No Till

Field Name: DWRWB 3

Total Acres: 6.60 Usable Acres: 6.60

FSA Number: 5 Tract: 404

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

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

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Wi-2012 5.4 H-(51 P ppm) M(99 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

100 4B Cecil

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

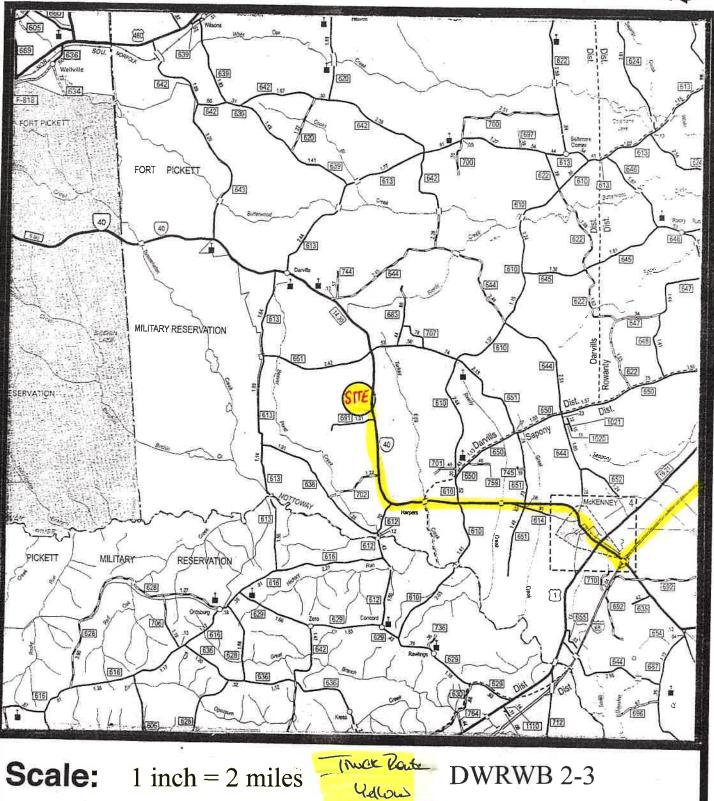
2013-Sp 120.0 bushel(s) Corn (grain) - No Till

### MAPS

## Recyc Systems.

(Biosolids Land Application)





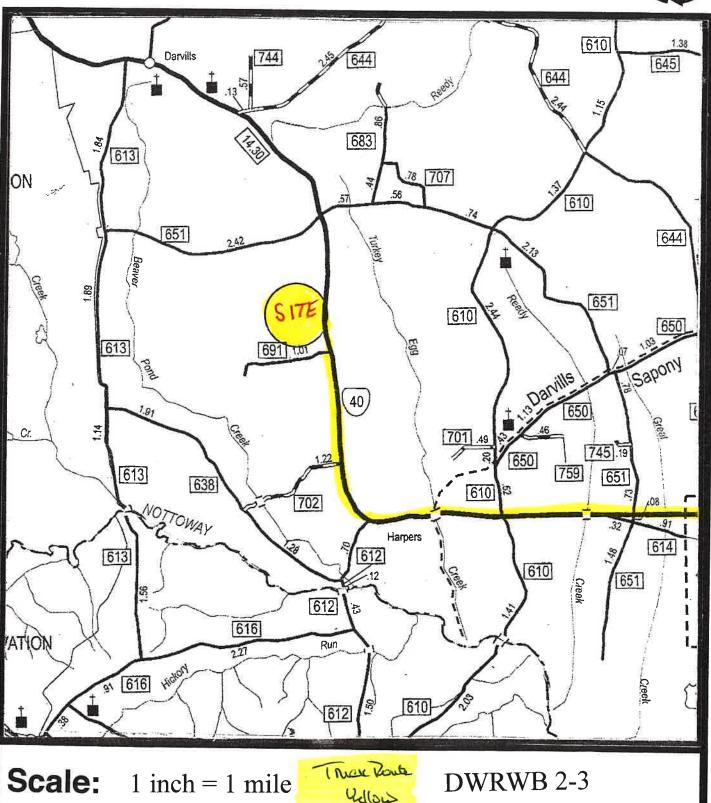
3-20-24

VICINITY MAP

### Recyc Systems...

PUBLIC SHOOT

(Biosolids Land Application)



3-20-24

**VICINITY MAP** 

## Recyc Systems.







**Scale:** 1 inch = 660 feet

**DWRWB 2-3** 

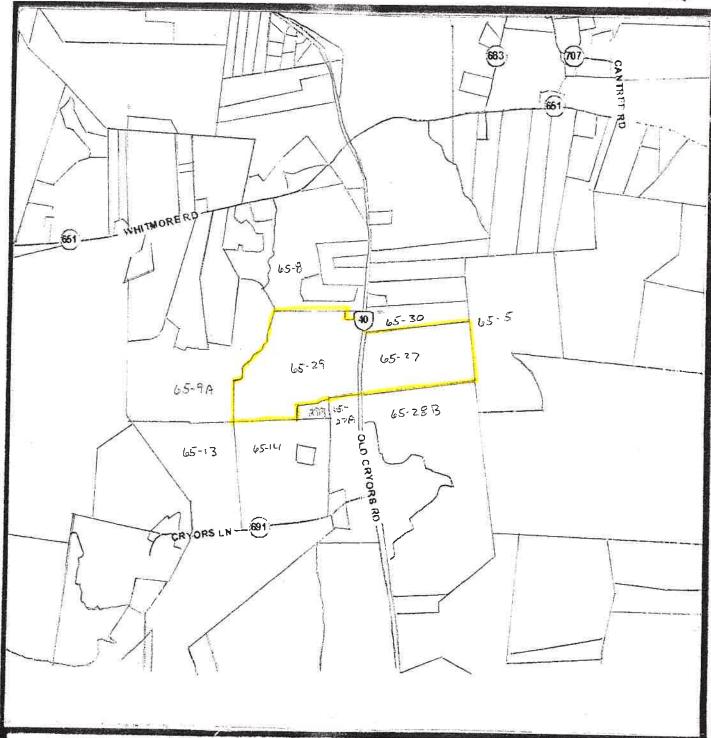
3-20-24

TAX MAP

## Recyc Systems...

(Biosolids Land Application)





**Scale:** 1 inch = 2,000 feet

**DWRWB 2-3** 

3-20-24

TAX MAP

### **ADJOINING LANDOWNERS**

R W BRIDGMAN SITE

### **DINWIDDIE COUNTY**

Tax Map	Parcel #	Owner Name(s)
65	8	Thomas D. & Susan P. Stone
9	9A	John R., III & Barbara F. Ragsdale
	13	William H. Gammon & Janie G. Wilkins
	14	James T. Rasnake
	27A	Claude V. & Rita M. Townsend
	28B	TIAA Timberlands 1 LLCC
	29A	Margaret Stone Gibbs
	29B	Aubrey L., Jr. & Loura B. Henley
1	30	Thomas D. & Susan P. Stone
66	_	w w
66	5	TIAA Timberlands 1 LLCC
		545

## Recyc Systems.

(Biosolids Land Application)





Scale: 1 inch = 660 feet

**DWRWB 2-3** 

3-20-24

SOIL MAP

### Recyc Systems.

(Biosolids Land Application)



DWRWB 2 G.Daens DWRWB 3 G.L. REVES



T 404

Scale: 1 inch = 660 feet

**DWRWB 2-3** 

3-20-24

**AERIAL MAP** 

#### **Legend For Site Plan**

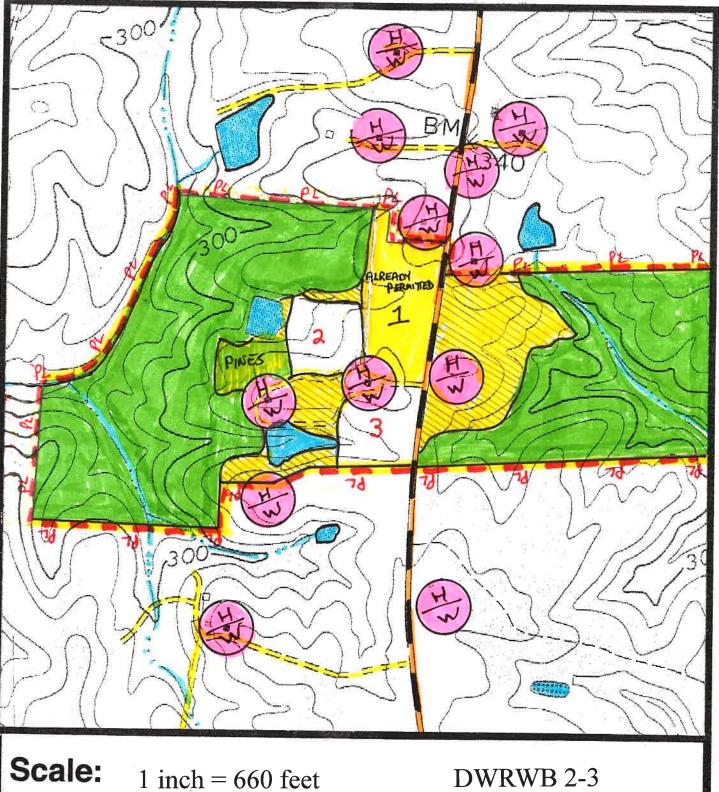
Symbol	Feature	Minimum Setback
HW	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
w	Well or Spring	100 feet from water supply wells or springs
~	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
R	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
s	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 *
SL	Slope	15% maximum
	Hashed out Area	No application

<sup>\*</sup>Buffer can be reduced or waived upon written consent from landowner.

## Recyc Systems...

(Biosolids Land Application)





3-20-24

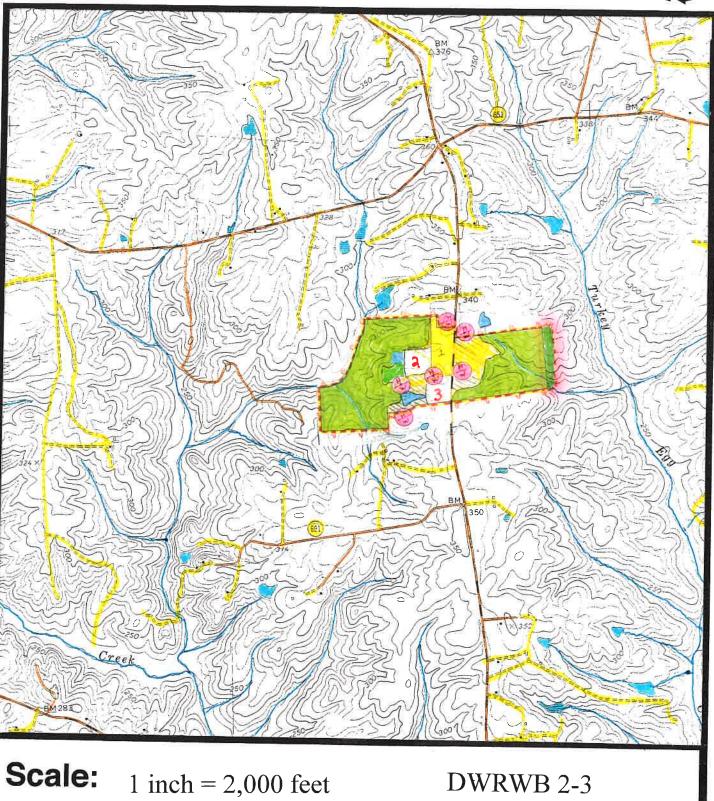
SITE PLAN

N

## Recyc Systems...

(Biosolids Land Application)





3-20-24

TOPOGRAPHIC MAP

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