

**State of North Carolina  
Department of Environment and Natural Resources  
Division of Water Quality**

**Animal Waste Management Systems  
Request for Certificate of Coverage  
Facility Currently Covered by an Expiring NPDES General Permit**

On July 1, 2012, the North Carolina NPDES General Permits for Animal Waste Management Systems will expire. Facilities that have been issued Certificates of Coverage to operate under these NPDES General Permits must apply for renewal within 30 days of receipt of this application.

*Please do not leave any question unanswered. Please make any necessary corrections to the data below.*

1. Facility Number: 42-01 and Certificate of Coverage Number: NCA-442001
2. Facility Name: CALEDONIA PRISON FARM
3. Landowner's name (same as on the Waste Management Plan): NC Dept. of Corrections
4. Landowner's mailing address: P.O. Box 67  
City/State: Tillery NC Zip: 27887  
Telephone Number (include area code): 252-826-3821 E-mail: \_\_\_\_\_
5. Facility's physical address: 2576 CALEDONIA DRIVE  
City/State: Tillery NC Zip: 27887
6. County where facility is located: HALFAX
7. Farm Manager's name (If different than the Landowner): Phillip Sykes
8. Farm Manager's telephone number (include area code): 252-826-3821
9. Integrator's name (if there is not an integrator write "None"): NONE
10. Lessee's name (if there is not a lessee write "None"): NONE
11. Indicate animal operation type and number:

**Swine**

Wean to Finish \_\_\_\_\_  
Wean to Feeder \_\_\_\_\_  
Farrow to Finish \_\_\_\_\_  
Feeder to Finish \_\_\_\_\_  
Farrow to Wean \_\_\_\_\_  
Farrow to Feeder \_\_\_\_\_  
Boar/Stud \_\_\_\_\_  
Gilts \_\_\_\_\_  
Other \_\_\_\_\_

**Cattle**

Dairy Calf \_\_\_\_\_  
Dairy Heifer \_\_\_\_\_  
Milk Cow \_\_\_\_\_  
Dry Cow \_\_\_\_\_  
Beef Stocker Calf \_\_\_\_\_  
Beef Feeder \_\_\_\_\_  
Beef Brood Cow \_\_\_\_\_  
Other \_\_\_\_\_

**Dry Poultry**

Non Laying Chickens \_\_\_\_\_  
Laying Chickens X \_\_\_\_\_  
Turkeys \_\_\_\_\_  
Other \_\_\_\_\_  
Pullets \_\_\_\_\_  
Turkey Poults \_\_\_\_\_

**Wet Poultry**

Non Laying Pullets \_\_\_\_\_  
Layers \_\_\_\_\_

Approved for Permit Renewal

Submit two (2) copies of the most recent Certified Animal Waste Management Plan (CAWMP). The CAWMP must include the following components. Some of these components may not have been required at the time the facility was certified but should be added to the CAWMP for permitting purposes:

- The Waste Utilization Plan (WUP) must include the amount of Plant Available Nitrogen (PAN) produced and utilized by the facility
- The method by which waste is applied to the disposal fields (e.g. irrigation, injection, etc.)
- A map of every field used for land application
- The soil series present on every land application field
- The crops grown on every land application field
- The Realistic Yield Expectation (RYE) for every crop shown in the WUP
- The PAN to be applied to every land application field
- Phosphorous to be applied on every land application field with a "HIGH" PLAT rating.
- The waste application windows for every crop utilized in the WUP
- The required NRCS Standard specifications
- A site schematic
- Emergency Action Plan
- Insect Control Checklist with chosen best management practices noted
- Odor Control Checklist with chosen best management practices noted
- Mortality Control Checklist with the selected method noted. A mass mortality plan must also be included.
- Site-Specific Conservation Practices necessary to prevent runoff of pollutants to waters of the State.
- PLAT results including datasheets for each field.
- Lagoon/storage pond capacity documentation (design, calculations, etc.); please be sure to include any site evaluations, wetland determinations, or hazard classifications that may be applicable to your facility
- Operation and Maintenance Plan

I attest that this application has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that, if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned to me as incomplete. **Note:** In accordance with NC General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application may be subject to civil penalties up to \$25,000 per violation. (18 U.S.C. Section 1001 provides a punishment by a fine of not more than \$10,000 or imprisonment of not more than 5 years, or both for a similar offense.)

Printed Name of Signing Official (Landowner, or if multiple Landowners all landowners should sign. If Landowner is a corporation, signature should be by a principal executive officer of the corporation):

Name: NC Dept of Correction Kaledonia Prison Farm Title: Farm Manager  
Signature: Phillip G. Sykes, Date: 01-09-2012

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

THE COMPLETED APPLICATION SHOULD BE SENT TO THE FOLLOWING ADDRESS:

NCDENR – DWQ Animal Feeding Operations Unit  
1636 Mail Service Center  
Raleigh, North Carolina 27699-1636  
Telephone Number: (919) 807-6300  
Fax Number: (919) 807-6354



Michael F. Easley, Governor

William G. Ross Jr., Secretary  
North Carolina Department of Environment and Natural Resources

Coleen H. Sullins, Director  
Division of Water Quality

August 1, 2007

NC Department Of Corrections  
Caledonia Prison Farm  
4216 Mail Service Ctr  
Raleigh, NC 27699-4216

Subject: Certificate of Coverage No. NCA442001  
Caledonia Prison Farm  
Animal Waste Management System  
Halifax County

Dear NC Department Of Corrections:

In accordance with your application received on 12/27/2006, we are hereby forwarding to you this Certificate of Coverage (COC) issued to NC Department Of Corrections, authorizing the operation of the subject animal waste management system in accordance with NPDES General Permit NCA400000.

This approval shall consist of the operation of this system including, but not limited to, the management and land application of animal waste as specified in the facility's Certified Animal Waste Management Plan (CAWMP) for the Caledonia Prison Farm, located in Halifax County, with an animal capacity of no greater than the following wet system poultry annual averages:

Non-Laying Pullets: 0  
Layers: 60000

The COC shall be effective from the date of issuance until June 30, 2012 and replaces the NPDES COC issued to this facility with an expiration date of July 1, 2007. Pursuant to this COC, you are authorized and required to operate the system in conformity with the conditions and limitations as specified in the General Permit, the facility's CAWMP, and this COC. An adequate system for collecting and maintaining the required monitoring data and operational information must be established for this facility. Any increase in waste production greater than the certified design capacity or increase in number of animals authorized by this COC (as provided above) will require a modification to the CAWMP and this COC and must be completed prior to actual increase in either wastewater flow or number of animals.

**Please carefully read this COC and the enclosed General Permit. This General Permit contains many new requirements than the previous NPDES General Permit. Enclosed for your convenience is a package containing the new and revised forms used for record keeping and reporting. Please pay careful attention to the record keeping and monitoring conditions in this permit. The Animal Facility Annual Certification Form must be completed and returned to the Division of Water Quality by no later than March 1st of each year.**

If your Waste Utilization Plan has been developed based on site-specific information, careful evaluation of future samples is necessary. Should your records show that the current Waste Utilization Plan is inaccurate you will need to have a new Waste Utilization Plan developed.

The issuance of this COC does not excuse the Permittee from the obligation to comply with all applicable laws, rules, standards, and ordinances (local, state, and federal), nor does issuance of a COC to operate under this permit convey any property rights in either real or personal property.

Existing COC

One  
North Carolina  
Naturally

Upon abandonment or depopulation for a period of four years or more, the Permittee must submit documentation to the Division demonstrating that all current NRCS standards are met prior to restocking of the facility.

Per 15A NCAC 02T .0111(c) a compliance boundary is provided for the facility and no new water supply wells shall be constructed within the compliance boundary. Per NRCS standards a 100-foot separation shall be maintained between water supply wells and any lagoon, storage pond, or any wetted area of a spray field.

Per 15A NCAC 02T .1306, any containment basin, such as a lagoon or waste storage structure, shall continue to be subject to the conditions and requirements of the facility's permit until closed to NRCS standards and the permit is rescinded by the Division.

Please be advised that any violation of the terms and conditions specified in this COC, the General Permit or the CAWMP may result in the revocation of this COC, or penalties in accordance with NCGS 143-215.6A through 143-215.6C including civil penalties, criminal penalties, and injunctive relief.

If you wish to continue the activity permitted under the General Permit after the expiration date of the General Permit, an application for renewal must be filed at least 180 days prior to expiration.

This COC is not automatically transferable. A name/ownership change application must be submitted to the Division prior to a name change or change in ownership.

If any parts, requirements, or limitations contained in this COC are unacceptable, you have the right to apply for an individual permit by contacting the staff member listed below for information on this process. Unless such a request is made within 30 days, this COC shall be final and binding.

This facility is located in a county covered by our Raleigh Regional Office. The Regional Office Aquifer Protection staff may be reached at (919) 791-4200. If you need additional information concerning this COC or the General Permit, please contact the Animal Feeding Operations Unit staff at (919) 733-3221.

Sincerely,

A handwritten signature in black ink, appearing to read "C. H. Sullins", with a large, sweeping flourish underneath. The signature is written over a horizontal line.

for Coleen H. Sullins

Enclosures (General Permit NCA400000, Record Keeping and Reporting Package)

cc: (Certificate of Coverage only for all cc's)  
Halifax County Health Department  
Halifax County Soil and Water Conservation District  
Raleigh Regional Office, Aquifer Protection Section  
AFO Unit Central Files  
Permit File NCA442001

Nutrient Management Plan For Animal Waste Utilization

04-12-2012

RECEIVED/DENR/DWQ

MAY 02 2012

This plan has been prepared for:

Caledonia Prison Farm  
Caledonia Prison Farm  
PO Box 67  
Tillery, NC 27887  
252-826-5621

This plan has been developed by: Aquifer Protection Section

Will Mann  
Fishing Creek SWCD  
P.O. Box 8  
Halifax, NC 27839  
252-583-3481 ext.#3

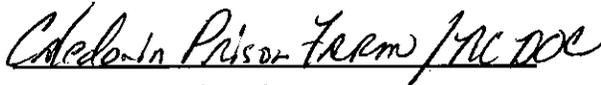


Developer Signature

Type of Plan: Nutrient Management with Manure Only

Owner/Manager/Producer Agreement

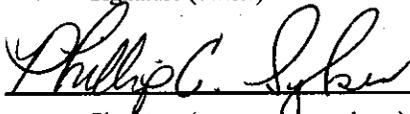
I (we) understand and agree to the specifications and the operation and maintenance procedures established in this nutrient management plan which includes an animal waste utilization plan for the farm named above. I have read and understand the Required Specifications concerning animal waste management that are included with this plan.



Signature (owner)

4-12-12

Date



Signature (manager or producer)

4-12-12

Date

This plan meets the minimum standards and specifications of the U.S. Department of Agriculture - Natural Resources Conservation Service or the standard of practices adopted by the Soil and Water Conservation Commission.

Plan Approved By:

  
Technical Specialist Signature

4/12/2012

Date

**Nutrients applied in accordance with this plan will be supplied from the following source(s):**

Commercial Fertilizer is not included in this plan.

S17	Layer Liquid Manure Slurry waste generated 972,120 gals/year by a 60,000 animal Layer Liquid Manure Slurry operation. This production facility has waste storage capacities of approximately 180 days.				
Estimated Pounds of Plant Available Nitrogen Generated per Year					
Broadcast	23944				
Incorporated	40107				
Injected	48487				
Irrigated	19754				
	Max. Avail. PAN (lbs) *	Actual PAN Applied (lbs)	PAN Surplus/ Deficit (lbs)	Actual Volume Applied (Gallons)	Volume Surplus/ Deficit (Gallons)
Year 1	23,944	36715	-12,771	1,490,581	-518,461
Year 2	23,944	22213	1,731	901,837	70,283

Note: In source ID, S means standard source, U means user defined source.

\* Max. Available PAN is calculated on the basis of the actual application method(s) identified in the plan for this source.

The table shown below provides a summary of the crops or rotations included in this plan for each field. Realistic Yield estimates are also provided for each crop, as well as the crop's P2O5 Removal Rate. The Leaching Index (LI) and the Phosphorous Loss Assessment Tool (PLAT) Rating are also provided for each field, where available.

If a field's PLAT Rating is High, any planned manure application is limited to the phosphorous removal rate of the harvested plant biomass for the crop rotation or multiple years in the crop sequence. Fields with a Very High PLAT Rating should receive no additional applications of manure. Regardless of the PLAT rating, starter fertilizers may be recommended in accordance with North Carolina State University guidelines or recommendations. The quantity of P2O5 applied to each crop is shown in the following table if the field's PLAT rating is High or Very High.

### Planned Crops Summary

Tract	Field	Total Acres	Useable Acres	Plat Rating	LI	Soil Series	Crop Sequence	RYE	P2O5	
									Removal (lbs/acre)	Applied (lbs/acre)
3302-A	36	16.10	12.00	Low	5.0	State-CP	Fescue Hay	3.9 Tons	61	N/A
3302-A	40	15.90	11.90	Low	5.0	State-CP	Soybeans, Manured, Full Season	45 bu.	36	N/A
							Soybeans, Manured, Full Season	45 bu.	36	N/A
3302-A	41	18.60	13.90	Low	5.0	State-CP	Soybeans, Manured, Full Season	45 bu.	36	N/A
							Soybeans, Manured, Full Season	45 bu.	36	N/A
3302-A	46	58.50	43.90	Low	5.0	State-CP	Fescue Hay	3.9 Tons	61	N/A
3302-A	47	34.20	25.70	Low	5.0	State-CP	Fescue Hay	3.9 Tons	61	N/A
3302-A	48	12.70	9.50	Low	5.0	State-CP	Fescue Hay	3.9 Tons	61	N/A
3304-B	147	24.80	18.60	Low	5.0	State-CP	Soybeans, Manured, Full Season	44 bu.	35	N/A
							Soybeans, Manured, Full Season	44 bu.	35	N/A
3304-B	164	36.20	27.20	Low	5.0	State-CP	Fescue Hay	3.9 Tons	61	N/A
3304-B	172	13.50	10.10	Low	5.0	State-CP	Fescue Hay	3.9 Tons	61	N/A
3304-B	189	31.50	23.60	Low	5.0	State-CP	Soybeans, Manured, Full Season	44 bu.	35	N/A
							Soybeans, Manured, Full Season	44 bu.	35	N/A
3304-B	190	17.70	13.30	Low	5.0	State-CP	Soybeans, Manured, Full Season	45 bu.	36	N/A
							Soybeans, Manured, Full Season	45 bu.	36	N/A
3304-B	192	18.30	13.70	Low	5.0	State-CP	Soybeans, Manured, Full Season	44 bu.	35	N/A
							Soybeans, Manured, Full Season	44 bu.	35	N/A

PLAN TOTALS: 298.00 223.40

<i>LI</i>	<i>Potential Leaching</i>	<i>Technical Guidance</i>
< 2	Low potential to contribute to soluble nutrient leaching below the root zone.	None
>= 2 & <= 10	Moderate potential to contribute to soluble nutrient leaching below the root zone.	Nutrient Management (590) should be planned.
> 10	High potential to contribute to soluble nutrient leaching below the root zone.	Nutrient Management (590) should be planned. Other conservation practices that improve the soils available water holding capacity and improve nutrient use efficiency should be considered. Examples are Cover Crops (340) to scavenge nutrients, Sod-Based Rotations (328), Long-Term No-Till (778), and edge-of-field practices such as Filter Strips (393) and Riparian Forest Buffers (391).

<i>PLAT Index</i>	<i>Rating</i>	<i>P Management Recommendation</i>
0 - 25	Low	No adjustment needed; N based application
25 - 50	Medium	No adjustment needed; N based application
51 - 100	High	Application limited to crop P removal
> 100	Very High	Starter P application only

The Waste Utilization table shown below summarizes the waste utilization plan for this operation. This plan provides an estimate of the number of acres of cropland needed to use the nutrients being produced. The plan requires consideration of the realistic yields of the crops to be grown, their nutrient requirements, and proper timing of applications to maximize nutrient uptake.

This table provides an estimate of the amount of nitrogen required by the crop being grown and an estimate of the nitrogen amount being supplied by manure or other by-products, commercial fertilizer and residual from previous crops. An estimate of the quantity of solid and liquid waste that will be applied on each field in order to supply the indicated quantity of nitrogen from each source is also included. A balance of the total manure produced and the total manure applied is included in the table to ensure that the plan adequately provides for the utilization of the manure generated by the operation.

Waste Utilization Table

Year 1

Tract	Field	Source ID	Soil Series	Total Acres	Use Acres	Crop	Applic. Period	Nitrogen PA Nutrient Req'd (lbs/A)	Comm. Fert. Nutrient Applied (lbs/A)	Res. (lbs/A)	Applic. Method	Manure PA Nutrient Applied (lbs/A)	Liquid Manure Applied (acre)	Solid Manure Applied (acre)	Liquid Manure Applied (Field) 1000 gals	Solid Manure Applied (Field) tons
3302-A	36	S17	State-CP	16.10	12.00	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	84.28	0.00
3302-A	40	S17	State-CP	15.90	11.90	Soybeans, Manured, Full Season	4/1-9/15	175	0	20	Broad.	155	6.29	0.00	74.89	0.00
3302-A	41	S17	State-CP	18.60	13.90	Soybeans, Manured, Full Season	4/1-9/15	175	0	20	Broad.	155	6.29	0.00	87.47	0.00
3302-A	46	S17	State-CP	58.50	43.90	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	308.34	0.00
3302-A	47	S17	State-CP	34.20	25.70	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	180.51	0.00
3302-A	48	S17	State-CP	12.70	9.50	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	66.73	0.00
3304-B	147	S17	State-CP	24.80	18.60	Soybeans, Manured, Full Season	4/1-9/15	171	0	20	Broad.	151	6.13	0.00	114.03	0.00
3304-B	164	S17	State-CP	36.20	27.20	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	191.04	0.00
3304-B	172	S17	State-CP	13.50	10.10	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	70.94	0.00
3304-B	189	S17	State-CP	31.50	23.60	Soybeans, Manured, Full Season	4/1-9/15	171	0	20	Broad.	151	6.13	0.00	144.68	0.00
3304-B	190	S17	State-CP	17.70	13.30	Soybeans, Manured, Full Season	4/1-9/15	175	0	20	Broad.	155	6.29	0.00	83.70	0.00
3304-B	192	S17	State-CP	18.30	13.70	Soybeans, Manured, Full Season	4/1-9/15	171	0	20	Broad.	151	6.13	0.00	83.99	0.00

Waste Utilization Table

Year 1

Tract	Field	Source ID	Soil Series	Total Acres	Use Acres	Crop	Applic. Period	Nitrogen PA Nutrient Req'd (lbs/A)	Comm. Fert. Nutrient Applied (lbs/A)	Res. (lbs/A)	Applic. Method	Manure PA Nutrient Applied (lbs/A)	Liquid Manure Applied (acre)	Solid Manure Applied (acre)	Liquid Manure Applied (Field)	Solid Manure Applied (Field)
Total Applied, 1000 gallons																
Total Produced, 1000 gallons																
Balance, 1000 gallons																
Total Applied, tons																
Total Produced, tons																
Balance, tons																
Total Applied, 1000 gallons																
Total Produced, 1000 gallons																
Balance, 1000 gallons																
Total Applied, tons																
Total Produced, tons																
Balance, tons																

Notes: 1. In the tract column, ~ symbol means leased, otherwise, owned. 2. Symbol \* means user entered data.

Waste Utilization Table

Year 2

Tract	Field	Source ID	Soil Series	Total Acres	Use Acres	Crop	Applic. Period	Nitrogen PA Nutrient Req'd (lbs/A)	Comm. Fert Applied (lbs/A)	Res. (lbs/A)	Applic. Method	Manure PA Nutrient Applied (lbs/A)	Liquid Manure Applied (acre)	Solid Manure Applied (acre)	Liquid Manure Applied (Field)	Solid Manure Applied (Field)
3302-A	36	S17	State-CP	16.10	12.00	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	84.28	0.00
3302-A	40	N/A	State-CP	15.90	11.90	Soybeans, Manured, Full Season	4/1-9/15	175	0	20	N/A	0	0.00	0.00	0.00	0.00
3302-A	41	N/A	State-CP	18.60	13.90	Soybeans, Manured, Full Season	4/1-9/15	175	0	20	N/A	0	0.00	0.00	0.00	0.00
3302-A	46	S17	State-CP	58.50	43.90	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	308.34	0.00
3302-A	47	S17	State-CP	34.20	25.70	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	180.51	0.00
3302-A	48	S17	State-CP	12.70	9.50	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	66.73	0.00
3304-B	147	N/A	State-CP	24.80	18.60	Soybeans, Manured, Full Season	4/1-9/15	171	0	20	N/A	0	0.00	0.00	0.00	0.00
3304-B	164	S17	State-CP	36.20	27.20	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	191.04	0.00
3304-B	172	S17	State-CP	13.50	10.10	Fescue Hay	8/1-7/31	173	0	0	Broad.	173	7.02	0.00	70.94	0.00
3304-B	189	N/A	State-CP	31.50	23.60	Soybeans, Manured, Full Season	4/1-9/15	171	0	20	N/A	0	0.00	0.00	0.00	0.00
3304-B	190	N/A	State-CP	17.70	13.30	Soybeans, Manured, Full Season	4/1-9/15	175	0	20	N/A	0	0.00	0.00	0.00	0.00
3304-B	192	N/A	State-CP	18.30	13.70	Soybeans, Manured, Full Season	4/1-9/15	171	0	20	N/A	0	0.00	0.00	0.00	0.00
													Total Applied, 1000 gallons	901.84		
													Total Produced, 1000 gallons	972.12		
													Balance, 1000 gallons	70.28		
													Total Applied, tons		0.00	
													Total Produced, tons		0.00	
													Balance, tons		0.00	

Notes: 1. In the tract column, ~ symbol means leased, otherwise, owned. 2. Symbol \* means user entered data.

The Nutrient Management Recommendations table shown below provides an annual summary of the nutrient management plan developed for this operation. This table provides a nutrient balance for the listed fields and crops for each year of the plan. Required nutrients are based on the realistic yields of the crops to be grown, their nutrient requirements and soil test results. The quantity of nutrient supplied by each source is also identified.

The total quantity of nitrogen applied to each crop should not exceed the required amount. However, the quantity of other nutrients applied may exceed their required amounts. This most commonly occurs when manure or other byproducts are utilized to meet the nitrogen needs of the crop. Nutrient management plans may require that the application of animal waste be limited so as to prevent over application of phosphorous when excessive levels of this nutrient are detected in a field. In such situations, additional nitrogen applications from nonorganic sources may be required to supply the recommended amounts of nitrogen.

### Nutrient Management Recommendations Test

YEAR		1			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	3302-A	36	Req'd Nutrients	173	0	20	0	0	0	0	0
Acres	App. Period	12.00	8/1-7/31	Supplied By:								
CROP		Fescue Hay		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	3.9 Tons	01-20-12	Manure	173	288	183	48	3	3	1	0
P Removal	Rating	61 lbs/ac.	Low	BALANCE	0	288	163	48	3	3	1	0
Tract	Field	3302-A	40	Req'd Nutrients	175	0	0	0	0	0	0	1
Acres	App. Period	11.90	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Full Season		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	45 bu.	12-03-10	Manure	155	258	164	43	3	3	1	0
P Removal	Rating	36 lbs/ac.	Low	BALANCE	0	258	164	43	3	3	1	-1
Tract	Field	3302-A	41	Req'd Nutrients	175	0	0	0	0	0	0	0
Acres	App. Period	13.90	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Full Season		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	45 bu.	12-03-10	Manure	155	258	164	43	3	3	1	0
P Removal	Rating	36 lbs/ac.	Low	BALANCE	0	258	164	43	3	3	1	0
Tract	Field	3302-A	46	Req'd Nutrients	173	0	20	0	0	0	0	0
Acres	App. Period	43.90	8/1-7/31	Supplied By:								
CROP		Fescue Hay		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	3.9 Tons	01-20-12	Manure	173	288	183	48	3	3	1	0
P Removal	Rating	61 lbs/ac.	Low	BALANCE	0	288	163	48	3	3	1	0

Nutrient Management Recommendations Test

YEAR		1			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	3302-A	47	Req'd Nutrients	173	0	20	0	0	0	0	0
Acres	App. Period	25.70	8/1-7/31	Supplied By:								
CROP		Fescue Hay		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	3.9 Tons	01-20-12	Manure	173	288	183	48	3	3	1	0
P Removal	Rating	61 lbs/ac.	Low	BALANCE	0	288	163	48	3	3	1	0
Tract	Field	3302-A	48	Req'd Nutrients	173	0	20	0	0	0	0	0
Acres	App. Period	9.50	8/1-7/31	Supplied By:								
CROP		Fescue Hay		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	3.9 Tons	01-20-12	Manure	173	288	183	48	3	3	1	0
P Removal	Rating	61 lbs/ac.	Low	BALANCE	0	288	163	48	3	3	1	0
Tract	Field	3304-B	147	Req'd Nutrients	171	0	0	0	0	0	0	1
Acres	App. Period	18.60	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Full Season		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	44 bu.	12-03-10	Manure	151	251	159	42	3	3	0	0
P Removal	Rating	35 lbs/ac.	Low	BALANCE	0	251	159	42	3	3	0	-1
Tract	Field	3304-B	164	Req'd Nutrients	173	0	20	0	0	0	0	0
Acres	App. Period	27.20	8/1-7/31	Supplied By:								
CROP		Fescue Hay		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	3.9 Tons	01-20-12	Manure	173	288	183	48	3	3	1	0
P Removal	Rating	61 lbs/ac.	Low	BALANCE	0	288	163	48	3	3	1	0
Tract	Field	3304-B	189	Req'd Nutrients	171	10	0	0	0	0	0	0
Acres	App. Period	23.60	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Full Season		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	44 bu.	12-03-10	Manure	151	251	159	42	3	3	0	0
P Removal	Rating	35 lbs/ac.	Low	BALANCE	0	241	159	42	3	3	0	0

Nutrient Management Recommendations Test

YEAR		1			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	3304-B	190	Req'd Nutrients	175	0	0	0	0	0	0	0
Acres	App. Period	13.30	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Full Season		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	45 bu.	12-03-10	Manure	155	258	164	43	3	3	1	0
P Removal	Rating	36 lbs/ac.	Low	BALANCE	0	258	164	43	3	3	1	0
Tract	Field	3304-B	192	Req'd Nutrients	171	0	0	0	0	0	0	0
Acres	App. Period	13.70	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Full Season		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	44 bu.	12-03-10	Manure	151	251	159	42	3	3	0	0
P Removal	Rating	35 lbs/ac.	Low	BALANCE	0	251	159	42	3	3	0	0

NOTE: Symbol \* means user entered data.

Nutrient Management Recommendations Test

YEAR		2			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	3302-A	40	Req'd Nutrients	175	0	0	0	0	0	0	0
Acres	App. Period	11.90	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Full Season		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	45 bu.	12-03-10	Manure	0	0	0	0	0	0	0	0
P Removal	Rating	36 lbs/ac.	Low	BALANCE	-155	0	0	0	0	0	0	0
Tract	Field	3302-A	41	Req'd Nutrients	175	0	0	0	0	0	0	0
Acres	App. Period	13.90	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Full Season		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	45 bu.	12-03-10	Manure	0	0	0	0	0	0	0	0
P Removal	Rating	36 lbs/ac.	Low	BALANCE	-155	0	0	0	0	0	0	0
Tract	Field	3304-B	147	Req'd Nutrients	171	0	0	0	0	0	0	0
Acres	App. Period	18.60	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Full Season		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	44 bu.	12-03-10	Manure	0	0	0	0	0	0	0	0
P Removal	Rating	35 lbs/ac.	Low	BALANCE	-151	0	0	0	0	0	0	0
Tract	Field	3304-B	189	Req'd Nutrients	171	10	0	0	0	0	0	0
Acres	App. Period	23.60	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Full Season		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	44 bu.	12-03-10	Manure	0	0	0	0	0	0	0	0
P Removal	Rating	35 lbs/ac.	Low	BALANCE	-151	-10	0	0	0	0	0	0
Tract	Field	3304-B	190	Req'd Nutrients	175	0	0	0	0	0	0	0
Acres	App. Period	13.30	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Full Season		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		State-CP		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	45 bu.	12-03-10	Manure	0	0	0	0	0	0	0	0
P Removal	Rating	36 lbs/ac.	Low	BALANCE	-155	0	0	0	0	0	0	0

Nutrient Management Recommendations Test

YEAR		2			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	3304-B	192	Req'd Nutrients	171	0	0	0	0	0	0	0
Acres	App. Period	13.70	4/1-9/15	Supplied By:								
CROP	Soybeans, Manured, Full Season			Starter	0	0	0	0	0	0	0	0
				Commercial Fert	0	0	0	0	0	0	0	0
Soil Series	State-CP			Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	44 bu.	12-03-10	Manure	0	0	0	0	0	0	0	0
P Removal	Rating	35 lbs/ac.	Low	BALANCE	-151	0	0	0	0	0	0	0

NOTE: Symbol \* means user entered data.

The Required Soil Test Values shown in the following table provide a summary of recommended actions that should be taken if soil tests indicate excessive levels of copper or zinc. Fields that receive manure must have an annual soil analysis for these elements. High levels of zinc and copper can adversely affect plant growth. Alternative crop sites must be used when the concentration of these metals approach excessive levels. Site life can be estimated by dividing the amount of copper and zinc to be applied in lbs/acre by 0.036 and 0.071, respectively and multiplying the result by 0.85. By adding this quantity to the current soil index for copper or zinc, we can predict life of the site for waste disposal.

In addition to copper and zinc indices, this table also provides a summary of lime recommendations for each crop based on the most recent soil sample. Application of lime at recommended rates is necessary to maintain soil pH in the optimum range for crop production.

**Required Soil Test Values**

Tract	Field	Crop	pH	Lime Recom. (tons/acre)	Cu-I	Copper Recommendation	Zn-I	Zinc Recommendation
3302-A	36	Fescue Hay	6.5	0.0	196	None	223	None
3302-A	40	Soybeans, Manured, Full Season	5.5	0.8	52	None	69	None
3302-A	40	Soybeans, Manured, Full Season	5.5	0.0	52	None	69	None
3302-A	41	Soybeans, Manured, Full Season	5.9	0.0	80	None	99	None
3302-A	41	Soybeans, Manured, Full Season	5.9	0.0	80	None	99	None
3302-A	46	Fescue Hay	6.5	0.0	196	None	223	None
3302-A	47	Fescue Hay	6.5	0.0	196	None	223	None
3302-A	48	Fescue Hay	6.5	0.0	196	None	223	None
3304-B	147	Soybeans, Manured, Full Season	5.5	0.7	46	None	86	None
3304-B	147	Soybeans, Manured, Full Season	5.5	0.0	46	None	86	None
3304-B	164	Fescue Hay	6.5	0.0	196	None	223	None
3304-B	189	Soybeans, Manured, Full Season	5.9	0.0	48	None	57	None
3304-B	189	Soybeans, Manured, Full Season	5.9	0.0	48	None	57	None
3304-B	190	Soybeans, Manured, Full Season	6.1	0.0	53	None	54	None
3304-B	190	Soybeans, Manured, Full Season	6.1	0.0	53	None	54	None
3304-B	192	Soybeans, Manured, Full Season	6.3	0.0	54	None	65	None
3304-B	192	Soybeans, Manured, Full Season	6.3	0.0	54	None	65	None

The Available Waste Storage Capacity table provides an estimate of the number of days of storage capacity available at the end of each month of the plan. Available storage capacity is calculated as the design storage capacity in days minus the number of days of net storage volume accumulated. The start date is a value entered by the user and is defined as the date prior to applying nutrients to the first crop in the plan at which storage volume in the lagoon or holding pond is equal to zero.

Available storage capacity should be greater than or equal to zero and less than or equal to the design storage capacity of the facility. If the available storage capacity is greater than the design storage capacity, this indicates that the plan calls for the application of nutrients that have not yet accumulated. If available storage capacity is negative, the estimated volume of accumulated waste exceeds the design storage volume of the structure. Either of these situations indicates that the planned application interval in the waste utilization plan is inconsistent with the structure's temporary storage capacity.

**Available Waste Storage Capacity**

<b>Source Name</b>		<b>Design Storage Capacity (Days)</b>
<b>Start Date</b>		
<b>Plan Year</b>	<b>Month</b>	<b>Available Storage Capacity (Days) *</b>

\* Available Storage Capacity is calculated as of the end of each month.

## **Required Specifications For Animal Waste Management**

- 1. Animal waste shall not reach surface waters of the state by runoff, drift, manmade conveyances, direct application, or direct discharge during operation or land application. Any discharge of waste that reaches surface water is prohibited.**
- 2. There must be documentation in the design folder that the producer either owns or has an agreement for use of adequate land on which to properly apply the waste. If the producer does not own adequate land to properly dispose of the waste, he/she shall provide evidence of an agreement with a landowner, who is within a reasonable proximity, allowing him/her the use of the land for waste application. It is the responsibility of the owner of the waste production facility to secure an update of the Nutrient Management Plan when there is a change in the operation, increase in the number of animals, method of application, receiving crop type, or available land.**
- 3. Animal waste shall be applied to meet, but not exceed, the nitrogen needs for realistic crop yields based upon soil type, available moisture, historical data, climatic conditions, and level of management, unless there are regulations that restrict the rate of applications for other nutrients.**
- 4. Animal waste shall be applied to land eroding less than 5 tons per acre per year. Waste may be applied to land eroding at more than 5 tons per acre per year but less than 10 tons per acre per year provided grass filter strips are installed where runoff leaves the field (see USDA, NRCS Field Office Technical Guide Standard 393 - Filter Strips).**
- 5. Odors can be reduced by injecting the waste or by disking after waste application. Waste should not be applied when there is danger of drift from the land application field.**
- 6. When animal waste is to be applied on acres subject to flooding, waste will be soil incorporated on conventionally tilled cropland. When waste is applied to conservation tilled crops or grassland, the waste may be broadcast provided the application does not occur during a season prone to flooding (see "Weather and Climate in North Carolina" for guidance).**
- 7. Liquid waste shall be applied at rates not to exceed the soil infiltration rate such that runoff does not occur offsite or to surface waters and in a method which does not cause drift from the site during application. No ponding should occur in order to control odor and flies.**

8. **Animal waste shall not be applied to saturated soils, during rainfall events, or when the soil surface is frozen.**
9. **Animal waste shall be applied on actively growing crops in such a manner that the crop is not covered with waste to a depth that would inhibit growth. The potential for salt damage from animal waste should also be considered.**
10. **Nutrients from waste shall not be applied in fall or winter for spring planted crops on soils with a high potential for leaching. Waste/nutrient loading rates on these soils should be held to a minimum and a suitable winter cover crop planted to take up released nutrients. Waste shall not be applied more than 30 days prior to planting of the crop or forages breaking dormancy.**
11. **Any new swine facility sited on or after October 1, 1995 shall comply with the following: The outer perimeter of the land area onto which waste is applied from a lagoon that is a component of a swine farm shall be at least 50 feet from any residential property boundary and canal. Animal waste, other than swine waste from facilities sited on or after October 1, 1995, shall not be applied closer than 25 feet to perennial waters.**
12. **Animal waste shall not be applied closer than 100 feet to wells.**
13. **Animal waste shall not be applied closer than 200 feet of dwellings other than those owned by the landowner.**
14. **Waste shall be applied in a manner not to reach other property and public right-of-ways.**
15. **Animal waste shall not be discharged into surface waters, drainageways, or wetlands by a discharge or by over-spraying. Animal waste may be applied to prior converted cropland provided the fields have been approved as a land application site by a "technical specialist". Animal waste shall not be applied on grassed waterways that discharge directly into water courses, and on other grassed waterways, waste shall be applied at agronomic rates in a manner that causes no runoff or drift from the site.**
16. **Domestic and industrial waste from washdown facilities, showers, toilets, sinks, etc., shall not be discharged into the animal waste management system.**

17. A protective cover of appropriate vegetation will be established on all disturbed areas (lagoon embankments, berms, pipe runs, etc.). Areas shall be fenced, as necessary, to protect the vegetation. Vegetation such as trees, shrubs, and other woody species, etc., are limited to areas where considered appropriate. Lagoon areas should be kept mowed and accessible. Berms and structures should be inspected regularly for evidence of erosion, leakage, or discharge.
18. If animal production at the facility is to be suspended or terminated, the owner is responsible for obtaining and implementing a "closure plan" which will eliminate the possibility of an illegal discharge, pollution, and erosion.
19. Waste handling structures, piping, pumps, reels, etc., should be inspected on a regular basis to prevent breakdowns, leaks, and spills. A regular maintenance checklist should be kept on site.
20. Animal waste can be used in a rotation that includes vegetables and other crops for direct human consumption. However, if animal waste is used on crops for direct human consumption, it should only be applied pre-plant with no further applications of animal waste during the crop season.
21. Highly visible markers shall be installed to mark the top and bottom elevations of the temporary storage (pumping volume) of all waste treatment lagoons. Pumping shall be managed to maintain the liquid level between the markers. A marker will be required to mark the maximum storage volume for waste storage ponds.
22. Waste shall be tested within 60 days of utilization and soil shall be tested at least annually at crop sites where waste products are applied. Nitrogen shall be the rate-determining nutrient, unless other restrictions require waste to be applied based on other nutrients, resulting in a lower application rate than a nitrogen based rate. Zinc and copper levels in the soils shall be monitored and alternative crop sites shall be used when these metals approach excessive levels. pH shall be adjusted and maintained for optimum crop production. Soil and waste analysis records shall be kept for a minimum of five years. Poultry dry waste application records shall be maintained for a minimum of three years.  
Waste application records for all other waste shall be maintained for five (5) years.
23. Dead animals will be disposed of in a manner that meets North Carolina regulations.

## Crop Notes

The following crop note applies to field(s): 164, 172, 36, 46, 47, 48

Fescue: Coastal Plain, Mineral Soil, Well Drained to Excessively Drained

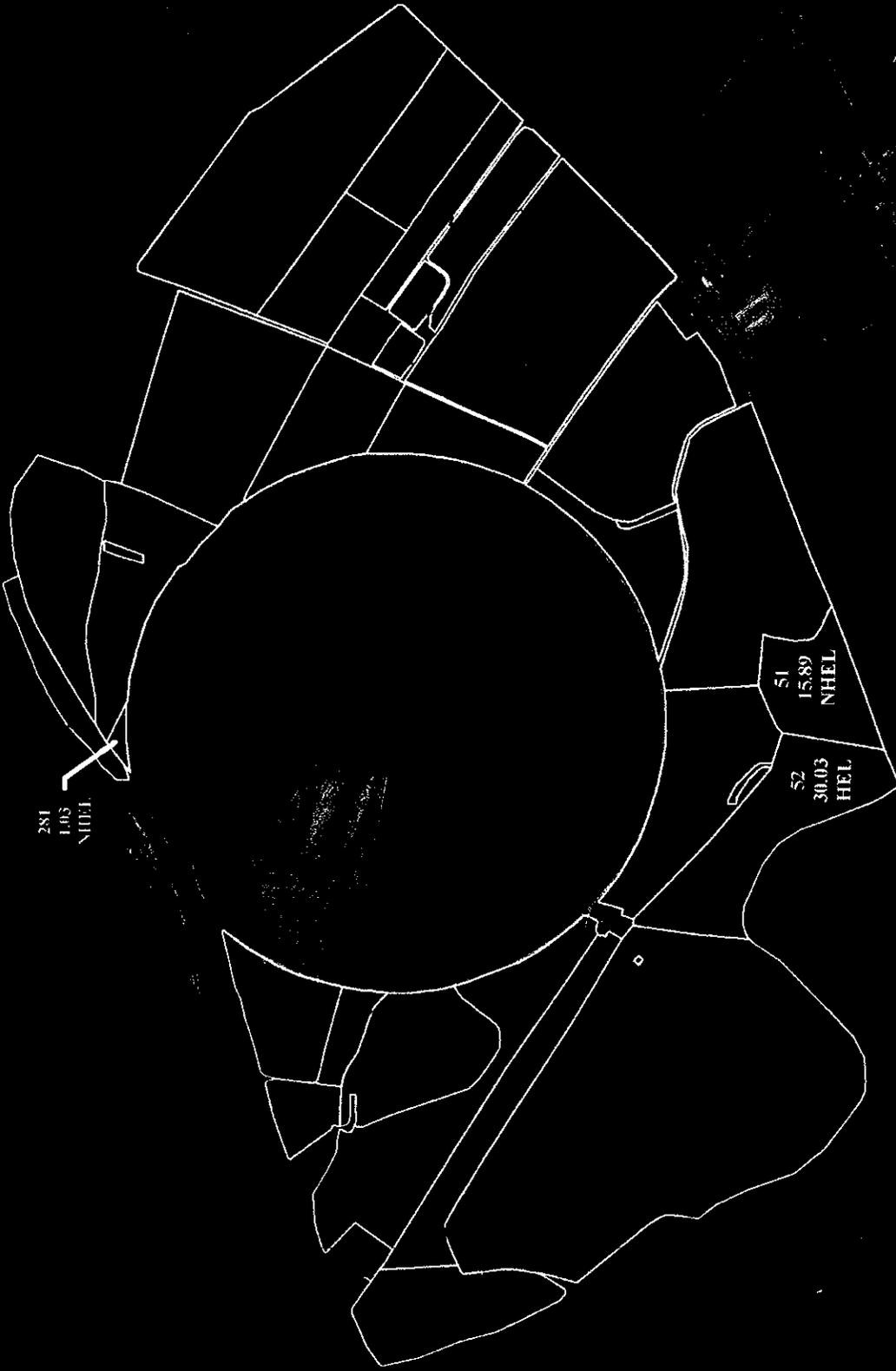
Adaptation: Not adapted.

The following crop note applies to field(s): 147, 189, 190, 192, 40, 41

Soybeans-Full Season, Coastal Plain: Mineral Soil, highly leachable

The suggested planting dates for soybeans in the Coastal Plains are from April 20-May 20. Review the NCSU Official Variety "green book" and information from private companies to select a high yielding variety with the characteristics needed for your area and conditions. Plant 2-4 seed/row foot for 7-8" drills; 4-6 seed/row foot for 15" rows; 6-8 seed/row foot for 30" rows and 8-10 seed/row foot for 36" rows. Increase the seeding rate by at least 10% for no-till planting. Seeding depth should be 1-1 1/2" and adequate depth control is essential. Phosphorus and potash recommended by a soil test report can be broadcast or banded at planting. Soybeans produce their own nitrogen and are normally grown without additions of nitrogen. However, applications of 20-30 lbs/acre N are sometimes made at planting to promote early growth and vigor. Tissue samples can be analyzed during the growing season to monitor the overall nutrient status of the soybeans. Timely management of weeds and insects is essential for profitable soybean production.





United States Department of Agriculture  
**HALIFAX COUNTY FSA**

**CROPLAND ACRES 723.4**  
**CRP ACRES 7.0**

**FARM NO. 8920**  
**TRACT NO. 3302-A**

1 inch equals 1,309 feet  
 MAP FOR FSA USE ONLY

Disclaimer: Wetland identifiers do not represent size, shape, or specific determination of area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Wetland Determination Identifiers

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

**July 08, 2010**



**United States Department of Agriculture**  
**HALIFAX COUNTY FSA**

**Cropland Acres 268.0**

**FARM NO. 8920**  
**TRACT NO. 3304-B**

1 inch equals 1,079 feet

MAP FOR FSA USE ONLY

Disclaimer: Wetland identifiers do not represent size, shape, or specific determination of area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Wetland Determination Identifiers

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

**April 13, 2010**

# Waste Application Fields

Date: 4/17/2012

Customer(s): NC CORRECTION ENTERPRISE FARMS  
District: FISHING CREEK SWCD

Field Office: HALIFAX SERVICE CENTER  
Agency: USDA-NRCS  
Assisted By: William Mann-Jr  
State and County: NC, HALIFAX

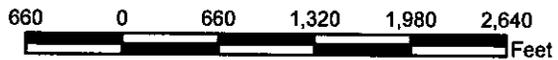
Legal Description: T-3302-A  
Flds 36,38,40,41,46,47 & 48



## Legend

Field Boundary — streams arc

— Fld Boundary  
= Wettable Acre Buffer



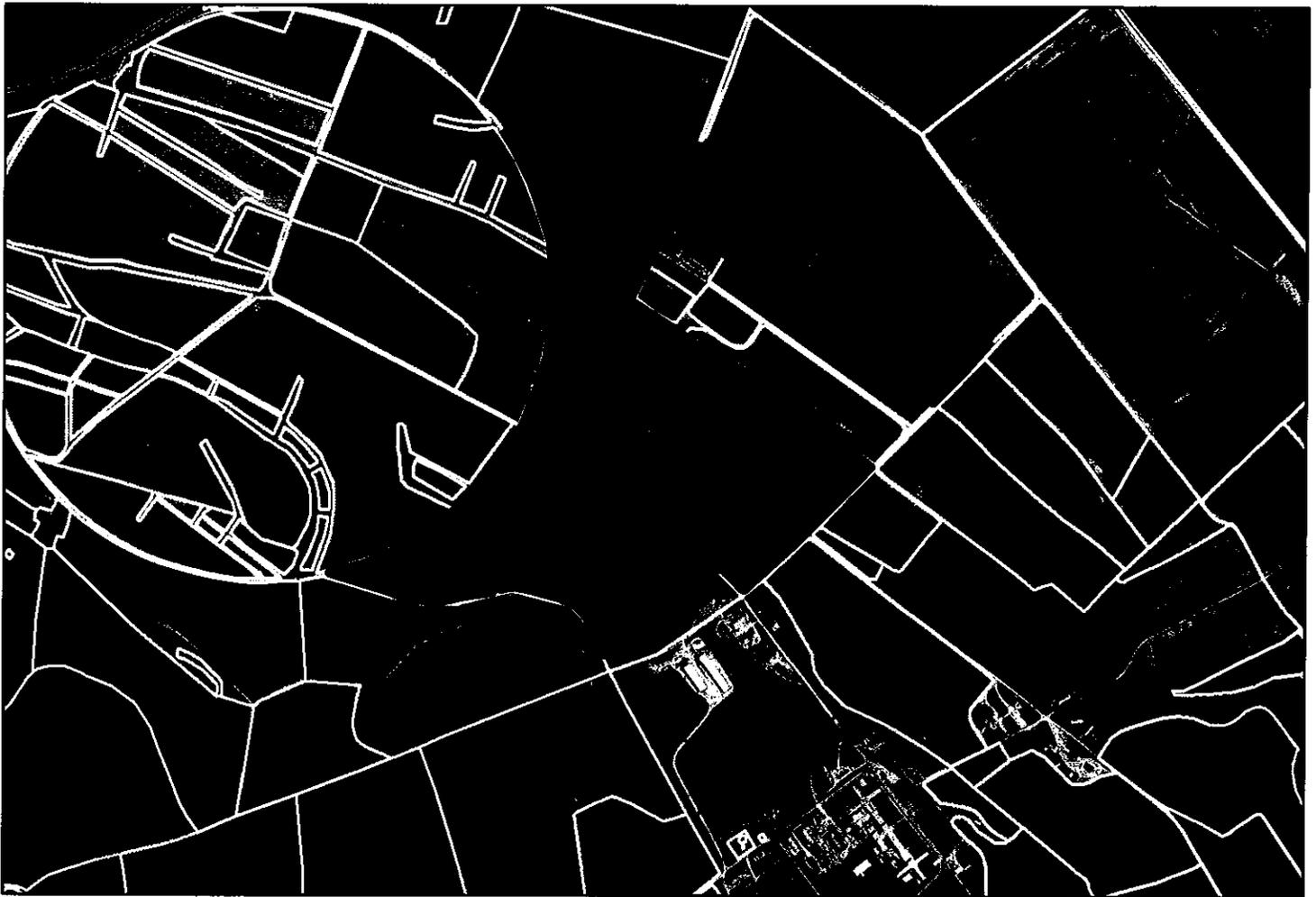
# Waste Application Soils Map

Date: 4/17/2012

Customer(s): NC CORRECTION ENTERPRISE FARMS  
District: FISHING CREEK SWCD

Field Office: HALIFAX SERVICE CENTER  
Agency: USDA-NRCS  
Assisted By: William Mann-Jr  
State and County: NC, HALIFAX

Legal Description: Tract 3302-A  
Fields 36,38,40,41,46,47,48



## Legend

■ AaA ■ CbA ■ CwA ■ StA ■ StB

Field Boundary — Streams

— Waste Application Field

— Wettable Acre Buffer

660 0 660 1,320 1,980 2,640 Feet



## Soils Inventory Report

### NC CORRECTION ENTERPRISE FARMS

Tract	Land Unit	Map Unit Symbol	Acres	Percent
3302	36	AaA	0.5	3%
3302	36	CwA	2.7	17%
3302	36	StB	6.2	39%
3302	36	StA	6.7	42%
Total:			16.1	100%
3302	38	CwA	1.1	9%
3302	38	StB	11.5	91%
Total:			12.6	100%
3302	40	CbA	1.3	8%
3302	40	StB	6.3	39%
3302	40	AaA	8.4	52%
Total:			16	100%
3302	41	CbA	2.5	13%
3302	41	AaA	6	32%
3302	41	StB	10.1	54%
Total:			18.6	100%
3302	46	StA	3.3	6%
3302	46	CwA	13.5	23%
3302	46	StB	41.6	71%
Total:			58.4	100%
3302	47	StA	2.6	8%
3302	47	CwA	9.9	29%
3302	47	StB	21.6	63%
Total:			34.1	100%
3302	48	StA	0.2	2%
3302	48	CwA	1.1	9%
3302	48	StB	11.4	90%

Total: 12.7 100%

Total: 168.5 100%

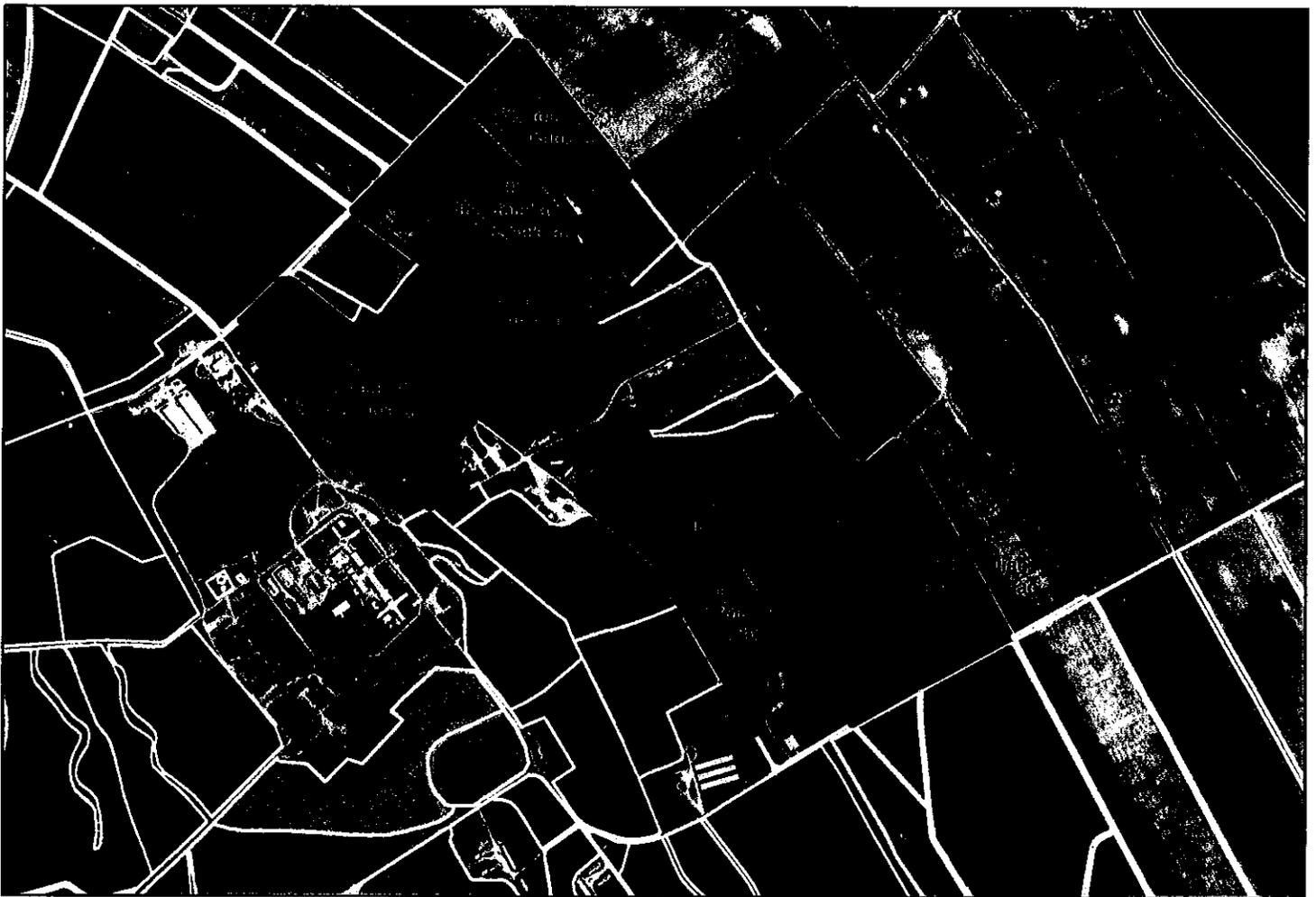
# Waste Application Fields

Date: 4/17/2012

Customer(s): NC CORRECTION ENTERPRISE FARMS  
District: FISHING CREEK SWCD

Field Office: HALIFAX SERVICE CENTER  
Agency: USDA-NRCS  
Assisted By:  
State and County: NC, HALIFAX

Legal Description: Tract 3304-B  
Fields 80,147,164,172,189,190,192

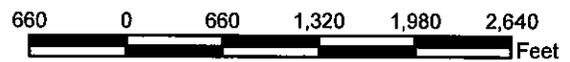


## Legend

Field Boundary — Streams

— Waste Application Fields

— Wettable Acre Buffer



# Waste Application Soils Map

Date: 4/17/2012

Customer(s): NC CORRECTION ENTERPRISE FARMS  
District: FISHING CREEK SWCD

Field Office: HALIFAX SERVICE CENTER  
Agency: USDA-NRCS  
Assisted By: William Mann-Jr  
State and County: NC, HALIFAX

Legal Description: Tract 3304-B  
Fields 80,147,164,172,189,190,192



## Legend

Soils Map  AaA  CbA  CwA  StA  StB      Field Boundary  Streams

 Waste Application Fields  
 Wettable Acre Buffer

