

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

RECEIVED/DENR/DWR

APR 04 2014

Animal Waste Management Systems

Request for Certificate of Coverage

Facility Currently Covered by an Expiring State Non-Discharge General Permit

Water Quality Regional
Operations Section

On September 30, 2014, the North Carolina State Non-Discharge General Permits for Animal Waste Management Systems will expire. As required by these permits, facilities that have been issued Certificates of Coverage to operate under these State Non-Discharge General Permits must apply for renewal at least 180 days prior to their expiration date. Therefore, all applications must be received by the Division of Water Resources by no later than **April 1, 2014**.

Please do not leave any question unanswered. Please verify all information and make any necessary corrections below.

Application must be signed and dated by the Permittee.

1. Facility Number: 330063 and Certificate of Coverage Number: AWS330063
2. Facility Name: George Crawford Farms
3. Landowner's name (same as on the Waste Management Plan): Michael Crawford
4. Landowner's mailing address: PO Box 1155
City/State: Bethel NC Zip: 27812
Telephone Number (include area code): (252)714-5091 E-mail: _____
5. Facility's physical address: 13045 NC Hwy 42 E
City: Tarboro State: NC Zip: 27886
6. County where facility is located: Edgecombe
7. Farm Manager's name (If different than the Landowner): Ronald Crawford
8. Farm Manager's telephone number (include area code): 252-885-6363
9. Integrator's name (if there is not an integrator write "None"): Murphy-Brown LLC
10. Operator in Charge (OIC) name: George Crawford Telephone Number 252-885-6363 OIC # 22549
11. Lessee's name (if there is not a lessee write "None"): NONE
12. Indicate animal operation type and number:

Swine

Wean to Finish
Wean to Feeder
Farrow to Finish
Feeder to Finish 4800
Farrow to Wean
Farrow to Feeder
Boar/Stud
Gilts
Other

Horses - Horses
Horses - Other

Cattle

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

Sheep - Sheep
Sheep - Other

Dry Poultry

Non Laying Chickens
Laying Chickens
Turkeys
Other
Pullets
Turkey Poults

Wet Poultry

Non Laying Pullets
Layers

Mail one (1) copy of the most recent Waste Utilization Plan (WUP) along with the field maps for this facility with this completed and signed application as required by NC General Statutes 143-215.10C(d) to the address below. The WUP must be signed by the owner and a certified technical specialist.

As a second option to mailing paper copies of the application package, you can scan and email one signed copy of the application and the WUP to: animalpermits@ncdenr.gov

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: Michael Duwan Crawford Title: owner
Signature: Michael Duwan Crawford Date: 3-30-14

Name: _____ Title: _____
Signature: _____ Date: _____

Name: _____ Title: _____
Signature: _____ Date: _____

THE COMPLETED APPLICATION SHOULD BE SENT TO THE FOLLOWING ADDRESS:

NCDENR-DWR
Animal Feeding Operations Branch
1636 Mail Service Center
Raleigh, North Carolina 27699-1636

Telephone number: (919) 807-6464
E-mail: animalpermits@ncdenr.gov

WASTE UTILIZATION PLAN

Producer: GEORGE CRAWFORD

Location: NC 42 WEST SIDE 4 MILES NORTH OF CONETOE (it intersection with US 64 NW SIDE.

Telephone: (252) 823-8752

Type Operation: TOPPING

Number of Animal Units: 4800

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APR 04 2014

Water Quality Regional
Operations Section

The waste from your animal facility must be land applied at a specified rate to prevent pollution of surface and/or ground water. The plant nutrients in the animal waste should be used to reduce the amount of commercial fertilizer required for the crops on the fields where the waste is to be applied. This waste utilization plan uses nitrogen as the limiting nutrient. Waste should be analyzed before each application cycle. Annual soil tests are strongly encouraged so that all plant nutrients can be balanced for realistic yields of the crop to be grown.

Several factors are important in implementing your waste utilization plan in order to maximize the fertilizer value of the waste and to ensure that it is applied in an environmentally safe manner. Always apply waste based on the needs of the crop to be grown and the nutrient content of the waste. Do not apply more nitrogen than the crop can utilize. Soil types are important as they have different infiltration rates, leaching potentials, cation exchange capacities, and available water holding capacities.. Normally waste shall not be applied to land eroding at greater than 5 tons per acre per year. With special precautions, waste may be applied to land eroding at up to 10 tons per acre per year. Do not apply waste on saturated soils or on land when the surface is frozen. Either of these conditions may result in runoff to surface waters. Either of these conditions may result in runoff to surface waters which is not allowed under DEM regulations. Wind conditions should also be considered to avoid drift and downwind odor problems. To maximize the value of nutrients for crop production and to reduce the potential for pollution, the waste should be applied to a growing crop or applied to bare ground not more than 30 days prior to planting. Injecting the waste or disking will conserve nutrients and reduce odor problems.

The estimated acres needed to apply the animal waste is based on typical nutrient content for this type of facility. Acreage requirements should be based on the waste analysis report from your waste management facility. Attached you will find information on proper sampling techniques, preparation, and transfer of waste samples to the lab for analysis.

This waste utilization plan, if carried out, meets the requirements for compliance with 15A NCAC 2H.0217 adopted by the Environmental Management Commission

WASTE UTILIZATION PLAN

Amount of Waste Produced Per Year (gallons, tons, etc.)

4800 animals X 927 gal. waste/animal/year = 4,449,600 gals. waste/year.

Amount of Plant Available Nitrogen (PAN) Produced Per Year

4800 animals X 2.3 lbs. PAN/animal/year = 11,040 lbs. PAN/year. (PAN from N. C. Tech. Guide Std. 633)

Applying the above amount of waste is a big job. You should plan time and have appropriate equipment to apply the waste in a timely manner.

The following acreage will be needed for waste application based on the crop to be grown and surface application:

Table 1: ACRES OWNED BY PRODUCER

Tract #	Field No.	Soil Type	Crop	Lbs. N Per Ac.*	Acres	Lbs. N Utilized	Month of Application
Pasture							
355	1	Nob	Bermuda	230.0	7.5	1,725	April - Sept.
355	2	Pu	"	170.0	4.0	680	"
355	3	Nob/Pu	"	200.0	22.5	4,500	"
355	4	Pu	"	170.0	2.0	340	"
355	5	Pu	"	170.0	1.0	170	"
355	1	Nob	O/S Rye	50.0	7.5	375	Sept. - march
355	2	Pu	"	50.0	4.0	200	
355	3	Nob/Pu	"	50.0	22.5	1,125	
355	4	Pu	"	50.0	2.0	100	
355	5	Pu	"	50.0	1.0	50	
Total					37.0	9,265	

* This N is from animal waste only. If nutrients from other sources such as commercial fertilizer are applied, they must be accounted for. N must be based on realistic yield expectation.

NOTE: The applicator is cautioned that P and K may be over applied while meeting the N requirements. Beginning in 1996, the Coastal Zone Management Act will require farmers in some eastern counties of North Carolina to have a nutrient management plan that addresses all nutrients. This plan only addresses Nitrogen.

NOTE: TABLE 2 ACREAGE IS BASED ON IRRIGATION DESIGN FOR 53.3 WETTED ACRES; THEREFORE, FIELDS 1 & 2 WERE COMBINED IN WUP.

MINIMUM OF 12 ACRES OF COTTON & 18 AC OF SMALL GRAIN WINTER COVER NEEDED ON LEASED TRACT.

WASTE UTILIZATION PLAN

Table 2: ACRES WITH AGREEMENT OR LONG TERM LEASE

(Agreement with adjacent landowner must be attached)
 (Required only if operator does not own
 adequate land [see Required Specification 2])

Tract #	Field	Soil Type	Crop	Lbs. N Per Ac.*	Acres	Lbs. N Utilized	Month of Application
P3195	1,2	NOA/NOB	COTTON	78	53.3	4,157	April - Sept.
P3195	1,2	NOA/NOB	SM. GRAIN	50	53.3	2,665	Sept. - March
			WINTER COV.				
Total					53.3	6,822	

*See footnote for Table 1.

Totals from above Tables

	Acres	Lbs. N Utilized
Table 1	37.0	9,265
Table 2	53.3	6,822
Total		16,087
Amount of N Produced		11,040.0
Surplus or Deficit		5,047.0

NOTE: The Waste Utilization Plan must contain provisions for periodic land application of sludge at agronomic rates. The sludge will be nutrient rich and will require precautionary measures to prevent over application of nutrients or other elements.

See attached map showing the fields to be used for the utilization of waste water.

WASTE UTILIZATION PLAN

Application of Waste by Irrigation

Field No.	Soil Type	Crop	Application Rate(In/Hr)	Application Amount(In.)
1	NoB	Bermuda	0.5	1.0
2	Pu	"	0.5	1.0
3	NoB	"	0.5	1.0
4	Pu	"	0.5	1.0
5	Pu	"	0.5	1.0
P3195 1	NoB	COTTON	0.5	1.0
P3195 2	NoA	COTTON	0.5	1.0

This table is not needed if waste is not being applied by irrigation, however a similar table will be needed for dry litter or sludge.

Your facility is designed for 180 days of temporary storage and the temporary storage must be removed on the average of once every 6 months. In no instance should the volume of waste being stored in your structure exceed FEET BELOW THE LOWEST POINT IN THE DIKE.

Call the local Natural Resources Conservation Service (formerly Soil Conservation Service) or Soil and Water Conservation District office after you receive the waste analysis report for assistance in determining the amount per acre to apply and the proper application rate prior to applying the waste.

Narrative of Operation:

WASTE UTILIZATION PLAN

Application of Waste by Irrigation

Field No.	Soil Type	Crop	Application Rate(In/Hr)	Application Amount(In.)
P3195	N ₂ B	Sm. GRAIN	0.5	1.0
P3195	N ₂ A	"	0.5	1.0

This table is not needed if waste is not being applied by irrigation, however a similar table will be needed for dry litter or sludge.

Your facility is designed for 180 days of temporary storage and the temporary storage must be removed on the average of once every 6 months. In no instance should the volume of waste being stored in your structure exceed FEET BELOW THE LOWEST POINT IN THE DIKE.

Call the local Natural Resources Conservation Service (formerly Soil Conservation Service) or Soil and Water Conservation District office after you receive the waste analysis report for assistance in determining the amount per acre to apply and the proper application rate prior to applying the waste.

Narrative of Operation:

WASTE UTILIZATION PLAN

WASTE UTILIZATION PLAN AGREEMENT

Name of Farm: GEORGE CRAWFORD

Owner/Manager Agreement

I (we) understand and will follow and implement the specification and the operation and maintenance procedures established in the approved animal waste utilization plan for the farm named above. I (we) know that any expansion to the existing design capacity of the waste treatment and storage system or construction of new facilities will require a new certification to be submitted to the Division of Environmental Management (DEM) before the new animals are stocked. I (we) also understand that there must be no discharge of animal waste from this system to surface waters of the state from a storm event less severe than the 25-year, 24-hour storm. The approved plan will be filed on-site at the farm office and at the office of the local Soil and Water Conservation District and will be available for review by DEM upon request.

Name of Facility Owner: (Please print) GEORGE CRAWFORD

Signature: George Crawford Date: 7-30-98

Name of Manager (If different from owner: _____

Signature: _____ Date: _____

Technical Representative: (Please print) A.B. WHITLEY, III

Affiliation: USDA, NATURAL RESOURCES CONSERVATION SERVICE

Address (Agency): P.O. Box 10

TARBORO, NORTH CAROLINA 27886

Signature: A.B. Whitley Date: July 30, 1998

Transferred
to
Pitt County

3
19.6

4
9.2

1
52.9

T353

Lagoon
BLDG'S

T355

NEL

3
32.2

2
4.5

4
2.9

neighbor
buffer

11.9

2
6.8

T400

5
15.6

13
12.2

4
4.6

6
11.4

2.7

- waste application
areas

1
2.3

5
1.9

6
5.2

3
3.9

T407

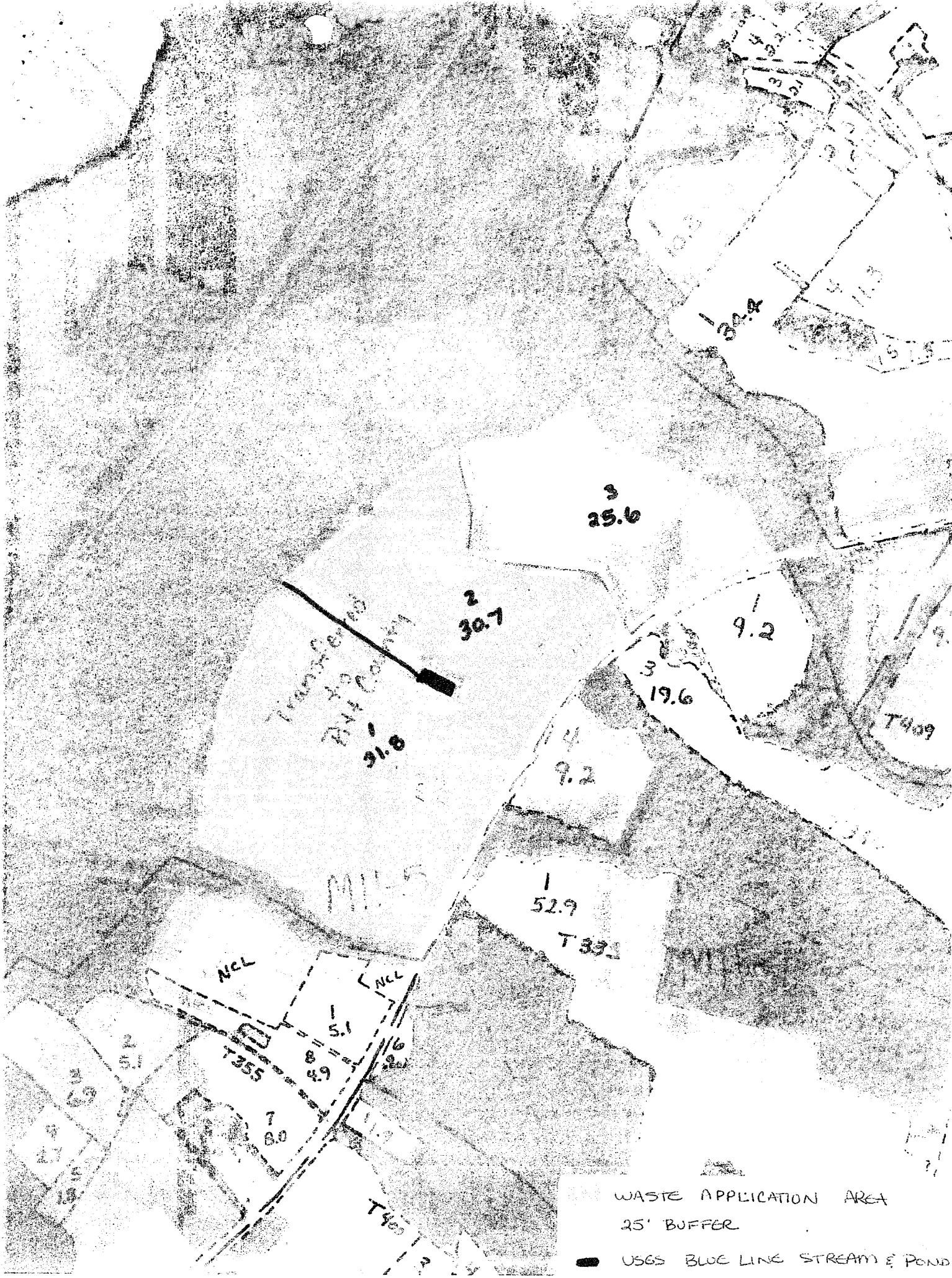
7
25.0

5.7

11.4

T401

37.7



WASTE APPLICATION AREA
25' BUFFER

USGS BLUE LINE STREAM & POND



North Carolina Department of Environment and Natural Resources

Division of Water Resources
Water Quality Programs
Thomas A. Reeder
Director

Pat McCrory
Governor

John E. Skvarla, III
Secretary

March 3, 2014

Ronald Crawford
Ronald Crawford Farm
1518 64 A W
Bethel, NC 27812

Subject: Application for Renewal of Coverage for Expiring State General Permit

Dear Permittee:

Your facility is currently approved for operation under one of the Animal Waste Operation State Non-Discharge General Permits, which expire on September 30, 2014. Copies of the new animal waste operation State Non-Discharge General Permits are available at <http://www.ncwaterquality.org/web/wq/aps/afo/apps> or by writing or calling:

NCDENR-DWR
Animal Feeding Operations Branch
1636 Mail Service Center
Raleigh, North Carolina 27699-1636

Telephone number: (919) 807-6464

In order to assure your continued coverage under the State Non-Discharge General Permits, you must submit an application for permit coverage to the Division. Enclosed you will find a 'Request for Certificate of Coverage Facility Currently Covered by an Expiring State Non-Discharge General Permit.' The application form must be completed, signed and returned by April 1, 2014. Please note that you must include one (1) copy of your most recent Waste Utilization Plan with the signed application form.

Failure to request renewal of your coverage under a general permit within the time period specified may result in a civil penalty. Operation of your facility without coverage under a valid general permit would constitute a violation of NCGS 143-215.1 and could result in assessments of civil penalties of up to \$25,000 per day.

If you have any questions about the State Non-Discharge General Permits, the enclosed application, or any related matter please feel free to contact the Animal Feeding Operations Branch staff at 919-807-6464.

Sincerely,

S. Jay Zimmerman, P.G., Chief
Water Quality Regional Operations Section

Enclosures

cc (w/o enclosures): Washington Regional Office, Water Quality Regional Operations Section
Pitt County Soil and Water Conservation District
WQROS Unit Central Files - AWS740120
Murphy-Brown LLC

1636 Mail Service Center, Raleigh, North Carolina 27699-1636
Location: 512 N. Salisbury St. Raleigh, North Carolina 27604
Phone: 919-807-6464 \ FAX: 919-807-6492
Internet: www.ncwaterquality.org

An Equal Opportunity \ Affirmative Action Employer

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

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APR 04 2014

Water Quality Regional
Operations Section

Animal Waste Management Systems

Request for Certificate of Coverage

Facility Currently Covered by an Expiring State Non-Discharge General Permit

On September 30, 2014, the North Carolina State Non-Discharge General Permits for Animal Waste Management Systems will expire. As required by these permits, facilities that have been issued Certificates of Coverage to operate under these State Non-Discharge General Permits must apply for renewal at least 180 days prior to their expiration date. Therefore, all applications must be received by the Division of Water Resources by no later than **April 1, 2014**.

Please do not leave any question unanswered. Please verify all information and make any necessary corrections below.

Application must be signed and dated by the Permittee.

1. Facility Number: 740120 and Certificate of Coverage Number: AWS740120
2. Facility Name: Ronald Crawford Farm
3. Landowner's name (same as on the Waste Management Plan): Ronald Crawford
4. Landowner's mailing address: 1518 64 A W
City/State: Bethel NC Zip: 27812
Telephone Number (include area code): (252)885-6363 E-mail: _____
5. Facility's physical address: 1518 64 A W
City: Bethel State: NC Zip: 27812
6. County where facility is located: Pitt
7. Farm Manager's name (If different than the Landowner): _____
8. Farm Manager's telephone number (include area code): 252-885-6363
9. Integrator's name (if there is not an integrator write "None"): Murphy-Brown LLC
10. Operator in Charge (OIC) name: George Crawford Telephone Number 252-885-6363 OIC # 22549
11. Lessee's name (if there is not a lessee write "None"): _____
12. Indicate animal operation type and number:

Swine

Wean to Finish
Wean to Feeder
Farrow to Finish
Feeder to Finish 1920
Farrow to Wean
Farrow to Feeder
Boar/Stud
Gilts
Other

Horses - Horses
Horses - Other

Cattle

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

Sheep - Sheep
Sheep - Other

Dry Poultry

Non Laying Chickens
Laying Chickens
Turkeys
Other
Pullets
Turkey Poults

Wet Poultry

Non Laying Pullets
Layers

Mail one (1) copy of the most recent Waste Utilization Plan (WUP) along with the field maps for this facility with this completed and signed application as required by NC General Statutes 143-215.10C(d) to the address below. The WUP must be signed by the owner and a certified technical specialist.

As a second option to mailing paper copies of the application package, you can scan and email one signed copy of the application and the WUP to: animalpermits@ncdenr.gov

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: George Ronald Crawford Title: owner
Signature: George Ronald Crawford Date: 3-30-14

Name: _____ Title: _____
Signature: _____ Date: _____

Name: _____ Title: _____
Signature: _____ Date: _____

THE COMPLETED APPLICATION SHOULD BE SENT TO THE FOLLOWING ADDRESS:

**NCDENR-DWR
Animal Feeding Operations Branch
1636 Mail Service Center
Raleigh, North Carolina 27699-1636**

**Telephone number: (919) 807-6464
E-mail: animalpermits@ncdenr.gov**

WASTE UTILIZATION PLAN

Producer: RONALD CRAWFORD

Location: 3 MILES WEST OF BETHEL ON US 264
P.O. BOX 1200 BETHEL, NC 27812-1200

Telephone: 252-825-5152

Type Operation: FEEDER TO FINISH

Number of Animal Units: 1920 SWINE

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APR 04 2014

Water Quality Regional
Operations Section

The waste from your animal facility must be land applied at a specified rate to prevent pollution of surface and/or ground water. The plant nutrients in the animal waste should be used to reduce the amount of commercial fertilizer required for the crops on the fields where the waste is to be applied. This waste utilization plan uses nitrogen as the limiting nutrient. Waste should be analyzed before each application cycle. Annual soil tests are strongly encouraged so that all plant nutrients can be balanced for realistic yields of the crop to be grown.

Several factors are important in implementing your waste utilization plan in order to maximize the fertilizer value of the waste and to ensure that it is applied in an environmentally safe manner. Always apply waste based on the needs of the crop to be grown and the nutrient content of the waste. Do not apply more nitrogen than the crop can utilize. Soil types are important as they have different infiltration rates, leaching potentials, cation exchange capacities, and available water holding capacities.. Normally waste shall not be applied to land eroding at greater than 5 tons per acre per year. With special precautions, waste may be applied to land eroding at up to 10 tons per acre per year. Do not apply waste on saturated soils or on land when the surface is frozen. Either of these conditions may result in runoff to surface waters. Either of these conditions may result in runoff to surface waters which is not allowed under DEM regulations. Wind conditions should also be considered to avoid drift and downwind odor problems. To maximize the value of nutrients for crop production and to reduce the potential for pollution, the waste should be applied to a growing crop or applied to bare ground not more than 30 days prior to planting. Injecting the waste or disking will conserve nutrients and reduce odor problems.

The estimated acres needed to apply the animal waste is based on typical nutrient content for this type of facility. Acreage requirements should be based on the waste analysis report from your waste management facility. Attached you will find information on proper sampling techniques, preparation, and transfer of waste samples to the lab for analysis.

This waste utilization plan, if carried out, meets the requirements for compliance with 15A NCAC 2H.0217 adopted by the Environmental Management Commission.

WASTE UTILIZATION PLAN

Amount of Waste Produced Per Year(gallons, tons,etc.)

1920 animals X 927 gal. waste/animal/year = 1,779,840 gals. waste/year.

Amount of Plant Available Nitrogen (PAN) Produced Per Year

1920 animals X 2.3 lbs. PAN/animal/year = 4416 lbs. PAN/year. (PAN from N. C. Tech. Guide Std. 633)

Applying the above amount of waste is a big job. You should plan time and have appropriate equipment to apply the waste in a timely manner.

The following acreage will be needed for waste application based on the crop to be grown and surface application:

Table 1: ACRES OWNED BY PRODUCER

Tract #	Field No.	Soil Type	Crop	Lbs. N Per Ac.*	Acres	Lbs. N Utilized	Month of Application
781	2	CrA, Co	Coastal	172	5.58	960	April-Sept.
			Grazed				
	2	CrA, Co	OS SG	50	5.58	279	Sept.-April
	3	LoA, ExA	Coastal	208	7.74	1,610	April-Sept.
			Grazed				
	3	LoA, ExA	OS SG	50	7.74	387	Sept.-April
	5	GoB, ExA	Coastal	244	3.69	900	April-Sept.
			Grazed				
	5	GoB, ExA	OS SG	50	3.69	185	Sept.-April
	4	Co	Coastal	160	1.53	245	April-Sept.
			Grazed				
	4	Co	OS SG	50	1.53	76	Sept.-April
Total					18.54	4,642	

*This N is from animal waste only. If nutrients from other sources such as commercial fertilizer are applied, they must be accounted for. N must be based on realistic yield expectation.

NOTE: The applicator is cautioned that P and K may be over applied while meeting the N requirements. Beginning in 1996, the Coastal Zone Management Act will require farmers in some eastern counties of North Carolina to have a nutrient management plan that addresses all nutrients. This plan only addresses Nitrogen.

WASTE UTILIZATION PLAN

Table 2: ACRES WITH AGREEMENT OR LONG TERM LEASE

(Agreement with adjacent landowner must be attached)
(Required only if operator does not own
adequate land [see Required Specification 2])

[illegible]

*See footnote for Table 1.

Totals from above Tables

	Acres	Lbs. N Utilized
Table 1	18.54	4,642
Table 2		
Total		
Amount of N Produced		4,416
Surplus or Deficit		226

NOTE: The Waste Utilization Plan must contain provisions for periodic land application of sludge at agronomic rates. The sludge will be nutrient rich and will require precautionary measures to prevent over application of nutrients or other elements.

WASTE UTILIZATION PLAN

See attached map showing the fields to be used for the utilization of waste water.

Application of Waste by Irrigation

Field No.	Soil Type	Crop	Application Rate(In/Hr)	Application Amount(In.)
ALL	CrA, LoA, GoB, ExA, Co	Coastal/SG	0.35 In./Hr.	1.0 inches

This table is not needed if waste is not being applied by irrigation, however a similar table will be needed for dry litter or sludge.

Your facility is designed for 180 days of temporary storage and the temporary storage must be removed on the average of once every MONTHS. In no instance should the volume of waste being stored in your structure exceed an Elevation of 1.7 feet below the top of the dike.

Call the local Natural Resources Conservation Service (formerly Soil Conservation Service) or Soil and Water Conservation District office after you receive the waste analysis report for assistance in determining the amount per acre to apply and the proper application rate prior to applying the waste.

Narrative of Operation: 1920 feeder to finish operation using a solid set irrigation system for waste application. The coastal bermuda will be garzed and overseeded with small grain for winter grazing. This operation has been evaluated for wetted acres and this plan is based upon the findings.

WASTE UTILIZATION PLAN

WASTE UTILIZATION PLAN AGREEMENT

Name of Farm: Ronald Crawford Farm

Owner/Manager Agreement

I (we) understand and will follow and implement the specification and the operation and maintenance procedures established in the approved animal waste utilization plan for the farm named above. I (we) know that any expansion to the existing design capacity of the waste treatment and storage system or construction of new facilities will require a new certification to be submitted to the Division of Environmental Management (DEM) before the new animals are stocked. I (we) also understand that there must be no discharge of animal waste from this system to surface waters of the state from a storm event less severe than the 25-year, 24-hour storm. The approved plan will be filed on-site at the farm office and at the office of the local Soil and Water Conservation District and will be available for review by DEM upon request.

Name of Facility Owner: (Please print) Ronald Crawford

Signature: Ronald Crawford Date: 3-3-99

Name of Manager (If different from owner: _____)

Signature: _____ Date: _____

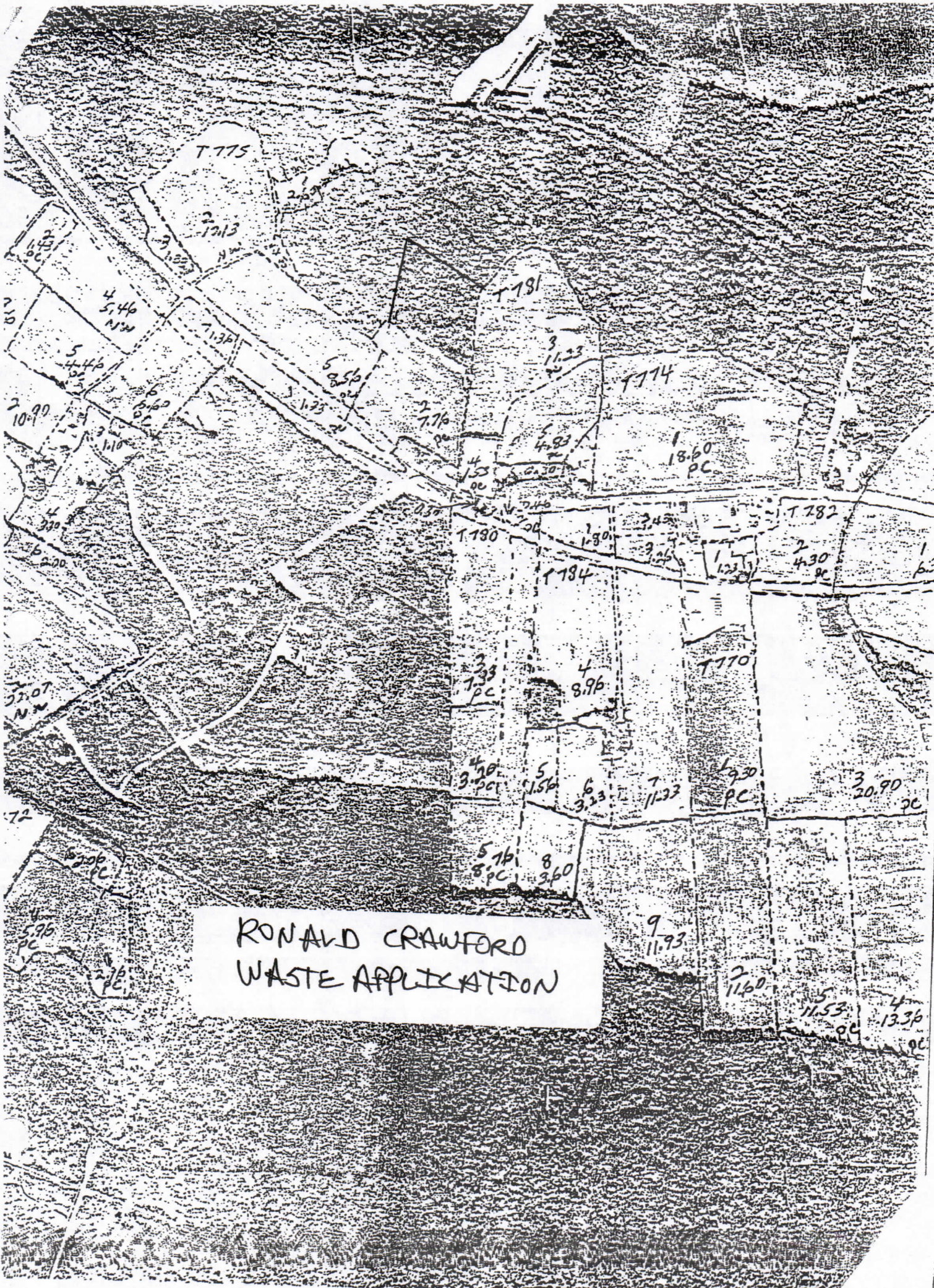
Technical Representative: (Please print) _____ TIM ETHERIDGE

Affiliation: _____ USDA, NATURAL RESOURCES CONSERVATION SERVICE

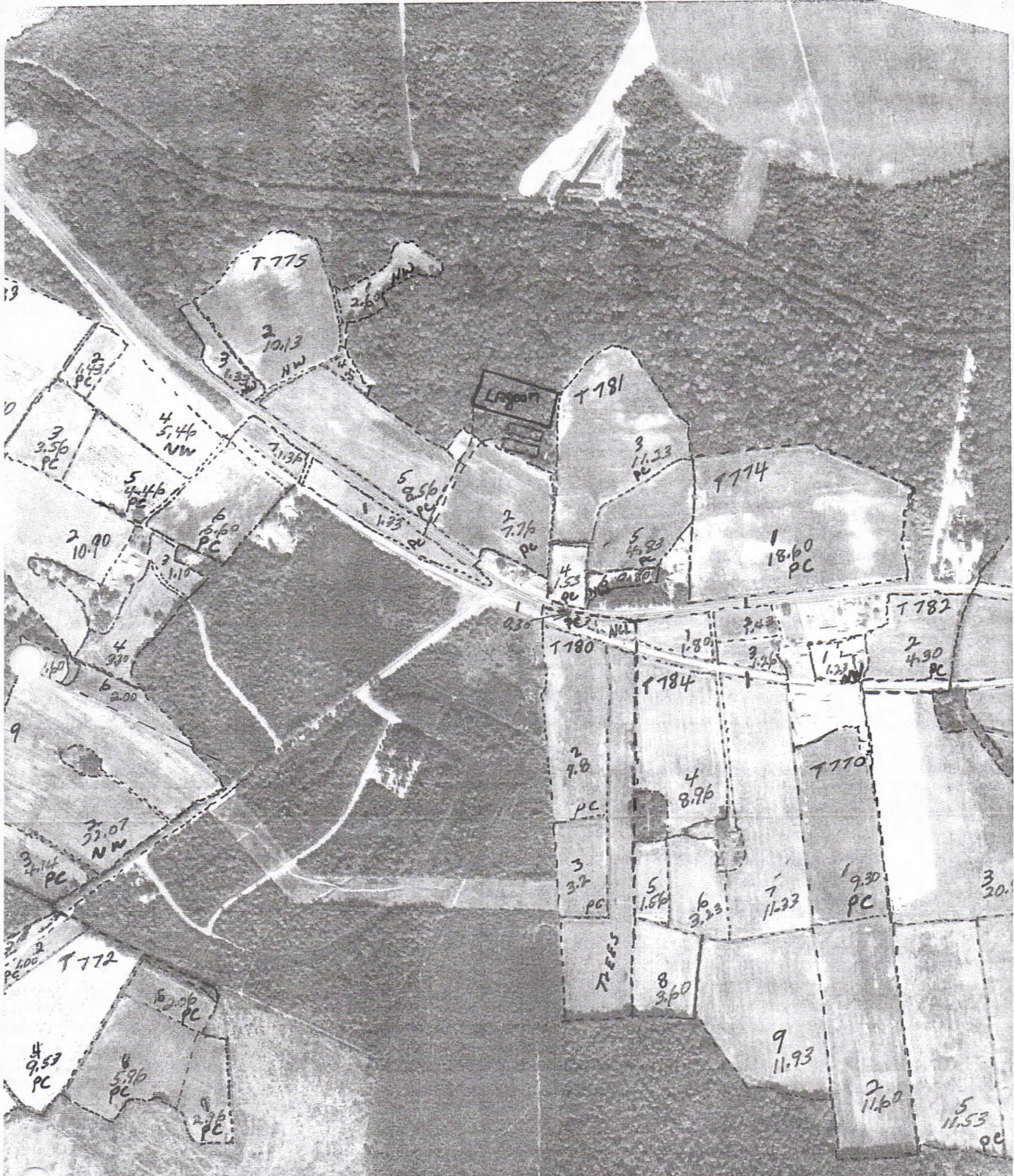
Address (Agency): _____ 403 GOVERNMENT CIRCLE, SUITE 4

_____ GREENVILLE, NC 27834

Signature: Tim Etheridge Date: 3/3/99



RONALD CRAWFORD
WASTE APPLICATION



H-2