



**GENERAL STATE OPERATING PERMIT
FOR**

**CLASS II
CONCENTRATED ANIMAL FEEDING OPERATIONS (CAFOs)**

PERMIT NO. SOPCI0000

This general permit is implemented in accordance with the provisions of Tennessee Code Annotated Section 69-3-108 and regulations promulgated pursuant thereto.

General permit SOPCI0000 authorizes the operation of a class II concentrated animal feeding operation (CAFO) that manages liquid manure in open impoundments, wastewater containment structures, or in a manner that is otherwise not protected from rainfall events; in accordance with requirements and conditions set forth herein.

This permit is issued on: September 1, 2016

This permit is effective on: September 1, 2016

This permit expires on: August 31, 2021



Tisha Calabrese Benton, Director
Division of Water Resources

**GENERAL STATE OPERATING PERMIT FOR
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Introduction

The following document is a State of Tennessee general State Operation Permit (SOP) that authorizes the operation of a concentrated animal feeding operation (CAFO). The general permit imposes restrictions on how the CAFO will operate in respect to protecting waters of the state.

This permit is a state-issued SOP general permit, with a permit number of SOPCI0000. Facilities covered under this permit will be assigned permit tracking numbers in the sequence SOPCD0001, SOPCD0002, etc. A general permit is one designed to apply to a category of sources that involve the same or substantially similar operations, discharge the same types of wastes, and require the same or similar permit conditions and monitoring provisions.

In order to get information regarding the Division of Water Resources' permitting programs, you may visit our web site located at: <http://tn.gov/environment/topic/permit-water>. Information regarding the CAFO program is located at <http://tn.gov/environment/article/permit-water-concentrated-animal-feeding-operation-cafo-general-state-opera>. At this web site, you will find the general permit, the rationale sheet, the Notice of Determination; and other information, including links to other relevant web sites.

You can contact us by sending an E-mail to ask.TDEC@tn.gov on our webpage (<http://tn.gov/environment/topic/permit-water>). If you do not have access to the web, or have other questions, contact us at 1-888-891-8332 (TDEC).

Obtaining coverage under this general permit

To obtain coverage under this permit, an applicant must submit a Notice of Intent (NOI), a closure/rehabilitation plan for the waste system storage structure(s), and a site-specific nutrient management plan (NMP) that meets the requirements of TDEC Rule 0400-40-05-.14. Applications must be submitted to the Tennessee Department of Agriculture (TDA). The application will be reviewed by the TDA and upon approval the TDA will notify TDEC.

Fees

The fees shall be as specified in the Rules of Tennessee Department of Environment and Conservation, Division of Water Resources, Water Quality Control Board, Chapter 0400-40-11 – Environmental Protection Fund Fees, available at: <http://share.tn.gov/sos/rules/0400/0400-40/0400-40-11.20140911.pdf>.

1 COVERAGE UNDER THIS GENERAL PERMIT

1.1 Permit Area

This general concentrated animal feeding operation (CAFO) permit covers all areas of the State of Tennessee.

1.2 List of the Division's Environmental Filed Offices (EFOs) and Corresponding Counties

EFO Name	EFO Address	List of Counties
Chattanooga	TDEC Division of Water Resources 1301 Riverfront Parkway Suite 206 Chattanooga, TN 37402 (423) 634-5745	Bledsoe, Bradley, Grundy, Hamilton, McMinn, Marion, Meigs, Polk, Rhea, Sequatchie
Columbia	TDEC Division of Water Resources 1421 Hampshire Pike Columbia, TN 38401 (931) 380-3371	Bedford, Coffee, Franklin, Giles, Hickman, Lawrence, Lewis, Lincoln, Marshall, Maury, Moore, Perry, Wayne
Cookeville	TDEC Division of Water Resources 1221 South Willow Ave Cookeville, TN 38506 (931) 432-4015	Cannon, Clay, Cumberland, DeKalb, Fentress, Jackson, Macon, Overton, Pickett, Putnam, Smith, Van Buren, Warren, White
Jackson	TDEC Division of Water Resources 1625 Hollywood Drive Jackson, TN 38305-2222 (731) 512-1300	Benton, Carroll, Chester, Crockett, Decatur, Dyer, Gibson, Hardeman, Hardin, Haywood, Henderson, Henry, Lake, Lauderdale, McNairy, Madison, Obion, Weakly
Johnson City	TDEC Division of Water Resources 2305 Silverdale Rd Johnson City, TN 37601 (423) 854-5400	Carter, Greene, Hancock, Hawkins, Johnson, Sullivan, Unicoi, Washington Counties
Knoxville	TDEC Division of Water Resources 3711 Middlebrook Pike Knoxville, TN 37921 (865) 594-6035	Anderson, Blount, Campbell, Claiborne, Cocke, Grainger, Hamblen, Jefferson, Knox, Loudon, Monroe, Morgan, Roane, Scott, Sevier, Union
Memphis	TDEC Division of Water Resources 8383 Wolf Lake Drive Bartlett, TN 38133-4119 (901) 371-3000	Fayette, Shelby, Tipton
Nashville	TDEC Division of Water Resources 711 RS Gass Boulevard Nashville, TN 37243-1550 (615) 681-7000	Ceatham, Davidson, Dickson, Houston, Humphreys, Montgomery, Robertson, Rutherford, Stewart, Sumner, Trousdale, Williamson, Wilson

EFO Name	EFO Address	List of Counties
Nashville Central Office	TDEC Division of Water Resources William R. Snodgrass-Tennessee Tower 312 Rosa L. Parks Avenue, 11 th Floor Nashville, TN 37243	State-wide

1.3 Activities Covered by this Permit

This permit covers all operations defined as Class II CAFOs per TDEC Rule 0400-40-05-.14 that manage liquid manure in open impoundments, wastewater containment structures, or in a manner that is otherwise not protected from rainfall events.

You must submit the information required in subpart 1.5 below if the AFO lies within the range given in the below table and you meet any of the following conditions:

- A. Pollutants are discharged through a discrete, discernible conveyance to waters of the state; or
- B. Pollutants are discharged to waters of the state that come into direct contact with animals confined in the operation; or
- C. The AFO is located on a waterbody that has been identified by the department as being impaired for nutrients or pathogens; or
- D. The AFO began operation on or after May 1, 1999; or
- E. The AFO expanded its operation so that it falls within the range given in the second column of the table below on or after July 21, 2004.

Animal Type	Class II (Medium CAFO) [number of animals]
Mature Dairy Cows (milked or dry)	200 – 699
Veal Calves	300 – 999
Cattle ¹	300 – 999
Swine	750 – 2,499 (\geq 55 lbs) 3,000 – 9,999 (\leq 55 lbs)
Chickens (liquid ²)	9,000 – 29,999
Chickens (dry ³)	37,500 – 124,999 (non-layers) 25,000 – 81,999 (layers)
Horses	150-499
Sheep/Lambs	3,000-9,999
Turkeys	16,500-54,999
Ducks (liquid ²)	1,500-4,999
Ducks (dry ³)	10,000-29,999

1 Other than mature dairy cows or veal calves. Cattle includes, but is not limited to heifers, steers, bulls and cow/calf pairs.

2 Liquid = Liquid waste management system

3 Dry = Dry waste management system

Other AFOs may be designated as CAFOs at the discretion of the Director of the Division of Water Resources (director). Factors to be considered in this determination include the AFO's size; the amount of waste reaching waters of the state; the location of the AFO; the means of waste conveyance to waters of the state; and the slope, vegetation, rainfall, and other factors affecting the likelihood or frequency of discharge of animal wastes into waters of the state. The Director shall conduct an on-site inspection prior to determining that an operation should be regulated under the CAFO permit program.

1.4 Authorization

This permit authorizes the operation of a Class II CAFO that manages liquid manure in open impoundments, wastewater containment structures, or in a manner that is otherwise not protected from rainfall events. Pursuant to this permit, no CAFO is authorized to discharge pollutants. CAFOs that discharge should seek coverage under an individual NPDES permit.

The permit does authorize the discharge of uncontaminated stormwater runoff regardless of the magnitude of the storm event. This permit prohibits the discharge of process wastewater pollutants to waters of the State of Tennessee. CAFOs must have all measures, structures, etc. in place and fully implemented, according to their nutrient management plan (NMP) approved by the Tennessee Department of Agriculture, on the permit coverage effective date.

1.5 Obtaining Permit Coverage

Submitting a complete notice of intent (NOI), a site-specific nutrient management plan (NMP), and a closure/rehabilitation plan for the waste system storage/treatment structure(s) is required to obtain coverage under this general permit. Requesting coverage under this permit means that an applicant has obtained and examined a copy of this permit, and thereby acknowledges the applicant's claim of ability to be in compliance with this permit's terms and conditions.

1.5.1 Notice of Intent (NOI)

Operators wishing to obtain coverage under this permit must submit a completed NOI as part of an application package using the NOI form provided in Appendix A of this permit (or a copy thereof). TDA and the division will review NOIs for completeness and accuracy and, when necessary, the division will investigate the proposed operation for potential impacts to waters of the state. Upon TDA approving a complete NOI packet, the division will do one of the following:

- A. Prepare and transmit a notice of coverage (NOC) to the contact indicated to receive correspondence, per the NOI form (see subpart 1.6);
- B. Notify the applicant of needed changes to their NOI submittal; or
- C. Deny coverage under this general permit (see subpart 6.7 below – *Requiring an Alternative Permit*).

1.5.2 Complete NOI Packet

All CAFOs wishing to obtain coverage under this permit must submit a complete NOI packet including a NOI, a site-specific nutrient management plan (NMP) and a closure/rehabilitation plan for the waste system storage/treatment structures that meets or exceeds NRCS technical standards

and guidelines, and at a minimum, addresses maintenance of the facility until proper closure is completed and includes a proposed schedule for closure not to exceed 360 days.

The requirements for a site-specific nutrient management plan (NMP) are outlined in part 3 below. The NMP must be developed, TDA-approved and fully implemented prior to issuing coverage. A copy of the NMP must be kept on site at all times.

1.5.3 Nutrient Management Plan (NMP)

All CAFOs wishing to obtain coverage under this permit must develop and submit a site-specific NMP with the NOI, in accordance with the requirements of part 3 below.

1.5.4 Closure Plan

Operators wishing to obtain coverage under this permit must also submit a closure/rehabilitation plan for the waste system storage/treatment structures that meets or exceeds NRCS technical standards and guidelines, and at a minimum, addresses maintenance of the facility until proper closure is completed and includes a proposed schedule for closure not to exceed 360 days, in accordance with the requirements of subpart 4.13 below.

1.6 Notice of Coverage (NOC) Procedure

1.6.1 Notice of Coverage (NOC)

Within 30 days of its receipt of a complete and TDA approved application package, the division will transmit to the permittee a notice of coverage (NOC) under this permit, which shall specify the effective date of coverage under the permit. The term of coverage shall not end later than the expiration date of this general permit.

If the division determines the submitted application package to be incomplete, or denies an applicant coverage under this general permit, the division shall notify the applicant of this determination.

1.6.2 Tracking Number

CAFOs covered under this permit will be assigned permit tracking numbers in the sequence SOPCD0001, SOPCD0002, etc.

1.7 Termination of Coverage

1.7.1 Notice of Termination

A CAFO covered under this general permit shall notify the division at the address listed in Section 1.7.2 below, when the CAFO is no longer in operation. The division retains the right to deny termination of coverage under this general permit upon receipt of the necessary notice and information from the permittee. The written notice of termination shall include the following information:

- A. Site Information: name, mailing address, and location of the site for which the notice is submitted;
- B. Operator Information: the name, address, and telephone number of the operator addressed by the notice;
- C. Permit Number: the permit tracking number for the site; and
- D. Reason for Termination.

The CAFO operator must retain permit coverage until the facility is properly closed in accordance with the facility's NMP and the requirements established in subpart 4.13 below of this permit.

The division will review termination requests for completeness and accuracy and, when necessary, investigate the CAFO for which termination was requested. If all conditions have been met, the division will notify the permittee of approval of the termination request. If there are deficiencies with the termination request, or if the division has information indicating the permit coverage is not eligible for termination, the division will notify the applicant of needed changes. If all conditions have not been met, the division will deny the request for termination of coverage under this general permit and will provide written notification that permit coverage has not been terminated. Permit coverage termination is not final until accepted by the division.

The division retains the right to deny termination of coverage under this general permit upon receipt of the NOT.

1.7.2 Where to Submit

**CAFO Notice of Termination
TDEC – Division of Water Resources
William R. Snodgrass – Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243**

2 NOTICE OF INTENT (NOI) REQUIREMENTS

2.1 Deadlines for NOI Submittal

2.1.1 Existing Operation

Existing operations that meet the definition of a Class II CAFO and that manage liquid manure in open impoundments, wastewater containment structures, or in a manner that is otherwise not protected from rainfall events, must seek coverage under this permit per the application requirements of subpart 1.5 above. Applications must be submitted not more than 90 days following the effective date of this permit. CAFOs that discharge should seek coverage under an individual NPDES permit.

2.1.2 New Operations

An operator of a new source must seek to obtain coverage under this permit at least 180 days prior to the time that the CAFO commences operation.

2.1.3 Transfer

Where the operator of a site that is covered by this permit changes, the new operator of the site must submit an NOI in accordance with the requirements of this part at least 5 days prior to the change. Within five days of the time of sale or transfer of ownership, the new owner must send a completed NOI to the Nashville Central office of the Division of Water Resources at the address listed in subpart 2.4 below.;

2.1.4 Designations

AFOs designated as CAFOs by the director must seek to obtain coverage under a permit no later than 90 days after receiving notice of the designation.

2.2 Signatory Requirements for the NOI

The NOI must be signed according to signatory requirements of part 6.5 below (Signatory Requirement) of this permit. The NOI must bear an original signature.

2.3 Content of the NOI

2.3.1 Content

A copy of the NOI form is provided in Appendix A. The following information must be included in an NOI:

- A. The legal name of the permittee, the address or description of location of the CAFO, the name of the county in which the operation is located, site latitude and longitude;
- B. The name and distance to the nearest receiving water, permit numbers for other state or federal water/wastewater permits obtained for the site;
- C. Type of animals raised at the CAFO, number of animals, number of barns, name of integrator, and the type of animal waste management;
- D. A copy of the site-specific nutrient management plan for the CAFO;
- E. A copy of the closure plan for the CAFO;
- F. A copy of the USGS topographical map, a city map, or a county map, identifying the location of the CAFO and the closest surface receiving waters;
- G. The name, title or position, mailing address, phone number, and e-mail address of an official contact person, as well as the site contact person (i.e. local contact, if applicable) and an indication of where to send correspondence and invoices; and
- H. Any additional information the division may require.

2.3.2 Operational changes

Class II CAFOs constructed after April 14, 2003 that manage liquid manure in open impoundments, wastewater containment structures, or in a manner that is otherwise not protected from rainfall events and that are not subject to new source performance standards must seek coverage under this general permit no later than 180 days prior to the time that the CAFO commences operation.

2.4 Where to Submit the NOI

All CAFOs must submit application information, including the NOI and NMP, to the Tennessee Department of Agriculture (TDA). Original documents should be sent to TDA, at the address below:

CAFO Notice of Intent Land and Water Stewardship Section TDA-Ellington Agricultural Center PO Box 40627 Nashville, TN 37204

3 NUTRIENT MANAGEMENT PLAN (NMP) REQUIREMENTS

3.1 NMP Contents

All CAFOs described in subpart 1.3 above, must develop, submit for TDA-approval, implement and keep on site a site-specific nutrient management plan (NMP) that:

- A. Includes best management practices and procedures necessary to implement applicable effluent limitations and standards,
- B. Ensures adequate storage of manure, litter, and process wastewater including procedures to ensure proper operation and maintenance of the storage facilities,
- C. Ensures proper management of mortalities (i.e., dead animals) so that they are not disposed of in a liquid manure, stormwater, or process wastewater storage or treatment system that is not specifically designed to treat animal mortalities as outlined in NRCS Conservation Practice Standard 316, October 2002 (or the most recent edition) and/or the NRCS Animal Waste Handbook, and/or University of Tennessee Extension Publications
- D. Ensures that clean water is diverted, as appropriate, from the production area,
- E. Prevents direct contact of confined animals with waters of the state,
- F. Ensures that chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or stormwater storage or treatment system unless specifically designed to treat such chemicals and other contaminants,
- G. Identifies appropriate site specific conservation practices to be implemented, including, as appropriate, buffers or equivalent practices to control runoff of pollutants to waters of the state (these practices must meet minimum standards set in the NRCS Field Office Practice Standard and/or the NRCS Animal Waste Handbook),
- H. Identifies protocols for appropriate testing of manure, litter, process wastewater, and soil that are approved by the University of Tennessee testing lab for Tennessee conditions,
- I. Establishes protocols to land apply manure, litter or process wastewater in accordance with site specific nutrient management practices that ensure appropriate agricultural utilization of the nutrients in the manure, litter or process wastewater,
- J. Identifies specific records that will be maintained to document the implementation and management of the minimum elements described in items A. through I. above.

3.2 NMP Implementation

The following are additional requirements that apply to all CAFOs covered under this general permit:

- A. All permittees covered under this permit must comply with the terms of the site-specific NMP as identified in subpart 3.1 above.
- B. All permittees covered under this permit must have all measures, structures, etc., of their NMP in place and fully implemented upon the effective date of their NOC.
- C. In addition to NRCS technical standards, NMPs must address facility maintenance until all manure and/or litter is transferred to a third party or land applied in accordance with the NMP.
- D. Permittees must annually review and update their NMP whenever there have been significant changes that affect the amount of manure produced, such as the number of animals on site; changes in how the manure is handled, stored, transferred, or land applied; or changes to how animal mortalities are handled. The permittee shall notify the director of these changes per subpart 6.6 below. Such changes must be reviewed and approved by the state.
- E. A copy of the NMP must be kept on site at all times.

4 SPECIAL CONDITIONS, MANAGEMENT PRACTICES AND OTHER NON-NUMERIC LIMITATIONS

The permittee shall attain the limitations and requirements of this permit as of the effective date of this permit for the following:

4.1 Production Areas

All wastewater discharges from a CAFO production area to waters of the State of Tennessee are prohibited. Permitted facilities must be properly designed, constructed, maintained, and operated to contain all process wastewater resulting from the operation of the CAFO.

4.2 Land Application Areas

Discharges of agricultural stormwater from land application areas are allowed so long as they meet the following requirements;

- A. The NMP must be fully implemented by the effective date of the NOC.
- B. Inspections and records shall be maintained as specified in part 5 below.

4.3 Rainfall Monitoring

A rain gauge shall be kept on site and properly maintained. Amounts of rainfall shall be recorded for all rainfall events, as defined in part 7 below.

4.4 Dry Manure Storage

Manure or litter stored uncovered for more than two weeks is not considered to be short-term or temporary storage, and is included in the definition of production area.

4.5 Discharge Requirements

4.5.1 Discharge Notification

If for any reason, there is an overflow or a discharge of pollutants to waters of the state, the permittee shall notify the Environmental Field Office (EFO) by calling 1-888-891-8332 within 24 hours, and notify the EFO in writing within 5 working days of the discharge from the facility. In addition, the permittee shall keep a copy of the notification submitted to the EFO together with the NMP. The notification shall include the following information:

- A. Description of the discharge: a description and cause of the discharge, including a description of the flow path to the receiving water body. Also, an estimation of the flow and volume discharged.
- B. Time of the discharge: the period of discharge, including exact dates and times, and the anticipated time the discharge is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the discharge.
- C. Cause of the discharge: if caused by a precipitation event(s), information from the onsite rain gauge concerning the size of the precipitation event must be provided.

4.5.2 Discharge Sampling

In the event of any overflow, bypass or other discharge to waters of the state from a manure storage structure, the following actions shall be taken.

- A. Analysis of the discharge: all discharges shall be sampled within thirty minutes of the start of the discharge and analyzed. Samples must, at a minimum, be analyzed for the following parameters and the results reported:

EFFLUENT CHARACTERISTIC	MONITORING REQUIREMENTS	
	MEASUREMENT FREQUENCY	SAMPLE TYPE
FLOW	1/Discharge	Estimate
BOD5	1/Discharge	Grab
TOTAL SUSPENDED SOLIDS (TSS)	1/Discharge	Grab
NITROGEN, TOTAL	1/Discharge	Grab
NITROGEN, AMMONIA TOTAL	1/Discharge	Grab
TOTAL KJELDAHL NITROGEN	1/Discharge	Grab
NITROGEN NITRATE TOTAL (as N)	1/Discharge	Grab
PHOSPHORUS, TOTAL	1/Discharge	Grab
PHOSPHORUS, DISSOLVED	1/Discharge	Grab
ESCHERICHIA COLI	1/Discharge	Grab

* Flow shall be reported in Million Gallons per Day (MGD)

- B. Volume of the discharge: an estimate of the volume of the release and the date and time.
- C. Sampling procedures: samples shall consist of grab samples collected from the over-flow or discharges. Samples must be collected in properly cleaned and preserved bottles of each

parameter. A minimum of one sample shall be collected from the initial discharge within 30 minutes. The collected samples shall be promptly stored in an ice filled cooler and maintained in an environment that is below 6°C (43°F) while being transported for laboratory analysis. Samples collected for the purpose of monitoring shall be representative of the monitored discharge. The operator must report the discharge to the EFO within 24 hours of the discharge. Monitoring results must be submitted to TDEC on Discharge Monitoring Report forms by the 15th of the month following the discharge.

- D. Reasons for not sampling: If conditions are not safe for sampling, the permittee must provide documentation of why samples could not be collected. However, once the unsafe conditions have passed, the permittee shall collect a sample from the retention structure (pond or lagoon) within 30 minutes.
- E. Submit the sampling results to the division using the Discharge Report Form provided in Appendix B.

4.6 Anticipated Discharges/Overflows

Should a CAFO covered by this permit anticipate a discharge/overflow from a liquid waste management system, the CAFO must immediately contact their local EFO (see subpart 1.2 above). The EFO will determine if permission may be granted for a partial emergency pump-out with either off-site disposal or land application of the pumped-out waste. Factors that may be considered by the EFO prior to making a determination to authorize land application include: field cover, past and anticipated weather, TDA recommendations, etc.

4.7 Monitoring Procedures

This section applies in the event of a discharge.

4.7.1 Representative Sampling

Samples and measurements taken in compliance with the monitoring requirements specified herein shall be representative of the volume and nature of the discharge, and shall be taken prior to mixing with uncontaminated stormwater runoff or the receiving stream.

4.7.2 Test Procedures

Monitoring must be conducted according to test procedures specified in TDEC Rule 0400-40-05-.07.

4.7.3 Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- A. The exact place, date and time of sampling;
- B. The exact person(s) collecting samples;
- C. The dates and times the analyses were performed;
- D. The person(s) or laboratory who performed the analyses;
- E. The analytical techniques or methods used, and;
- F. The results of all required analyses.

4.8 Schedule of Compliance

The facility shall be managed and operated according to the NMP and general permit from the effective date of the permittee's Notice of Coverage.

4.9 Reopener Clause

If an applicable standard or limitation is promulgated under TDEC Rule 0400-40-05 and that effluent standard or limitation is more stringent than any effluent limitation in the permit or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked and reissued to conform to that effluent standard or limitation.

4.10 Best Management Practices (BMPs)

4.10.1 General Requirements

The following best management practices (BMPs) are required for all CAFOs covered under this general permit and should be implemented through the site-specific nutrient management plan:

- A. The owner/operator shall prevent discharge of pesticide-contaminated waters into retention structures. All wastes from dipping vats, pest and parasite control units, and other facilities utilized for the management of potentially hazardous or toxic chemicals shall be handled and disposed of in a manner such as to prevent pollutants from entering the retention structures or waters of the state.
- B. All discharges to under floor waste pits shall be composed entirely of wastewater from the proper operation and maintenance of a CAFO and the precipitation runoff from the CAFO areas. The disposal of any materials (other than discharges associated with proper operation and maintenance of the CAFO) into the containment structures is prohibited by this permit.
- C. Chemicals, manure, litter, and/or process wastewater shall be managed to prevent spills. Procedures for cleaning up spills shall be developed and the necessary equipment to implement clean up shall be available to facility personnel.
- D. The operator shall notify the division in the event of any fish kill or other impacts to aquatic life that may indicate a problem with the manure management system.
- E. Where employees are responsible for work activities which relate to permit compliance, those employees must be regularly trained in the proper operation and maintenance of the facility and waste disposal. Training shall include topics as appropriate such as land application of wastes, proper operation and maintenance of the facility, good housekeeping and material management practices, necessary record-keeping requirements, and spill response and clean up. The permittee is responsible for determining the appropriate training frequency for personnel and the nutrient management plan shall identify periodic dates for such training.
- F. Uncontaminated stormwater runoff shall be diverted away from manure, litter, process wastewater, waste retention structures, and mortality management areas, i.e. under floor pits, composters, etc.

4.10.2 Land Application of Animal Waste

All CAFOs that land apply manure, litter, or process wastewater must do so in accordance with the following best management practices (BMPs) that are implemented through a site-specific nutrient management plan that incorporates a field-specific assessment of the potential for nitrogen and phosphorus transport from the field and that addresses the form, source, amount, timing, and method of application of nutrients on each field to achieve realistic production goals, while minimizing nitrogen and phosphorus movement to surface waters.

- A. Application rates for manure, litter, and other process wastewater applied to land under the ownership or operational control of the CAFO must minimize phosphorus and nitrogen transport from the field to surface waters. Nutrient management must be in compliance with applicable technical standards that:
 - i. Include a field-specific assessment of the potential for nitrogen and phosphorus transport from the field to surface waters. The field-specific assessment must address the form, source, amount, timing, and method of application of nutrients on each field to achieve realistic production goals, while minimizing nitrogen and phosphorus movement to surface waters;
 - ii. Employs the Tennessee Phosphorus Index (a tool developed by the University of Tennessee Extension Service and the NRCS to assess the risk of phosphorus movement from the application area to waters of the state); and
 - iii. Include appropriate flexibilities for any CAFO to implement nutrient management practices to comply with the technical standards, including consideration of multi-year phosphorus application on fields that do not have a high potential for phosphorus runoff to surface water, phased implementation of phosphorus-based nutrient management, and other components, as determined appropriate by the director;
- B. Annual manure analysis for nitrogen and phosphorus content, using procedures as recommended by the University of Tennessee Extension, and soil analysis at a minimum of once every five years for phosphorus content (the results of these analyses are to be used in determining application rates for manure, litter, and other process wastewater);
- C. Periodic inspection of equipment used for land application of manure, litter and other process wastewater;
- D. Application of manure, litter, and process wastewater that:
 - i. Is applied no closer than 100 feet to any down-gradient surface waters, open tile line intake structures, sinkholes, agricultural wells, or other conduits to surface waters unless,
 - (1) The CAFO substitutes the 100-foot setback with a 35-foot wide vegetated buffer or by leaving in place a 60-foot natural riparian buffer, where applications of manure, litter, or process wastewater are prohibited; or
 - (2) The CAFO demonstrates that a setback or buffer is not necessary because implementation of alternative conservation practices or field-specific conditions will provide pollutant reductions equivalent to or better than the reductions that would be achieved by the 100-foot setback;
 - ii. Manure, litter, and process wastewater shall be applied a minimum of 100 feet from any potable well, public or private, or as recommended by the University of Tennessee Extension; and

- E. For new CAFOs that are located adjacent to exceptional Tennessee waters (as identified by the department), leave in place a minimum 60-foot natural riparian buffer between the stream and the land application area.
- F. There must not be land application of nutrients including manure, litter or process waste water, within 24 hours of a precipitation event that may cause runoff from the fields. The operator shall not land apply nutrients to frozen, flooded, or saturated soils.

4.11 Liquid Waste Management System Requirements

No CAFO liquid waste management system shall be constructed, modified, repaired, or placed into operation after April 13, 2006 unless it is designed, constructed, operated, and maintained in accordance with final design plans and specifications which meet or exceed standards in the NRCS Field Office Technical Guide and other guidelines as accepted by the Departments of Environment and Conservation, or Agriculture, per TDEC Rule 0400-40-05-.14(14). Specifically, plans must include the following:

- A. Any new or additional confinement buildings, waste/wastewater handling system, waste/wastewater transport structures, waste/wastewater treatment structures, settling basins, lagoons, holding ponds, sumps, or pits, and other agricultural waste containment/treatment structures constructed after April 13, 2006 shall be located in accordance with NRCS Conservation Practice Standard 313.
- B. A subsurface investigation for earthen holding pond, pit, sump, treatment lagoon, or other earthen storage/containment structure suitability and liner requirements shall be a component of the system design. The subsurface investigation will include a detailed soils investigation with special attention to the water table depth and seepage potential. The investigation must evaluate soils to a depth of two feet below the planned bottom grade of the storage structure. Deeper investigations may be required in karst regions. A soils/geologic investigation shall be performed by a soil scientist and qualified geologist. A qualified geologist is defined as an individual who is a Registered Professional Geologist licensed by the State of Tennessee or an individual who meets the requirements for the title of Certified Professional Geologist, as defined by the American Institute of Professional Geologist. Unless relevant information is available to the contrary, compliance with this provision during design and construction of the facility will normally demonstrate that the hydrologic connection does not exceed a maximum allowable specific discharge of 0.0028 ft/day (1×10^{-6} cm/sec).

4.12 Transfer to Third Party

In cases where CAFO-generated manure, litter, or process wastewater is sold or given away in its entirety to be used for land application activities that are not under the control of the permitted CAFO, land application does not need to be addressed in the permitted CAFO NMP. However, for operations that transfer more than 100 tons of manure, litter or process wastewater per year to a third party for disposal, the CAFO must:

- A. Provide the recipient of the manure, litter or process wastewater with the most current nutrient analysis, consistent with 40 CFR § 412; and
- B. Ensure that the recipient sign the Agreement for the Removal of Litter, Manure and/or Process Wastewater from an AFO using the form in Appendix C. The permitted CAFO must

keep a copy of the signed Agreement along with other records required by this permit, per subpart 5.2 below.

In addition, CAFOs that transfer 100 tons of manure, litter or process wastewater to a third party must retain for five years records of the date of transfer, recipient name and address, and approximate amount of manure, litter or process wastewater transferred to a third party using the form in Appendix D below.

4.13 Closure Plan

The permittee must fully implement the closure/rehabilitation plan for the waste system storage/treatment structure(s) within 360 days of ceasing operation.

In addition to NRCS technical standards, the plan must address facility maintenance until proper closure and include the following:

- A. No earthen basin, including under floor pits, shall be permanently abandoned;
- B. Earthen basins, and under floor pits, shall be maintained at all times until closed in compliance with this subpart;
- C. All earthen basins must be closed if the permittee ceases operation. In addition, any earthen basin that is not in use for a period of twelve consecutive months must be closed unless the permittee is viable, intends to resume use of the structure at a later date, and; maintains the structure as though it were actively in use, to prevent compromise of structural integrity; or removes manure and wastewater to a depth of one foot or less and refills the structure with clean water to preserve the integrity of the synthetic or earthen liner. In either case, the permittee shall notify the division of the action taken and shall conduct routine inspections, maintenance, and record keeping as though the structure were in use. Prior to restoration of use of the structure, the permittee shall notify the division and provide the opportunity for inspection;
- D. All closure of other earthen basins must be in accordance with NRCS standards (Field Technical Guide No. 360, Closure of Waste Impoundment). Consistent with NRCS standards, the permittee shall remove all waste materials to the maximum extent practicable and dispose of them in accordance with the permittee's nutrient management plan, unless otherwise authorized by the division.
- E. Unless otherwise authorized by the division, completion of closure for earthen basins shall occur as promptly as practicable after the permittee ceases to operate or, if the permittee has not ceased operations, 12 months from the date on which the use of the structure ceased, unless the requirements above are met.

4.14 Mortality Management

The permittee must ensure proper management of mortalities (i.e. dead animals) so that they are not disposed of in a liquid manure, stormwater, or process wastewater storage or treatment system that is not specifically designed to treat animal mortalities. Mortalities must be handled in such a way as to prevent the discharge of pollutants to surface water. At a minimum, the requirements of NRCS conservation practice standards 316 (Animal Mortality Facility) and 317 (Composting Facility), and/or the NRCS Animal Waste Handbook, and/or University of Tennessee Extension publications must be followed, as applicable.

5 RETENTION, ACCESSIBILITY, AND SUBMISSION OF RECORDS

5.1 Inspections

Daily inspections of all water lines, including drinking and cooling water are required.

Weekly inspections are required for all stormwater diversion devices, runoff diversion structures and devices channeling contaminated stormwater to the wastewater and manure storage and containment structure.

Weekly inspections are also required for the manure, litter, and process wastewater containment structures, noting the liquid level in the containment structures.

Any deficiencies found as a result of these inspections must be corrected as soon as possible.

5.2 Record Keeping

The following records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation, shall be retained on site for a minimum of five years, or longer, if requested by the division:

- A. All applicable records documenting the implementation and management of the minimum elements of the NMP, as listed in part 3 above.
- B. A copy of the CAFO's site-specific NMP and records of its annual review;
- C. Records documenting the following visual inspections:
 - 1. Weekly inspections of all stormwater diversion devices, runoff diversion structures and devices channeling contaminated stormwater to the wastewater and manure storage and containment structure(s);
 - 2. Daily inspections of water lines, including drinking or cooling water lines; and
 - 3. Weekly inspections of the manure, litter, and process wastewater containment structures noting the liquid level in the containment structures.
- D. Weekly records of the depth of the manure and process wastewater in the liquid containment structure as indicated by the required depth marker which indicates the minimum capacity necessary to contain the runoff and direct precipitation of the 25-year, 24-hour rainfall event or in the case of swine or poultry CAFOs that are new sources indicate the runoff and direct precipitation from a 100-year, 24-hour rainfall event;
- E. Records documenting any corrective actions taken (if deficiencies are not corrected within 30 days of notice of deficiency, the records must include an explanation of the factors preventing immediate correction);
- F. Records of mortalities management and practices used to comply with the nutrient management plan and NRCS Conservation practice Standards 316 and 317, and/or the NRCS Animal Waste Handbook, and/or University of Tennessee Extension publications per the requirements of TDEC Rule 0400-40-05-.14;
- G. Records documenting the current design of any manure or litter storage structures, including volume for solids accumulation, design treatment volume, total design volume, and approximate number of days of storage capacity;
- H. Records of the date, time, and estimated volume of any overflow;
- I. Expected and actual crop yields;
- J. The date(s) manure, litter, or process wastewater is applied to each field;
- K. Weather conditions at time of application and for 24 hours prior to and following application;
- L. Test methods used to sample and analyze manure, litter, and/or process wastewater and soil,

- M. Results from annual manure, litter, and/or process wastewater sampling;
- N. Results from most recent soil sampling;
- O. Explanation of the basis for determining manure application rates, as provided in the technical standards established by the NRCS or as otherwise approved by the director or the Tennessee Department of Agriculture;
- P. Calculations showing the total nitrogen and phosphorus to be applied to each field, including sources other than manure, litter, or process wastewater;
- Q. Total amount of nitrogen and phosphorus actually applied to each field, including documentation of calculations for the total amount applied;
- R. The method used to apply the manure, litter, or process wastewater;
- S. Date(s) of manure application equipment inspection and calibration; and
- T. A log of all measurable rainfall events.

5.3 Annual Report

The permittee must submit an annual report between January 1 and February 15 that includes:

- A. The number and types of animals on site whether in open confinement or housed under roof;
- B. Estimated amount of total manure and/or litter generated by the CAFO in previous calendar year (tons/gallons);
- C. Estimated amount of total manure, and/or litter transferred to a third party by the CAFO in the previous calendar year (tons/gallons);
- D. Total number of acres for land application covered by the nutrient management plan;
- E. Total number of acres under control of the CAFO that were used for land application of manure, litter and process wastewater in the previous calendar year;
- F. A summary of all manure, litter and process wastewater discharges to waters of the state from the production area that have occurred in the previous calendar year, including date, time, and approximate volume; and
- G. A statement indicating whether the current version of the CAFO's nutrient management plan was developed or approved by a certified nutrient management planner.
- H. The actual crop(s) planted and actual yield(s) for each field;
- I. The actual nitrogen and phosphorus content of the manure, litter and process wastewater;
- J. The results of calculations to determine the maximum amount of manure, litter and process wastewater to be land applied and the data used in the calculations;
- K. The actual amount of manure, litter, and process wastewater applied during the previous 12 months;
- L. The results of any soil tests for nitrogen and phosphorus conducted in the previous 12 months; and
- M. The amount of any supplemental fertilizer applied during the previous 12 months.

Annual reports must be submitted to the division at the appropriate TDEC EFO for the county where the CAFO is located, as is shown in subpart 1.2 above and to the Nashville Central Office Enforcement and Compliance Section at the address listed below.

TDEC – Division of Water Resources Land Based Systems Section William R. Snodgrass – Tennessee Tower, 11 th Floor 312 Rosa L. Parks Avenue Nashville, TN 37243

5.4 Falsifying Reports

Knowingly making any false statement on any report required by this permit may result in the imposition of criminal penalties as provided for in Section 309 of the Federal Water Pollution Control Act, as amended, and in Section 69-3-115 of the Tennessee Water Quality Control Act.

6 STANDARD PERMIT CONDITIONS

6.1 Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Water Quality Control Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

6.2 Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.

6.3 Continuation of the Expired General Permit

This permit expires on April 30, 2021. However, coverage under the expired general permit is administratively continued in force and effect until 90 days after the new permit is issued. Permittees must submit a complete NOI packet, according to the conditions of the new general permit, to maintain coverage.

Permittees who choose not to maintain coverage under the expired general permit, or are required to obtain an individual permit, must submit an application (Forms 1 and 2B—available at: <http://tn.gov/environment/article/permit-water-concentrated-animal-feeding-operation-cafo-general-state-opera>—and any other applicable forms) at least 180 days prior to expiration of this general permit. Permittees who are eligible and choose to be covered by the new general permit must submit an NOI by the date specified in that permit.

6.4 Duty to Provide Information

The permittee shall furnish to the commissioner, within a reasonable time, any information which the commissioner may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the commissioner upon request, copies of records required to be kept by this permit.

6.5 Signatory Requirement

All Notices of Intent (NOI), nutrient management plans (NMPs), requests for termination of permit coverage, reports, certifications or information submitted to the director or that this permit requires be maintained by the permittee, shall be signed and dated.

6.5.1 Signatory Requirements

All NOIs, reports, or information submitted to the commissioner shall be signed and certified as follows:

A. For a corporation:

- i. by a responsible corporate officer, i.e., a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation;
- ii. by a manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility to assure long term environmental compliance with environmental laws and regulations; or
- iii. by a person in a corporate position to which signatory authority has been delegated by a corporate officer.

NOTE: The division does not require specific assignments or delegations of authority to responsible corporate officers. The division will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the director to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

- B. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.
- C. For a municipality, state, federal, or other public agency:
 - i. a principal executive officer (i.e. the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency); or
 - ii. ranking elected official.

6.5.2 Changes to Authorization

If an authorization under part 6.5 above is no longer accurate because a different individual or position has responsibility for the overall operation of the site, a new authorization satisfying the requirements of part 6.5 above must be submitted to the director prior to or together with any reports, information, or applications to be signed by an authorized representative.

6.5.3 Certification

All NOIs, reports, or information submitted to the commissioner shall be signed and certified by the persons identified in 0400-40-05-.05(6)(a-c), making the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

6.6 Planned Changes

The permittee shall give notice to the director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when the alteration or addition to a permitted facility is considered a new source per 0400-40-05-.02 (55).

6.7 Requiring an Alternative Permit

6.7.1 Requiring an Individual Permit

When conditions at a CAFO, that is managing liquid manure in an open impoundment, wastewater containment structure, or in a manner that is not protected from rainfall events, change such that the CAFO increases in size to the extent that they meet the definition of a large (Class I) CAFO; the owner/operator of the CAFO must seek an individual permit.

6.7.2 Individual/Alternative General Permit Issuance

When an individual SOP is issued to an owner or operator otherwise subject to this general permit, or the owner or operator is authorized for coverage under an alternative SOP general permit, the applicability of this permit to the individual SOP permittee is automatically terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit, whichever the case may be.

6.8 Inspection and Entry

The permittee shall allow the commissioner, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

- A. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- B. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- C. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- D. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the commissioner.

6.9 Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. Causes for such permit action include but are not limited to the following:

- A. Violation of any terms or conditions of the permit;
- B. Obtaining a permit by misrepresentation or failure to disclose fully all relevant facts; and
- C. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge.

6.10 Penalties for Violations of Permit Conditions

Pursuant to T.C.A. § 69-3-115 of The Tennessee Water Quality Control Act of 1977, as amended:

- A. any person who violates an effluent standard or limitation or a water quality standard established under this part (T.C.A. § 69-3-101, et. seq.); violates the terms or conditions of this permit; fails to complete a filing requirement; fails to allow or perform an entry, inspection, monitoring or reporting requirement; violates a final determination or order of the board, panel or commissioner; or violates any other provision of this part or any rule or regulation promulgated by the board, is subject to a civil penalty of up to ten thousand dollars (\$10,000) per day for each day during which the act or omission continues or occurs;

- B. any person unlawfully polluting the waters of the state or violating or failing, neglecting, or refusing to comply with any of the provisions of this part (T.C.A. § 69-3-101, et. seq.) commits a Class C misdemeanor. Each day upon which such violation occurs constitutes a separate offense;
- C. any person who willfully and knowingly falsifies any records, information, plans, specifications, or other data required by the board or the commissioner, or who willfully and knowingly pollutes the waters of the state, or willfully fails, neglects or refuses to comply with any of the provisions of this part (T.C.A. § 69-3-101, et. seq.) commits a Class E felony and shall be punished by a fine of not more than twenty-five thousand dollars (\$25,000) or incarceration, or both.

6.11 Penalties for Falsification of Reports

Knowingly making any false statement on any report or form required by this permit may result in the imposition of criminal penalties as provided for in Section 309 of the Clean Water Act and in T.C.A. §69-3-115 of the Tennessee Water Quality Control Act.

Bypass

Bypass, as defined by 0400-40-05-.02(15), is prohibited unless:

- A. bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- B. there were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
- C. for anticipated bypass, the permittee submits prior notice, to the Division, if possible at least ten days before the date of the bypass; or
- D. for unanticipated bypass, the permittee submits notice to the Division of an unanticipated bypass within 24 hours from the time that the permittee becomes aware of the bypass.

A bypass that does not cause effluent limitations to be exceeded may be allowed only if the bypass is necessary for essential maintenance to assure efficient operation.

6.12 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

6.13 Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

6.14 Property Rights

This permit does not convey property rights of any sort, or any exclusive privilege.

6.15 Other Information

When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report to the director, he or she shall promptly submit such facts or information.

6.16 Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

6.17 Overflow

Overflows as defined by 0400-40-05-.02 are prohibited.

6.18 Noncompliance

If for any reason, there is a discharge to a waterbody of the state or an overflow or discharge from a waste retention structure, the permittee shall make immediate oral notification within 24-hours to the Division of Water Pollution Control (division) by calling 1-888-891-TDEC and shall notify the division's local EFO (as listed in subpart 1.2 above) in writing within five working days of the discharge from the facility. The written notification must include a description of the discharge (including the cause and flow path of the discharge), volume of discharge, time of discharge, and the cause of the discharge.

In the case of any noncompliance which could cause a threat to human health or the environment, the permittee shall report the noncompliance to the commissioner within 24 hours from the time the permittee becomes aware of the circumstances. A written submission must be provided within five days of the time the permittee becomes aware of the noncompliance. The permittee shall provide the following information:

- A. A description of, and the cause of the noncompliance;
- B. The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
- C. The steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

6.19 Liabilities

6.19.1 Civil and Criminal Liability

Except as provided in permit conditions nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Notwithstanding this permit, the permittee shall remain liable for any damages sustained by the State of Tennessee, including but not limited to fish kills and losses of aquatic life and/or wildlife, as a result of the discharge of wastewater to any surface or subsurface waters. Additionally, notwithstanding this permit, it shall be the responsibility of the permittee to conduct its wastewater treatment and/or discharge activities in a manner such that public or private nuisances or health hazards will not be created. Furthermore, nothing in this permit shall be construed to preclude the State of Tennessee from any legal action or relieve the discharger from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or the Federal Water Pollution Control Act.

6.19.2 Liability Under State Law

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or the Federal Water Pollution Control Act, as amended.

7 DEFINITIONS

An “**animal feeding operation**” (AFO) is a facility that (1) stables, confines and feeds or maintains animals (other than aquatic animals) for a total of 45 days or more in any 12-month period and (2) does not sustain crops, vegetation, forage growth, or post-harvest residues in the normal growing season over any portion of the facility. Two or more AFOs under common ownership are considered to be a single AFO for the purposes of determining the number of animals at an operation, if they adjoin each other or if they use a common area or system for the disposal of wastes.

“**Animal waste management system**” means any system used for the collection, storage, treatment, handling, transport, distribution, land application, or disposal of agricultural wastes, animal waste/wastewater, waste product, and dead animals generated by an AFO that meets or exceeds NRCS technical standards and guidelines.

For this purpose of this permit, an “**application**” includes a Notice of Intent (NOI), a site-specific nutrient management plan (NMP), and a closure plan.

“**Best management practices**” (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs can also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

A “**calendar day**” is defined as the 24-hour period from midnight to midnight or any other 24-hour period that reasonably approximates the midnight-to-midnight time period.

A “**catastrophic event**” is a rainfall event greater than the 24-hour, 25-year storm for existing CAFOs or new dairy or cattle CAFOs, or the 100-year, 24-hour rainfall event for a new hog or poultry CAFOs, or the occurrence of a tornado or other severe event as determined by the division which would cause an overflow from the waste retention structure that is designed, constructed, operated, and maintained to meet all the requirements of this permit.

A “**closure plan**” is a description of the steps taken, after a permissible activity has ceased, to prevent contamination of surface waters from the inactive site.

A “**comprehensive nutrient management plan (CNMP)**” is a conservation plan that is unique to animal feeding operations. It is a grouping of conservation practices and management activities which, when implemented as part of a conservation system, will help to ensure that both production and natural resource protection goals are achieved. Guidance for developing a CNMP is located in USDA-NRCS’s National Planning Procedures Handbook.

A “**concentrated animal feeding operation**” (CAFO) is an AFO that either meets the large (Class I) CAFO size criteria of 0400-40-05-.14(2), the medium (Class II) criteria of 0400-40-05-.14(3) or has otherwise been designated as a CAFO by the director.

“**Discharge**” or “**discharge of pollutant**” refers to the addition of pollutants to waters from a source.

“**Dry waste management**” refers to systems where continuously overflowing watering systems are not used and birds are raised in an enclosed building with earthen or concrete floors spread with layer of sawdust, wood shavings, rice hulls, or chopped straw.

"Hydrologic connection" means the interflow and exchange between surface impoundments or containment structures and groundwater or surface water through a surface or underground corridor or pathway. In the context of this chapter, the purpose of prevention/reduction of hydrologic connection is to prevent/ reduce groundwater flow contact resulting in the transfer of pollutants into groundwater.

"Impaired waters" means any segment of surface waters that has been identified by the division as failing to support classified uses. The Division periodically compiles a list of such waters. The Division will notify applicants and permittees if their discharge is into, or is affecting, impaired waters.

"Land application area" means the land under the control of an AFO owner or operator to which manure, litter or process wastewater from the AFO production area is or may be applied.

A **"large CAFO"** (Class I CAFO) is an AFO that confines greater than or equal to the number of animals specified in table 0400-40-05-.14.1.

The term **"manure"** is defined to include manure, bedding, compost and raw materials or other materials commingled with manure or set aside for disposal.

"Mature dairy cow" refers to a cow that has previously given birth to a calf.

A **"medium CAFO"** (Class II CAFO) is an AFO that confines greater than or equal to the number of animals specified in table 0400-40-05-.14.1 and also meets the criteria of 0400-40-05-.14 (3).

"Multi-year phosphorus application" means phosphorus applied to a field in excess of the crop needs for that year. Subsequent phosphorus application is prohibited until the applied phosphorus has been removed via harvest and/or crop removal.

A **"natural riparian buffer"** is a permanent strip of natural vegetation adjacent to a stream that contains dense vegetation made up of grass, shrubs and trees. The purpose of a natural riparian buffer is to maintain existing water quality by minimizing the risk of any potential nutrients or pollutants from leaving the field and reaching adjacent surface waters and to further prevent negative water quality impacts by providing canopy over adjacent waters.

"Overflow" means any release of manure, litter, or process wastewater from any portion of the collection, transmission, or treatment system other than through permitted outfalls.

"Owner or operator" means any person who owns, leases, operates, controls or supervises a source.

"Pollutant" means sewage, industrial wastes, or other wastes.

"Production Area" means that part of an AFO that includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas.

- The animal confinement area includes but is not limited to open lots, housed lots, feedlots, confinement houses, stall barns, free stall barns, milk rooms, milking centers, cowyards, barnyards, medication pens, walkers, animal walkways associated with barns or barnyards, and stables.
- The manure storage area includes but is not limited to lagoons, runoff ponds, storage sheds, stockpiles, under house or pit storages, liquid impoundments, static piles, and composting piles. If an AFO stores manure in the field (i.e., manure or litter piled for more than several days before land application occurs), the field storage is considered to be a production area. Note that manure or litter stored uncovered for more than two weeks is not considered to be short-term or temporary storage, and is included in the definition of production area.

- The raw materials storage area includes but is not limited to feed silos, silage bunkers, and organic bedding materials.
- The waste containment area includes but is not limited to settling basins, and areas within berms and diversions that separate uncontaminated stormwater.
- The production area also includes any egg washing or egg processing facility, and any area used in the storage, handling, treatment, or disposal of mortalities.

“Process wastewater” means water that comes in contact with a production process, its raw materials, products or byproducts. This includes spillage, wash-water, and overflow from animal watering systems or contact-cooling water. In the case of AFOs, process water would include water that contacts manure, litter, feed, milk, eggs or bedding.

A **“rainfall event”** is defined as any occurrence of rain, preceded by 10 hours without precipitation that results in an accumulation of 0.01 inches or more. Instances of rainfall occurring within 10 hours of each other will be considered a single rainfall event. Ten -year, 24-hour rainfall event, 25-year, 24-hour rainfall event, and 100-year, 24-hour rainfall event are mean precipitation events with a probable recurrence interval of once in 10 years, or 25 years, or 100 years, respectively, as defined by the National Weather Service in Technical Paper No. 40, “Rainfall Frequency Atlas of the United States,” May, 1961, or equivalent regional or state rainfall probability information developed from this source, to include “National Weather Service Atlas 14”.

“Setback” means a specified distance from surface waters or potential conduits to surface waters where manure, litter, and process wastewater may not be land applied. Examples of conduits to surface waters include but are not limited to: open tile line intake structures, sinkholes, and wells.

“Sewage” means water-carried waste or discharges from human beings or animals, from residences, public or private buildings, or industrial establishments, or boats, together with such other wastes and ground, surface, storm, or other water as may be present.

“Vegetated buffer” means a narrow, permanent strip of dense perennial vegetation established parallel to the contours of and perpendicular to the dominant slope of the field for the purposes of slowing water runoff, enhancing water infiltration, and minimizing the risk of any potential nutrients or pollutants from leaving the field and reaching surface waters.

“Waters” means any and all water, public or private, on or beneath the surface of the ground, which are contained within, flow through, or border upon Tennessee or any portion thereof except those bodies of water confined to and retained within the limits of private property in single ownership which do not combine or effect a junction with natural surface or underground waters.

NEXT PAGE (A-1):
Appendix A – Notice of Intent (NOI)



Tennessee Department of Environment and Conservation,
 Division of Water Resources
 William R. Snodgrass-Tennessee Tower
 312 Rosa L. Parks Avenue, 11th Floor, Nashville, TN 37243
 (615) 532-0625

**CONCENTRATED ANIMAL FEEDING OPERATION (CAFO)
 STATE OPERATING PERMIT (SOP)
 NOTICE OF INTENT (NOI)**

Type of permit you are requesting: SOPCI0000 (liquid manure impoundment) SOPC00000 SOPCE0000 (Litter Export)

Application type: New Permit Permit Reissuance Permit Modification

If this NOI is submitted for Permit Modification or Reissuance provide the existing permit tracking number: _____

OPERATION IDENTIFICATION

Operation Name:		County:	
Operation Location/ Physical Address:		Latitude:	
		Longitude:	
Name and distance to nearest receiving water(s):			
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list those permit numbers:			
Animal Type: <input type="checkbox"/> Poultry <input type="checkbox"/> Swine <input type="checkbox"/> Dairy <input type="checkbox"/> Beef <input type="checkbox"/> Other _____			
Number of Animals:		Number of Barns:	Name of Integrator:
Type of Animal Waste Management: <input type="checkbox"/> Dry <input type="checkbox"/> Liquid <input type="checkbox"/> Liquid, Closed System (i.e. covered tank, under barn pit, etc.)			
Attach the NMP <input type="checkbox"/> NMP Attached		Attach the closure plan <input type="checkbox"/> Closure Plan Attached	Attach a topographic map <input type="checkbox"/> Map Attached

PERMITTEE IDENTIFICATION

Official Contact (applicant):		Title or Position:		<input type="checkbox"/> Correspondence <input type="checkbox"/> Invoice
Mailing Address:		City:	State: Zip:	
Phone number(s):		E-mail:		
Optional Contact:		Title or Position:		<input type="checkbox"/> Correspondence <input type="checkbox"/> Invoice
Address:		City:	State: Zip:	
Phone number(s):		E-mail:		

APPLICATION CERTIFICATION AND SIGNATURE (must be signed in accordance with the requirements of Rule 0400-40-05-.14)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and title; print or type	Signature	Date
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STATE USE ONLY

Received Date	Reviewer	EFO	T & E Aquatic Fauna	Tracking No.
	Impaired Receiving Stream		High Quality Water	NOC Date

CAFO NOTICE OF INTENT INSTRUCTIONS

Background. All operations defined as CAFOs (concentrated animal feeding operations) must seek coverage under a permit. Operations that meet the Class II size criteria (TDEC Rule 0400-40-05-.14) and that manage liquid manure in open impoundments, wastewater containment structures, or in a manner that is otherwise not protected from rainfall events need coverage under the General State Operating Permit (SOP) for CAFOs, Permit Number SOPCI0000. Operations meeting the size criteria for either a Class I or Class II operation that do not discharge and do not store liquid manure in open impoundments, but otherwise meet criteria in state rules need coverage under the General SOP for CAFOs, Permit Number SOPC00000. Poultry operations that export 100 percent of their litter to 3rd party recipients need coverage under the General SOP for CAFOs, Permit Number SOPCE0000. AFOs (animal feeding operations) meeting or exceeding the size thresholds in column 1 of table 0400-40-05-.14-.1 are considered large (Class I) CAFOs. Class I CAFOs that discharge must apply for an individual NPDES permit (application forms are available at: <http://tn.gov/environment/article/permit-water-national-pollutant-discharge-elimination-system-npdes-permit>). All other CAFOs must apply for a state permit using this form. This form must be submitted at least 180 days before a CAFO commences operation.

Complete the form. Type or print clearly, using black or blue ink; not markers or pencil. Answer each item or enter “N/A,” for not applicable. If you need additional space, attach a separate piece of paper to the NOI. Applicants must submit a NMP (Nutrient Management Plan), and a closure plan along with this NOI. **The application will be considered incomplete without supplying all of the required information.**

Operation Identification. Describe and locate the project, use the legal or official name of the facility or site. Provide the latitude and longitude (expressed in decimal degrees) of the center of the site, which can be located on USGS quadrangle (i.e. topographic) maps. Topographic maps may be obtained at the USGS website: <http://store.usgs.gov>. Attach a copy of a portion of a 7.5 minute quad map (i.e. 1:24,000-scale topographic map), showing location of site, with boundaries at least one mile outside the site boundaries.

Permittee Identification. Official Contact – Provide the name, telephone number, address, and E-mail address of the person or corporation which proposes to operate or operates and/or profits from this AFO. **Facility Contact** – Provide the name, telephone number, address, and E-mail address of the person most familiar with the operation and with the facts reported in the NOI. This person may be contacted by the division, if necessary. Indicate where to send correspondence and invoices.

Fees. There is no application fee for this permit. An annual maintenance fee may be required and you will be invoiced at a later date.

Submitting the form and obtaining more information. Note that this form must be signed by the chief executive officer, owner, or highest ranking elected official. Submit a complete application to both the Tennessee Department of Agriculture (TDA) and to TDEC-DWR; keep a copy for your records. Original documents should be sent to TDEC-DWR and a copy should be sent to TDA, at the addresses below:

CAFO Notice of Intent TDEC Division of Water Resources William R. Snodgrass – Tennessee Tower 312 Rosa L. Parks Avenue, 11 th Floor Nashville, TN 37243	CAFO Notice of Intent Land and Water Stewardship Section TDA-Ellington Agricultural Center PO Box 40627 Nashville, TN 37204
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Upon receipt of the required items the division will conduct a review of the material, and notify the applicant of any deficiencies. Notification may also come from the Tennessee Department of Agriculture, which reviews the NMP. When all the deficiencies have been corrected, the division will process the NOI and issue permit coverage.

The division has the right to inspect a facility when deemed necessary. In addition, the division has the right to revoke or suspend any permit for violation of permit conditions or any other provisions of the Tennessee Water Quality Control Act and other water pollution control rules.

The division is responsible for regulating any activity, which involves a potential discharge in order to protect waters of the State from pollution and to maintain the highest possible standards in water quality.

Obtaining more information/assistance For more information or assistance, contact your local Environmental Field Office (EFO), toll-free, at 1-888-891-8332 (TDEC) or at the number listed below.

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	1301 Riverfront Parkway, Suite 206	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 432-4015
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000

APPENDIX B

Discharge Report Form

(This page intentionally left blank.)

DISCHARGE REPORT FORM

PERMIT NUMBER: _____

(NOTE: Read instructions before completing this form.)

* Required notification information per section 4.3.1, Discharge Notification, may be included with this form. *

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

DISCHARGE INFORMATION:

NAME _____
 ADDRESS _____

 FACILITY _____
 LOCATION _____

DATE: _____ TIME: _____
 DURATION: _____
 FLOW RATE: _____ VOLUME ESTIMATE _____
 DESCRIPTION: _____
 CAUSE: _____

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				No. Ex	Frequency of Analysis	SAMPLE TYPE
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
BOD, 5-Day (20 Deg C) 00310 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		(19)		01/DS	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	mg/L		Once per Discharge	Grab
Solids, Total Suspended 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		(19)		01/DS	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	mg/L		Once per Discharge	Grab
Nitrogen Total (as N) 00600 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		(19)		01/DS	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	mg/L		Once per Discharge	Grab
Nitrogen Nitrate Total (as N) 00620 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		(19)		01/DS	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	mg/L		Once per Discharge	Grab
Nitrogen Kjeldahl Total (as N) 00625 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		(19)		01/DS	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	mg/L		Once per Discharge	Grab
Phosphorus, Total (as P) 00665 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		(19)		01/DS	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	mg/L		Once per Discharge	Grab
Phosphorus, Dissolved 00666 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		(19)		01/DS	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	mg/L		Once per Discharge	Grab

Name/Title Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.	Telephone		Date		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

General Instructions

1. If for any reason, there is a discharge to a water body of the state, the permittee shall make immediate oral notification within 24-hours to the Division of Water Resources (division) and notify the division in writing within five working days of the discharge from the facility. In addition, the permittee shall keep a copy of the notification submitted to the division together with the NMP. The notification shall include the following information:
 - a. Description of the discharge: A description and cause of the discharge, including a description of the flow path to the receiving water body. Also, an estimation of the flow rate and volume discharged.
 - b. Time of the discharge: The period of discharge, including exact dates and times, and the anticipated time the discharge is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the discharge.
 - c. Cause of the discharge: If caused by a precipitation event(s), information from the onsite rain gauge concerning the size of the precipitation event must be provided.
2. Enter "Sample Measurement" data for each parameter under "Quantity" and "Quality" in units specified in permit. "Average" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "Monitoring Period"; "Maximum" and "Minimum" are normally extreme high and low measurements obtained during "Monitoring Period".
3. Where violations of permit requirements are reported, attach a brief explanation to describe cause and corrective actions taken, and reference each violation by date.
4. Enter "Name/Title of Principal Executive Officer" with "Signature of Principal Executive Officer or Authorized Agent", "Telephone Number", and "Date" at bottom of form.
5. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
6. More detailed instructions for use of this Discharge Report Form may be obtained from Office(s) specified in the permit.

Legal Notice

Penalties for violating the terms and conditions of a permit and/or the Water Quality Control Act are assessed on a case by case basis according to the actual or potential environmental harm that has resulted in each instance. The Water Quality Control Act authorizes the department to assess up to \$10,000.00 per day, per violation, according to those conditions.

DISCHARGE REPORT FORM

PERMIT NUMBER: _____

(NOTE: Read instructions before completing this form.)

* Required notification information per section 4.3.1, Discharge Notification, may be included with this form. *

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

DISCHARGE INFORMATION:

NAME _____
 ADDRESS _____

 FACILITY _____
 LOCATION _____

DATE: _____ TIME: _____
 DURATION: _____
 FLOW RATE: _____ VOLUME ESTIMATE _____
 DESCRIPTION: _____
 CAUSE: _____

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				No. Ex	Frequency of Analysis	SAMPLE TYPE
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
E. Coli MTEC-MF, #/100mL 31648 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		(13)		01/DS	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	#/100 ml		Once per Discharge	Grab
Flow, Total 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****		(03)	*****	*****	*****	****		01/DS	EST
	PERMIT REQUIREMENT	DISCHARGE PER DAY, Total			MGD	*****	*****	*****	****	Once per Discharge	Estimate
Nitrogen Ammonia Total (as NH4) 71845 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		(19)		01/DS	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	REPORT	mg/L		Once per Discharge	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
Name/Title Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.					Telephone			Date		
TYPED OR PRINTED						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MONTH

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

General Instructions

1. If for any reason, there is a discharge to a water body of the state, the permittee shall make immediate oral notification within 24-hours to the Division of Water Resources (division) and notify the division in writing within five working days of the discharge from the facility. In addition, the permittee shall keep a copy of the notification submitted to the division together with the NMP. The notification shall include the following information:
 - a. Description of the discharge: A description and cause of the discharge, including a description of the flow path to the receiving water body. Also, an estimation of the flow rate and volume discharged.
 - b. Time of the discharge: The period of discharge, including exact dates and times, and the anticipated time the discharge is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the discharge.
 - c. Cause of the discharge: If caused by a precipitation event(s), information from the onsite rain gauge concerning the size of the precipitation event must be provided.
2. Enter "Sample Measurement" data for each parameter under "Quantity" and "Quality" in units specified in permit. "Average" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "Monitoring Period"; "Maximum" and "Minimum" are normally extreme high and low measurements obtained during "Monitoring Period".
3. Where violations of permit requirements are reported, attach a brief explanation to describe cause and corrective actions taken, and reference each violation by date.
4. Enter "Name/Title of Principal Executive Officer" with "Signature of Principal Executive Officer or Authorized Agent", "Telephone Number", and "Date" at bottom of form.
5. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
6. More detailed instructions for use of this Discharge Report Form may be obtained from Office(s) specified in the permit.

Legal Notice

Penalties for violating the terms and conditions of a permit and/or the Water Quality Control Act are assessed on a case by case basis according to the actual or potential environmental harm that has resulted in each instance. The Water Quality Control Act authorizes the department to assess up to \$10,000.00 per day, per violation, according to those conditions.

APPENDIX C

Agreement for the Removal of Litter, Manure and/or Process Wastewater from an AFO

The conditions listed below help to protect water quality. These conditions apply to litter, manure and/or process wastewater removed from an AFO. This agreement is for (amount of waste removed, i.e. tons, gallons, etc.)

_____ of waste, removed on (date) _____, from the facility owned by _____ and located at _____.

- A. The litter, manure and/or process wastewater must be managed to ensure there is no discharge of litter, manure and/or process wastewater to surface or groundwater.
- B. When removed from the facility, litter, manure and/or process wastewater should be applied directly to the field or stockpiled and covered with plastic or stored in a building.
- C. Litter, manure and/or process wastewater must not be stockpiled near streams, sinkholes, wetlands or wells.
- D. Fields receiving litter, manure and/or process wastewater should be soil tested at least once every five years.
- E. A litter, manure and/or process wastewater nutrient analysis should be used to determine application rates for various crops.
- F. Calibrate spreading equipment and apply litter, manure and/or process wastewater uniformly.
- G. Apply no more nitrogen or phosphorus than can be used by the crop.
- H. A buffer zone is recommended between the application sites and adjacent streams, lakes, ponds, sinkholes and wells. The following non-application buffer widths, as recommended by the University of Tennessee Extension, should be used when applicable:

Object, Site	Buffer Width, feet	Situation
Wells	150	Up-slope of application site
	300	Down-slope of application site, if conditions warrant application
Waterbody	30-100	Depending on the amount and quality of vegetation and slope
Public Use Area	300	All
Residences	300	Other than producer

- I. Do not apply litter, manure and/or process wastewater when the ground is frozen or on steep slopes subject to flooding, erosion, during rain events, or onto saturated soil, or rapid runoff.
- J. Cover vehicles hauling litter, manure and/or process wastewater on public roads.
- K. Keep records of locations where poultry litter will be used as a fertilizer.

I, _____ am the person receiving litter, manure, and/or process wastewater and do understand the conditions listed above.

(signature)

(date)

(address)

(phone)

APPENDIX D

Names of Persons and/or Firms That Remove Litter, Manure and/or Process Wastewater from a CAFO

(Name of CAFO)

Name: _____

Address: _____

Phone No.: _____

Tons

Removed: _____

Date: _____

Name: _____

Address: _____

Phone No.: _____

Tons

Removed: _____

Date: _____

Name: _____

Address: _____

Phone No.: _____

Tons

Removed: _____

Date: _____

Name: _____

Address: _____

Phone No.: _____

Tons

Removed: _____

Date: _____

Name: _____

Address: _____

Phone No.: _____

Tons

Removed: _____

Date: _____

Name: _____

Address: _____

Phone No.: _____

Tons

Removed: _____

Date: _____

Name: _____

Address: _____

Phone No.: _____

Tons

Removed: _____

Date: _____

Name: _____

Address: _____

Phone No.: _____

Tons

Removed: _____

Date: _____