



Animal Feeding Operations Program Overview

May 17, 2017

Department of Environmental Quality



Animal Feeding Operations

- Regulatory Timeline
- What is regulated?
- How is it regulated?
- What is required?
- How do we check?
- What changes are expected?

Timeline

- 1993 – Registration
- 1995 – Senate Bill 1217
- 1997 – Swine Moratorium, Siting Act, Permits first issued
- 2003 – CAFO Rule
- 2006 – 15A NCAC 02T Rules
- 2007 – Swine Moratorium made permanent
Performance Standards for New/Expanding Swine Farms

G.S. 143-215.10B

- 250 or more Swine
- 100 or more confined cattle
- 75 or more horses
- 30,000 or more poultry with a liquid waste management system

- Deemed Permitted Facilities
 - Below threshold
 - Other Op Types

Permitting

- State Permits – 2,295 total
- Federal Clean Water Act Permits – 9 total
 - National Pollutant Discharge Elimination System
 - Facilities that discharge
- General Permits
 - Classes of facilities with same essential design
- Individual Permits
 - Facilities with unique treatment systems
 - Unique permit requirements

Permit Requirements

- NO DISCHARGE
- Certified Animal Waste Management Plan
 - Crops, Soils, Application Windows
 - Setbacks, Application Rate, Nutrient Limits
- Weather Related Conditions
- Setbacks
- Notification
- Record Keeping

Permit Requirements

Record Keeping

- Types of Records
 - Permanent
 - Annual
 - Operational
 - Other
- Organized, available
- Records Retention

Permit Requirements

Record Keeping – Permanent Records

- Permit/Certificate of Coverage
- Certified Animal Waste Management Plan
- Design documents and maps
- Certified Operator
- Emergency Plan
- Mortality Management Plan
- Checklists

Permit Requirements

Record Keeping – Annual Records

- Sludge Survey
- Crop Yield Records
- Calibration of Waste Application Equipment

Permit Requirements

Record Keeping – Operational Records

- Rainfall Records
- Freeboard Records
- Irrigation Records
 - Weather Conditions
 - Nutrient Loading
- Waste Analysis
- Soils Analysis
- Stocking and Mortality

Permit Requirements

Record Keeping – Other Records

- Previous Inspections
- NOVs and responses
- Plans of Action (POAs)
- Waste Transfers Offsite
- Spills: Responses; samples; public notices
- Monitoring
- Corrective Actions
- Temporary Amendments

Inspections

- Inspection Types
 - Routine Compliance Inspections – at least once per year
 - Complaints
 - Structural Checks
- Records Review
- Facility Site Walk-Through
- Exit Discussion
- Follow-up

Inspections

Facility Site

- Lagoon
 - Freeboard
 - Embankment Condition
- Sprayfield
 - Crops and condition
 - Valves/Hydrants
 - Uniformity
- Signs of Discharge
 - Field Edges
 - Ditches/Drain outlets
 - Barns – foundations, fans

Inspections

Exit Discussion and Follow-up

- Review Findings
 - Problems/Issues Observes
 - Discuss improvements and positives
 - Corrective Actions
- Provide copy of Inspection Report
- Discuss follow-up and timeframes
 - POAs, NOVs, follow-up inspections

Anticipated Changes

- Rules Update
 - Incorporate recent legislation
 - Remove obsolete language
- Waste to Energy systems
 - Covered lagoons
 - Digesters
 - Electric Generation
 - Directed Biogas
- New Farms? Expanding Farms?
- Swine Buy-out Program (100 Year Flood Plain) ?

Thank You



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