

Michigan's Concentrated Animal Feeding Operation (CAFO) Program



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What is going on?

- **ECOS Agreement for Existing CAFOs**
- **Newly Constructed CAFO Permits**
- **Proposed CAFO revisions to Part 21**

ECOS Regulatory Innovation Agreement January 2002

- **NPDES CAFO General Permit
1,000 AUs and discharge**
- **MAEAP/Permit Option
1,000 AUs and no discharge**
- **Proactive Inspections**
- **Compliance and Enforcement of water
quality violations - all AFO's**

Duty to Apply for NPDES CAFO Permit

All existing large CAFOs that have had or have a regulated discharge are required by DEQ to obtain coverage under the CAFO General Permit

What is a Discharge?

- A discharge is a release of nutrients, pathogens, manure, or polluted storm water into a water of the state
- Surface waters include: *county drains, ditches, creeks, rivers, wetlands, lakes and ponds*

Storage Structure Failure





**Silage
Pad
Runoff**

Stream Damage from Silage Leachate Runoff



Milkhouse Waste Discharge to stream



Polluted Water due to Field Tile Discharge



Winter Runoff of Manure



MAEAP/Permit Option

- CAFOs that have *NOT* had a regulated discharge are required by DEQ via the Final Determination and Notice to:
 - File application for coverage under CAFO General Permit
 - or
 - Submit Letter of Intent to become MAEAP Verified

Proactive Farm Inspections

- **ProActive Inspections**
 - **DEQ to conduct at large CAFOs**
 - **DEQ to make Determination**
 - **Does facility have 1,000 AUs or more?**
and
 - **Is there evidence of a regulated discharge?**

Compliance and Enforcement

- **DEQ Compliance and Enforcement Program at farm operations with discharge**
 - **Stop discharge**
 - **When appropriate, require Certified CNMP to prevent future discharge**

Important Dates

- **September 1, 2005**
 - All CAFOs to either have applied for permit coverage -or- submit Letter of Intent
- **September 1, 2006**
 - All CAFOs CNMPs must be complete
- **December 31, 2007**
 - ECOS Agreement expires
 - **General permit expires**

ECOS Regulatory Innovation Agreement Status

- **To Date:**
 - **34 facilities required to obtain permit coverage**
 - **80 proactive inspections completed**
 - **90 Letter of Intent received**

New Large CAFOs



New Large CAFOs

- **As of February 27, 2004, New Large CAFOs are required to apply for permit**
 - **General permit**
 - **Individual permit**
 - **2x size of large CAFO; or**
 - **3.5x size of large CAFO over 5-yr period;**
 - **and**
 - **Open air storage structures or land applied liquid manure**

**Proposed State Part 21
Rule Revisions
for
Concentrated Animal
Feeding Operations**

Thresholds for Large

Animal Type	Threshold
Mature Dairy Cows	700
Veal Calves	1,000
Beef Cattle or Heifers	1,000
Swine	2,500 (55 lbs or more) 10,000 (under 55 lbs)
Horses	500
Sheep or Lambs	10,000
Turkeys	55,000
Chickens, liquid manure	30,000
Chickens, other than liquid manure	125,000 (not laying hens) 82,000 (laying hens)
Ducks	5,000 (liquid manure) 30,000 (other than liquid manure)

Michigan Specific

- Proper storage and containment
 - NRCS standards
 - Minimum 6-month storage
- Proper land applications
 - Annual spreading plans
 - Precautions for fields that are tilled
 - Restrictions on winter spreading
 - Manifest tracking of manure sold or given away

Schedule for Permit Application

- Newly Constructed CAFOs
 - 180 Days prior to commencing operation
- AFOs that become CAFOs after Sept. 1, 2005
 - 90 days after becoming CAFO
- Existing CAFOs that missed Sept 1, 2005 deadline
 - Sept. 2, 2005
- Newly covered CAFOs
 - Sept. 2, 2005
- Existing CAFOs with equivalent document
 - July 1, 2007
- Existing CAFOs currently under general permit
 - July 1, 2007

Questions ?