

## Regulatory Issues

- State environmental regulatory agency
  - Missouri Department of Natural Resources
  - Water Pollution Control Branch
- Regulatory threshold: 700 dairy animals
  - Required to obtain a permit from MDNR.
- Direct discharge into a stream
  - Regardless of size, regulatory action for a direct discharge (pipe or manmade conveyance).

## Regulatory Issues

- Concentrated Animal Feeding Operation
   Nutrient Management Technical Standard,
   March 2009
  - Contains the requirements to qualify for the agriculture storm water exemption for the land application fields.
  - Summary of set back distances for the nutrient application.
  - Considered Best Management Practices for land application for non-CAFOs.

- Number and size of animals
  - Regulatory threshold, 700 Dairy Cows
- Percent of manure that will be managed
  - Manure nutrient credit on the grazing area
  - Locations for nutrient application
  - Manure storage system
    - Volume
    - Consistency

## Technical Issues Milk Center wastewater and manure management - Flush system Scrape system • Winter management area Storm water management - Location, location, location!!

- Storage Structures
  - 180 day storage recommended
  - Liquids
    - Earthen Pits
    - Concrete Tanks or pits
    - Treatment Lagoons (typically anaerobic)
  - Solids
    - Settling Basins
    - Separating devices screens, wedge wire, etc.
    - Stacking Structure solids storage

- Water Usage
  - Recycle system from liquid storage
  - Plate cooler water reuse
  - Minimize parlor floor and storm water input
- Curbing
  - Push curbs minimum 24 inches tall
  - Side curbs minimum 8 inches tall, flushed area may need to be taller.

- Manure and Wastewater Transfer
  - Consider potential for future additions
  - Adequately sized pipeline knowledgeable person with pumps and piping
  - Layout concrete lanes for scraping or flushing
    - Minimize corners!
    - Adequate curb height
    - Appropriate slope
  - Land Application System

- Promote agricultural production and forest management
- To optimize environmental benefits
- Authorized in 08 Farm Bill
- Producer must apply VOLUNTARY!
- Competitive application process No Guarantee of participation.

Eligible producer – person or entity engaged in livestock or crop or forest production

Eligible land – privately-owned cropland or grassland or pastureland or nonindustrial private forestland

## **Environmental Quality** Incentives Program (EQIP) Waste Management Systems Manure collection, transport and storage - Milking Center wastewater and manure Prescribed Grazing System

- Comprehensive Nutrient Management Plan
  - Comply with regulatory requirements
     contained in Nutrient Management Technical
     Standard.

- Technical Service Providers (TSP)
  - Private consultants performing activities that comply with NRCS standards and programs
  - Certain EQIP activities are performed only by TSP
    - CNMP plans
    - Energy Audits

Contact your local NRCS Office

- phone book under United States Government, Department of Agriculture
- Missouri NRCS webpage

www.mo.nrcs.usda.gov/programs

# Environmental Quality Incentives Program (EQIP) • NRCS information on social media

- Visit <u>www.twitter.com</u> and search for NRCS\_Missouri.
- There is a direct link from the Missouri
   NRCS website to Twitter
- Followers will receive timely updates

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