

NR 151: Runoff Management & Land Application Impacts

Spring Biosolids Symposium
March 17, 2015

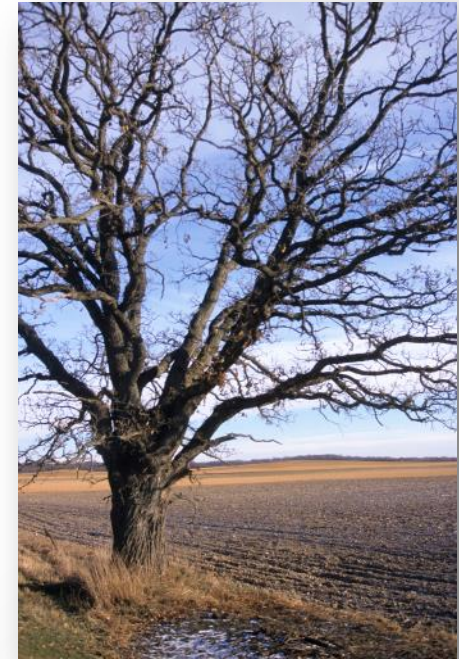


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NPS Program History

- Federal
 - 1977: Clean Water Act, Amendment
 - Need for planning to address critical problems from NPS pollution

- Wisconsin
 - 1978: NPS program created
 - 1979 – 2009: Priority Watershed Program
 - 1999: Targeted Runoff Management Program
 - 2002: Runoff Rules (NR 151) promulgated



Livestock Performance Standards



- Manure storage facilities
 - Designed, operated and maintained to prevent failure and comply with groundwater standards
- Process wastewater handling
 - No significant discharges to waters of the state
- Clean water diversions
 - Divert runoff away from feedlots, barnyards and stored manure in WQMAs

Manure Management Prohibitions

- No overflow of manure storage facilities
- No unconfined manure pile in a water quality management area
- No direct runoff from a feedlot or stored manure to waters of the state
- No unlimited access by livestock to waters of the state

Cropland Performance Standards

- Sheet, rill and wind erosion
 - Cropland and pastures meet tolerable soil loss (T)
- Tillage setback
 - No tillage within 5 feet of the bank of surface waters (up to 20 feet)
- Phosphorus index
 - Meet PI requirements through NM planning to control phosphorus runoff
- Nutrient management
 - Develop and follow a NM plan tracking land applied nutrients

Where could there be overlap?

Storage



Land Application

Storage

- Commingled = manure
- Storage needs to be operated and maintained properly
 - Comply with groundwater standards
 - Minimize risk of failure
 - Margin of safety/no overflows



Land Application

Nutrient Management

- Farmer needs to account for all nutrients applied to the field
 - May impact the amount of manure or commercial fertilizers that can be applied
- Co-mingled material must follow manure application requirements



How to help?

- Storage
 - Does the facility have enough capacity?
(particularly during winter months)
 - Is the storage designed, maintained, operated properly?
 - Is the storage idle? Who will be responsible for ensuring the structure is maintained and monitored to prevent discharges?



How to help...

- Land Application
 - Provide copies of the nutrient content of the material so it can be incorporated into the NMP
 - Check to see if the field has already received applications of other materials this growing season



Notes on working with CAFOs

- WPDES permit requirements
- Require DNR approval before accepting other materials
 - Storage
 - Land application
- May require public notice of nutrient management plan modifications
 - Takes time



Other Considerations

- Cost-share funded practices
 - Additional conditions or restrictions associated with local, state or federal money
- Dairy license requirements
 - May have restrictions on the ability to accept certain wastes
- Local regulations
 - County or town regulations



Questions



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