



# Precipitation Challenges with Animal Agriculture Facilities in Indiana

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# Elements of Indiana's CFO Program to Meet Precipitation Challenges

- •Indiana Ag Stormwater Exemption Statute
- •Frozen or Snow-covered Ground Emergency Application Regulatory Allowance
- Wet Weather Conditions Guidance





#### **Frozen or Snow Covered Ground**

- •Frozen and snow covered ground is ground that manure cannot be injected into. The soil or manure cannot be incorporated into the soil on the same day.
- •CFOs may land on frozen or snow-covered ground if an emergency exists.
  - •Emergencies are:
    - Natural disaster;
    - Extreme weather conditions;
    - Equipment failure; or
    - Structural failure.

# Frozen or Snow Covered Ground (cont'd)

- Operator must notify IDEM CFO program prior to application.
- Operator must provide the following information:
  - CFO's owner's Name
  - Facility name
  - Facility identification number
  - Reason for the Emergency application
  - Estimated number of gallons of manure to be applied
  - The location of the application field
  - Land application requirements

# Frozen or Snow Covered Ground (cont'd)

- •No application on slope greater than 2% unless 40% crop residue.
- No application in flood plain.
- Setback 200 feet from surface water.
- Apply manure 50% of agronomic rate.
- •Manure at unregulated farms or marketed and distributed manures (M&D).
- •Regulated under the State Chemist rules.

# Frozen and Snow Covered Ground (cont'd)

- •Allows application on frozen or snow covered ground.
- •If M&D from regulated CFO, manure must be applied by certified applicator.
- •Do not apply within 200 feet of surface water.
- •50% of agronomic rate.
- •Application on slope not grater than 2% unless there is 40% crop residue or a vegetative cover crop.

#### **Wet Weather Conditions**

- •Purpose to provide options during adverse weather conditions that limit storage or application of manure.
- Contact IDEM CFO Compliance inspector.
- Discuss options for alternative storage capacity.
- Storage capacity at other locations.
- Potential M&D locations.
- •Emergency storage options: lagoon or manure containment.

#### Wet Weather Conditions Cont'd

- •Facility must provide:
  - Owner/operator name;
  - Facility name;
  - Facility Identification number;
  - Emergency measure to be taken;
  - Description of emergency measure; and
  - •Provide an estimate volume manure to be managed.
- Most common request is to construct a berm or emergency lagoon.

# Wet Weather Conditions (cont'd)

- •Lagoons must be constructed in an area that has soils that do not exceed permeability of 1 in./hour.
  - •County Survey Maps available through USDA's Soil Survey website: websoilsurvey.sc.egov.usda.gov/App/HomePage.htm
- •Alternative synthetic or compacted clay liner may be used.
- Must meet all regulatory setbacks.
- •May not remain in use longer that 90 days after the emergency.
- Must meet closure standards for lagoon closures in regulations.





#### For More Information



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