## MINNESOTA COMPOST RULES

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#### Current Rule

- Backyard, exempt
- Yard Waste, permit by rule
- Solid Waste Compost Facility, full permit

### Proposed Rule

- Small Facilities
- Yard waste
- Source separated organics
- Solid waste (MSW)

#### Small Facilities

- Food scraps, garden waste, non-recyclable paper, weeds, lawn cuttings, leaves and prunings;
- no meat, fats, oil, grease, dairy, manures, sanitary products, ASTM D6400 or ASTM D6868
- 80 cubic yard maximum (excluding finished compost)
- Managed to prevent odors, nuisance conditions and public health risks

### Yard Waste Compost Facility

- Requires period turning
  - Aerate
  - Maintain temperatures
  - Reduce pathogens
- Less than 3 percent inerts, < 4mm
- Control run-off/run-on
- Testing of finished product not required
- Unlimited use of finished product
- Annual report

### Solid Waste Compost Facility

- MSW feedstocks
- Controlled access points
- Training plan
- Designated delivery area
- 10-7 pad for tipping/mixing/active compost area/ curing area
- Leachate/storm water management systems
- Salvageable/recyclable materials properly stored and removed weekly
- Residuals properly stored and removed weekly
- Meet PFRP
  - Windrows: 21 days at 55° C, turn every 3-5 days
  - Static aerated pile: 7 days at 55° C
  - In-vessel: 3 days at 55° C

## Source-separated Organics (SSO) Materials Definition

- New facility that can accept
  - Yard waste
  - Wood waste
  - Food waste
  - Industrial/manufacturing food residual human food production
  - No fish waste, animal waste, meat by-products generated from industrial sources, sanitary products, diapers, sewage sludge, biosolids, septage

#### SSO Compost Facility Pad Requirements

- Pad: Hard packed all weather surface
  - 5′ to water table
  - Any combination of the following soils:
    - Sandy clay loam, loam, silt loam, silt, sandy clay loam, clay, silty clay
  - Pad: 1' low permability soils
    - < 5′ from water table</p>
    - Low permeability soils meeting MNDOT specs for surface aggregate
    - Other: concrete, asphalt or geomembrane

## SSO Compost Facility Operations

- Focus on management plan:
  - Waste analysis plan to characterize SSO
  - Odor prevention
  - Contact water = water in contact with raw feed stocks or material that has not met PFRP
  - Storm water/surface water = water from all other areas of the compost facility
  - Storm water management plan
    - 24 hour 25 year event
  - Curing area = Solvita test maturity index of 5 on the ammonia; 4 on the CO<sub>2</sub>
  - Plan to reduce vectors and nuisance conditions

#### SSO Compost Facility Training

#### Each employee:

- Training plan
  - 24 contact hours of training within 12 months of employment, then every 5 years
  - 5 contact hours every year
  - Course list approved by the Commissioner

Contact hour = 50 minutes

#### Finished Compost Testing

- Testing required
  - 503 metals test
  - **■** pH
  - Particle size
  - NPK
  - Soluble salts
  - Maturity some flexibility
  - Fecal coliform, E. coli
  - PCB & mercury (exemption after 5 years of ND)
- Class I: ≤ 503 metals standards
- □ Class II: ≥ 503 metals standards.

# THANK YOU FOR YOUR ATTENTION

