

## GOLDEN SANDS DAIRY, LLC

### **GOLDEN SANDS DAIRY, LLC Manure Management Plan Winter Spreading Plan**

Golden Sands Dairy, LLC., is submitting this winter spreading plan to address the requirements of NR-243.14 as they pertain to the winter spreading of manure generated at the dairy facility.

Manure types that would qualify for normal winter field application would be solid manure and frozen liquid manure that cannot be processed through the manure system.

All surface applied manure to frozen or snow covered ground will comply with spreading restrictions and application setbacks in NR-243 and Table 4 (solid manure) and Table 5 (frozen liquid manure). Solid manure will not be surface-applied during February and March on frozen snow covered ground, except for the five day monthly allowance for emergency situations.

The following restrictions will be followed when applying solid manure:

- Fields will be fall chisel plowed with cover crop planted
- Fields with 0-6% slope will be targeted
- Manure application rates will be limited to 60 lbs. P2O5 - not to exceed the fertilized crop nutrient need.
- No applications within a SWQMA
- Setbacks include
  - 200 feet for channelized flow, buffers, and wetlands
  - 300 feet for direct conduits to ground water

The following restrictions will be followed if applying frozen liquid manure:

- Fields will be fall chisel plowed with cover crop planted
- Fields with 2% slope or less will be targeted
- Manure applications will be limited to 7,000 gallons per acre, not to exceed 60 lbs. P2O5, or the fertilized crop needs.
- No applications within a SWQMA
- Setbacks include
  - 200 feet for channelized flow, buffers, and wetlands
  - 300 feet for direct conduits to ground water
- Surface applications in February and March, in excess of five days per month, will be approved by department personnel.
- Department of Natural Resource Contact Personnel
  - Terry Kafka
  - 5301 Rib Mountain Drive
  - Wausau, WI 54401
  - 715-355-1363
  - Terence.kafka@wisconsin.gov

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Field Phosphorus Index values for the farm fields included in the Manure Management Plan are exceptional low. 100 % of the fields are expected to have a P I of less than 2 for the 2013 – 2017 cropping rotation. The Acute Winter Loss Index value for any field receiving manure is expected to be well below the value limit of 4. Snap Plus calculations will be made for all fields receiving winter applications to ensure that the Acute Winter Loss Index is less than 4.

### LIST OF FIELDS SUITABLE FOR WINTER APPLICATIONS

<b>FIELD #</b>	<b>SOIL TYPE</b>	<b>ACRES</b>	<b>CROP</b>
<b>PC- 16</b>	<b>PfA</b>	<b>64.26</b>	<b>Corn silage</b>
<b>PC-21</b>	<b>PfA</b>	<b>114.35</b>	<b>Corn silage</b>
<b>PC- 22</b>	<b>PfA</b>	<b>68.59</b>	<b>Corn silage</b>
<b>PC-25</b>	<b>PfA</b>	<b>87.24</b>	<b>Corn silage</b>

Fields will be inspected once they are put into production and prior to any manure applications.

Restriction maps included in the Manure Management Plan adequately show the restriction and hazard areas of the crop fields. All restricted SWQMA's are identified. Prior to manure applications, fields will be inspected to ensure all restrictions have been identified.

Weather conditions and possible storm events within the field application time frame will be monitored by local weather up dates and online weather services.

### Emergency Surface Applications of Liquid Manure

In the event that Golden Sands Dairy has an emergency situation that requires the surface application of liquid manure on frozen and snow covered ground all application restrictions and setbacks in NR-243.15 and table 5 will be followed.

- Fields will be fall chisel plowed with cover crop planted
- Fields with 2% slope or less will be targeted
- Manure applications will be limited to 7,000 gallons per acre on fields with 0-2 % slope and 3,500 gallons per acre on fields with 2-6 % slope, not to exceed 60 lbs. P<sub>2</sub>O<sub>5</sub>, or the fertilized crop needs.
- No applications within a SWQMA
- Setbacks include
  - 200 feet for channelized flow, buffers, and wetlands
  - 300 feet for direct conduits to ground water

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Appropriate reporting and notification requirements will be followed to ensure that Department personnel are notified and aware of the situation.

- Department of Natural Resource Contact Personnel  
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5301 Rib Mountain Drive  
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Fields will be assessed using Snap Plus calculations to ensure that the nutrient limits are not exceeded and the Acute Winter Loss Index will not exceed the value of 4.

**LIST OF FIELDS SUITABLE FOR EMERGENCY LIQUID APPLICATIONS**

<b>FIELD #</b>	<b>SOIL TYPE</b>	<b>ACRES</b>	<b>CROP</b>
PC- 16	PfA	64.26	Corn silage
PC-21	PfA	114.35	Corn silage
PC- 22	PfA	68.59	Corn silage
PC-25	PfA	87.24	Corn silage

Fields will be inspected once they are put into production and prior to any manure applications.

Weather situations will be monitored to avoid weather conditions that would lead to potential runoff situations.

Fields will be monitored during and after application for runoff conditions.