

Permit Fact Sheet

General Information

Permit Number	WI-0059021-05-0
Permittee Name and Address	Cottonwood Dairy LLC 9600 Hwy D, South Wayne, WI 53587
Permitted Facility Name and Address	Main Farm: 9600 County Rd D, South Wayne Calf Farm: 7513 Walnut Road, Gratiot
Permit Term	June 01, 2026 to May 31, 2031
Receiving Water	Cherry Creek in Lower East Branch Pecatonica Rivers Watershed of Sugar - Pecatonica River Basin in Lafayette County
Discharge Type	Existing, Continuous

Animal Units					
	Current AU		Proposed AU (Note: If all zeroes, expansions are not expected during permit term)		
	Mixed	Individual	Mixed	Individual	Date of Proposed Expansion
Animal Type					
Dairy Calves (under 400 lbs.)	91	0	0	0	
Milking and Dry Cows	2782	2841	0	0	
Total	2873	2841	0	0	

Facility Description

Cottonwood Dairy LLC is an existing Concentrated Animal Feeding Operation (CAFO). Cottonwood Dairy LLC is owned and operated by Jim Winn, Brian, Larson, and Randy Larson. The farm consists of two sites, the Main Farm located at 9600 County Road D in South Wayne and the Calf Farm located at 7513 Walnut Road in Gratiot. The Main Farm includes 3 freestall barns, a milking parlor, a special needs barn, sand separation system, three manure storages, and a feed storage area with an associated runoff control system. The Calf Farm includes a barn and a calf hutch area.

Cottonwood Dairy currently has 2873 animal units (1987 milking and dry cows and 454 calves) and has no plans for expansion during the permit term. The farm has a total of 3535 acres available for land application of manure and process wastewater. Of this acreage, 895 acres are owned, and 2679 acres are controlled through lease agreements.

Substantial Compliance Determination

Enforcement During Last Permit: The farm had no enforcement actions taken in the last permit term. The facility has completed all previously required actions as part of the permitting and/or enforcement process.

After a desk top review of all compliance schedule items and pertinent documents, and a site visit on June 24, 2024, this facility has been found to be in substantial compliance with their current permit.

Sample Point Descriptions

Sample Point Designation For Animal Waste	
Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
001	WSF 1: Sample point 001 is for liquid waste storage facility 1 located near the southeast corner of the main farm. WSF 1 is a concrete storage with a capacity of 2,728,417 gallons and was relined in 2021 with department review and approval. This storage accepts manure and process wastewater from the entire main farm. WSF 1 was reconstructed in 2021 and met permit requirements.
003	Special Needs Barn 003: This solids sample point serves the Special Needs Barn at the Main Farm. This building generates solid bedpack manure that is stored on a concrete pad outside the barn. The solid storage facility was constructed in 2017 with approval from the department.
004	Headland Stacking Sites 004: Sample point 004 is for solid manure land applied from approved headland stacking sites. Stacks are defined as part of the production area and therefore subject to the production area discharge limitations section of this permit. Quarterly inspections while stacks are present are required and shall be recorded according to monitoring program.
005	Feed Storage Area & Runoff Control System: Sample point 005 is for visual monitoring and inspection of the feed storage area and associated runoff control system located at the main farm. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program.
006	Sand Settling Lanes 006: This sample point includes any sand that is collected from the concrete sand settling lanes and the concrete sand drying and storage areas at the Main Farm. This would only be used in the event that landspreading was needed and the sand would be sampled and land applied as a solid manure.
007	Miscellaneous Solid Manure 007: Sample point 007 is for solid manure sources at the main farm that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.
008	Solid Manure - Calf Facility 008: Sample point 008 is for solid manure generated and temporarily stored in the calf barn and the calf hutches located at 7513 Walnut Street, Gratiot, WI. There is a concrete manure stacking area in the east end of the barn. The calf hutch area was constructed in 2015 with department approval.
009	Feedlot Runoff - Calf Facility. This sample point is for the feedlot runoff control system for the calf hutches at the Calf Facility located at 7513 Walnut Road, Gratiot, WI. The runoff control system was upgraded in 2015 and with DNR approval.
010	WSF 2: Sample point 010 is for liquid waste storage facility 2 located near the southeast corner of the main farm, immediately north of WSF 1. WSF 2 is a concrete lined waste storage with a capacity of 11,131,004 gallons. The storage was reconstructed in 2025 with department approval. This storage

Sample Point Designation For Animal Waste	
Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
	accepts liquid overflow from WSF 1.
011	WSF 3: Sample point 011 is for liquid waste storage facility 3 located near the east side of the main farm. WSF 3 is a concrete storage with a capacity of 11,595,000 gallons. This storage accepts liquid overflow from WSF 1 and WSF 2. WSF 3 was constructed in 2017 with department and approval.
012	Storm Water Runoff Control Systems: Sample point 012 is for visual monitoring and inspection of all production site storm water conveyance systems. This includes roof gutter and downspout structures, drainage tile systems, vegetated treatment areas, grassed waterways and other diversion systems that transport uncontaminated storm water. Proper operation and maintenance is required to keep uncontaminated runoff diverted away from manure and process wastewater handling systems. Weekly inspections are required and shall be recorded according to monitoring program.

Permit Requirements

1 Livestock Operations - Proposed Operation and Management

Production Area Discharge Limitations

Beginning on the effective date of the permit, the permittee may not discharge pollutants from the operation's production area (e.g., manure storage areas, outdoor animal lots, composting and leachate containment systems, milking center wastewater treatment/containment systems, raw material storage areas) to navigable waters, except in the event a 25-year, 24-hour rainfall event (or greater) causes the discharge from a structure which is properly designed and maintained to contain a 25-year, 24-hour rainfall event for this location as determined under s. NR 243.04. If an allowable discharge occurs from the production area, state water quality standards may not be exceeded.

Runoff Control

The permit requires control of contaminated runoff from all elements of the production area to prevent a discharge of pollutants to navigable waters in accordance with the Production Area Discharge Limitations and to comply with surface water quality standards and groundwater standards. Beginning on the effective date of this permit, (if needed) interim measures shall be implemented to prevent discharges of pollutants to navigable waters. In addition, permanent runoff control system(s) shall be designed, operated and maintained in accordance with the requirements found in USDA Natural Resources Conservation Service standards and ch. NR 243, Wis. Adm. Code. If any upgrading or modifications to runoff controls are necessary, formal engineering plans and specifications must be submitted to the Department for approval.

Manure and Process Wastewater Storage

The permit requires the operation to have adequate storage for manure and process wastewater and that storage or containment facilities are designed, operated and maintained to prevent overflows and discharges to waters of the state. In order to prevent overflows, the permittee must maintain levels of materials in liquid storage or containment facilities at or below certain levels including a one foot margin of safety that can never be exceeded. If any upgrading or modifications to the storage facilities are necessary, formal engineering plans and specifications must be submitted to the Department for approval.

The permittee currently has approximately 245 days of storage for liquid manure. The permittee must maintain 180 days of storage, unless temporary reductions in required storage are approved by the Department.

Solid Manure Stacking

The operation has proposed to stack solid manure. All stacking of solid manure shall be done in accordance ch. NR 243, Wis. Adm. Code, which includes restrictions from NRCS Standard 313. Stacking of manure is considered to be part of the production area and is subject to the Production Area Discharge Limitations.

Ancillary Service and Storage Areas

The permittee shall take preventative maintenance actions and conduct visual inspections to minimize pollutant discharges from areas of the operation that are not part of the production area or land application areas. These areas are called ancillary service and storage areas and include access roads, shipping and receiving areas, maintenance areas, refuse piles and CAFO outdoor vegetated areas.

Nutrient Management

With 2873 animal units, it is estimated that approximately 30,125,576 gallons of manure and process wastewater will be produced per year. The permittee owns *approximately* 895 acres of cropland and rents about 2679 acres. Given the rotation commonly used by the permittee, 3574 acres are available (or open) to receive manure and process wastewater on an annual basis. The permit requires all landspreading of manure and process wastewater be completed in accordance with an approved nutrient management plan. The permit will require sampling and analysis of manure and process wastewater that will be landspread. Landspreading rates must be adjusted based on sample analysis. The permit requires the permittee to maintain a daily log that documents landspreading activities. The permit also requires the submittal of an annual report that summarizes all landspreading activities. Plans must be updated annually to reflect cropping plans and other operational changes. Among the requirements, the plans must include detailed landspreading information including field by field nutrient budgets.

The permittee is required to implement a number of practices to address potential water quality impacts associated with the land application of manure and process wastewater. Among the permit conditions are restrictions on manure ponding, restrictions on runoff of manure and process wastewater from cropped fields, and setbacks from wells and direct conduits to groundwater (e.g., sinkholes, fractured bedrock at the surface). In addition, the permittee must implement a phosphorus based nutrient management plan that addresses phosphorus delivery to surface waters by basing manure and process wastewater applications on soil test phosphorus levels or the Wisconsin Phosphorus index. Additional phosphorus application restrictions apply to fields that are high in soil test phosphorus (>100 ppm).

The permittee must also implement conservation practices when applying manure near navigable waters and their conduits, referred to as the Surface Water Quality Management Area (SWQMA). These practices include a 100-foot setback from navigable waters and their conduits, a 35-foot vegetated buffer adjacent to the navigable water or conduit, or a practice that provides equivalent pollutant reductions equivalent to or better than the 100-foot setback.

In addition, the permittee must comply with restrictions on land application of manure and process wastewater on frozen or snow-covered ground. Included in these restrictions is a prohibition on surface applications of solid manure ($\geq 12\%$ solids) on frozen or snow-covered ground during February and March. Non-emergency surface applications of liquid manure (<12%) on frozen or snow-covered ground are prohibited.

Monitoring and Sampling Requirements

The permittee must submit a monitoring and inspection program that outlines how the permittee will conduct self-inspections to determine compliance with permit conditions. These self-inspections include visual inspections of water lines, diversion devices, storage and containment structures and other parts of the production area. The permit requires periodic inspections and calibrations of landspreading equipment. The permittee must take corrective actions to problems identified inspections or otherwise notify the Department. Samples of manure, process wastewater and soils receiving land applied materials from the operation must also be collected and analyzed.

Sampling Points

The permit identifies the different sources of land applied materials (e.g., manure storage facilities, milking centers, egg-washing facilities) as "Sampling Points." For these Sampling Points, the permittee is required to sample and analyze the

different sources for nutrients and other parameters which serve as the basis for determining rates of application for these materials. Other areas are also identified as Sampling Points as a means of identifying them as areas requiring action by the permittee, such as an upgrade or evaluation of a certain system or structure (e.g., runoff control systems), even though sampling is not actually required.

1.1 Sample Point Number: 001- WSF 1; 010- WSF 2; 011- WSF 3

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Nitrogen, Total		lb/1000gal	2/Month	Grab	
Nitrogen, Available		lb/1000gal	2/Month	Calculated	
Phosphorus, Total		lb/1000gal	2/Month	Grab	
Phosphorus, Available		lb/1000gal	2/Month	Calculated	
Solids, Total		Percent	2/Month	Grab	

1.1.1 Changes from Previous Permit

Sample points 010 (WSF 2) and 011 (WSF 3) were previously included in the description of sample point 001 but are now independent sample points to accurately reflect nutrient differences among WSFs. Descriptions were updated to better reflect the current operation of the facility.

1.1.2 Explanation of Operation and Management Requirements

Liquid manure and process wastewater sources must be properly stored and land applied according to the permit and nutrient management plan. Liquid manure storage structures shall be inspected according to the operation’s monitoring and inspection program. Inspection findings shall be submitted to the department annually on January 31.

1.2 Sample Point Number: 003- Special Needs Barn - Main Farm; 004- Headland Stacking Sites; 006- Sand Settling Lanes - Main; 007- Misc. Solid Manure; 008- Solid Manure - Calf Facility

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Nitrogen, Total		lbs/ton	Quarterly	Grab	
Nitrogen, Available		lbs/ton	Quarterly	Calculated	
Phosphorus, Total		lbs/ton	Quarterly	Grab	
Phosphorus, Available		lbs/ton	Quarterly	Calculated	
Solids, Total		Percent	Quarterly	Grab	

1.2.1 Changes from Previous Permit

Sample points 003-Special Needs Barn – Main Farm; 004-Headland Stacking Sites; 006-Sand Settling Lanes – Main; 007-Misc. Solid Manure; and 008-Solid Manure – Calf Facility were edited to include a more accurate description.

1.2.2 Explanation of Operation and Management Requirements

Solid manure is required to be sampled once per quarter that land application occurs. Samples are to be analyzed for the parameters listed in the table above. Land application shall occur in accordance with the operation’s approved nutrient management plan. Solid manure storage structures shall be inspected according to the operation’s monitoring and inspection program. Inspection findings shall be submitted to the department annually on January 31.

1.3 Sample Point Number: 005- Feed Storage - Main Farm; 009- Feedlot Runoff - Calf Facility, and 012- Storm Water Runoff Control

1.3.1 Changes from Previous Permit

Sample points 005-Feed Storage – Main Farm and 009-Feedlot Runoff – Calf Facility were edited to include a more accurate description.

Sample point 012 – Storm Water Runoff Control was added for storm water runoff control systems to account for monitoring and inspection requirements.

1.3.2 Explanation of Operation and Management Requirements

There is no required nutrient sampling for the runoff control sample points. Rather, weekly or quarterly inspections are required and shall be recorded according to the monitoring plan and submitted with the Annual Report.

2 Schedules

2.1 Emergency Response Plan

Required Action	Due Date
Develop Emergency Response Plan: Develop a written Emergency Response Plan within 30 days of permit coverage, available to the Department upon request.	07/01/2026

2.2 Explanation of Schedules

An emergency response plan is required to be developed per s. NR 243.13(6)(a) Wis. Admin. Code.

2.3 Monitoring & Inspection Program

Required Action	Due Date
Proposed Monitoring and Inspection Program: Consistent with the Monitoring and Sampling Requirements subsection, the permittee shall submit a proposed monitoring and inspection program	07/01/2026

within 30 days of the effective date of this permit.	
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2.4 Explanation of Schedules

A monitoring and inspection program is required to be submitted per s. NR 243.19(1) Wis. Admin. Code.

2.5 Annual Reports

Submit Annual Reports by January 31st of each year in accordance with the Annual Reports subsection in Standard Requirements.

Required Action	Due Date
Submit Annual Report #1: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2027
Submit Annual Report #2: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2028
Submit Annual Report #3: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2029
Submit Annual Report #4: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2030
Submit Annual Report #5: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2031
Ongoing Annual Reports: Continue to submit Annual Reports until permit reissuance has been completed.	

2.6 Explanation of Schedules

Annual reports are required to be submitted per s. NR 243.19(3) Wis. Admin. Code.

2.7 Nutrient Management Plan

Submit annual nutrient management plan (NMP) updates by March 31 of each year. Note, in addition to annual NMP updates, submit NMP amendments and substantial revisions to the department for written approval prior to implementation of any changes to the NMP.

Required Action	Due Date
Management Plan Submittal: Submit any necessary updates to the Nutrient Management Plan to meet the conditions outlined in this permit (see conditions in the Livestock Operational and Sampling Requirements section).	03/31/2027
Submit NMP Update #1: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2028
Submit NMP Update #2: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2029

Submit NMP Update #3: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2030
Submit NMP Update #4: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2031
Submit NMP Update #5: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2032
Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed.	

2.8 Explanation of Schedules

Nutrient management plan updates are required to be submitted per s. NR 243.19(3)Wis. Admin. Code.

2.9 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	01/01/2031

2.10 Explanation of Schedules

A permit reissuance application is required per s. NR 243.12(1)(d) Wis. Admin. Code.

Attachments

Nutrient Management Plan Conditional Approval Letter

Days of Storage No Further Actions Letter

Justification Of Any Waivers from Permit Application Requirements

No waivers requested or granted as part of this permit reissuance

Prepared By: Josie Borgrud Agricultural Runoff Management Specialist

Date: 4/17/2026



September 18th, 2024

Lafayette County
Approval

James Winn
Cottonwood Dairy LLC
9600 Hwy D
South Wayne, WI 53587

SUBJECT: Conditional Approval of Cottonwood Dairy LLC Nutrient Management Plan, WPDES Permit No. 0059021-05-0

Dear Mr. James Winn:

After completing a review of Cottonwood Dairy LLC 2025-2029 Nutrient Management Plan (NMP) the Wisconsin Department of Natural Resources (Department) is providing conditional approval that it is consistent with Nutrient Management Requirements in s. NR 243, Wis. Adm. Code. This part of your WPDES permit application is now ready for the public notice and comment process as required by Ch. 283 Stats.

Before applying manure onto approved fields each season, the Department recommends Cottonwood Dairy LLC review the NMP with those individuals involved with manure applications to ensure all remain familiar with the approved manure spreading protocol, spreading maps, field and map verification, record keeping requirements, and all the conditions of this approval. Specifically, some fields in Cottonwood Dairy LLC may have:

- Soils that may have bedrock or groundwater within 24 inches of surface,
- Multiple setback areas due to streams, conduits to streams, grassed waterways, wetlands or wells, and
- Evidence of possible soil erosion/flow channels. Note: road ditches or other man-made channels may be considered flow channels or conduits to navigable water and may be subject to a SWQMA and setback.

Reviewing the NMP and checking fields for these features and soil conditions prior to manure applications will help Cottonwood Dairy LLC maintain compliance with their WPDES permit and Ch. NR 243 requirements.

FINDINGS OF FACT

The Department confirms that:

1. A current dairy herd size of 2,873 animal units (1,987 milking & dry cows, 454 calves). Currently there are no planned expansions in the next permit term.
2. Manure generation and spreading records indicate your herd will annually generate approximately 30,125,576 gallons of manure and process wastewater and 1,740 tons of solid manure in the first year of the permit term.
3. The use of application restriction options 1 and 5 within surface water quality management areas.
4. The use of phosphorus delivery method P Index.
5. That Cottonwood Dairy LLC currently has 3,574 acres (895 owned and 2,679 controlled through contracts, rental agreements or leases, or under manure agreements) of which 3,535 are spreadable acres.

6. That some fields included in the NMP are directly adjacent to or have high potential to deliver nutrients and sediment to Silver Springs Creek (listed 303(d) impaired water by ‘total phosphorus’ & ‘sediment/total suspended solids’), Feather Branch (listed 303(d) impaired water by ‘total phosphorus’), Unnamed WBIC 898900 & Cherry Branch (listed 303(d) impaired water by ‘sediment/total suspended solids’).
7. That no fields are directly adjacent to or have high potential to deliver nutrients and sediment to outstanding/exceptional waters.
8. That no fields are tiled.
9. That all fields will be checked for the following features prior to/during manure or process wastewater applications: soil areas with possible shallow groundwater (i.e., within 24 inches of surface) at the time of manure application; required setbacks associated with wells, navigable waters, conduits to navigable waters, grassed waterways, wetlands, possible soil erosion/flow channels.
10. That surface applications of manure will not be completed when precipitation capable of producing runoff is forecasted within 24 hours of the time of planned application.

CONDITIONAL NUTRIENT MANAGEMENT PLAN APPROVAL

The Department hereby approves the 2025-2029 Cottonwood Dairy LLC Nutrient Management Plan subject to the following conditions and the applicable requirements of Ch. NR 243, Wis. Adm. Code:

FIELD AND MANURE MANAGEMENT

1. Fields not included in the NMP and new fields shall not receive manure or process wastewater applications until they have been properly soil sampled, entered into Snap Plus, evaluated for their nutrient needs, and approved by the Department.
2. The following fields are prohibited from receiving applications of manure or process wastewater:

- D7 (expired soil test)	- F1 (expired soil test/insufficient sample density)	- H17 (expired soil test)
- KS5 (expired/insufficient sample density)	- L20 (expired soil test)	- OBN (expired soil test)
- R68 (insufficient sample density)	- RUE03 (>200 PPM Phos)	- SEF5A (expired soil test)
- SF1A (insufficient sample density)	- SM1 (insufficient soil sample density)	- WS10 (default soil test)
- WS11 (default soil test)	- WS12 (default soil test)	- WS14 (default soil test)
- WS15 (default soil test)	- WS16 (default soil test)	- WS19 (default soil test)
- WS20 (default soil test)	- WS21 (default soil test)	- WS22 (default soil test)
- WS23 (default soil test)	- WS5 (default soil test)	- WS6 (default soil test)
- WS7 (default soil test)	- WS9 (default soil test)	

The following fields are prohibited from receiving applications of manure or process wastewater where it is located within 1,000’ of a municipal well:

- | | | | |
|---------|-------|-------|-------|
| - C96 | - C97 | - B42 | - AB1 |
| - ENG 1 | | | |

If Cottonwood Dairy LLC wishes to use these fields for applications of manure or process wastewater all necessary information shall be submitted to the Department prior to application to demonstrate compliance

with NR 243 and other applicable codes. Written Department approval amending this condition approval must be received prior to application.

3. If existing fields yield a soil test results equal to or greater than 200 ppm P, those fields would be prohibited from receiving manure or process wastewater applications, unless you obtain Department approval in accordance with NR 243.14(5)(b)2., Wis. Adm. Code.
4. All liquid manure samples collected may be analyzed, at a minimum, for percent dry matter, total nitrogen, percent NH₄-N, percent NO₃-N, phosphorus, potassium, and sulfur.
5. If manure sample results have a dry matter (DM) content less than 2.0% and the percent ammonium (NH₄⁺) is greater than 75% of the total N, Cottonwood Dairy LLC may use the following equation to adjust the first year available nitrogen when applications are injected or incorporated within 1 hour:

$$\text{First-Year Available N} = \text{NH}_4\text{-N} + [0.25 \times (\text{Total N} - \text{NH}_4\text{-N})]$$

6. Cottonwood Dairy LLC shall record daily manure applications by using the ‘Daily Log’ generated by Snap Plus. These forms shall be retained at the farm and provided to the department upon request.
7. Cottonwood Dairy LLC shall annually submit a spreading report that summarizes the land application activities listed under NR 243.19(3)(c)5., Wis. Adm. Code by using ‘CAFO Annual Spreading Report’ generated by Snap Plus.

WINTER SPREADING

8. Liquid manure applications during winter conditions, as defined by NR 243.14(7), Wis. Adm. Code, are prohibited with the exception of emergency applications.
9. The following field(s) are approved for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:

- AB1	- B26	- L10
- KS5	- MC1	- MN1
- NR1	- NR2	- TS1
- TS2	- TS7	
10. Winter spreading of solid and liquid manure may not occur during the “high risk runoff period” pursuant to s. NR 243.14(6)(c) and NR 243.14(7)(c), respectively.
11. Winter applications of liquid manure shall only occur under emergency situations, after notifying the Department and receiving verbal approval.
12. Liquid applications shall be limited to 3,500 gallons per acre or 30 lbs. P per acre, whichever is less, on slopes 2-6% and 7,000 gallons per acre or 60 lbs. P per acre, whichever is less, on slopes 0-2%. Winter applications of solid manure shall be limited to 60 lbs. P per acre.

HEADLAND STACKING

13. The following headland stacking sites are approved for use with the following conditions:

- W12C-Site 1	- W12C-Site 2	- W12C-Site 3
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 - Approved for use 1 year out of 3.

- Can only be used to stack during February and March only.
- Sites 2 & 3 must have best management practices in place before stacking in form of a berm or dike.
- Stacking site size can not exceed 15,000 cubic feet.
- No more than two stacking sites per 40 acres.

MANURE & PROCESS WASTEWATER IRRIGATION

14. Irrigation of manure or process wastewater is prohibited.

SUBMITAL AND RECORDKEEPING REQUIREMENTS

15. A copy of this conditional approval shall be included in all future annual Nutrient Management Plan Updates in addition to the NR 243 and NRCS 590 checklists.

This conditional approval does not limit the Department's regulatory authority to require NMP revisions (based upon new information or manure irrigation research findings) or request additional information in order to confirm or ensure your farm operation remains in compliance with NR 243 and your WPDES permit conditions. If additional information, project changes or other circumstances indicate a possible need to modify this approval, the Department may ask you to provide further information relating to this activity.

Please keep in mind that approval by the Department of Natural Resources – Runoff Management Program does not relieve you of obligations to meet all other applicable federal, state or local permits, zoning and regulatory requirements.

If you have any questions regarding this approval, I can be reached at 608-212-8460 or Ashley.Scheel@Wisconsin.gov.

Sincerely,



Ashley Scheel, CCA
WDNR Nutrient Management Plan Reviewer
Wisconsin Department of Natural Resources

cc: Josie Hanrahan, WDNR Agricultural Runoff Specialist (Josie.Hanrahan@Wisconsin.gov)
Laura Bub, WDNR Watershed Field Supervisor (Laura.Bub@Wisconsin.gov)
Christopher Clayton, WDNR Runoff Management Section Chief (Christopherr.Clayton@Wisconsin.gov)
Aaron O'Rourke, WDNR Nutrient Management Program Coordinator (Aaron.Orourke@Wisconsin.gov)
Falon French, WDNR Intake Specialist (Falon.French@Wisconsin.gov)
Rob Davis, WDNR CAFO Engineer (Robert.Davis@Wisconsin.gov)
Erica Sauer, Lafayette County (Erica.Sauer@lafayettecountywi.org)
Nikki Wagner, Rock River Lab (Nikki_Wagner@Rockriverlab.com)
File



September 18, 2024

FILE REF: R-2024-0178
 WPDES Permit #: WI-0059021

James Winn
 Cottonwood Dairy LLC
 9600 County Road D
 South Wayne, WI 53587

Subject: Days of Storage Review for Cottonwood Dairy LLC in T02N, R05E, Section 19, Wiota Township, Lafayette County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. Winn:

This letter is to inform you that the Wisconsin Department of Natural Resources (Department) has completed its review of the calculation of days of storage submitted by Nikki Wagner, Rock River Laboratory, Inc. on July 6, 2024 with revisions received on September 16, 2024 on behalf of Cottonwood Dairy LLC.

The Department reviewed the submitted calculations in accordance with ss. NR 243.14(9) and NR 243.15(3)(i) to (k), Wis. Adm. Code. Under s. NR 243.17(3)(c), Wis. Adm. Code, the permittee shall demonstrate compliance with the 180-day design storage capacity requirement at specified times. For the following liquid manure storage calculations, the Department has determined **no additional actions** on your part are required.

Days of Available Liquid Waste Storage: The submitted information states that Cottonwood Dairy LLC has 245 days of liquid waste storage based on the volumes listed in the table below with respect to s. NR 243.15(3)(i) to (k), Wis. Adm. Code. The current number of animal units provided for the calculation is 2,873 (2,782 contribute to the liquid waste volume). There is currently no expansion proposed. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values and based upon a collection period of 365 days. The feed storage runoff volume is based on the assumption of full runoff collection from 124,550 sq. ft. of feed storage area. Days of storage calculations were reviewed and approved for DNR Project R-2022-0035 (runoff controls) and most of those calculations were used for this submittal. The only changes made were a slight increase in animal units which changed the manure and bedding volume as well as the parlor wastewater volume.

Waste Storage	Total Volume	Remaining Waste	25-yr, 24-hr Precipitation on Storage	25-yr, 24-hr Collected Runoff	Freeboard Volume	Max. Operating Level (MOL) Volume
#1	2,758,417	5,115	171,132	98,983	352,607	2,130,580
#2	12,450,000	739,174	410,675	55,980	873,776	10,370,395
#3	11,595,000	1,500,000	355,200	0	2,012,800	7,727,000
Total MOL Volume:						20,227,975
Days of Storage:						245

Manure and Bedding:	15,432,541 gallons
Parlor Wastewater:	6,011,550 gallons

Total Feed Storage Leachate:	112,200 gallons
Total Feed Storage Runoff Collected:	1,361,793 gallons
Net Precipitation on Storage Surfaces:	3,484,143 gallons
Total Sand Stacking Pad Runoff Collected:	418,977 gallons
Basin Run-On Areas:	236,959 gallons
Secondary Containment 25-yr Pumping:	3,067,413 gallons
Total Liquid Waste Stored Below the MOL:	30,125,576 gallons

Should you have any questions, please contact Rob Davis, DNR Madison office or your regional CAFO Specialist.

NOTICE OF APPEAL RIGHTS

If you believe that you have a right to challenge this decision, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to WIS. STAT. §§ 227.52 and 227.53, you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to WIS. STAT. § 227.42, you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with WIS. ADMIN. CODE § NR 2.05(5), and served on the Secretary in accordance with WIS. ADMIN. CODE § NR 2.03. The filing of a request for a contested case hearing does not extend the 30-day period for filing a petition for judicial review.

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES



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