

Permit Fact Sheet

General Information

Permit Number	WI-0066524-02-0
Permittee Name	Golden Ridge Dairy, LLC
Permitted Facility Name and Address	Golden Ridge Dairy, LLC W7419 E 18th Rd Crivitz
Permit Term	March 01, 2025 to February 28, 2030
Discharge Location	Golden Ridge Dairy, LLC W7419 E 18th Rd Crivitz
Receiving Water	North Branch Beaver Creek, Little Peshtigo River Watershed, and groundwaters of the state.
Discharge Type	Existing

Animal Units

Animal Type	Current AU		Proposed AU (Note: If all zeroes, expansions are not expected during permit term)		
	Mixed	Individual	Mixed	Individual	Date of Proposed Expansion
Dairy Calves (under 400 lbs.)	31	0	31	0	01/01/2026
Milking and Dry Cows	1145	1170	1285	1313	01/01/2026
Heifers (400 lbs. to 800 lbs.)	114	190	114	190	01/01/2026
Heifers (800 lbs. to 1200 lbs.)	293	266	293	266	01/01/2026
Total	1583	1170	1723	1313	

Facility Description

Brief Facility Description: Golden Ridge Dairy LLC is an existing Concentrated Animal Feeding Operation (CAFO) that is owned & operated by the Denowski Family. Golden Ridge Dairy LLC consists of one site that is located at W7419 East 18th Road, Crivitz, WI 54114. Golden Ridge Dairy LLC currently has 1583 animal units (818 milking & dry cows, 456 heifers, 157 calves) and is proposing to expand during the upcoming permit term to 1723 animal units (918 milking & dry cows, 456 heifers, 157 calves) by 2026. Golden Ridge Dairy LLC has total of 1803 acres available for land application of manure and process wastewater of which 1753 are spreadable. Of this acreage, 420 acres are owned, and 1382 acres are

controlled through contracts, rental agreements, or manure agreements. Based on current heard size Golden Ridge Dairy LLC has approximately 181 days of liquid manure storage and generates 10.5 million gallons of manure and process wastewater annually and 3055 tons of solid manure.

Substantial Compliance Determination

Enforcement During Last

In 2023 Golden Ridge Dairy LLC received a Notice of Noncompliance for failing to install calf hutch run off controls. The facility has completed all required actions as part of the enforcement process.

After a desk top review of all inspection records, land app reports, compliance schedule items, and a site visit on 9/27/2023, this facility has been found to be in substantial compliance with their current permit.

Compliance determination made by Makayla Jacobs, Agricultural Runoff Specialist on 12/10/2024.

Sample Point Designation For Animal Waste		
Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)	
001	Sample point 001 is for liquid manure applied from waste storage facility 1, the sand storage basin, located just south of free stall barns. It has a concrete-composite liner, and a maximum operating level volume of 2.2 million gallons. This storage accepts manure and process wastewater from adjacent animal housing and collected feed storage area runoff. It was constructed in 2002 and evaluated in 2022.	
002	Sample point 002 is for liquid manure applied from waste storage facility 2 located just south of WSF 1. It has a concrete-composite liner, and a maximum operating level volume of 3.9 million gallons. This storage accepts manure and process wastewater from WSF 1 by an overflow weir and wastewater from the milking parlor. The south basin was constructed in 2014 and evaluated in 2022	
003	Sample point 003 is for manure solids removed from bottom of liquid waste storage facility #1. This includes manure-laden sand solids, manure fiber solids, etc.	
004	Sample point 004 is for manure solids removed from bottom of liquid waste storage facility #2. This includes manure-laden sand solids, manure fiber solids, etc	
005	: Sample point 005 is for miscellaneous solid manure sources that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf hutch manure, maternity pen bed pack, calf barn manure, etc. Representative samples shall be taken for each manure source type.	
006	Sample point 006 is for solid manure stacked in approved headland stacking locations. Representative samples shall be taken of this manure prior to land application. Note: Headland stacking sites are subject to production site discharge limitations; weekly visual monitoring of runoff controls is required during use of stacking sites to ensure discharges meet permit requirements.	
007	Sample point 007 is for visual monitoring and inspection of the feed storage area and associated runoff control system. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. Feed storage area and runoff controls were last evaluated in 2021.	
008	Sample point 008 is for visual monitoring and inspection of the calf hutch area and associated runoff controls. Proper operation and maintenance is required to ensure discharges meet permit requirements.	

Sample Point Designation For Animal Waste	
Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
	Weekly inspections are required and shall be recorded according to monitoring program. Calf hutch runoff controls were installed in 2023.
009	Sample point 009 is for visual monitoring and inspection of all production site storm water conveyance systems. This includes roof gutter and downspout structures, drainage tile systems, 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.
011	Sample point 011 is for liquid manure applied from proposed waste storage facility 3, to be located just south of WSF 2. It will have a concrete liner, and a proposed maximum operating level volume of 3.6 million gallons. This storage will accept feed storage area runoff and manure from WSF 2 via a concrete overflow channel. Engineering plans for this facility were submitted to the department on 11/22/2024 and will need to be approved prior to construction.

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 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 submitted to the Department for approval.

The permittee currently has approximately 181 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.

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

Currently with 1583 animal units (818 milking & dry cows, 456 heifers, 157 calves) and proposing to expand during the upcoming permit term to 1723 animal units (918 milking & dry cows, 456 heifers, 157 calves), it is estimated that approximately 10.5 million gallons of manure and process wastewater annually and 3055 tons of solid manure during the first year of the permit. The permittee owns *approximately* 420 acres of cropland and controls about 1382 through contracts, rental agreements, or under manure agreements. Given the rotation commonly used by the permittee, 1753 acres are available (or open) to receive manure and process wastewater on an annual basis. The permit requires all land spreading 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 land spread. Land spreading rates must be adjusted based on sample analysis. The permit requires the permittee to maintain a daily log that documents land spreading activities. The permit also requires the submittal of an annual report that summarizes all land spreading activities. Plans must be updated annually to reflect cropping plans and other operational changes. Among the requirements, the plans must include detailed land spreading 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.

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 land spreading 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 (Liquids); 002- WSF 2 (Liquids), and 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 point language was updated to more accurately describe existing facilities. Sample point 011 was added to the permit to account for waste applied from a proposed waste storage structure.

1.1.2 Explanation of Operation and Management Requirements

Liquid manure & process wastewater must be properly stored and land applied according to the permit and nutrient management plan.

1.2 Sample Point Number: 003- WSF 1 (Solids); 004- WSF 2 (Solids); 005- Misc. Solid Manure; 006- Headland Stacking Solid Manure

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 point language was updated to more accurately describe existing facilities. Sample Point 010 was removed from the permit. Any waste previously covered by this sample point will now be accounted for under sample point 005.

1.2.2 Explanation of Operation and Management Requirements

Solid manure sources must be properly sampled and land applied according to the permit and nutrient management plan.

1.3 Sample Point Number: 007- Feed Storage & Runoff Controls; 008- Calf Hutch Area, and 009- Stormwater Runoff Controls

1.3.1 Changes from Previous Permit

Sample point language was updated to more accurately describe existing facilities.

1.3.2 Explanation of Operation and Management Requirements

Proper operation and maintenance is required to ensure unlawful discharges to waters of the state do not occur. Weekly or quarterly inspections are required and shall be recorded according to the monitoring plan.

2 Schedules

2.1 Emergency Response Plan

Required Action	Due Date
Develop Emergency Response Plan: Update the written Emergency Response Plan within 30 days of permit coverage and submit to the Department.	04/01/2025

2.2 Explanation of Schedules

Schedules consistent with permit requirements.

2.3 Monitoring & Inspection Program

Use of the department’s monitoring and inspection program template is encouraged, but optional.

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 within 60 days of the effective date of this permit.	05/01/2025

2.4 Explanation of Schedules

Schedules consistent with permit requirements.

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	01/31/2026
Submit Annual Report #2: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E	01/31/2027
Submit Annual Report #3: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E	01/31/2028
Submit Annual Report #4: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E	01/31/2029
Submit Annual Report #5: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E	01/31/2030
Ongoing Annual Reports: Continue to submit Annual Reports until permit reissuance has been completed.	

2.6 Explanation of Schedules

Schedules consistent with permit requirements.

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).	
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.	03/31/2025
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.	03/31/2026
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.	03/31/2027
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.	03/31/2028
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.	03/31/2029
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

Schedules consistent with permit requirements.

2.9 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	09/01/2029

2.10 Explanation of Schedules

Schedules consistent with permit requirements.

Other Comments

None

Attachments

Plan Approval Letter(s)

12/3/2024 Conditional NMP Approval Letter

12/9/2024 Days of Storage Review Letter

12/4/2024 Engineering Completeness Letter

10/13/2023 Compliance Inspection Report

Public Notice

Justification Of Any Waivers From Permit Application Requirements

N/A

Prepared By: Makayla Jacobs

Agricultural Runoff Management Specialist

Date: 12/10/2024



December 3, 2024

Chad Denowski
Golden Ridge Dairy, LLC
W7419 E 18th Road
Crivitz, WI 54114

SUBJECT: Conditional Approval of GOLDEN RIDGE DAIRY, LLC Nutrient Management Plan, WPDES Permit No. 0059439-05-0

Dear Chad Denowski:

After completing a review of GOLDEN RIDGE DAIRY, LLC 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 GOLDEN RIDGE 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 Golden Ridge 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 Golden Ridge 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 1583 animal units (818 milking & dry cows, 456 heifers, and 157 calves). A planned herd size of 1723 animal units (918 milking & dry cows, 456 heifers, and 157 calves) by 2026.
2. Manure generation and spreading records indicate your herd will annually generate approximately 10,476,651 gallons of manure and process wastewater and 3055 tons of solid manure in the first year of the permit term. It is anticipated by year 2026 that the farm would generate 12,475,836 gallons of manure and process wastewater, 2,411,828 gallons of feed leachate and runoff, and 914 tons of solid manure.
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 Golden Ridge Dairy, LLC currently has 1803 acres (420.5 owned and 1382.5 controlled through contracts, rental agreements or leases, or under manure agreements) of which 1753.3 are spreadable acres.

6. That no fields are directly adjacent to or have high potential to deliver nutrients and sediment to a 303(d) impaired water.
7. That some fields included in the NMP are directly adjacent to or have high potential to deliver nutrients and sediment to outstanding/exceptional waters including North Branch Beaver Creek, Iron Springs Creek.
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 Golden Ridge 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. 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.
3. 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.
4. 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, Golden Ridge Dairy, LLC may use the following equation to adjust the first year available nitrogen when applications are injected or incorporated within 1 hour:

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

5. Golden Ridge Dairy, LLC shall record daily manure applications by using form “Golden Ridge Daily Manure Application Records”. These forms shall be retained at the farm and provided to the department upon request.
6. Golden Ridge 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 form “CAFO Annual Spreading Report” as generated by SnapPlus.

WINTER SPREADING

7. Liquid manure applications during winter conditions, as defined by NR 243.14(7), Wis. Adm. Code, are prohibited with the exception of emergency applications.

8. The following field(s) are approved for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:
- 005 VICTOR
 - 015 HF
 - 020 MEYER SYL
 - 041 PATZ A
 - 047 PATZ G
 - 048 PATZ G
 - 056 A HF
 - 011 EUGENE A
 - 008 ED A
 - 009 BOB
 - 011 EUGENE B
 - 013 HF
 - 016 HF
 - 017N GODDARD
 - 017SE GODDARD
 - 018 MEYER SYL
 - 019 MEYER SYL
 - 021 MEYER SYL
 - 022 GRAY HOUSE
 - 023 WELDING
 - 024 WILTING
 - 027 RISNER
 - 028 SALESKY
 - 029 KEN
 - 030 KEN
 - 031 KEN
 - 033 RICH D
 - 034 RICH D
 - 035 RICH D
 - 036 RICH D
 - 037 DORTHY
 - 038 DORTHY
 - 039 DORTHY
 - 043 PATZ G
 - 044 PATZ G
 - 052 ROSNER
 - 053 ROSNER
 - 054 A TOWN
 - 057 A HF
 - 058 A CATHOUSE
 - 062 A CATHOUSE
 - 065 A WAGNER
 - 066 A HOUSE
 - 067 A HOUSE
 - 100 ZIEMER
 - 101 RICH D
 - 102 RICH D
 - 105 GROSS
 - 107 Gross
9. The following field(s) are denied for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure due to a lack of spreadable acres:
- 012 HF
 - 042 PATZ A
 - 050 ROSNER
 - 055N A TOWN
 - 064 A WAGNER
 - 104 RICH D
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

*Please be advised the farm has samples of manure that test in both categories of 16-32% solids and >32% solids. There are unique requirements for each range of solids. The farm is responsible for ensuring the stacking sites are compliant with the manure being stacked.

13. The following sites are approved for use with >32% solids with the following conditions.
- These sites can be utilized for stacking during the following months if the ground is not frozen or snow-covered: January, February, June-September, & December.
 - Sites can be used for 1 year out of every 2.
 - Maximum stacking period is 8 months and cannot exceed 40,000 cubic feet in size.
 - Due to percent slope of these sites which is up to 6%, no stacking of manure below 32% is approved. These sites are strictly for manure with solids content greater than 32% due to slope.
 - Field 016 HF Site 1
 - Field 016 HF Site 2

MANURE & PROCESS WASTEWATER IRRIGATION

14. Irrigation of manure or process wastewater is prohibited.

SUBMITAL AND RECORDKEEPING REQUIREMENTS

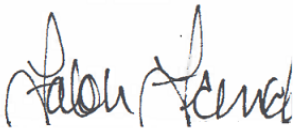
15. A copy of this conditional approval shall be included in all future annual Nutrient Management Plan Updates in addition to the NR 243 and NRCS 590 checklists.

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) 228-5265 or Falon.French@Wisconsin.gov.

Sincerely,



Falon French
WDNR CAFO Intake/Nutrient Management Specialist
Wisconsin Department of Natural Resources

cc: Makayla Jacobs, WDNR Agricultural Runoff Management Specialist (makayla.jacobs@wisconsin.gov)
Joe B Baeten, WDNR Agricultural Runoff Supervisor (Joseph.Baeten@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)
Ashley Scheel, WDNR CAFO Nutrient Management Plan Reviewer (Ashley.Scheel@Wisconsin.gov)
Tony Salituro, WDNR CAFO Review Engineer (Anthony.Salituro@Wisconsin.gov)
Sheri Denowski, Marinette County (Sheri.Denowski@marinettecounty.com)
Eric Paulson, United Cooperative (ericp@unitedcooperative.com)

File



December 9, 2024

FILE REF: R-2024-0285
 WPDES Permit #: WI-0066524

Chad Denowski
 Golden Ridge Dairy LLC
 W7419 E 18th Road
 Crivitz, WI 54114

Subject: Days of Storage Review for Golden Ridge Dairy LLC, NE¼ of T31N, R20E, Section 23 in Beaver Township, Marinette County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. Denowski:

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 under certification by Clark Fox, Outland Design on November 11, 2024 with revisions received on November 27, 2024 on behalf of Golden Ridge 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 Golden Ridge Dairy LLC has 181 days of liquid waste storage based on the volumes listed in the table below with respect to ss. NR 243.15(3)(i) to (k), Wis. Adm. Code. The current number of animal units provided for the calculation is 1,583. An expansion of the site to 1,723 animal units is proposed and will be reviewed as part of the plans and specifications submitted (R-2024-0285). The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values for a collection period of 365 days. All runoff, up to the 25yr - 24hr storm, is captured from the feed storage area and calf hutch area and transferred to permanent storage. All WSFs have concrete ramps and bottoms to remove remaining waste and have a solids storage amount of 0.

A contractual agreement with Van De Walle Dairy (WI-0063223) to allow Golden Ridge Dairy LLC to use up to 500,000 gallons of its liquid manure storage enables Golden Ridge Dairy LLC to meet its 180 day storage requirement. Van De Walle Dairy will still maintain 180 days of available liquid manure storage with the potential manure transfer.

Waste Storage	Total Vol. from Settled Top to Bottom	Solids Storage	25-yr, 24-hr Precip. on Storage	25-yr, 24-hr Collected Runoff	Freeboard Vol.	Max. Operating Level (MOL) Vol.
WSF1	2,995,240	0	96,266	410,456	279,784	2,208,734
WSF2	4,448,839	0	120,997	65,690	333,940	3,928,212
Agreement	500,000	-	-	-	-	500,000
Total MOL Vol:						6,636,946
Days of Storage:						181

Liquids Collected/Stored	Annual Gallons
Manure, Bedding, and Parlor Wastewater	9,686,880
Feed Storage Leachate	59,844
Feed Storage Runoff Collected	2,381,984
Feedlot Runoff	193,366
Net Precipitation on Storage Surfaces	1,096,559
TOTAL:	13,418,633

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

NOTICE OF APPEAL RIGHTS

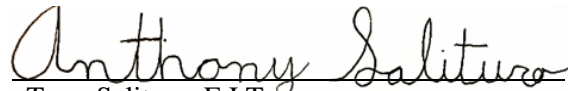
If you believe that you have a right to challenge this decision, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to WIS. STAT. §§ 227.52 and 227.53, 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



Bernie Michaud, P.E.
CAFO Engineer Supervisor
Watershed Management Program



Tony Salituro, E.I.T.
CAFO Review Engineer
Watershed Management Program

Email: Chad Denowski; Golden Ridge Dairy, LLC
(920) 591-0393; cdenowski@gmail.com

Clark Fox; Outland Design
(608) 960-7549; cfox@outland-design.com

Sheri Denowski; Marinette County LWCD
(715) 732-7783; Sheri.Denowski@marinettecounty.com

Matt Woodrow; DATCP
(920) 427-8505; matthew.woodrow@wisconsin.gov

Makayla Jacobs; DNR-Northeast Region
(920) 573-8033; makayla.jacobs@wisconsin.gov

Joe B Baeten; DNR-Northeast Region
(920) 366-2072; Joseph.Baeten@wisconsin.gov

Falon French; DNR-Central Office
(608) 228-5265; falon.french@wisconsin.gov

Anthony Salituro; DNR-Central Office
(608) 444-2869; anthony.salituro@wisconsin.gov

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
PO Box 7185
101 S. Webster St.
Madison WI 53707-7185

Tony Evers, Governor
Telephone 608-266-2621
FAX 608-267-3579
TTY Access via relay - 711



December 4, 2024

File Ref: R-2024-0285

Chad Denowski
Golden Ridge Dairy, LLC
W7419 E 18th Road
Crivitz, WI 54114

Subject: Completeness Determination Letter

The Wisconsin Department of Natural Resources (the Department) received a plan and specification submittal on behalf of Golden Ridge Dairy, LLC by Heidi Jeninga, Outland Design/Ruekert & Mielke on November 22, 2024 for facility expansion plan waste storage facility (waste storage, transfer pipe, runoff controls and days of storage), to be reviewed by the Department in accordance with s. 281.41 Wis Stats. A completeness review was conducted to determine if the submittal is complete. The submitted plans and specifications have been deemed complete. The complete date is set at November 22, 2024 and the 90 day due date is February 20, 2025.

In accordance with s. NR 243.15(1)(a) and s. NR 108.03(1), an owner or operator may not commence or cause to be commenced, construction of a proposed reviewable facility or system until plans and specifications have been approved by the department in writing. Also, s. NR 108.04(5) states, "The Department may not approve plans and specifications for any project for which construction has commenced. The department may review the plans and specifications and require changes to components which may adversely affect public health, the operation of the proposed or existing facility and the determination of permit compliance. This review does not prohibit the department from taking enforcement action under s. NR 108.03."

Please contact Anthony Salituro (contact information below) should you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Tabatha Davis'.

Tabatha Davis
Watershed Management Program

EC: Heidi Jeninga; Outland Design/Ruekert & Mielke
(608) 504-2407; hjeninga@ruekert-mielke.com

Sheri Denowski; Marinette County LWCD
(715) 732-7783; Sheri.Denowski@marinettecounty.com

Matt Woodrow, P.E.; DATCP
(920) 427-8505; matthew.woodrow@wisconsin.gov

Makayla Jacobs; DNR-Northeast Region
(920) 573-8033; makayla.jacobs@wisconsin.gov

Joe B Baeten; DNR-Northeast Region
(920) 366-2072; Joseph.Baeten@wisconsin.gov

Anthony Salituro; DNR-Central Office
(608) 444-2869; anthony.salituro@wisconsin.gov





10/13/2023

Chad Denowski
Golden Ridge Dairy LLC
W7419 E. 18th Road
Crivitz, WI 54114

WPDES Permit No. WI-0066524-01-0
Marinette County

**Subject: September 27, 2023 Compliance Inspection Report &
Notice of Noncompliance-Response Requested**

Dear Mr. Denowski:

On September 27, 2023 the Department of Natural Resources (department) conducted a production site inspection at Golden Ridge Dairy LLC, located at W7419 E. 18th Road Crivitz, WI, as part of the permit reissuance process. A site inspection report, including photographs of the site with an accompanying narrative, is enclosed for your review and convenience. Please also review the summary section on the last page of the report for a list of concerns & action items.

The department has reason to believe that Golden Ridge Dairy LLC is in noncompliance with its Wisconsin Pollutant Discharge Elimination System (WPDES) Permit #WI- 0066524-01-0 (Permit) that became effective on 10/1/2019:

- Permit Section 2.8 Calf Hutch Runoff Control System – Corrections & Post Construction Documentation
 - During the September 27, 2023 inspection, a discussion was had regarding the installation of runoff controls for the calf hutch area. Chad Denowski stated that the farm intended to install the runoff controls, but due to lack of funding for a feedpad runoff collection pit, the projects had been put on hold. He also stated that the runoff controls for the calf hutch area would be installed yet this fall, but was not sure how they were going to maintain the 180 Days of Storage Requirement without the leachate pit. Later in the inspection Hanson physically viewed and documented that runoff controls for the calf hutch area had not yet been installed.

The department also believes that when the runoff controls for the calf hutch area are installed, the farm will no longer be in compliance with permit section 1.3.4 – Liquid Manure 180 day storage. Conditional approval letter for runoff controls dated 10/12/2023 state the farm will only have 175 days of liquid storage once these runoff controls are installed.

In response to this letter, please submit the following information to the department by November 15th, 2023:

1. Submit a written response indicating the installation status of the calf hutch area runoff controls.
2. Submit a written response indicating how the farm proposes to maintain 180 days of storage and prevent applications of liquid manure during winter conditions once runoff controls are installed.

If you have any questions regarding this letter or your WPDES permit requirements, please contact me at 920-366-3302 or brian.hanson@wisconsin.gov.

Sincerely,

A handwritten signature in blue ink that reads "Brian Hanson". The signature is written in a cursive style.

Brian Hanson
Agricultural Runoff Management Specialist

Enc: 9/27/2023 Inspection Report
10/12/2023 Conditional Approval Letter

Electronic copy: Sheri Denowski -Marinette County LCD
Joe Baeten, Ben Uvaas - DNR
Eric Paulson– United Coop

CAFO Compliance Inspection Report



Inspection Date: 9/27/2023

Report Final Date: 10/13/2023

Operation Name: Golden Ridge Dairy LLC

WPDES Permit #: WI-0066524-01-0

Farm Address: **Golden Ridge Dairy LLC** - W7419 E. 18th Road , Crivitz, WI 54114

On-Site Representative(s): Chad Denowski

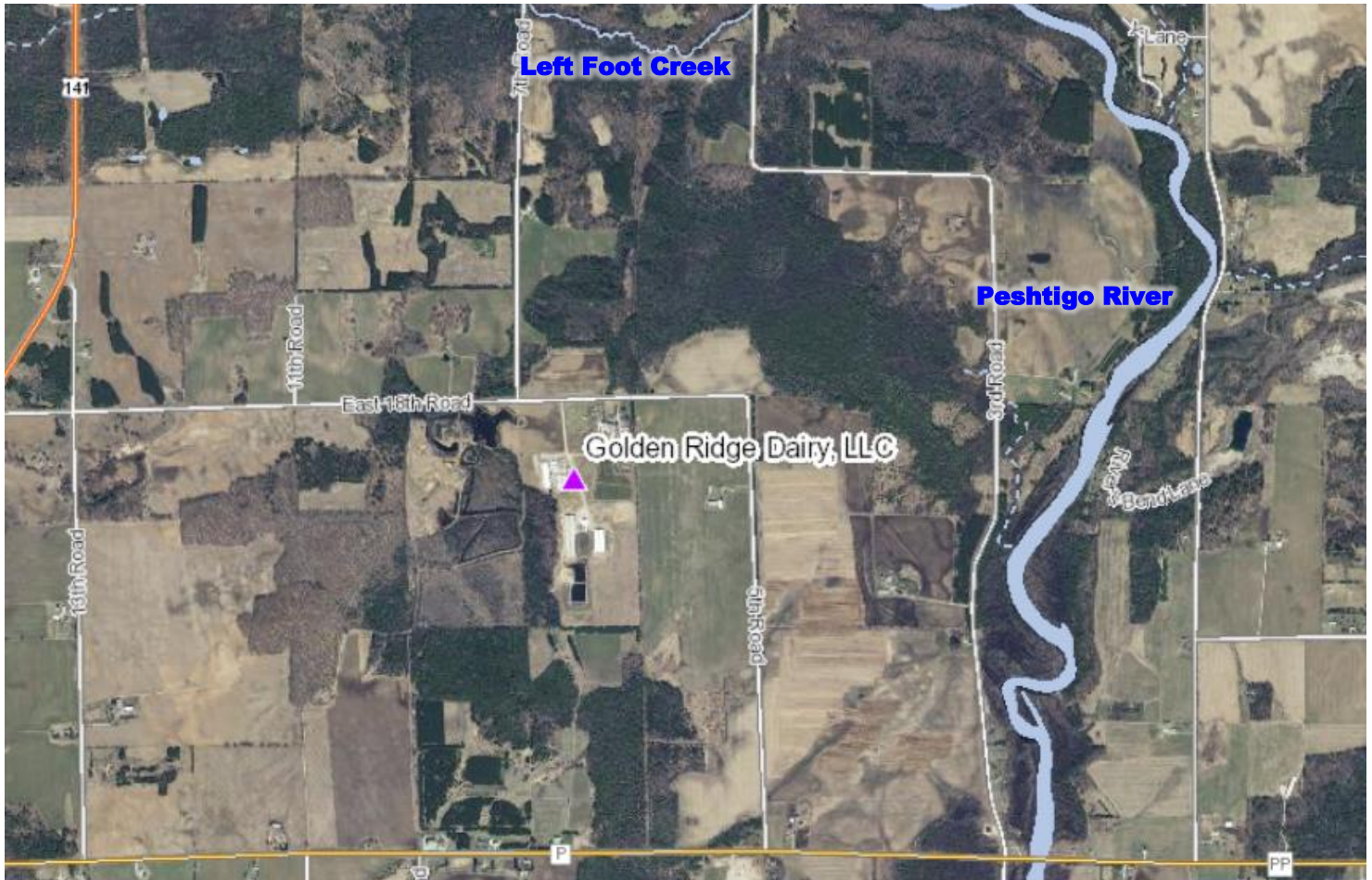
Report Author: Brian Hanson: DNR Agricultural Runoff Specialist

Other Participating Agencies: Eric Paulson, Kaitlyn Zahn, Jared Wait—United Coop

Introduction

On Wednesday September 27, 2027 Hanson met with Denowski, Paulson, Zahn & Wait at 12:00 at Golden Ridge Dairy LLC site to conduct a permit reissuance walkover inspection. Only the 1 production site was inspected. A trace amount of liquid precipitation had fallen recently and the temperature was in the 60's and cloudy. No permit discharges were observed, and no water samples were collected. Hanson departed at approximately 13.30

Site Overview Diagram (Golden Ridge Dairy LLC)



Site Overview Diagram (Golden Ridge Dairy LLC: orange lines =potential contaminated runoff flow paths, blue lines = stormwater flow paths, pink lines = waste transfer system , yellow circles = wells)



SITE OBSERVATIONS :

Feedlot Runoff

There are no outdoor feedlots located on the farm.

Calf Hutch Areas

There is 1 calf hutch area located on the farm at this time. This area is located to the east of the freestall barns. The existing calf hutch area was reduced in area to about 65,00 square feet in size, has a gravel base, and does not have engineered runoff controls. The farm has resubmitted submitted plans to the department which proposes to install an engineered runoff control system. The calf hutch area is well-maintained, in good repair and will be in compliance with permit requirements once the permanent runoff control system is installed.

Waste Storage Facilities

There are 2 liquid waste storage facilities located on the farm. They are as follows: WSF #1, also known as the sand pit, and WSF #2, also known as the liquid pit. These facilities are located on the south end of the freestall barns.

Manure in the freestall barns is scraped to a transfer system located near the center of each barn. From there the manure is pumped directly to WSF #1. WSF #1 is a concrete lined impoundment located south of the freestall barns that was constructed in 2002 & last evaluated in 2022. WSF #1 has an access ramp in the northwest corner to aid in the removal of sand laden manure and other solids. The feedpad runoff collection system also pumps directly to WSF #1. When WSF #1 nears it's maximum operating level, the manure flows into WSF #2 via a concrete overflow channel in the berm separating the two storages.

WSF #2 is a concrete lined impoundment located south of WSF #1 that was constructed in 2014 & last evaluated in 2022. This facility accepts manure from WSF #1 via concrete overflow channel. Wastewater from the parlor area gravity flows directly into WSF #2.

There are no permanent solid waste storages on the farm. There was previously a solid storage area used to store calf barn manure in the northeast corner of the farm near the calf barn. The farm has abandoned the use of this area and all solid manure is land applied, put in the liquid storages, or stored on the feedpad or at an approved headland stacking site.

At the time of inspection, both facilities were operating just below the maximum operating level. Denowski stated the manure haulers were scheduled to come start emptying in a few days. Liquid waste storage structures are well-maintained, in good repair, and in compliance with permit requirements. Liquid waste storage facilities have permanent markers installed. See photo log for details.

Process Wastewater (other than feed storage area leachate/runoff)

Milking parlor washwater at the dairy is collected and gravity flows directly to WSF #2 for long term storage.

Feed Storage Area Runoff

All feed storage areas and runoff controls are located at the Dairy Site. The feed storage area consists of a series of bunkers in the southeast corner with the remainder being a sloped pad. Surface drainage of leachate and runoff is directed to a centralized collection point at the southern edge of the feed storage area. A 40' x 40' x 8' deep reception tank collects & pumps this runoff to WSF #1. In conjunction with the collection tank, an earthen berm was installed along the south edge of the feedpad in order to collect the entire 25year/24 hour storm event.

The feed storage areas and runoff control systems are well-maintained, in good repair and in compliance with permit requirements.

Animal Mortality Disposal

Mortalities are moved to the side of the barn and picked up daily as needed by Circle R.

Ancillary Service Areas

Preventative maintenance actions and visual inspections are occurring to minimize pollutant discharges from ancillary service and storage areas (i.e. storm water conveyance systems, driveways, etc.). At the time of the inspection, all stormwater channels were well vegetated and other areas were free of manure & feed solids. Farm should continue to manage these areas to minimize the chance of runoff from the production area.

The farm does not have any CAFO outdoor vegetated areas described in their permit, but they are currently housing two horses on in a grass field near the northern end of the production area. This field was well vegetated and showed no signs of current or past discharges..

RECORDS REVIEW

The permittee has current WPDES Permit and Nutrient Management Plan onsite.

The permittee provided complete production site inspection records that are required to be retained. Daily Hauling logs, CAFO Calendar for required inspections and manure pit volume logs were all available for inspection.

The permittee provided adequate documentation that the facility has a minimum of 180 days of liquid manure storage capacity.

The permittee has copies of their emergency response and monitoring and inspection plans onsite.

The permittee is up to date on required reporting and actions as specified in the Schedules section of permit, except:.

- Still working through Schedule 2.8 for calf hutch runoff controls, Plans & Specs approved on 10/12/2023, but not yet installed.

Photo #:	8780
Date/Time of Photo:	9/27/2023 13:02
Photo By:	Brian Hanson
Photo Location:	Calf Barn



Photo Description:
Standing on the west side of calf barn looking east: View of inside the calf barn.

Photo #:	8787
Date/Time of Photo:	9/27/2023 13:12
Photo By:	Brian Hanson
Photo Location:	Calf Hutch Area



Photo Description:
Standing on the west side of calf hutch area looking east: View of center section of calf hutch area.

Photo #:	8789
Date/Time of Photo:	9/27/2023 13:12
Photo By:	Brian Hanson
Photo Location:	Calf Hutch Area



Photo Description:
Standing on the west side of the calf hutch area looking east: View of the south edge of the calf hutch area.

Photo #:	8786
Date/Time of Photo:	9/27/2023 13:12
Photo By:	Brian Hanson
Photo Location:	Calf Hutch Area



Photo Description:
Standing on the west side of the calf hutch area looking south: View of the west edge of the calf hutch area. Arrows indicate direction of runoff flow.

Photo #:	8711
Date/Time of Photo:	9/27/2023 12:37
Photo By:	Brian Hanson
Photo Location:	WSF #1
Photo Description:	Standing at the northwest corner of WSF #1 looking east: View of access ramp in northwest corner of WSF #1.



Photo #:	8714
Date/Time of Photo:	9/27/2023 12:38
Photo By:	Brian Hanson
Photo Location:	WSF #1
Photo Description:	Standing on west side of WSF #1 looking northeast: View of northern section of WSF #1.



Photo #:	8716
Date/Time of Photo:	9/27/2023 12:38
Photo By:	Brian Hanson
Photo Location:	WSF #1
Photo Description:	Standing on the west side of WSF #1 looking south east: View of southern section of WSF #1.



Photo #:	8720
Date/Time of Photo:	9/27/2023 12:39
Photo By:	Brian Hanson
Photo Location:	WSF #1
Photo Description:	Standing at southwest corner of WSF #1 looking east: View of south edge of WSF #1. Notice concrete overflow channel and orange paint line indicating maximum operating level.



Photo #:	8722
Date/Time of Photo:	9/27/2023 12:39
Photo By:	Brian Hanson
Photo Location:	WSF #2



Photo Description:
Standing at the northwest corner of WSF #2 looking southeast: View of northern section of WSF #2.

Photo #:	8727
Date/Time of Photo:	9/27/2023 12:39
Photo By:	Brian Hanson
Photo Location:	WSF #2



Photo Description:
Standing on the west side of WSF #2 looking east: View of northern edge of WSF #2 near access ramp.

Photo #:	8729
Date/Time of Photo:	9/27/2023 12:40
Photo By:	Brian Hanson
Photo Location:	WSF #2



Photo Description:
Standing on the west side of WSF #2 looking east: View of the southern section of WSF #2.

Photo #:	8732
Date/Time of Photo:	9/27/2023 12:47
Photo By:	Brian Hanson
Photo Location:	Feed Storage



Photo Description:
Standing on the south side of FSA looking northwest: View of south edge of FSA. Arrows indicate direction of runoff flow.

Photo #:	8734
Date/Time of Photo:	9/27/2023 12:47
Photo By:	Brian Hanson
Photo Location:	Feed Storage



Photo Description:
Standing on the south side of FSA looking northeast: View of southeast corner of FSA. Arrows indicate direction of runoff flow.

Photo #:	8745
Date/Time of Photo:	9/27/2023 12:50
Photo By:	Brian Hanson
Photo Location:	Feed Storage



Photo Description:
Standing on east side of FSA looking north: View of east edge of FSA.

Photo #:	8743
Date/Time of Photo:	9/27/2023 12:50
Photo By:	Brian Hanson
Photo Location:	Feed Storage
Photo Description:	Standing on east side of FSA looking west: View of center section of FSA on north end of bunkers.



Photo #:	8748
Date/Time of Photo:	9/27/2023 12:50
Photo By:	Brian Hanson
Photo Location:	Feed Storage
Photo Description:	Standing on the north side of the FSA looking west: View of north edge of FSA.



Photo #:	8757
Date/Time of Photo:	9/27/2023 12:52
Photo By:	Brian Hanson
Photo Location:	Feed Storage



Photo Description:
Standing on the west side of FSA looking south: View of west edge of FSA. Arrows indicate direction of runoff flow.

Photo #:	8761
Date/Time of Photo:	9/27/2023 12:53
Photo By:	Brian Hanson
Photo Location:	Feed Storage



Photo Description:
Standing on the west side of FSA looking south: View of west edge of FSA. Arrows indicate direction of runoff flow.

Photo #:	8763
Date/Time of Photo:	9/27/2023 12:53
Photo By:	Brian Hanson
Photo Location:	Feed Storage



Photo Description:
Standing on south side of FSA looking east: View of south edge of FSA near runoff collection tank.

Photo #:	8773
Date/Time of Photo:	9/27/2023 12:54
Photo By:	Brian Hanson
Photo Location:	Feed Storage Runoff



Photo Description:
Standing on south side of FSA looking west: View of runoff collection tank. Notice runoff flowing over the wall on north edge of tank.

Photo #:	8791
Date/Time of Photo:	9/27/2023 13:14
Photo By:	Brian Hanson
Photo Location:	Stormwater
Photo Description:	
Standing at the northeast corner of freestall barn looking south: View of stormwater channel on east side of freestall barn.	



Photo #:	8778
Date/Time of Photo:	9/27/2023 13:00
Photo By:	Brian Hanson
Photo Location:	CAFO Outdoor Vegetated Area
Photo Description:	
Standing at northeast corner of FSA looking south: View of horse pasture near the road. Green vegetated area is pasture. Unvegetated area in foreground in crop field.	



Photo #:	8707
Date/Time of Photo:	9/27/2023 12:10
Photo By:	Brian Hanson
Photo Location:	Farm Records

Photo Description:
Photo of paper CAFO Calendar used to record daily & weekly inspection.



Photo #:	8708
Date/Time of Photo:	9/27/2023 12:10
Photo By:	Brian Hanson
Photo Location:	Farm Records

Photo Description:
View of WPDES Permit found in office.

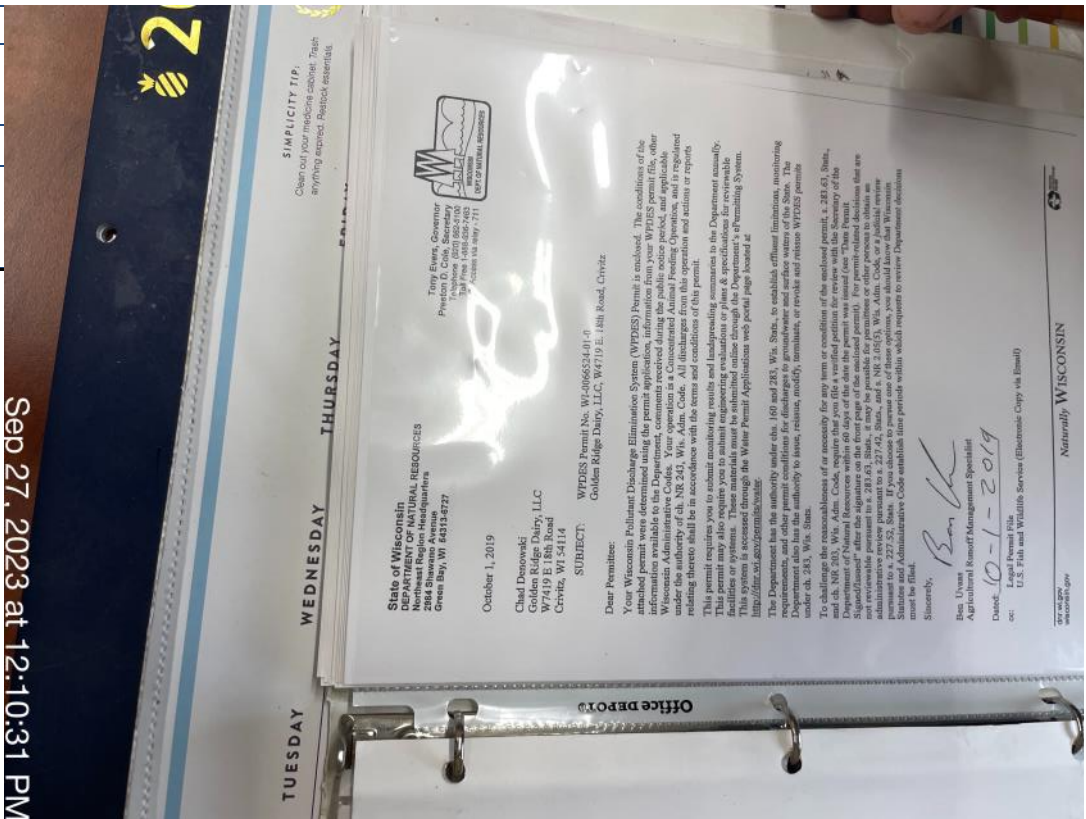


Photo #:	8709
Date/Time of Photo:	9/27/2023 12:34
Photo By:	Brian Hanson
Photo Location:	Well Locations
Photo Description:	
Standing at northwest corner of parlor looking north: View of water supply well identified as:	
ID: YN179	
Hi Cap 3780	



Photo #:	8710
Date/Time of Photo:	9/27/2023 12:34
Photo By:	Brian Hanson
Photo Location:	Well Locations
Photo Description:	
Standing on west side of parlor looking south: View of water supply well identified as:	
ID: YN180	
Hi Cap 3779	



Photo #:	8782
Date/Time of Photo:	9/27/2023 13:04
Photo By:	Brian Hanson
Photo Location:	Well Locations
Photo Description: Standing on the north side of the shop looking east: View of water supply well location. Well location highlighted.	



Photo #:	8783
Date/Time of Photo:	9/27/2023 13:04
Photo By:	Brian Hanson
Photo Location:	Well Locations
Photo Description: Standing northwest of shop looking northwest: View of water supply well location. Well location highlighted.	



SUMMARY:

Substantial Compliance

- The permittee is currently not in substantial compliance with the permit. Schedule 2.8 to install engineered runoff controls for the calf hutch area has yet to be completed.

Areas of Concern

- Farm is very close to only having 180 days of liquid storage. With the possible addition of more volume from the calf hutch area, the farm will decrease their days of storage even further. Multiple options to increase manure storage volume were discussed during the inspection.
- Vegetation along the top of Waste Storage Facilities has become overgrown and is encroaching into the facility. Remove of mow vegetation as needed.

Permit Violations

- Failure to adhere to schedule 2.8-Calf Hutch Runoff Control System. Corrections & Post Construction due date of 12/01/2020 has not been met.

Action Items

- Continue to work through & complete schedule items 2.8 of WPDES permit & maintain 180 days of storage.
- Submit permit reissuance application as required by WPDES permit schedule 2.5. Due date of 3/31/2024.

May Be Required in Next Permit Term

No specific requirements now, but will be reviewed after complete application is submitted and compliance status determination at time of permit reissuance.

Materials Required as part of the Permit Application

Required materials must be submitted together as a complete permit application through the ePermitting System: <http://dnr.wi.gov/permits/water/>. The system will not allow you to electronically sign and submit your application until all of the following are included:

- 3400-025 form (Livestock/Poultry Operation WPDES Permit Application)
- 3400-025A form (Animal Units Calculation Worksheet)
- 3400-025G form (Evaluated Facilities of Systems Checklist)
- 3400-025C form (Reviewable Facilities of Systems Checklist) A soil survey map of the dairy's production area
- A labeled aerial map showing the existing and proposed features and structures of the dairy's production area
- Calculations documenting days of liquid manure and process wastewater storage
- Supporting documentation for days of storage calculations
- A complete 5-year Nutrient Management Plan (NMP). If necessary, include a description of permanent spray irrigation systems and any other landspreading or treatment systems (proposed or active)
- Plans and specifications for any proposed facilities



October 12, 2023

FILE REF: R-2023-0195
WPDES Permit #: WI-0066524

Chad Denowski
Golden Ridge Dairy, LLC
W7419 E. 18th Road
Crivitz, WI 54114

Subject: Conditional Approval of Plans & Specifications for a calf hutch runoff control system at, Golden Ridge Dairy, LLC at SW¼ NE¼ of T31N, R20E, Section 23 in Beaver Township, Marinette County

Dear Mr. Denowski:

This letter is to inform you that the Wisconsin Department of Natural Resources (Department) has reviewed and conditionally approves the above referenced plans and specifications, submitted under certification by Bob Pofahl, P.E., Resource Engineering Associates and received on October 5, 2023. The review was conducted in accordance with s. 281.41, Wis. Stats., chs. NR 151 and NR 243, Wis. Adm. Code, and applicable NRCS Standards. The attached engineering report describes the project, lists standards that apply and provides compliance analysis. Questions may be directed to the assigned regional staff or the review engineer Tony Salituro (contact information is at the end of this letter).

Proposed Project: The proposed project includes the following facilities that are reviewable under s. NR 243.15, Wis. Adm. Code: A calf hutch lot runoff collection system with associated waste transfer pipeline. This project is a resubmittal of the previously approved calf hutch runoff control project (R-2021-0098) and since construction of that project did not commence within the 2 year approval period, the approval has lapsed. This current project is the same as the originally approved project. Construction of the calf hutch runoff controls will put the facility under 180 days of storage, but there are approved plans to put Golden Ridge Dairy LLC back above 180 days of storage (Project Ref: R-2022-0066).

Conditions of Approval: The plans and specifications for project number R-2023-0195 are hereby approved and subject to chs. NR 151 and NR 243, Wis. Adm. Code, and the conditions listed below:

1. **Revisions:** If revisions are made to the approved plans and specifications, revised plans and specifications shall be submitted for approval modification, in accordance with ss. NR 108.03 and NR 108.04, Wis. Adm. Code, and s. 281.41(1)(c), Wis. Stats. Submit revised plans and specifications via the Department's e-Permitting System. **Note:** This includes revisions for local permitting. If a formal approval modification may not be warranted, contact the review engineer to confirm.
2. **Approval Period:** In accordance with ss. NR 243.15(1)(a)1., and NR 108.04(2)d., Wis. Adm. Code, if construction is not commenced within 2 years from the approval date, the approval is void, and a new approval must be obtained prior to commencing construction.
3. **Notification:** Prior to construction and when construction is complete, notify the Department's regional contact and county contact provided a copy of the approval (contact information is at the end of this letter).
4. **Inspection:** During the construction of critical components, inspection shall be performed by a Wisconsin registered professional engineer or other qualified third party (excludes the owner and construction contractor and their employees).
5. **Post-Construction Documentation:** In accordance with the permit, a post-construction report must be submitted to the DNR's e-Permitting website (<http://dnr.wi.gov/permits/water>) within 60 days of completing construction. The report must include documentation specified by s. NR 243.15(10), Wis. Adm. Code.

Limitation of Approval: The Department reserves the right to order changes or additions should conditions arise making this necessary. This approval is not to be construed as a determination on the issuance of a Wisconsin Pollutant Discharge Elimination System Permit or opinion as to the ability of the proposed system to comply with effluent limitations in such a permit, approval of an Environmental Impact Statement that may be prepared, or approval for any activities requiring a permit under chs. 30 or 31, Wis. Stats. Where necessary, plans and specifications should be submitted to the Department of Safety and Professional Services or other state or local agencies to ensure conformance with applicable codes or regulations of such agencies.

Tax Treatment: Tangible personal property, that becomes part of a waste treatment of pollution abatement plant or equipment, may be exempt from sales tax under s. 77.45(26), Wis. Stats. Similarly, property purchased or constructed as a waste treatment facility and used for industrial waste treatment may be exempt from general property taxes under s. 70.11(21), Wis. Stats. A prerequisite to exemption is filing a statement on prescribed forms. To obtain the forms, and information about this sales tax exemption, please contact the Department of Revenue, P.O. Box 8933, Madison, WI 53708, or check their website <http://www.revenue.wi.gov/>.

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
For the Secretary



Bernie Michaud, P.E.
CAFO Engineer Supervisor
Watershed Management Program

Enclosures: Wisconsin DNR Engineering Report

<p>email: Chad Denowski; Golden Ridge Dairy, LLC (920) 591-0393; cdenowski@gmail.com</p> <p>Bob Pofahl; Resource Engineering Associates, Inc. (608) 819-2773; bob@reaeng.com</p> <p>Matt Woodrow; DATCP (920) 427-8505; matthew.woodrow@wisconsin.gov</p> <p>Sheri Denowski; Marinette County LWCD (715) 732-7783; Sheri.Denowski@marinettecounty.com</p>	<p>Brian Hanson; DNR-Northeast Region (920) 366-3302; brian.hanson@wisconsin.gov</p> <p>Joe B Baeten; DNR-Northeast Region (920) 366-2072; Joseph.Baeten@wisconsin.gov</p> <p>Anthony Salituro; DNR-Central Office (608) 444-2869; anthony.salituro@wisconsin.gov</p> <p>Aaron O'Rourke; DNR, Eau Claire (715) 839-3775; aaron.orourke@wisconsin.gov</p>
---	--

WISCONSIN DEPARTMENT OF NATURAL RESOURCES ENGINEERING REPORT**GENERAL INFORMATION****Farm Name:** Golden Ridge Dairy, LLC**WPDES Permit#:** WI-0066524**Location Address:** W7419 E. 18th Rd, Crivitz, WI**DNR Project #:** R-2023-0195**Engineering Plans Certified by:****Initial Submittal:****Revised Submittal(s):**

Bob Pofahl, P.E.

October 5, 2023

NA

Site Assessment: The mapped NRCS soil in the project area is Cunard loam. The nearest stream is approximately 1 mile to the south and the nearest wetland is approximately 1000 ft to the west of the proposed construction area. Clean runoff will be diverted around waste handling areas to existing waterways. No karst features are known to exist within 1,000 ft of the proposed facilities or systems. No ground water supply wells are located within 250 feet of the proposed facilities or systems.

Soil investigations were performed in April 2012 and May 2018 consisting of 6 test pits in the proposed project area, which found the primary subsoils consist of SM or SC soils over bedrock. Bedrock was found in all test pits and sub-surface saturation was found in 3 of the test pits but were at depths greater than the required separation distance.

Proposed Facilities:

Production Area Runoff Controls: The design is compliant with s. NR 243.15(2), Wis. Adm. Code. Below is a summary of what is proposed.

- The Calf Hutch area will be reduced in size to 175 ft wide by 285 ft long for an area of approximately 50,000 sq. ft. The area will be encircled by a 1.5 ft high earthen berm which will direct runoff to the proposed waste transfer system.

Waste Transfer System: The proposed design was submitted to meet with NRCS Standard 634 (1/14). The design is compliant with s. NR 243.15(4), Wis. Adm. Code.

- The runoff from the calf hutch lot area will flow to an 8-inch diam. hickenbottom inlet. This will drain into a 360 ft long, 8-inch diam. HDPE ADS N-12 gravity pipeline which will discharge into the existing manure transfer gutter in the East Freestall Barn. This in turn discharges into the existing Manure Storage #1. This system has the capacity to convey the 25-yr, 24-hr runoff event.

DAYS OF AVAILABLE LIQUID WASTE STORAGE: Submitted information provided in the plans states that Golden Ridge Dairy, LLC will have **231** days of liquid waste storage with respect to s. NR 243.15(3)(i) to (k), Wis. Adm. Code. However, these calculations are accounting for the construction of a feed storage only storage (Project Ref: R-2022-0066). The construction of the storage has not completed as of October 12, 2023, and the number of days of storage without this storage is **175** days of liquid waste storage. The current number of animal units provided for the calculation is 1,397. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values for a collection period of 365 days. Calculations below include all existing feed storage area runoff, up to the 25yr – 24hr storm, to account for what calculations will be prior to construction of the proposed storage.

Waste Storage	Total Vol. from Settled Top to Bottom	Solids Storage	25-yr, 24-hr Precip. on Storage	25-yr, 24-hr Collected Runoff	Freeboard Vol.	Max. Operating Level (MOL) Vol.
#1	2,995,240	0	86,165	80,210	279,784	2,549,081
#2	4,448,839	0	108,031	410,450 ⁽¹⁾	333,940	3,596,418
Total MOL Vol:						6,145,499
Days of Storage:						175

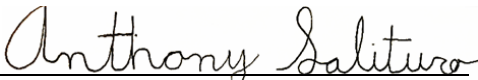
⁽¹⁾Existing feed storage area 25yr – 24hr runoff. Will be removed from WSF2 once process wastewater only storage is fully constructed and captures runoff.

Liquids Collected/Stored	Annual Gallons
Manure and Bedding	7,851,973
Parlor Wastewater	1,177,125
Feed Storage Leachate ⁽²⁾	59,840
Feed Storage Runoff Collected ⁽²⁾	2,381,991
Feedlot Runoff	236,100
Net Precipitation on Storage Surfaces	1,100,443
TOTAL:	12,807,472

⁽²⁾16,000 tons of stored feed | 100% collection. Existing asphalt pad: 144,950 ft² , RCN: 98| Concrete bunkers: 11,550 ft² , RCN: 98| Gravel Drive Run-on: 4,400 ft² , RCN: 96| Grass Hillside Run-on: 33,840 ft² , RCN: 74| Reception Tank Open Area: 1,600 ft² , RCN: 98 | Total Area: 196,340 ft² | Composite CN: 94

PURPOSE OF THIS REPORT: This report documents review of plans and specifications for each structure or practice indicated below, including findings regarding the structure or practice's compliance with applicable standards. The reviewer considered if management and site assessment were conducted, documented, and reflected in the final design, and if proper construction and related plans (operation and maintenance, inspection, erosion control if applicable) were provided, and demonstrated compliance with applicable rules standards.

DECISION RECOMMENDATION: Based on my review completed on October 12, 2023, the proposed plans and specifications meet ch. NR 243, Wis. Adm. Code, and applicable NRCS Standards. Therefore, I recommend the plans and specifications be approved.



Tony Salituro, EIT
Water Resources Engineer