# Permit Fact Sheet

## General Information

| | |
|---|---|
| Permit Number | WI-0065960-02-1 |
| Permittee Name and Address | Rivers Edge Dairy LLC<br>Mail01<br>Chilton WI 53014 |
| Permitted Facility Name and Address | Rivers Edge Dairy LLC<br>W2268 Hickory hills Road Chilton |
| Permit Term | June 01, 2024 to March 31, 2028 |
| Discharge Location | Unnamed tributaries to the Killsnake River and South Branch Manitowoc River Watersheds, groundwaters of the State |

| **Animal Units** | | | | | |
|---|---|---|---|---|---|
| | **Current AU** | | **Proposed AU**<br>**(Note: If all zeroes, expansions are not expected during permit term)** | | |
| **Animal Type** | **Mixed** | **Individual** | **Mixed** | **Individual** | **Date of Proposed Expansion** |
| Dairy Calves (under 400 lbs.) | 80 | 0 | 80 | 0 | 05/06/2026 |
| Milking and Dry Cows | 1890 | 1931 | 7700 | 7865 | 05/06/2026 |
| Heifers (400 lbs. to 800 lbs.) | 225 | 375 | 225 | 375 | 05/06/2026 |
| Heifers (800 lbs. to 1200 lbs.) | 633 | 575 | 633 | 575 | 05/06/2026 |
| Steers or Cows (400 lbs. to market) | 100 | 100 | 100 | 100 | 05/06/2026 |
| Total | 2928 | 1931 | 8738 | 7865 | |

## Facility Description

**Rivers Edge Dairy LLC is an existing Concentrated Animal Feeding Operation (CAFO). Rivers Edge Dairy is owned and operated by Kurt, Kory, and Kody Schneider. It currently has 2,928 animal units (1,925 milking & dry cows, 475 heifers, and 400 calves) and plans to expand to 8,873 animal units (6,075 milking & dry cows, 475 heifers, and 400 calves) and based on planned herd size Rivers Edge Dairy has approximately 194 days of liquid manure storage. Rivers Edge Dairy plans to generate 69,778,640 gallons of manure and process wastewater and 2,386 tons of solid manure annually. Rivers Edge Dairy currently has 5644.9 acres (872 owned and 4772.9 controlled through contracts, rental agreements or leases, or under manure agreements) of which 5457.8 are spreadable acres.**

| Sample Point Designation For Animal Waste | | |
|---|---|---|
| **Sample Point Number** | **Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)** | |
| 002 | Sample point 002 is for liquid waste storage facility 2 (WSF 2). WSF 2 is a concrete-composite storage located on the north side of Hickory Hills Rd. The facility has a maximum operating level capacity of 5,070,593 gallons and was constructed in 2016. This storage accepts manure and process wastewater from adjacent animal housing. WSF 2 was last evaluated in 2015 and met permit requirements. | |
| 003 | Sample point 003 is for liquid waste storage facility 3 (WSF 3). WSF 3 is a concrete-composite storage located on the south side of Hickory Hills Rd. The facility has a maximum operating level capacity of 9,280,656 gallons and was constructed in 2018. This storage will accept manure and process wastewater from animal housing, stacking pad, and the feed storage area. | |
| 004 | Sample point 004 is for solid manure land applied from the concrete stacking pad adjacent to WSF 3, located on the south side of Hickory Hills Rd. This facility was constructed in 2016 and accepts manure and process wastewater from calf hutch area, and other solid manure sources. | |
| 005 | Sample point 005 is for manure solids land applied from waste storage facilities 2-4. These facilities are described in sample points 002, 003, and 011 respectively. Representative samples shall be taken from each waste storage facility when land application occurs | |
| 006 | Sample point 006 is for visual monitoring and inspection of the feed storage area and associated runoff control system located on the south side of Hickory Hills Rd. Proper operation and maintenance is required to ensure discharges of process wastewater to waters of the state do not occur. Weekly inspections are required and shall be recorded according to monitoring program. | |
| 008 | Sample point 008 is for visual monitoring and inspection of the calf hutch area and associated runoff control system located on the south side of Hickory Hills Rd. Proper operation and maintenance is required to ensure discharges to waters of the state do not occur. Weekly inspections are required and shall be recorded according to monitoring program. An engineering evaluation of the feedlot and runoff control system shall be submitted according to the Schedules section of the permit. | |
| 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 the monitoring program. | |
| 010 | Sample point 010 is for solid manure sources that are directly land applied and not stored in a waste storage facility. Representative samples shall be taken for each manure source type. This includes solid manure sources such as bedpack, calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. | |
| 011 | Sample point 011 is for liquid waste storage facility 4 (WSF 4). WSF 4 is an earthen lined storage with concrete bottom, located at the Koehler site. The facility has a maximum operating level of 24,556,799 gallons and was constructed in 2024 (R-2024-0043). This storage accepts manure and process wastewater from adjacent barns. | |

# 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 193 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 2,928 animal units (1,925 milking & dry cows, 475 heifers, and 400 calves) and plans to expand to 8,873 animal units (6,075 milking & dry cows, 475 heifers, and 400 calves), it is estimated that approximately 69,778,640 gallons of manure and process wastewater will be produced per year. The permittee owns *approximately* 872 acres of cropland and rents about 4,772.9. Given the rotation commonly used by the permittee, 5,457.8 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 or 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 permitee 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 (≥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 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: 002- WSF 2 (Liquids); 003- WSF 3 (Liquids), and 011- WSF 4 (Liquids)

| 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 | |

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

### Changes from Previous Permit

Sample Point 011 was edited to reflect the expansion of WSF 4. Sample Point 012 was removed as WSF 5 has been abandoned.

### Explanation of Operation and Management Requirements

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

## 1.2 Sample Point Number: 004- WSF 3 Stacking Pad (Solids); 005- Settled Solids (Solids), and 010- Misc. Solid Manure Sources

| 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 | |

### Changes from Previous Permit

No changes.

### 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: 006- Feed Storage Runoff Controls; 008- Calf Hutch Area, and 009- Storm Water Runoff Controls

### Changes from Previous Permit

No changes.

### Explanation of Operation and Management Requirements

Proper operation and maintenance are 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: Develop a written Emergency Response Plan within 30 days of permit coverage, available to the Department upon request. | 04/30/2023 |

### Explanation of Schedules

Schedule 2.1 is included in the permit as a general permit requirement.

## 2.2 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 within 90 days of the effective date of this permit. | 07/01/2023 |

### Explanation of Schedules

Schedule 2.2 is included in the permit as a general permit requirement.

## 2.3 Annual Reports

| 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. | 01/31/2024 |
| Submit Annual Report #2: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E. | 01/31/2025 |
| Submit Annual Report #3: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E. | 01/31/2026 |
| Submit Annual Report #4: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E. | 01/31/2027 |

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

## Explanation of Schedules

Schedule 2.3 is included in the permit as a general permit requirement.

## 2.4 Nutrient Management Plan

| 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). | |
| Management Plan Annual 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. | 03/31/2024 |
| Management Plan Annual 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. | 03/31/2025 |
| Management Plan Annual 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. | 03/31/2026 |
| Management Plan Annual 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. | 03/31/2027 |
| Management Plan Annual 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. | 03/31/2028 |
| Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed. | |

## Explanation of Schedules

Schedule 2.4 is included in the permit as a general permit requirement.

## 2.5 Manure Storage Facility - Engineering Evaluation

| Required Action | Due Date |
|---|---|
| Written Report: Submit a written report evaluating the existing manure storage facility's ability to meet the conditions in the Production Area Discharge Limitations and Manure and Process Wastewater Storage subsections and s. NR 243.15, Wis. Adm. Code. (See Standard Requirements for report details.) | 12/01/2025 |
| Plans and Specifications: Submit plans and specifications for Department review and approval in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code, to permanently correct any adverse manure storage conditions. | 12/01/2026 |
| Corrections and Post Construction Documentation: Complete construction on the manure storage facility that permanently corrects any adverse conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of completion of the project. | 12/01/2027 |

## Explanation of Schedules

Schedule 2.5 is included in the permit to evaluate WSF 4 and WSF 5 as needed. As of the date of this modification, WSF 4 has been evaluated.

## 2.6 Manure Storage Facility - Abandonment

| Required Action | Due Date |
|---|---|
| Abandonment Plan: Submit an abandonment plan for WSF 4, WSF 5 manure storage facility to the Department for approval in accordance with USDA Natural Resource Conservation Services Technical Guide, Section IV, Standard 360 outlining the proposed method of abandonment. | 12/01/2025 |
| Complete Abandonment: Complete abandonment as approved by the Department. | 12/01/2026 |

## Explanation of Schedules

Schedule 2.6 is included in the permit to abandon WSF 4 and WSF 5 as needed. As of the date of this modification, WSF 5 has been abdondoned.

## 2.7 Submit Permit Reissuance Application

| Required Action | Due Date |
|---|---|
| Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration. | 10/01/2027 |

## Explanation of Schedules

Schedule 2.7 is included in the permit as a general permit requirement.

## Other Comments

None

## Attachments

Plan Approval Letter(s)

- Conditional Approval Nutrient Management Plan – January 27, 2025
- Days of Storage Engineering Review – January 10, 2025

## Justification Of Any Waivers From Permit Application Requirements

**N/A**

**Prepared By: Holly Stegemann Agricultural Runoff Management Specialist Date: 02/20/2025**

**State of Wisconsin**
**DEPARTMENT OF NATURAL RESOURCES**
**101 S. Webster Street**
**Box 7921**
**Madison WI 53707-7921**

**Tony Evers, Governor**

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January 27, 2025

Calumet County
Approval

Kurt Schneider
Rivers Edge Dairy
W2268 Hickory Hills Road
Chilton, WI 53014

SUBJECT: Conditional Approval of Rivers Edge Dairy LLC Nutrient Management Plan, WPDES Permit No. 0065960-02-1

Dear Kurt Schneider:

After completing a review of Rivers Edge 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 Rivers Edge 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.

## FINDINGS OF FACT

The Department confirms that:

1. A current dairy herd size of 2928 animal units (1925 milking & dry cows, 475 heifers, and 400 calves). A planned herd size of 8873 animal units (6075 milking & dry cows, 475 heifers, and 400 calves) by the end of 2025.
2. Manure generation and spreading records indicate your herd will annually generate approximately 69,778,640 gallons of manure and process wastewater and 2,386 tons of solid manure in the first year of the permit term. Approximately 4,500,000 gallons of process wastewater is accepted by Rivers Edge Dairy LLC from Milk Specialites annually.

3. The use of application restriction options 1, 2 and 5 within surface water quality management areas.

4. The use of phosphorus delivery method P Index.

5. That Rivers Edge Dairy LLC currently has 5644.9 acres (872 owned and 4772.9 controlled through contracts, rental agreements or leases, or under manure agreements) of which 5457.8 are spreadable acres.

6. 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.

7. 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 Rivers Edge 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 have also been approved to receive industrial, municipal, or septage waste:

| Field Name | Other Permittee Name | Other Permittee Field Name | DNR # |
|---|---|---|---|
| Danes-Biese Roman 1 | NLC ENERGY DENMARK LLC | DF32-1 | 116599 |
| Danes-Boreman | NLC ENERGY DENMARK LLC | DF8-1 | 115924 |
| Danes-Boreman | NLC ENERGY DENMARK LLC | DF8-2 | 26585 |
| Danes-Elhenbeck | NLC ENERGY DENMARK LLC | AT9-1 | 115926 |
| Danes-Elhenbeck | NLC ENERGY DENMARK LLC | DF9-1 | 115925 |
| Danes-Hipkey mertens steeges | NLC ENERGY DENMARK LLC | HA-1 | 121494 |
| Danes-Hipkey mertens steeges | NLC ENERGY DENMARK LLC | HF-1 | 26573 |
| Danes-Hipkey mertens steeges | NLC ENERGY DENMARK LLC | Z-3 | 9885 |
| Danes-JL-Schwobe | NLC ENERGY DENMARK LLC | DF32-1 | 116599 |
| Danes-Ken Klotz Cardinal | NLC ENERGY DENMARK LLC | KC-1 | 121184 |
| Danes-Ken Klotz Cardinal | NLC ENERGY DENMARK LLC | KC-2 | 121185 |
| Danes-Ken Klotz Cardinal | NLC ENERGY DENMARK LLC | KD-1 | 121262 |
| Danes-Orchard | NLC ENERGY DENMARK LLC | AT9-1 | 115926 |
| Danes-Orchard | NLC ENERGY DENMARK LLC | DF9-1 | 115925 |
| Danes-Orchard | NLC ENERGY DENMARK LLC | KD9-1 | 117711 |
| Danes-Rosnau | NEW HOLSTEIN WASTEWATER TREATMENT FACILITY | 6-A | 41115 |
| Danes-Rosnau | NEW HOLSTEIN WASTEWATER TREATMENT FACILITY | 6-C | 41116 |
| Danes-Rosnau | NEW HOLSTEIN WASTEWATER TREATMENT FACILITY | 6-D | 41117 |
| Danes-Rosnau | NEW HOLSTEIN WASTEWATER TREATMENT FACILITY | 6-E | 41118 |
| Danes-Schwobe | NLC ENERGY DENMARK LLC | AL32-1 | 116392 |

| | | | |
|---|---|---|---|
| Danes-Schwobe | NLC ENERGY DENMARK LLC | AL32-2 | 116393 |
| Danes-Schwobe | NLC ENERGY DENMARK LLC | DF29-1 | 116390 |
| Danes-Schwobe | NLC ENERGY DENMARK LLC | DF29-2 | 116391 |
| Danes-Thome 1 | NLC ENERGY DENMARK LLC | AT9-1 | 115926 |
| Danes-Thome 1 | NLC ENERGY DENMARK LLC | KD9-1 | 117711 |
| Danes-Zeno | NLC ENERGY DENMARK LLC | Z-1 | 26586 |
| JK-D1 | CHILTON WASTEWATER TREATMENT FACILITY | CGK-3 | 69482 |
| JK-D4 | CHILTON WASTEWATER TREATMENT FACILITY | CGK-4 | 114439 |
| JK-D4 | CHILTON WASTEWATER TREATMENT FACILITY | CGK-6 | 69054 |
| RK-Hayshed | APPLETON WASTEWATER TREATMENT FACILITY | RAK-1F1 | 114420 |
| RK-Hayshed | APPLETON WASTEWATER TREATMENT FACILITY | RAK-4F1 | 114428 |
| RK-Liebeaus Lane | APPLETON WASTEWATER TREATMENT FACILITY | RAK-2F1 | 114424 |
| RK-Moehn | APPLETON WASTEWATER TREATMENT FACILITY | AAV10-A1 | 118193 |
| RK-Moehn | APPLETON WASTEWATER TREATMENT FACILITY | AAV10-A2 | 118194 |
| RK-Moehn | APPLETON WASTEWATER TREATMENT FACILITY | AAV10-A3 | 118195 |
| RK-Olsens | APPLETON WASTEWATER TREATMENT FACILITY | RAK-8 | 118191 |
| RK-Olsens | APPLETON WASTEWATER TREATMENT FACILITY | RAK-9 | 118192 |
| RK-Redigs | APPLETON WASTEWATER TREATMENT FACILITY | RAK-7 | 118190 |
| RK-Stanky | APPLETON WASTEWATER TREATMENT FACILITY | RAK-1F2 | 114421 |
| RK-Stanky | APPLETON WASTEWATER TREATMENT FACILITY | RAK-2F2 | 114425 |
| RK-Stanky | APPLETON WASTEWATER TREATMENT FACILITY | RAK-4F2 | 114429 |
| RK-Stanky | APPLETON WASTEWATER TREATMENT FACILITY | RAK-5 | 114430 |
| RK-Stanky | APPLETON WASTEWATER TREATMENT FACILITY | RAK-6 | 114431 |

Prior to any manure applications on these fields Rivers Edge Dairy LLC shall contact the entities listed above to obtain recent spreading records and make the necessary adjustments to the planned manure application rates. At the end of each year Rivers Edge Dairy LLC shall contact each entity listed above to obtain spreading records from the previous year so that they can be properly tracked in the NMP. Please Note: Rivers Edge Dairy LLC is responsible for obtaining nutrient content values for all other wastes spread on any field in their NMP.

3. The following fields, totaling 506.2 acres, are prohibited from receiving applications of manure or process wastewater until sufficient soil samples can be taken:
   - Danes- KOEHLER- 1
   - Danes- Thome 1
   - Danes- WEBER-1
   - Danes- Rossman 1
   - Danes- Rossman 2
   - RK-Bob Koehler
   - RK-Bins
   - Danes-JL Schwobe
   - RED-Wenig
   - RK-DNR Bobs

   If Rivers Edge 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.

4. 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.

5. All liquid manure samples collected may be analyzed, at a minimum, for percent dry matter, total nitrogen, percent $NH_4$-N, percent $NO_3$-N, phosphorus, potassium, and sulfur.

6. If manure sample results have a dry matter (DM) content less than 2.0% and the percent ammonium ($NH_4^+$) is greater than 75% of the total N, Rivers Edge Dairy LLC may use the following equation to adjust the first year available nitrogen when applications are injected or incorporated within 1 hour:

   First-Year Available N = $NH_4$-N + [0.25 x (Total N – $NH_4$-N)]

7. Rivers Edge Dairy LLC shall record daily manure applications by using the SnapPlus Daily Log report. These forms shall be retained at the farm and provided to the department upon request.

8. Rivers Edge 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 the SnapPlus Annual Spreading report.

WINTER SPREADING

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

10. The following field(s) are approved for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:
    - JK-S-8
    - JK-S-9
    - RED 3
    - RED 4
    - RED 9
    - RED 15
    - RED-JS Home 1
    - RED Wenig
    - Rk-Dhein/Brandenburg

11. The following field(s) are denied for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:
    - Winkler East
    - Winkler West
    - Winkler South
    - Winkler North

12. 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.

13. Winter applications of liquid manure shall only occur under emergency situations, after notifying the Department and receiving verbal approval.

14. 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

15. No headland stacking sites are approved.

MANURE TRANSFERS AND DISTRIBUTION

16. Rivers Edge Dairy accepts 4,500,000 gallons of process wastewater from Milk Specialties every year. This manure is stored in the manure storage facilities and land applied as a liquid manure. The volume of process wastewater received should be tracked and reported to the Department in the annual NMP update.

17. Rivers Edge accepts liquid manure from Holsum Dairies on an emergency basis. This volume must be tracked and reported to the Department in the annual NMP update.

MANURE & PROCESS WASTEWATER IRRIGATION

18. Irrigation of manure or process wastewater is prohibited.

NR243.143/151.075 SILURIAN BEDROCK PERFORMANCE STANDARDS

19. Manure generated by Rivers Edge Dairy LLC that is mechanically applied to the following approved fields meet planning requirements under NR243.143/151.075, Silurian bedrock performance standards. The following fields are required to meet all requirements under NR243.143/151.075, Silurian bedrock performance standards immediately following this approval.
    - Brenner-Home North
    - Brenner-Home South
    - Danes-Berchem-1
    - Danes-Biese Roman 1
    - Danes-Biese Roman 2
    - Danes-Boreman
    - Danes-Elhenbeck
    - Danes-Hipkey mertens steeges
    - Danes-Irish Rd 6 Ac
    - Danes-JL-Schwobe
    - Danes-Klotz Earl 1
    - Danes-Koehler
    - Danes-Orchard
    - Danes-Schwobe
    - Danes-Steiner-T1
    - Danes-Steiner-T2
    - Danes-Thome 1
    - Danes-Zeno
    - DPK-Church RD
    - DPK-Irish
    - RED 1
    - RED 17
    - RED 3
    - RED-Bennin
    - RED-Bennin 3
    - RED-Hwy E
    - RED-JS-Court St
    - RED-Moehn N
    - RED-Winkler West
    - RK-Bins

SUBMITAL AND RECORDKEEPING REQUIREMENTS

20. 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.

ITEMS FOR FUTURE CONSIDERATIONS

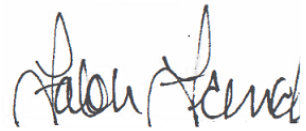
21. The animal unit to acreage ratio following the planned expansion significantly exceeds 1:1. This can lead to overutilization of the land base and rising soil test P levels. It is recommended to monitor the soil nutrient content and adjust manure and fertilizer application rates, to ensure that fields do not build soil test P.

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 locate 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: Holly Stegemann, WDNR Agricultural Runoff Management Specialist (Holly.Stegemann@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 Engineer (Anthony.Salituro@Wisconsin.gov)
Tony Reali, Calumet County (reali.anthony@co.calumet.wi.us)
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Douglas Hinz, Tilth Agronomy Group (doug@tilthag.com)
File

**State of Wisconsin**
**DEPARTMENT OF NATURAL RESOURCES**
**101 S. Webster Street**
**Box 7921**
**Madison WI 53707-7921**

**Tony Evers, Governor**
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Telephone 608-266-2621
Toll Free 1-888-936-7463
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WISCONSIN DEPT. OF NATURAL RESOURCES

January 10, 2025

FILE REF: R-2024-0121
WPDES Permit #: WI-0065960

Kurt Schneider
Rivers Edge Dairy
W2268 Hickory Hills Road
Chilton, WI 53014

Subject: Days of Storage Review for Rivers Edge Dairy T18N, R20E, Section 06 in Chilton Township, Calumet County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. Schneider:

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 Taylor Rudlaff, Miller Engineers and Scientists on April 26, 2024 on behalf of Rivers Edge Dairy.

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 Rivers Edge Dairy LLC will have **193** 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 proposed number of animal units provided for the calculation is **8,873** after fully populating the satellite site. 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 stacking pad and feed storage area on site. A small portion of runoff from the proposed gravel drive around area is captured in WSF4.

| 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. |
|---|---|---|---|---|---|---|
| WSF2 | 5,764,939 | 0 | 191,130 | 0 | 515,408 | 5,058,401 |
| WSF3 | 10,947,241 | 0 | 293,772 | 593,611 | 792,194 | 9,267,664 |
| WSF4 | 32,307,967 | 2,561,569 | 746,671 | 13,308 | 4,429,687 | 24,556,732 |
| | | | | | Total MOL Vol: | 38,882,797 |
| | | | | | Days of Storage: | **193** |

| Liquids Collected/Stored | Annual Gallons |
|---|---|
| Manure and Bedding | 42,736,913 |
| Parlor Wastewater | 15,974,750 |
| Feed Storage Leachate | 241,963 |
| Feed Storage Runoff Collected | 4,443,313 |
| Net Precipitation on Storage Surfaces | 5,618,188 |
| Milk Specialties Wastewater | 4,500,000 |
| **TOTAL:** | **73,515,127** |

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
CAFO Review Engineer
Watershed Management Program

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