

Permit Fact Sheet

General Information

Permit Number	WI-0065129-02-0
Permittee Name and Address	Kinnamon Ridge Dairy LLC S3175 White Rd, Reedsburg, WI 53959
Permitted Facility Name and Address	Home Farm – S3175 White Road, Reedsburg, WI 53959 Main Dairy – 3457 Thomas Road, Reedsburg, WI 53959 Ray's Farm – E4165 Thomas Road, Reedsburg, WI 53959
Permit Term	December 01, 2025 to November 30, 2030
Receiving Water	The Little Baraboo Watershed within the Lower Wisconsin River Basin, 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.)	200	200	0	0	
Milking and Dry Cows	970	970	0	0	
Heifers (800 lbs. to 1200 lbs.)	360	360	0	0	
Total	1794	1794	0	0	

Facility Description

Kinnamon Ridge Dairy LLC is an existing Concentrated Animal Feeding Operation (CAFO). Kinnamon Ridge is owned and operated by Jerry White. The farm currently has 1,794 animal units. (970 milking & dry cows, 360 heifers up to 1200 lbs, and 200 calves up to 400 lbs.). Kinnamon Ridge has a total of 1,600 acres available for land application of manure and process wastewater. Of this acreage, 454 acres are owned, and 1,183 acres are rented or leased or controlled through manure agreements. Kinnamon Ridge has no planned expansion during the proposed permit term. Approximately 15,097,935 gallons of manure and process wastewater were produced in the first year of the permit term. The farm has a proposed 221 days of liquid manure storage and at least 0 days of solid manure storage.

Three facilities are currently covered under Kinnamon Ridge Dairy LLC WPDES Permit. The Main Dairy site is located at 3457 Thomas Road, Reedsburg, WI 53959 and is composed of 3 freestall barns, a milking parlor, a cattle walkway, a sand settling lane, a smaller barn with bedpack, and 2 waste storage facilities. A feed storage area is located east of the Main Dairy at S3504 Thomas Road, Reedsburg, WI 53959. The Home Farm is located at S3175 White Road, Reedsburg, WI 53959 and contains two freestall barns, an older barn for sorting, a waste storage facility, and a calf barn across the road. Ray’s Farm at E4165 Thomas Road, has one young heifer barn, with and outdoor lot used for sorting and cleaning. Two farms listed in the previous permit but are no long in use by Kinnamon Ridge and will be removed from permit coverage include, Keller Farm at E4543 County Road K, and Dwayne’s Farm at E4264 Kinnamon Road.

Kinnamon Ridge Dairy LLC has submitted an application for reissuance of their Wisconsin Pollutant Discharge Elimination System (WPDES) permit. The application is complete, and the facility has been determined to be in substantial compliance. This will be the first permit reissuance for this facility. Kinnamon Ridge has an approved Nutrient Management Plan (NMP) that is written according to WPDES permit and Chapter NR 243 Wis. Adm. Code requirements. Kinnamon Ridge was also found to have at least 180 days of liquid manure storage.

Substantial Compliance Determination

Enforcement During Last Permit:

A Notice of Violation and an Enforcement Conference was held during the current permit term in response to violations related to discharge events in 2016 and 2019, waste storage facility markers, and beneficial reuse of foundry sand construction materials. A Notice of Violation Closeout was issued by the Department on October 8, 2025 following an engineering review of waste storage facilities, abandonment of the sand lane, abandonment of the outdoor lot at Ray’s Farm, beneficial reuse of all foundry sand on site, and an inspection of the feed storage area.

After a desk top review of annual reports, nutrient management plans, compliance schedule items, and a site visit on September 4, 2025, this facility has been found to be in substantial compliance with their current permit.

Sample Point Descriptions

Sample Point Designation For Animal Waste		
Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)	
001	WSF 001: Sample point 001 is for liquid waste storage facility 001 (WSF 001) located at the Main Dairy. WSF 001 is a concrete-lined storage located on the east side of the Main Dairy. The facility has a capacity of 2,300,000 gallons and was reconstructed in 2022 with plan approval. This storage accepts manure and process wastewater from freestall barns 1, 2 and 3, and milking parlor. The sand settling lane was removed with the reconstruction.	
002	WSF 002: Sample point 002 is for liquid waste storage facility 002 (WSF 002) located at the Main Dairy. WSF 002 is a clay-lined storage located on the west side of the Main Dairy. The facility has a capacity of 4,287,295 and was constructed in 2008. This storage accepts manure and process wastewater from WSF 001. WSF 002 was last evaluated in 2024.	
003	WSF 003: Sample point 003 is for liquid waste storage facility 003 (WSF 003) located at the Home Farm. WSF 003 is a clay-lined storage with a concrete floor located on the east side of the Home Farm. The facility has a capacity of 733,361 gallons and was constructed in 1995. This storage accepts manure and	

Sample Point Designation For Animal Waste		
Sample Point Number	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)	
	process wastewater from freestall barns 1 and 2. WSF 003 was last evaluated in 2024.	
004	Sample point 004 is for liquid waste storage facility 004 (WSF 004) located off Thomas Road, east of the Main Dairy. WSF 004 is concrete lined with the capacity of 1.64 million gallons. This storage accepts process wastewater from the feed storage pad. WSF 4 was constructed with plan approval.	
005	Sample point 005 is for solid manure sources at the Main Dairy that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	
006	Sample point 006 is for solid manure sources at the Home Farm that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf barn manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	
007	Sample point 007 is for solid manure sources at Ray's Farm that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	
010	Sample point 010 is for any manure solids removed from the bottom of liquid waste storage facilities. This includes manure-laden sand solids, manure fiber solids, etc. Representative samples shall be taken from each waste storage facility.	
011	Sample point 011 is for solid manure stacked in approved headland stacking sites. Stacks are defined as part of the production area and are therefore subject to the production area discharge limitations section of this permit. Quarterly inspections while stacks are present are required and shall be recorded according to monitoring program.	
012	Sample point 012 is for visual monitoring and inspection of the feed storage area and associated runoff control system located east of the Main Dairy off Thomas Road. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to the monitoring program. Plans and specifications for the feed storage area and runoff control system were approved in 2017.	
014	Sample point 014 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	

Permit Requirements

1 Livestock Operations - Proposed Operation and Management

Production Area Discharge Limitations

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

Runoff Control

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

Manure and Process Wastewater Storage

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

The permittee currently has approximately 221 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 1,794 animal units, it is estimated that approximately 15,097,935 gallons of manure and process wastewater will be produced per year. The permittee owns *approximately* 454 acres of cropland and rents about 1,183. Given the rotation commonly used by the permittee, 1,600 acres are available (or open) to receive manure and process wastewater on an annual basis. The permit requires all landspreading of manure and process wastewater be completed in accordance with an approved nutrient management plan. The permit will require sampling and analysis of manure and process wastewater that will be landspread. Landspreading rates must be adjusted based on sample analysis. The permit requires the permittee to maintain a daily log that documents landspreading activities. The permit also requires the submittal of an annual report that summarizes all landspreading activities. Plans must be updated annually to reflect cropping plans and other operational changes. Among the requirements, the plans must include detailed landspreading information including field by field nutrient budgets.

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

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

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

Monitoring and Sampling Requirements

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

Sampling Points

The permit identifies the different sources of land applied materials (e.g., manure storage facilities, milking centers, egg-washing facilities) as “Sampling Points.” For these Sampling Points, the permittee is required to sample and analyze the different sources for nutrients and other parameters which serve as the basis for determining rates of application for these materials. Other areas are also identified as Sampling Points as a means of identifying them as areas requiring action by the permittee, such as an upgrade or evaluation of a certain system or structure (e.g., runoff control systems), even though sampling is not actually required.

1.1 Sample Point Number: 001- Main Dairy 1st Stage WSF; 002- Main Dairy 2nd Stage WSF; 003- Home Farm WSF; 004- Feed Storage WSF

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,		lb/1000gal	2/Month	Calculated	

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Available					
Solids, Total		Percent	2/Month	Grab	

1.1.1 Changes from Previous Permit

Some descriptions were updated to better reflect the current operation of the facilities.

1.1.2 Explanation of Operation and Management Requirements

Liquid manure shall be managed in accordance with the operation's permit and land applied in accordance with the operation's nutrient management plan.

1.2 Sample Point Number: 005- Main Dairy Solids; 006- Home Farm Solids; 010- Solids from WSF; 011- Headland Stacking Solids

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 008, Keller Farm Solids is no longer used by Kinnamon Ridge

Sample Point 009, Dwayne's Farm Solids is no longer used by Kinnamon Ridge

1.2.2 Explanation of Operation and Management Requirements

Solid manure shall be managed in accordance with the operation's permit and land applied in accordance with the operation's nutrient management plan.

1.3 Sample Point Number: 007- Ray's Farm Solids; 012- Main Dairy Feed Storage , and 014- Stormwater

1.3.1 Changes from Previous Permit

Sample Point 013, Home Farm Feed Storage and Sample Point 015, Temporary Feed Storage were removed due to construction of a feed storage area.

1.3.2 Explanation of Operation and Management Requirements

Runoff control sample points require weekly monitoring to ensure manure and process wastewater is properly managed in accordance with the operation's permit.

2 Schedules

2.1 Emergency Response Plan

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

2.2 Explanation of Schedules

An Emergency Response Plan is required to be developed per NR 243.13(6)(a)

2.3 Monitoring & Inspection Program

Required Action	Due Date
Proposed Monitoring and Inspection Program: Consistent with the Monitoring and Sampling Requirements subsection, the permittee shall submit a proposed monitoring and inspection program within 30 days of the effective date of this permit.	01/01/2026

2.4 Explanation of Schedules

A monitoring and inspection program is required to be submitted per NR 243.19(1)

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

Annual reports are required to be submitted per NR 243.19(3)

2.7 Nutrient Management Plan

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

Required Action	Due Date
Management Plan Submittal: Submit any necessary updates to the Nutrient Management Plan to meet the conditions outlined in this permit (see conditions in the Livestock Operational and Sampling Requirements section).	03/31/2026
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.	03/31/2027
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.	03/31/2028
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.	03/31/2029
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.	03/31/2030
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.	03/31/2031
Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed.	

2.8 Explanation of Schedules

Nutrient management plan updates are required to be submitted per NR 243.19(3)

2.9 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	06/30/2030

2.10 Explanation of Schedules

Other Comments

Attachments

Sample Point Map

Nutrient Plan Approval Letter(s)

Days of Storage Review Letter

Public Notice

NOV Closeout Letter

Engineering “No Further Actions” Letter

Justification Of Any Waivers From Permit Application Requirements

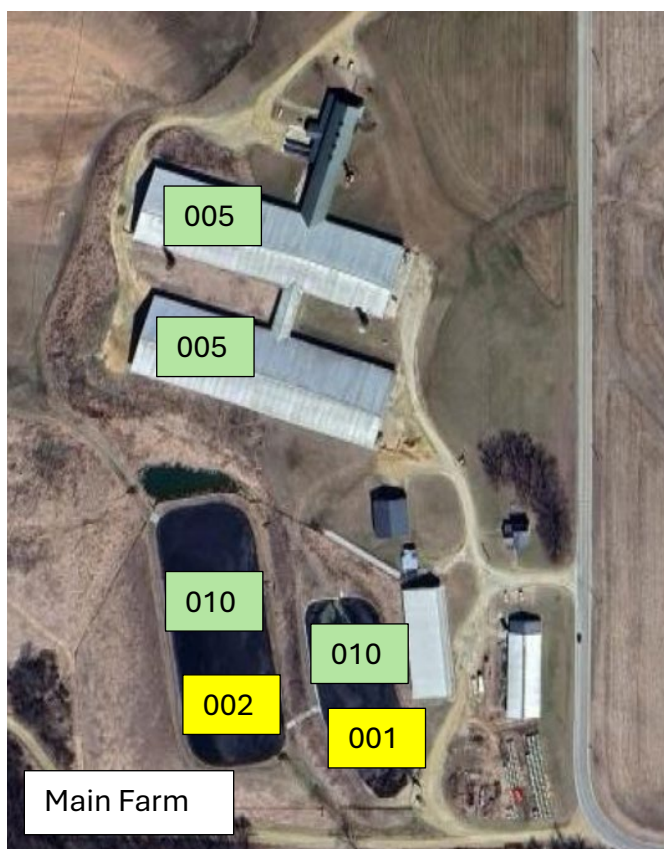
No waivers requested or granted as part of this permit reissuance

Prepared By: Tony Knipfer Agricultural Runoff Management Specialist

Date: 10/09/2025



Sample Point Map
Liquid Sampling Locations
Solids Sampling Locations







January 3, 2025

Jerry White
Kinnamon Ridge Dairy LLC
S3175 White Rd
Reedsburg, WI 53959

SUBJECT: Conditional Approval of KINNAMON RIDGE DAIRY LLC Nutrient Management Plan, WPDES Permit No. 0065129-02-0

Dear Jerry White:

After completing a review of KINNAMON 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 KINNAMON 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 Kinnamon 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 Kinnamon 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 1484 animal units (970 milking & dry cows, 360 heifers, and 200 calves). Currently there are no planned expansions in the next permit term.
2. Manure generation and spreading records indicate your herd will annually generate approximately 15,097,935 gallons of manure and process wastewater and 13,500 tons of solid manure in the first year of the permit term.
3. The use of application restriction options 1 and 5 within surface water quality management areas.
4. The use of phosphorus delivery method P Index.
5. That Kinnamon Ridge Dairy LLC currently has 1637 acres (454 owned and 1183 controlled through contracts, rental agreements or leases, or under manure agreements) of which 1600 are spreadable acres.

6. That some fields included in the NMP are directly adjacent to or have high potential to deliver nutrients and sediment to Little Baraboo River (Total Phosphorus), Silver Creek (Total Phosphorus, Sediment/Total Suspended Solids), Babb Creek (Sediment/Total Suspended Solids).
7. That no fields are directly adjacent to or have high potential to deliver nutrients and sediment to outstanding/exceptional waters.
8. That 1 field is tiled: 169.
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 Kinnamon 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. The following fields have also been approved to receive industrial, municipal, or septage waste:

Field Name	Other Permittee Name	Other Permittee Field Name	DNR #
Pearson-05	JOE SEEP PLUMBING & ELECTRIC, INC.	PEARSON-JP1	101718
Pearson-06	JOE SEEP PLUMBING & ELECTRIC, INC.	PEARSON-JP1	101718
Pearson-08	JOE SEEP PLUMBING & ELECTRIC, INC.	PEARSON-JP1	101718
Pearson-09	JOE SEEP PLUMBING & ELECTRIC, INC.	PEARSON-JP1	101718
Pearson-11	JOE SEEP PLUMBING & ELECTRIC, INC.	PEARSON-JP1	101718

Prior to any manure applications on these fields Kinnamon Ridge 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 Kinnamon Ridge 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: Kinnamon Ridge Dairy LLC is responsible for obtaining nutrient content values for all other wastes spread on any field in their NMP.

3. The following fields are prohibited from receiving applications of manure or process wastewater:
 - 25
 - T01

If Kinnamon Ridge 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 $\text{NH}_4\text{-N}$, percent $\text{NO}_3\text{-N}$, 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, Kinnamon Ridge Dairy LLC may use the following equation to adjust the first year available nitrogen when applications are injected or incorporated within 1 hour:

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

7. Kinnamon Ridge Dairy LLC shall record daily manure applications by using form 3200-123A. These forms shall be retained at the farm and provided to the department upon request.
8. Kinnamon 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 3200-123.

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:

• Feedpad 104	• Johnnies 23B	• PhilSouth 17	• Ryans 001
• Feedpad 105	• McGlynn South 145	• PhilSouth 19	• Ryans 002
• Feedpad 016	• Nate and Dawn 018	• PhilSouth 20	• Ryans 003
• Feedpad 017	• Nate and Dawn 019	• Rays04	• Steinhagen 042
• Feedpad 018	• Nate and Dawn 020	• Rays05	• Steinhagen 043
• Hinze 12	• Parlor 095	• Rays06	• Steinhagen 044
• Johnnies 6	• Parlor 096	• Rays07	• Steinhagen 045
• Johnnies 7	• PhilSouth 9	• Rays09	• T02
• Johnnies 8	• PhilSouth 10	• Rays09	• T03
• Johnnies 18	• PhilSouth 11	• Rays10	• T04
• Johnnies 19	• PhilSouth 12	• Rays11	• TL 1
• Johnnies 20	• PhilSouth 13	• Rays12	• TL 2
• Johnnies 21	• PhilSouth 14	• Rays13	• TL 3
• Johnnies 22	• PhilSouth 15	• Rays14	
• Johnnies 23A	• PhilSouth 16	• Rays15	
11. 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 area:

• McGlynn South 144	• Parlor 093	• Steinhagen 040	• Ray Grandpa 81
• Parlor 091	• Parlor 094	• Steinhagen 041	• Tourdout 116
• Parlor 092	• PhilSouth 18	• TL 4	
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%.

HEADLAND STACKING

15. No headland stacking sites are approved.

MANURE & PROCESS WASTEWATER IRRIGATION

16. Irrigation of manure or process wastewater is prohibited.

SUBMITAL AND RECORDKEEPING REQUIREMENTS

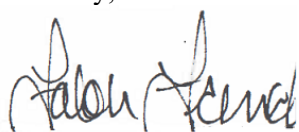
17. A copy of this conditional approval shall be included in all future annual Nutrient Management Plan Updates in addition to the NR 243 and NRCS 590 checklists.

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: Eric Struck, WDNR Agricultural Runoff Management Specialist (eric.struck@wisconsin.gov)
Laura Bub, WDNR Agricultural Runoff Supervisor (Laura.Bub@wisconsin.gov)
Christopher Clayton, WDNR Runoff Management Section Chief (Christopherr.Clayton@Wisconsin.gov)
Aaron O'Rourke, WDNR Nutrient Management Program Coordinator (Aaron.Orourke@Wisconsin.gov)
Ashley Scheel, WDNR CAFO Nutrient Management Plan Reviewer (Ashley.Scheel@Wisconsin.gov)
Tabatha Davis, WDNR CAFO Review Engineer (Tabatha.davis@wisconsin.gov)
Melissa Schlupp, Sauk County (melissa.schlupp@saukcountywi.gov)
Scott Petges, Petges Ag Services (petgesag@gmail.com)
File



FILE REF: R-2024-0266
WPDES Permit #: WI-0065129

Jerry White
Kinnamon Ridge Dairy LLC
S3175 White Rd
Reedsburg, WI 53959

Subject: Days of Storage Review for Kinnamon Ridge Dairy LLC T12N, R03E, Section 12 in Reedsburg Township, Sauk County – NO ADDITIONAL ACTION REQUIRED

Dear Jerry White:

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 Andy Skwor, MSA on September 26, 2024 with revisions received on November 21, 2024 and again on December 9, 2024 on behalf of Kinnamon 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 Kinnamon Ridge Dairy LLC has 221 days of liquid waste storage based on the volumes listed in the table below with respect to s. NR 243.15(3)(i) to (k), Wis. Adm. Code. The current number of animal units provided for the calculation is 1794. The liquid waste volumes are based on the NRCS spreadsheet and other estimated or calculated values for a collection period of 365 days. All feed storage area runoff, up to the 25-yr, 24-hr storm is collected in permanent process-wastewater-only storage.

Total Liquid Waste Storage Capacity (gallons)						
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	2,833,137		131,518		294,669	2,406,950
#2	5,858,537	1,005,033	237,678		500,272	4,115,554
#3	1,582,303		101,016		216,210	1,265,077
#4	2,061,524		128,422	314,399	257,393	1,361,310
Total MOL Vol:						9,148,891
Days of Storage:						221

Total Annual Liquid Waste Volume (NRCS Table Values)	
Liquids Collected/Stored	Annual Gallons
Manure and Bedding	8,421,513
Parlor Wastewater	2,238,180
Feed Storage Leachate	41,140
Feed Storage Runoff Collected	1,991,717
Net Precipitation on Storage Surface(s)	2,405,385
TOTAL:	15,097,935

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

NOTICE OF APPEAL RIGHTS

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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



Tabby Davis
CAFO Review Engineer
Watershed Management Program

Email: Jerry White; Kinnamon Ridge Dairy LLC
(608) 985-6006; krdairy@live.com

Andy Skwor; MSA
(608) 355-8936; ASKwor@msa-ps.com

Aaron O'Rourke; DNR, Eau Claire
(715) 839-3775; aaron.orourke@wisconsin.gov

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

Melissa Schlupp; Sauk County Land Resources &
Environment
(608) 355-4838; melissa.schlupp@saukcountywi.gov

Eric J Struck; DNR-Southeast Region
(608) 422-1512; eric.struck@wisconsin.gov

Laura A Bub; DNR-South Central Region
(608) 712-5249; Laura.Bub@wisconsin.gov

Ashley Scheel; DNR, Central Office
(608) 261-6419; ashley.scheel@wisconsin.gov

Tabatha A Davis; DNR-Central Office
(608) 712-2324; tabatha.davis@wisconsin.gov



October 8, 2025

Via email: linda@krdairy.com

Linda White, Registered Agent
Kinnamon Ridge Dairy, LLC
S3175 White Road
Reedsburg Bay, WI 53959

Permit No. WI-0065129-01-0
Sauk County
Electronic Delivery

Subject: **Notice of Violation Closeout**

Dear Ms. White:

On January 22, 2020, the Department of Natural Resources (department) issued a Notice of Violation (NOV) to Kinnamon Ridge Dairy, LLC for alleged violations of its Wisconsin Pollutant Discharge Elimination System (WPDES) Permit #WI-0065129-01-0 (Permit). Since the issuance of the NOV, the department has met with representatives of Kinnamon Ridge Dairy on several occasions to discuss a path forward toward compliance.

After review of department records and based on your response, the department will not take further enforcement action related to the NOV. The department reserves the right to reconsider this decision if violations occur in the future. This letter is solely for the closeout of those violations listed in the aforementioned NOV.

Thank you for your cooperation. If you have any questions regarding this letter, please contact me at (920) 366-1980. Please direct technical questions regarding your WPDES Permit to department Agricultural Runoff Management Specialist, Mr. Anthony Knipfer, at (608) 516-3110.

Sincerely,

Andrea Gruen
Environmental Enforcement Specialist

Cc: Anthony Knipfer, DNR - Fitchburg
Laura Bub, DNR – Fitchburg
James Salscheider, DNR – Green Bay
Bernie Michaud, DNR – GEF 2



July 28, 2025

FILE REF: R-2024-0151
WPDES Permit #: WI-0065129

Jerry White
Kinnamon Ridge Dairy LLC
S3175 White Road
Reedsburg, WI 53959

Subject: Evaluation Review for Kinnamon Ridge Dairy LLC in T12N, R03E, Sections 11 and 14 in
Ironton Township, Sauk County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. White:

This letter is to inform you that the Department received on June 14, 2024 the evaluation for the waste storage facilities MD2 (Main Dairy Stage 2 Lagoon) and HF1 (Home Farm Manure Lagoon), submitted under certification by Ian Hansen, P.E., MSA Professional Services on behalf of Kinnamon Ridge Dairy. Ian Hansen, P.E. evaluated the facilities listed below based on applicable NRCS Standards and ch. NR 243 Wis. Adm. Code.

In accordance with s. 243.16(1), Wis. Adm. Code, when submitting an evaluation for an existing facility the evaluation shall include, at a minimum, the following information:

- (a) A narrative providing general background and operational information on existing facilities and systems.
- (b) Available post-construction documentation including the date and materials of construction.
- (c) For facilities or systems that are part of the production area, an assessment of the ability of the facility or system to meet the production area requirements in s. NR 243.13, the adequate storage requirement under s. NR 243.14 (9), and accepted management practices.
- (d) An assessment of the ability of the facility or system to meet the applicable design requirements identified in s. NR 243.15.
- (e) Any proposed actions to address issues identified as part of the evaluation.

The Department has reviewed the Kinnamon Ridge Dairy evaluation for the reviewable facilities listed below and finds that they meet the requirements for submission listed above. Ian Hansen's conclusion of the evaluation is that the reviewable facilities listed below meets the ch. NR 243 requirements. The Department has found sufficient details to justify the conclusion.

Waste Storage: The evaluated waste storage facilities meet the applicable requirements of ch. NR 243, Wis. Adm. Code.

- Assessment References: NRCS Standard 313 (12/2005) and s. NR 243.15(3) Wis. Adm. Code.
- MD2 (Main Dairy Stage 2 WSF):
 - MD2 was constructed in 2008. It was designed and constructed as a clay lined WSF in accordance with Table 2, Column 3 of NRCS 313 (12/2005). The dimensions are approximately 150 ft x 450 ft. Floor elevation is 1232.5 ft and top of berm elevation is 1249.5 ft. Interior side slopes are 2:1 and exterior side slopes are 3:1. As-built documentation shows a 3 ft, 8 inch thick bottom liner and 5 ft thick embankment liner. As noted in NRCS 313 Table 2A, the impoundment depth is measured from floor to MOL. At a 17 ft total depth and subtracting a foot for freeboard, the WSF would require 3.6 ft of liner thickness, which is what is indicated in the as-built documentation. MD2 is used for the alley flush system and generally never gets pumped down to less than 4 ft of depth, which is accounted for in the DOS calculations.
 - John Vosberg, WI-NRCS, performed soils investigations for the pit in 2005. The soil investigation documentation showed soil borings found CH soils. Bedrock was encountered 16 ft

below surface and embankments were built up to comply with separation distance requirements. Laboratory results showed P200s ranging 57.3 to 78.7% and PIs ranging 37-47. Vierbicher Associates prepared a geotechnical report for the project. Post-construction permeability results from October 30, 2008. Samples had permeabilities ranging from 1.2×10^{-8} cm/s to 2.6×10^{-9} cm/s.

- Additional Shelby Tubes were collected by MSA on January 11, 2024 with P200s ranging from 79.2 to 90.0%, PIs ranging from 20 to 30, and permeabilities ranging from 1.35×10^{-8} cm/s to 1.87×10^{-8} cm/s.
- Survey of MD2 was completed on January 11, 2024. A CAD surface was developed to produce a stage-storage table. The survey results were nearly identical to what is reported on the as-builts.
- HF1 (Home Farm Waste Storage Facility #1):
 - HF1 was constructed in 1995. It was designed to NRCS 313(02/1986). HF1 consists of a composite clay lined lagoon with a watertight concrete bottom and ramp. Dimensions are 30 ft x 260 ft x 12 ft deep. Interior side slopes are 2:1 and exterior side slopes are 3:1. Berms are 10 ft wide. There is a 15 ft wide outside ramp sloped at 10:1. The concrete floor is 5 inches thick and reinforced with #3 bars spaced 18 inches on center. The as-built documentation indicates that an embedded waterstop was used at joints. The clay lined side slopes are 2:1 sloped and 3.6 ft thick. Design documentation indicates soils were to have $P_{200} > 50\%$ and $PI > 7$ and that this was a constructed clay liner. Soil borings from the plans show that bedrock was over-excavated to provide 3 ft of separation to bedrock.
 - Shelby Tubes were collected by MSA on January 17, 2024 and show CL soils, P200s ranging from 75.7 to 91.8%, PIs ranging from 15 to 25, and permeabilities ranging from 5.14×10^{-8} cm/s to 8.95×10^{-8} cm/s.
 - Survey of HF1 was completed by MSA on January 17, 2024 to create a CAD surface model to produce a stage-storage table.
 - Comparing the design to standards listed in NRCS Standard 313 (12/2005) for a constructed clay liner, the soil does not have the thickness of Table 2, Column 3. However, given the recent permeabilities and existing liner thickness, the specific discharge would be 358 gallons/acre/day, which is less than the 500 gal/acre/day standard that Table 2A references. Based on all factors considered, MSA is stating that HF1 is compliant with s. NR 243.15(3), Wis. Adm. Code.

Days of Available Liquid Waste Storage: The information submitted with the WPDES Permit Renewal Application states that Kinnamon Ridge Dairy has 221 days of liquid waste storage with respect to s. NR 243.15(3)(i) to (k), Wis. Adm. Code. The number of animal units provided for the calculation is 1,794. All feed storage area runoff, up to the 25-yr, 24-hr storm, is collected in a dedicated process wastewater only storage facility. The days of liquid waste storage were reviewed and approved under DNR Project R-2024-0266 on December 17, 2024.

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

NOTICE OF APPEAL RIGHTS

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

To request a contested case hearing pursuant to WIS. STAT. § 227.42, you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with WIS. ADMIN. CODE § NR 2.05(5), and served on the Secretary in accordance with WIS. ADMIN.

CODE § NR 2.03. The filing of a request for a contested case hearing does not extend the 30-day period for filing a petition for judicial review.

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES



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



Rob Davis, P.E.
Water Resources Engineer
Watershed Management Program

Email: Jerry White; Kinnamon Ridge Dairy
(608) 985-7007; krddairy@live.com

Melissa Schlupp; Sauk County
(608) 355-4838; melissa.schlupp@saukcountywi.gov

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

Ian Hansen, P.E.; MSA Professional Services
(715) 304-0314; ihansen@msa-ps.com

Eric J Struck; DNR, South Central Region
(608) 422-1512; eric.struck@wisconsin.gov

Laura A Bub; DNR, South Central Region
(608) 712-5249; Laura.Bub@wisconsin.gov

Rob Davis; DNR, Central Office
(608) 225-2720; Robert.Davis@Wisconsin.gov

Tony Knipfer; DNR, South Central Region
(608) 516-3110; Anthony.knipfer@wisconsin.gov



October 1, 2025

FILE REF: R-2021-0002a
WPDES Permit #: WI-0065129

Jerry White
Kinnamon Ridge Dairy LLC
S3175 White Road
Reedsburg, WI 53959

Subject: Post-Construction Report Review for Kinnamon Ridge Dairy LLC in T12N, R03E, Section 14,
Ironton Township, Sauk County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. White:

This letter is to inform you that the Department received on January 16, 2023 the post-construction report for the WSF 1 abandonment and replacement, associated waste transfer, and sand lane abandonment submitted under certification by Andrew Skwor, P.E., MSA Professional Services on behalf of Kinnamon Ridge Dairy LLC. Andy Skwor evaluated the facilities listed below based on applicable NRCS Standards and ch. NR 243, Wis. Adm. Code. The plans and specifications for project R-2021-0002 were approved on April 5, 2021 with some modifications to the plans that were approved via email on August 18, 2022.

In accordance with s. 243.15(10), Wis. Adm. Code, when submitting a post-construction report, the report shall include, at a minimum, the following information:

- (a) Scaled drawings of the constructed facility or system.
- (b) Documentation that construction has complied with approved plans and specifications and applicable design standards.

The Department has reviewed the Kinnamon Ridge Dairy LLC post-construction report for the facilities listed below and finds that they meet the requirements for submission listed above. Andy Skwor's conclusion of the report is that the facilities listed below comply with the approved plans and specifications and applicable design standards. The Department has found sufficient details to justify the conclusion.

Waste Storage Facility (WSF 1 Replacement): The waste storage facility meets the applicable requirements of ch. NR 243, Wis. Adm. Code. Minor changes were made during construction that differed from what was originally approved and were documented in the post-construction submittal. Some of the changes below were addressed in the revised plans that were approved via email on August 18, 2022. The changes below are all compliant with applicable NRCS Standards, NRCS 313 (10/17) and NRCS 522 (10/17). Changes include:

- The sub-liner changed from NRCS 522 (10/17) Table 2A, Column B to Table 2A, Column D. This changed the sub-liner from using 2 ft of P200 $\geq$ 20% soils to 1.5 ft of Foundry Sand. The volume of Foundry Sand used for construction was less than 5,000 cubic yards and therefore did not require concurrence from the DNR Waste Program, in accordance with NR 538.
- Minor changes in shape and elevations created a slightly larger WSF. The separation requirements were still achieved.
- The side slopes were changed from 6 inch thick concrete to 5 inches thick. The floor remained 6 inches thick. Reinforcement was changed from #4 bars at 12 inches O.C. to #5 bars at 18 inches O.C. for both the side slopes and the floor.

Waste Transfer System: The waste transfer system meets the applicable requirements of ch. NR 243, Wis. Adm. Code. Minor changes were made during construction that differed from what was originally approved and were documented in the post-construction submittal. Some of the changes below were

addressed in the revised plans that were approved via email on August 18, 2022. The changes are all compliant with NRCS 634 (1/14). Changes include:

- The waste transfer system from the barn to the waste storage was modified from the originally approved channel to the waste storage. This was done by abandoning the sand lane and cutting back the existing 18 inch diameter waste transfer pipe. A new concrete channel was constructed from the existing pipe to direct waste to the new 24 inch diameter gravity transfer pipe that gravity flows to the new waste storage facility.
- The concrete channel has a precast concrete lid with a Type H geotextile fabric to minimize soil migration into the channel.
- Single direction cleanouts were installed at an angle to assist in ease when jetting the line.

Waste Storage Abandonment: The abandonment of the previously existing WSF 1 was completed in accordance with the approved plans and meets the applicable requirements of ch. NR 243, Wis. Adm. Code.

Questions concerning the review may be directed to Rob Davis. Any other permit related questions may be directed to the DNR CAFO Specialist (contact information at the end of this letter).

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STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES



Jason Knutson, P.E.
Watershed Management Bureau Director
Watershed Management Program



Rob Davis, P.E.
Water Resources Engineer
Watershed Management Program

Email: Jerry White; Kinnamon Ridge Dairy
(608) 985-7007; kr dairy@live.com

Melissa Schlupp; Sauk County
(608) 355-4838; melissa.schlupp@saukcountywi.gov

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

Andy Skwor, P.E.; MSA Professional Services
(608) 355-8936; askwor@msa-ps.com

Eric J Struck; DNR, South Central Region
(608) 422-1512; eric.struck@wisconsin.gov

Laura A Bub; DNR, South Central Region
(608) 712-5249; Laura.Bub@wisconsin.gov

Rob Davis; DNR, Central Office
(608) 225-2720; Robert.Davis@Wisconsin.gov

Tony Knipfer; DNR, South Central Region
(608) 516-3110; Anthony.knipfer@wisconsin.gov